

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

- Supporting information -

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Content

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

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Product species needed to obtain a product fraction of 0.995

species	maximum contribution
Indene+H	0.999773
rad9	0.995618
rad19anti	0.992414
Benzene+cycloprop-2-enylidene	0.510559
PhCHCCH ₂ +H	0.378742
Benzene+cycloprop-1-enylidene	0.246352
rad19syn	0.135199
PhCH ₂ CCH+H	0.0168111
Ph+MeAc	0.0150749
C ₂ H ₂ +PhCH ₂	0.0127872
Ph+Allene	0.0119308
rad15	0.0100785
PhCCH+CH ₃	0.00793383
rad12	0.00769961
rad8	0.00765395
rad67	0.00522213
PhCCCH ₃ +H	0.00385133
rad35	0.00211841
PAH10+CH ₃	0.00159320
rad6	0.00110745
PAH3+H	0.00105686
Phenyl+cycC ₃ H ₄	0.00000

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

Modified Arrhenius expressions

Modified Arrhenius expressions for the total and partial rate coefficients of the initial reaction of phenyl + cyclopropene.

10-300 K :

$$k_{\text{rad19}}(T) = 6.864 \times 10^{-16} \cdot T^{0.931} \cdot \exp(-3.045 \text{ kJ mol}^{-1} / kT)$$
$$k_{\text{benzene+cycloprop-1-enyl}}(T) = 1.489 \times 10^{-11} \cdot T^{-0.619} \cdot \exp(-35.828 \text{ kJ mol}^{-1} / kT)$$
$$k_{\text{benzene+cycloprop-2-enyl}}(T) = 1.829 \times 10^{-11} \cdot T^{-0.722} \cdot \exp(-21.342 \text{ kJ mol}^{-1} / kT)$$
$$k_{\text{tot}}(T) = 6.845 \times 10^{-16} \cdot T^{0.931} \cdot \exp(-3.044 \text{ kJ mol}^{-1} / kT)$$

reproduces TST calculations within factor of 1.5

200-2000 K :

$$k_{\text{rad19}}(T) = 3.989 \times 10^{-20} \cdot T^{2.574} \cdot \exp(-1.375 \text{ kJ mol}^{-1} / kT)$$
$$k_{\text{benzene+cycloprop-1-enyl}}(T) = 9.873 \times 10^{-22} \cdot T^{3.127} \cdot \exp(-29.881 \text{ kJ mol}^{-1} / kT)$$
$$k_{\text{benzene+cycloprop-2-enyl}}(T) = 4.339 \times 10^{-22} \cdot T^{3.196} \cdot \exp(-15.240 \text{ kJ mol}^{-1} / kT)$$
$$k_{\text{tot}}(T) = 3.533 \times 10^{-22} \cdot T^{3.253} \cdot \exp(-0.646 \text{ kJ mol}^{-1} / kT)$$

reproduces TST calculations within factor of 1.1

1000-4000 K :

$$k_{\text{rad19}}(T) = 6.195 \times 10^{-20} \cdot T^{2.520} \cdot \exp(-1.936 \text{ kJ mol}^{-1} / kT)$$
$$k_{\text{benzene+cycloprop-1-enyl}}(T) = 8.870 \times 10^{-21} \cdot T^{2.867} \cdot \exp(-33.466 \text{ kJ mol}^{-1} / kT)$$
$$k_{\text{benzene+cycloprop-2-enyl}}(T) = 7.747 \times 10^{-21} \cdot T^{2.851} \cdot \exp(-19.555 \text{ kJ mol}^{-1} / kT)$$
$$k_{\text{tot}}(T) = 9.873 \times 10^{-23} \cdot T^{3.426} \cdot \exp(-0.897 \text{ kJ mol}^{-1} / kT)$$

reproduces TST calculations within factor of 1.02

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.
- cyc1enyl stands for cycloprop-1-enyl, cyc2enyl stands for cycloprop-2-enyl

100000000. Pa, 20.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.24541e-22 (1.00)	1.24541e-22 (1.00)
Formation of rad19	1.24541e-22 (1.00)	1.24541e-22 (1.00)
H-abstraction to cyc2enyl	3.84323e-68 (3.09e-46)	3.84323e-68 (3.09e-46)
H-abstraction to cyc1enyl	6.26313e-106 (5.03e-84)	6.26313e-106 (5.03e-84)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.863102	0.863102	0.863102	0.863102
rad19syn	0.135199	0.998301	0.135199	0.998301
rad8	0.00108078	0.999382	0.00108078	0.999382
rad9	0.000618618	1.00000	0.000618618	1.00000
rad12	5.24808e-10	1.00000	5.24808e-10	1.00000
rad15	3.03571e-10	1.00000	3.03571e-10	1.00000
rad7	1.00585e-11	1.00000	1.00585e-11	1.00000
Indene+H	3.05043e-15	1.00000	3.05043e-15	1.00000
PhCHCCH2+H	2.85778e-15	1.00000	2.85778e-15	1.00000
rad6	2.79979e-16	1.00000	2.79979e-16	1.00000
rad2	1.82590e-16	1.00000	1.82590e-16	1.00000
rad5	1.06096e-16	1.00000	1.06096e-16	1.00000
PhcycC3H3_A+H	1.00649e-16	1.00000	1.00649e-16	1.00000
rad1	6.04383e-17	1.00000	6.04383e-17	1.00000
rad11	5.72257e-17	1.00000	5.72257e-17	1.00000
rad20	1.18790e-17	1.00000	1.18790e-17	1.00000
Phenyl+cycC3H4	8.04586e-18	1.00000	0.00000	1.00000
rad21	6.40939e-18	1.00000	6.40939e-18	1.00000
rad26	4.55726e-20	1.00000	4.55726e-20	1.00000
rad18	1.79114e-20	1.00000	1.79114e-20	1.00000
rad22	1.89405e-21	1.00000	1.89405e-21	1.00000
C2H2+PhCH2	6.21793e-22	1.00000	6.21793e-22	1.00000
rad24	4.88298e-22	1.00000	4.88298e-22	1.00000
rad67	1.36482e-22	1.00000	1.36482e-22	1.00000
PhCCH+CH3	1.14331e-22	1.00000	1.14331e-22	1.00000
rad10	9.97813e-23	1.00000	9.97813e-23	1.00000
rad35	6.40731e-23	1.00000	6.40731e-23	1.00000
rad31	5.92351e-23	1.00000	5.92351e-23	1.00000
PhcycC3H3_B+H	3.32165e-23	1.00000	3.32165e-23	1.00000
rad13	1.58685e-23	1.00000	1.58685e-23	1.00000
rad3	1.22307e-23	1.00000	1.22307e-23	1.00000
rad45	7.84370e-24	1.00000	7.84370e-24	1.00000
PhCCCH3+H	4.68710e-24	1.00000	4.68710e-24	1.00000
rad4	4.41412e-24	1.00000	4.41412e-24	1.00000
Ph+MeAc	1.30680e-24	1.00000	1.30680e-24	1.00000
rad36	1.29244e-24	1.00000	1.29244e-24	1.00000
rad27	1.21566e-24	1.00000	1.21566e-24	1.00000
rad25	3.42904e-25	1.00000	3.42904e-25	1.00000
rad33	3.29127e-25	1.00000	3.29127e-25	1.00000
Ph+Allene	1.80930e-25	1.00000	1.80930e-25	1.00000
PhCH2CCH+H	2.66884e-26	1.00000	2.66884e-26	1.00000
rad23	1.66427e-27	1.00000	1.66427e-27	1.00000
rad30	1.00111e-28	1.00000	1.00111e-28	1.00000
rad28	3.06710e-30	1.00000	3.06710e-30	1.00000
rad37	1.36096e-30	1.00000	1.36096e-30	1.00000
rad60syn	2.29511e-31	1.00000	2.29511e-31	1.00000
rad14	1.39074e-31	1.00000	1.39074e-31	1.00000
rad60anti	1.06819e-31	1.00000	1.06819e-31	1.00000

PAH3+H	5.23855e-32	1.00000	5.23855e-32	1.00000
PAH7+H	4.20792e-32	1.00000	4.20792e-32	1.00000
rad59	1.15777e-32	1.00000	1.15777e-32	1.00000
rad38	2.03467e-33	1.00000	2.03467e-33	1.00000
PAH10+CH3	5.40369e-34	1.00000	5.40369e-34	1.00000
rad43	1.78036e-35	1.00000	1.78036e-35	1.00000
rad46	1.01399e-36	1.00000	1.01399e-36	1.00000
rad54	5.66916e-37	1.00000	5.66916e-37	1.00000
rad58	1.86505e-37	1.00000	1.86505e-37	1.00000
rad70	7.88110e-38	1.00000	7.88110e-38	1.00000
PAH1+H	1.10558e-38	1.00000	1.10558e-38	1.00000
PAH9+H	6.28726e-39	1.00000	6.28726e-39	1.00000
rad50	2.62022e-39	1.00000	2.62022e-39	1.00000
rad55	2.52552e-39	1.00000	2.52552e-39	1.00000
rad34	4.78339e-40	1.00000	4.78339e-40	1.00000
rad39	3.41140e-40	1.00000	3.41140e-40	1.00000
rad41	7.34432e-41	1.00000	7.34432e-41	1.00000
rad52	4.04508e-43	1.00000	4.04508e-43	1.00000
rad62	3.78247e-43	1.00000	3.78247e-43	1.00000
rad51	5.82841e-44	1.00000	5.82841e-44	1.00000
rad47	2.10820e-44	1.00000	2.10820e-44	1.00000
Benzene+cycloprop-2-enylidene	3.08591e-46	1.00000	3.08591e-46	1.00000
rad53	5.23484e-47	1.00000	5.23484e-47	1.00000
rad42	6.88546e-48	1.00000	6.88546e-48	1.00000
rad65	4.12471e-48	1.00000	4.12471e-48	1.00000
rad61	1.66256e-49	1.00000	1.66256e-49	1.00000
rad68syn	1.93314e-53	1.00000	1.93314e-53	1.00000
rad68anti	1.57259e-53	1.00000	1.57259e-53	1.00000
rad56	1.41678e-53	1.00000	1.41678e-53	1.00000
rad64	8.50436e-56	1.00000	8.50436e-56	1.00000
rad40syn	1.92346e-58	1.00000	1.92346e-58	1.00000
rad40anti	1.50802e-58	1.00000	1.50802e-58	1.00000
PAH8+H	3.66370e-61	1.00000	3.66370e-61	1.00000
rad73	2.72062e-65	1.00000	2.72062e-65	1.00000
rad71	2.13752e-70	1.00000	2.13752e-70	1.00000
Benzene+cycloprop-1-enylidene	5.02895e-84	1.00000	5.02895e-84	1.00000

10000000. Pa, 30.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.13009e-20 (1.00)	8.13009e-20 (1.00)
Formation of rad19	8.13009e-20 (1.00)	8.13009e-20 (1.00)
H-abstraction to cyc2enyl	1.08880e-49 (1.34e-30)	1.08880e-49 (1.34e-30)
H-abstraction to cyc1enyl	7.55172e-75 (9.29e-56)	7.55172e-75 (9.29e-56)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.976087	0.976087	0.976087	0.976087
rad19syn	0.0204673	0.996554	0.0204673	0.996554
rad9	0.00189231	0.998447	0.00189231	0.998447
rad8	0.00155322	1.000000	0.00155322	1.000000
rad12	3.43812e-09	1.000000	3.43812e-09	1.000000
rad15	2.03392e-09	1.000000	2.03392e-09	1.000000
rad7	1.82045e-11	1.000000	1.82045e-11	1.000000
Indene+H	4.29381e-14	1.000000	4.29381e-14	1.000000
PhCHCCH2+H	1.45265e-14	1.000000	1.45265e-14	1.000000
rad6	1.03543e-15	1.000000	1.03543e-15	1.000000
rad2	7.42015e-16	1.000000	7.42015e-16	1.000000
rad11	4.13871e-16	1.000000	4.13871e-16	1.000000
rad5	3.80167e-16	1.000000	3.80167e-16	1.000000
rad1	2.92930e-16	1.000000	2.92930e-16	1.000000
PhcycC3H3_A+H	2.17924e-16	1.000000	2.17924e-16	1.000000
rad20	4.27529e-17	1.000000	4.27529e-17	1.000000
rad21	3.32074e-17	1.000000	3.32074e-17	1.000000
Phenyl+cycC3H4	1.91196e-17	1.000000	0.000000	1.000000
rad26	6.64396e-19	1.000000	6.64396e-19	1.000000
rad18	2.49263e-19	1.000000	2.49263e-19	1.000000
rad22	1.96486e-20	1.000000	1.96486e-20	1.000000
rad24	4.96843e-21	1.000000	4.96843e-21	1.000000
C2H2+PhCH2	4.61195e-21	1.000000	4.61195e-21	1.000000
rad67	2.03398e-21	1.000000	2.03398e-21	1.000000
rad35	9.53265e-22	1.000000	9.53265e-22	1.000000
PhCCH+CH3	8.50818e-22	1.000000	8.50818e-22	1.000000
rad10	7.40889e-22	1.000000	7.40889e-22	1.000000
rad31	2.55393e-22	1.000000	2.55393e-22	1.000000
rad45	1.53368e-22	1.000000	1.53368e-22	1.000000
rad3	1.20735e-22	1.000000	1.20735e-22	1.000000
rad13	1.19848e-22	1.000000	1.19848e-22	1.000000
PhcycC3H3_B+H	9.47490e-23	1.000000	9.47490e-23	1.000000

rad4	7.24473e-23	1.000000	7.24473e-23	1.000000
PhCCCH3+H	4.32499e-23	1.000000	4.32499e-23	1.000000
rad36	3.43801e-23	1.000000	3.43801e-23	1.000000
Ph+MeAc	1.87723e-23	1.000000	1.87723e-23	1.000000
rad27	9.05906e-24	1.000000	9.05906e-24	1.000000
rad25	5.14224e-24	1.000000	5.14224e-24	1.000000
Ph+Allene	2.74645e-24	1.000000	2.74645e-24	1.000000
rad33	2.48986e-24	1.000000	2.48986e-24	1.000000
PhCH2CCH+H	3.93255e-25	1.000000	3.93255e-25	1.000000
rad23	3.47765e-26	1.000000	3.47765e-26	1.000000
rad30	2.92289e-27	1.000000	2.92289e-27	1.000000
rad28	5.56911e-29	1.000000	5.56911e-29	1.000000
rad37	4.17033e-29	1.000000	4.17033e-29	1.000000
rad60syn	6.77554e-30	1.000000	6.77554e-30	1.000000
rad14	3.56425e-30	1.000000	3.56425e-30	1.000000
rad60anti	3.15632e-30	1.000000	3.15632e-30	1.000000
PAH3+H	1.56394e-30	1.000000	1.56394e-30	1.000000
Benzene+cycloprop-2-enylidene	1.33923e-30	1.000000	1.33923e-30	1.000000
PAH7+H	9.20783e-31	1.000000	9.20783e-31	1.000000
rad59	3.45184e-31	1.000000	3.45184e-31	1.000000
rad38	6.34449e-32	1.000000	6.34449e-32	1.000000
PAH10+CH3	1.70739e-32	1.000000	1.70739e-32	1.000000
rad43	2.79546e-34	1.000000	2.79546e-34	1.000000
rad46	4.13082e-35	1.000000	4.13082e-35	1.000000
rad54	9.04931e-36	1.000000	9.04931e-36	1.000000
rad58	5.76874e-36	1.000000	5.76874e-36	1.000000
rad70	2.54377e-36	1.000000	2.54377e-36	1.000000
PAH1+H	3.62891e-37	1.000000	3.62891e-37	1.000000
PAH9+H	2.62772e-37	1.000000	2.62772e-37	1.000000
rad50	1.07685e-37	1.000000	1.07685e-37	1.000000
rad55	4.09059e-38	1.000000	4.09059e-38	1.000000
rad34	1.58141e-38	1.000000	1.58141e-38	1.000000
rad39	1.35150e-38	1.000000	1.35150e-38	1.000000
rad41	1.23641e-39	1.000000	1.23641e-39	1.000000
rad52	3.24171e-41	1.000000	3.24171e-41	1.000000
rad62	2.21079e-41	1.000000	2.21079e-41	1.000000
rad51	4.72951e-42	1.000000	4.72951e-42	1.000000
rad47	9.14059e-43	1.000000	9.14059e-43	1.000000
rad53	9.67960e-46	1.000000	9.67960e-46	1.000000
rad42	4.32632e-46	1.000000	4.32632e-46	1.000000
rad65	1.76204e-46	1.000000	1.76204e-46	1.000000
rad61	6.68208e-48	1.000000	6.68208e-48	1.000000
rad68syn	8.05830e-52	1.000000	8.05830e-52	1.000000
rad68anti	6.55318e-52	1.000000	6.55318e-52	1.000000
rad56	2.66648e-52	1.000000	2.66648e-52	1.000000
rad64	4.87545e-54	1.000000	4.87545e-54	1.000000
Benzene+cycloprop-1-enylidene	9.28861e-56	1.000000	9.28861e-56	1.000000
rad40syn	4.31254e-57	1.000000	4.31254e-57	1.000000
rad40anti	3.31298e-57	1.000000	3.31298e-57	1.000000
PAH8+H	9.96518e-60	1.000000	9.96518e-60	1.000000
rad73	3.85895e-63	1.000000	3.85895e-63	1.000000
rad71	3.36207e-68	1.000000	3.36207e-68	1.000000

100000000. Pa, 40.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.24819e-18 (1.00)	2.24819e-18 (1.00)
Formation of rad19	2.24819e-18 (1.00)	2.24819e-18 (1.00)
H-abstraction to cyc2enyl	1.72361e-40 (7.67e-23)	1.72361e-40 (7.67e-23)
H-abstraction to cyc1enyl	2.48792e-59 (1.11e-41)	2.48792e-59 (1.11e-41)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.991065	0.991065	0.991065	0.991065
rad19syn	0.00381482	0.994880	0.00381482	0.994880
rad9	0.00334691	0.998227	0.00334691	0.998227
rad8	0.00177324	1.000000	0.00177324	1.000000
rad12	9.35759e-09	1.000000	9.35759e-09	1.000000
rad15	5.65979e-09	1.000000	5.65979e-09	1.000000
rad7	2.51144e-11	1.000000	2.51144e-11	1.000000
Indene+H	1.83189e-13	1.000000	1.83189e-13	1.000000
PhCHCCH2+H	3.73749e-14	1.000000	3.73749e-14	1.000000
rad6	2.14986e-15	1.000000	2.14986e-15	1.000000
rad2	1.73772e-15	1.000000	1.73772e-15	1.000000
rad11	1.23392e-15	1.000000	1.23392e-15	1.000000
rad5	7.63712e-16	1.000000	7.63712e-16	1.000000
rad1	6.58682e-16	1.000000	6.58682e-16	1.000000
PhcycC3H3_A+H	3.72484e-16	1.000000	3.72484e-16	1.000000
rad21	8.70969e-17	1.000000	8.70969e-17	1.000000

rad20	8.63058e-17	1.000000	8.63058e-17	1.000000
Phenyl+cycC3H4	4.18900e-17	1.000000	0.00000	1.000000
rad26	2.93666e-18	1.000000	2.93666e-18	1.000000
rad18	1.08472e-18	1.000000	1.08472e-18	1.000000
rad22	7.64267e-20	1.000000	7.64267e-20	1.000000
rad24	1.90142e-20	1.000000	1.90142e-20	1.000000
C2H2+PhCH2	1.41368e-20	1.000000	1.41368e-20	1.000000
rad67	9.20806e-21	1.000000	9.20806e-21	1.000000
rad35	4.30696e-21	1.000000	4.30696e-21	1.000000
PhCCH+CH3	2.61821e-21	1.000000	2.61821e-21	1.000000
rad10	2.32787e-21	1.000000	2.32787e-21	1.000000
rad45	8.65050e-22	1.000000	8.65050e-22	1.000000
rad31	4.96400e-22	1.000000	4.96400e-22	1.000000
rad3	4.22527e-22	1.000000	4.22527e-22	1.000000
rad13	3.75112e-22	1.000000	3.75112e-22	1.000000
rad4	3.04361e-22	1.000000	3.04361e-22	1.000000
PhcycC3H3_B+H	2.73947e-22	1.000000	2.73947e-22	1.000000
rad36	2.06111e-22	1.000000	2.06111e-22	1.000000
PhCCCH3+H	1.57200e-22	1.000000	1.57200e-22	1.000000
Ph+MeAc	8.29744e-23	1.000000	8.29744e-23	1.000000
Benzene+cycloprop-2-enylidene	7.66665e-23	1.000000	7.66665e-23	1.000000
rad27	2.84984e-23	1.000000	2.84984e-23	1.000000
rad25	2.34587e-23	1.000000	2.34587e-23	1.000000
Ph+Allene	1.27398e-23	1.000000	1.27398e-23	1.000000
rad33	7.81399e-24	1.000000	7.81399e-24	1.000000
PhCH2CCH+H	1.81972e-24	1.000000	1.81972e-24	1.000000
rad23	2.02863e-25	1.000000	2.02863e-25	1.000000
rad30	1.95587e-26	1.000000	1.95587e-26	1.000000
rad28	3.00294e-28	1.000000	3.00294e-28	1.000000
rad37	2.87784e-28	1.000000	2.87784e-28	1.000000
rad60syn	4.60307e-29	1.000000	4.60307e-29	1.000000
rad60anti	2.14711e-29	1.000000	2.14711e-29	1.000000
rad14	2.14408e-29	1.000000	2.14408e-29	1.000000
PAH3+H	1.08075e-29	1.000000	1.08075e-29	1.000000
PAH7+H	5.59559e-30	1.000000	5.59559e-30	1.000000
rad59	2.38028e-30	1.000000	2.38028e-30	1.000000
rad38	4.48983e-31	1.000000	4.48983e-31	1.000000
PAH10+CH3	1.23425e-31	1.000000	1.23425e-31	1.000000
rad43	1.37694e-33	1.000000	1.37694e-33	1.000000
rad46	3.53189e-34	1.000000	3.53189e-34	1.000000
rad54	4.52152e-35	1.000000	4.52152e-35	1.000000
rad58	4.23896e-35	1.000000	4.23896e-35	1.000000
rad70	1.90082e-35	1.000000	1.90082e-35	1.000000
PAH1+H	2.80943e-36	1.000000	2.80943e-36	1.000000
PAH9+H	2.30092e-36	1.000000	2.30092e-36	1.000000
rad50	9.40177e-37	1.000000	9.40177e-37	1.000000
rad55	2.09714e-37	1.000000	2.09714e-37	1.000000
rad34	1.23387e-37	1.000000	1.23387e-37	1.000000
rad39	1.16332e-37	1.000000	1.16332e-37	1.000000
rad41	6.89629e-39	1.000000	6.89629e-39	1.000000
rad52	4.11402e-40	1.000000	4.11402e-40	1.000000
rad62	2.25014e-40	1.000000	2.25014e-40	1.000000
rad51	6.14128e-41	1.000000	6.14128e-41	1.000000
Benzene+cycloprop-1-enylidene	1.10663e-41	1.000000	1.10663e-41	1.000000
rad47	8.85622e-42	1.000000	8.85622e-42	1.000000
rad53	6.94708e-45	1.000000	6.94708e-45	1.000000
rad42	4.97551e-45	1.000000	4.97551e-45	1.000000
rad65	1.64302e-45	1.000000	1.64302e-45	1.000000
rad61	8.51936e-47	1.000000	8.51936e-47	1.000000
rad68syn	1.14450e-50	1.000000	1.14450e-50	1.000000
rad68anti	9.29787e-51	1.000000	9.29787e-51	1.000000
rad56	2.39455e-51	1.000000	2.39455e-51	1.000000
rad64	7.08475e-53	1.000000	7.08475e-53	1.000000
rad40syn	5.46210e-56	1.000000	5.46210e-56	1.000000
rad40anti	4.12556e-56	1.000000	4.12556e-56	1.000000
PAH8+H	1.58173e-58	1.000000	1.58173e-58	1.000000
rad73	1.26901e-61	1.000000	1.26901e-61	1.000000
rad71	1.37315e-66	1.000000	1.37315e-66	1.000000

100000000. Pa, 50.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.72707e-17 (1.00)	1.72707e-17 (1.00)
Formation of rad19	1.72707e-17 (1.00)	1.72707e-17 (1.00)
H-abstraction to cyc2enyl	5.49905e-35 (3.18e-18)	5.49905e-35 (3.18e-18)
H-abstraction to cyclenyl	4.93090e-50 (2.86e-33)	4.93090e-50 (2.86e-33)
species	PYtrue	Cumul
species	PYeffective	Cumul

rad19anti	0.992414	0.992414	0.992414	0.992414
rad9	0.00485849	0.997272	0.00485849	0.997272
rad8	0.00188556	0.999158	0.00188556	0.999158
rad19syn	0.000841486	1.000000	0.000841486	1.000000
rad12	1.82901e-08	1.000000	1.82901e-08	1.000000
rad15	1.13061e-08	1.000000	1.13061e-08	1.000000
rad7	3.14502e-11	1.000000	3.14502e-11	1.000000
Indene+H	4.95117e-13	1.000000	4.95117e-13	1.000000
PhCHCCH2+H	7.32185e-14	1.000000	7.32185e-14	1.000000
rad6	3.59551e-15	1.000000	3.59551e-15	1.000000
rad2	3.23004e-15	1.000000	3.23004e-15	1.000000
rad11	2.62790e-15	1.000000	2.62790e-15	1.000000
rad5	1.23557e-15	1.000000	1.23557e-15	1.000000
rad1	1.14680e-15	1.000000	1.14680e-15	1.000000
PhcycC3H3_A+H	5.87159e-16	1.000000	5.87159e-16	1.000000
rad21	1.73960e-16	1.000000	1.73960e-16	1.000000
rad20	1.40361e-16	1.000000	1.40361e-16	1.000000
Phenyl+cycC3H4	8.78414e-17	1.000000	0.00000	1.000000
rad26	8.22272e-18	1.000000	8.22272e-18	1.000000
Benzene+cycloprop-2-enylidene	3.18404e-18	1.000000	3.18404e-18	1.000000
rad18	3.01218e-18	1.000000	3.01218e-18	1.000000
rad22	2.01356e-19	1.000000	2.01356e-19	1.000000
rad24	4.93711e-20	1.000000	4.93711e-20	1.000000
C2H2+PhCH2	3.09797e-20	1.000000	3.09797e-20	1.000000
rad67	2.64346e-20	1.000000	2.64346e-20	1.000000
rad35	1.23377e-20	1.000000	1.23377e-20	1.000000
PhCCH+CH3	5.76189e-21	1.000000	5.76189e-21	1.000000
rad10	5.30429e-21	1.000000	5.30429e-21	1.000000
rad45	2.97518e-21	1.000000	2.97518e-21	1.000000
rad3	1.02315e-21	1.000000	1.02315e-21	1.000000
PhcycC3H3_B+H	8.44807e-22	1.000000	8.44807e-22	1.000000
rad13	8.40367e-22	1.000000	8.40367e-22	1.000000
rad4	7.93522e-22	1.000000	7.93522e-22	1.000000
rad31	7.38411e-22	1.000000	7.38411e-22	1.000000
rad36	7.07480e-22	1.000000	7.07480e-22	1.000000
PhCCCH3+H	3.96944e-22	1.000000	3.96944e-22	1.000000
Ph+MeAc	2.34658e-22	1.000000	2.34658e-22	1.000000
rad25	6.79220e-23	1.000000	6.79220e-23	1.000000
rad27	6.49876e-23	1.000000	6.49876e-23	1.000000
Ph+Allene	3.76003e-23	1.000000	3.76003e-23	1.000000
rad33	1.75637e-23	1.000000	1.75637e-23	1.000000
PhCH2CCH+H	5.39851e-24	1.000000	5.39851e-24	1.000000
rad23	7.15026e-25	1.000000	7.15026e-25	1.000000
rad30	7.41071e-26	1.000000	7.41071e-26	1.000000
rad37	1.12245e-27	1.000000	1.12245e-27	1.000000
rad28	1.00971e-27	1.000000	1.00971e-27	1.000000
rad60syn	1.77496e-28	1.000000	1.77496e-28	1.000000
rad60anti	8.29213e-29	1.000000	8.29213e-29	1.000000
rad14	7.50951e-29	1.000000	7.50951e-29	1.000000
PAH3+H	4.25342e-29	1.000000	4.25342e-29	1.000000
PAH7+H	2.05436e-29	1.000000	2.05436e-29	1.000000
rad59	9.34338e-30	1.000000	9.34338e-30	1.000000
rad38	1.80457e-30	1.000000	1.80457e-30	1.000000
PAH10+CH3	5.09345e-31	1.000000	5.09345e-31	1.000000
rad43	4.39212e-33	1.000000	4.39212e-33	1.000000
Benzene+cycloprop-1-enylidene	2.85507e-33	1.000000	2.85507e-33	1.000000
rad46	1.63900e-33	1.000000	1.63900e-33	1.000000
rad58	1.80111e-34	1.000000	1.80111e-34	1.000000
rad54	1.45775e-34	1.000000	1.45775e-34	1.000000
rad70	8.16857e-35	1.000000	8.16857e-35	1.000000
PAH1+H	1.26438e-35	1.000000	1.26438e-35	1.000000
PAH9+H	1.09175e-35	1.000000	1.09175e-35	1.000000
rad50	4.48682e-36	1.000000	4.48682e-36	1.000000
rad55	6.98460e-37	1.000000	6.98460e-37	1.000000
rad34	5.60151e-37	1.000000	5.60151e-37	1.000000
rad39	5.52937e-37	1.000000	5.52937e-37	1.000000
rad41	2.56973e-38	1.000000	2.56973e-38	1.000000
rad52	2.55361e-39	1.000000	2.55361e-39	1.000000
rad62	1.18804e-39	1.000000	1.18804e-39	1.000000
rad51	3.92580e-40	1.000000	3.92580e-40	1.000000
rad47	4.84145e-41	1.000000	4.84145e-41	1.000000
rad53	3.69175e-44	1.000000	3.69175e-44	1.000000
rad42	3.05744e-44	1.000000	3.05744e-44	1.000000
rad65	8.51349e-45	1.000000	8.51349e-45	1.000000
rad61	7.78445e-46	1.000000	7.78445e-46	1.000000
rad68syn	1.22971e-49	1.000000	1.22971e-49	1.000000
rad68anti	9.97463e-50	1.000000	9.97463e-50	1.000000
rad56	1.83835e-50	1.000000	1.83835e-50	1.000000
rad64	6.40947e-52	1.000000	6.40947e-52	1.000000
rad40syn	6.77032e-55	1.000000	6.77032e-55	1.000000

rad40anti	5.04410e-55	1.000000	5.04410e-55	1.000000
PAH8+H	2.51729e-57	1.000000	2.51729e-57	1.000000
rad73	2.77183e-60	1.000000	2.77183e-60	1.000000
rad71	4.11232e-65	1.000000	4.11232e-65	1.000000

100000000. Pa, 60.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.93738e-17 (1.00)	6.93738e-17 (1.00)
Formation of rad19	6.93738e-17 (1.000)	6.93738e-17 (1.000)
H-abstraction to cyc2enyl	2.50609e-31 (3.61e-15)	2.50609e-31 (3.61e-15)
H-abstraction to cyclenyl	7.62015e-44 (1.10e-27)	7.62015e-44 (1.10e-27)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.991453	0.991453	0.991453	0.991453
rad9	0.00638887	0.997842	0.00638887	0.997842
rad8	0.00194425	0.999786	0.00194425	0.999786
rad19syn	0.000213569	1.000000	0.000213569	1.000000
rad12	3.01237e-08	1.000000	3.01237e-08	1.000000
rad15	1.90245e-08	1.000000	1.90245e-08	1.000000
rad7	3.75209e-11	1.000000	3.75209e-11	1.000000
Indene+H	1.05377e-12	1.000000	1.05377e-12	1.000000
PhCHCCH2+H	1.23852e-13	1.000000	1.23852e-13	1.000000
rad6	5.37464e-15	1.000000	5.37464e-15	1.000000
rad2	5.27570e-15	1.000000	5.27570e-15	1.000000
rad11	4.69666e-15	1.000000	4.69666e-15	1.000000
Benzene+cycloprop-2-enylidene	3.61245e-15	1.000000	3.61245e-15	1.000000
rad5	1.78751e-15	1.000000	1.78751e-15	1.000000
rad1	1.76740e-15	1.000000	1.76740e-15	1.000000
PhcycC3H3_A+H	8.86760e-16	1.000000	8.86760e-16	1.000000
rad21	2.99993e-16	1.000000	2.99993e-16	1.000000
rad20	2.04181e-16	1.000000	2.04181e-16	1.000000
Phenyl+cycC3H4	1.74045e-16	1.000000	0.000000	1.000000
rad26	1.81234e-17	1.000000	1.81234e-17	1.000000
rad18	6.60293e-18	1.000000	6.60293e-18	1.000000
rad22	4.30306e-19	1.000000	4.30306e-19	1.000000
rad24	1.04088e-19	1.000000	1.04088e-19	1.000000
rad67	5.97657e-20	1.000000	5.97657e-20	1.000000
C2H2+PhCH2	5.69661e-20	1.000000	5.69661e-20	1.000000
rad35	2.78313e-20	1.000000	2.78313e-20	1.000000
PhCCH+CH3	1.06412e-20	1.000000	1.06412e-20	1.000000
rad10	1.02282e-20	1.000000	1.02282e-20	1.000000
rad45	7.82718e-21	1.000000	7.82718e-21	1.000000
PhcycC3H3_B+H	2.71193e-21	1.000000	2.71193e-21	1.000000
rad3	2.05459e-21	1.000000	2.05459e-21	1.000000
rad36	1.82369e-21	1.000000	1.82369e-21	1.000000
rad4	1.64233e-21	1.000000	1.64233e-21	1.000000
rad13	1.58030e-21	1.000000	1.58030e-21	1.000000
rad31	9.71904e-22	1.000000	9.71904e-22	1.000000
PhCCCH3+H	8.25434e-22	1.000000	8.25434e-22	1.000000
Ph+MeAc	5.26040e-22	1.000000	5.26040e-22	1.000000
rad25	1.54962e-22	1.000000	1.54962e-22	1.000000
rad27	1.25478e-22	1.000000	1.25478e-22	1.000000
Ph+Allene	8.75758e-23	1.000000	8.75758e-23	1.000000
rad33	3.31498e-23	1.000000	3.31498e-23	1.000000
PhCH2CCH+H	1.26818e-23	1.000000	1.26818e-23	1.000000
rad23	1.92388e-24	1.000000	1.92388e-24	1.000000
rad30	2.08062e-25	1.000000	2.08062e-25	1.000000
rad37	3.24492e-27	1.000000	3.24492e-27	1.000000
rad28	2.63974e-27	1.000000	2.63974e-27	1.000000
Benzene+cycloprop-1-enylidene	1.09842e-27	1.000000	1.09842e-27	1.000000
rad60syn	5.07922e-28	1.000000	5.07922e-28	1.000000
rad60anti	2.37690e-28	1.000000	2.37690e-28	1.000000
rad14	1.99298e-28	1.000000	1.99298e-28	1.000000
PAH3+H	1.24497e-28	1.000000	1.24497e-28	1.000000
PAH7+H	5.76305e-29	1.000000	5.76305e-29	1.000000
rad59	2.72679e-29	1.000000	2.72679e-29	1.000000
rad38	5.39307e-30	1.000000	5.39307e-30	1.000000
PAH10+CH3	1.56836e-30	1.000000	1.56836e-30	1.000000
rad43	1.11964e-32	1.000000	1.11964e-32	1.000000
rad46	5.49295e-33	1.000000	5.49295e-33	1.000000
rad58	5.74755e-34	1.000000	5.74755e-34	1.000000
rad54	3.74115e-34	1.000000	3.74115e-34	1.000000
rad70	2.63239e-34	1.000000	2.63239e-34	1.000000
PAH1+H	4.29501e-35	1.000000	4.29501e-35	1.000000
PAH9+H	3.73621e-35	1.000000	3.73621e-35	1.000000
rad50	1.55363e-35	1.000000	1.55363e-35	1.000000
rad34	1.92117e-36	1.000000	1.92117e-36	1.000000

rad39	1.91716e-36	1.000000	1.91716e-36	1.000000
rad55	1.86009e-36	1.000000	1.86009e-36	1.000000
rad41	7.79489e-38	1.000000	7.79489e-38	1.000000
rad52	1.08595e-38	1.000000	1.08595e-38	1.000000
rad62	4.47333e-39	1.000000	4.47333e-39	1.000000
rad51	1.72710e-39	1.000000	1.72710e-39	1.000000
rad47	1.96260e-40	1.000000	1.96260e-40	1.000000
rad53	1.71068e-43	1.000000	1.71068e-43	1.000000
rad42	1.36471e-43	1.000000	1.36471e-43	1.000000
rad65	3.23732e-44	1.000000	3.23732e-44	1.000000
rad61	6.19858e-45	1.000000	6.19858e-45	1.000000
rad68syn	1.19694e-48	1.000000	1.19694e-48	1.000000
rad68anti	9.68989e-49	1.000000	9.68989e-49	1.000000
rad56	1.34994e-49	1.000000	1.34994e-49	1.000000
rad64	4.60987e-51	1.000000	4.60987e-51	1.000000
rad40syn	8.87509e-54	1.000000	8.87509e-54	1.000000
rad40anti	6.53815e-54	1.000000	6.53815e-54	1.000000
PAH8+H	4.32191e-56	1.000000	4.32191e-56	1.000000
rad73	5.17313e-59	1.000000	5.17313e-59	1.000000
rad71	1.13397e-63	1.000000	1.13397e-63	1.000000

100000000. Pa, 70.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.91520e-16 (1.00)	1.91520e-16 (1.00)
Formation of rad19	1.91520e-16 (1.000)	1.91520e-16 (1.000)
H-abstraction to cyc2enyl	1.01125e-28 (5.28e-13)	1.01125e-28 (5.28e-13)
H-abstraction to cyclenyl	1.97822e-39 (1.03e-23)	1.97822e-39 (1.03e-23)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.990039	0.990039	0.990039	0.990039
rad9	0.00792644	0.997965	0.00792644	0.997965
rad8	0.00197335	0.999939	0.00197335	0.999939
rad19syn	6.10776e-05	1.000000	6.10776e-05	1.000000
rad12	4.47500e-08	1.000000	4.47500e-08	1.000000
rad15	2.88647e-08	1.000000	2.88647e-08	1.000000
rad7	4.35272e-11	1.000000	4.35272e-11	1.000000
Indene+H	1.93940e-12	1.000000	1.93940e-12	1.000000
Benzene+cycloprop-2-enylidene	5.28015e-13	1.000000	5.28015e-13	1.000000
PhCHCCH2+H	1.91337e-13	1.000000	1.91337e-13	1.000000
rad2	7.94505e-15	1.000000	7.94505e-15	1.000000
rad11	7.54997e-15	1.000000	7.54997e-15	1.000000
rad6	7.51058e-15	1.000000	7.51058e-15	1.000000
rad1	2.53823e-15	1.000000	2.53823e-15	1.000000
rad5	2.41857e-15	1.000000	2.41857e-15	1.000000
PhcycC3H3_A+H	1.30593e-15	1.000000	1.30593e-15	1.000000
rad21	4.72495e-16	1.000000	4.72495e-16	1.000000
Phenyl+cycC3H4	3.26585e-16	1.000000	0.000000	1.000000
rad20	2.77869e-16	1.000000	2.77869e-16	1.000000
rad26	3.45363e-17	1.000000	3.45363e-17	1.000000
rad18	1.25311e-17	1.000000	1.25311e-17	1.000000
rad22	8.08113e-19	1.000000	8.08113e-19	1.000000
rad24	1.92983e-19	1.000000	1.92983e-19	1.000000
rad67	1.16881e-19	1.000000	1.16881e-19	1.000000
C2H2+PhCH2	9.42031e-20	1.000000	9.42031e-20	1.000000
rad35	5.43011e-20	1.000000	5.43011e-20	1.000000
rad10	1.78228e-20	1.000000	1.78228e-20	1.000000
PhCCH+CH3	1.76754e-20	1.000000	1.76754e-20	1.000000
rad45	1.74301e-20	1.000000	1.74301e-20	1.000000
PhcycC3H3_B+H	8.96088e-21	1.000000	8.96088e-21	1.000000
rad36	3.96064e-21	1.000000	3.96064e-21	1.000000
rad3	3.68723e-21	1.000000	3.68723e-21	1.000000
rad4	2.98061e-21	1.000000	2.98061e-21	1.000000
rad13	2.67305e-21	1.000000	2.67305e-21	1.000000
PhCCCH3+H	1.52402e-21	1.000000	1.52402e-21	1.000000
rad31	1.19882e-21	1.000000	1.19882e-21	1.000000
Ph+MeAc	1.02548e-21	1.000000	1.02548e-21	1.000000
rad25	3.05955e-22	1.000000	3.05955e-22	1.000000
rad27	2.19170e-22	1.000000	2.19170e-22	1.000000
Ph+Allene	1.76744e-22	1.000000	1.76744e-22	1.000000
rad33	5.62961e-23	1.000000	5.62961e-23	1.000000
PhCH2CCH+H	2.58670e-23	1.000000	2.58670e-23	1.000000
Benzene+cycloprop-1-enylidene	1.03290e-23	1.000000	1.03290e-23	1.000000
rad23	4.38256e-24	1.000000	4.38256e-24	1.000000
rad30	4.86603e-25	1.000000	4.86603e-25	1.000000
rad37	7.82218e-27	1.000000	7.82218e-27	1.000000
rad28	5.91441e-27	1.000000	5.91441e-27	1.000000
rad60syn	1.21231e-27	1.000000	1.21231e-27	1.000000

rad60anti	5.68349e-28	1.000000	5.68349e-28	1.000000
rad14	4.48536e-28	1.000000	4.48536e-28	1.000000
PAH3+H	3.04496e-28	1.000000	3.04496e-28	1.000000
PAH7+H	1.37122e-28	1.000000	1.37122e-28	1.000000
rad59	6.64781e-29	1.000000	6.64781e-29	1.000000
rad38	1.34757e-29	1.000000	1.34757e-29	1.000000
PAH10+CH3	4.04969e-30	1.000000	4.04969e-30	1.000000
rad43	2.50014e-32	1.000000	2.50014e-32	1.000000
rad46	1.50839e-32	1.000000	1.50839e-32	1.000000
rad58	1.54490e-33	1.000000	1.54490e-33	1.000000
rad54	8.38085e-34	1.000000	8.38085e-34	1.000000
rad70	7.14457e-34	1.000000	7.14457e-34	1.000000
PAH1+H	1.23454e-34	1.000000	1.23454e-34	1.000000
PAH9+H	1.04664e-34	1.000000	1.04664e-34	1.000000
rad50	4.42499e-35	1.000000	4.42499e-35	1.000000
rad34	5.58166e-36	1.000000	5.58166e-36	1.000000
rad39	5.48583e-36	1.000000	5.48583e-36	1.000000
rad55	4.34052e-36	1.000000	4.34052e-36	1.000000
rad41	2.09995e-37	1.000000	2.09995e-37	1.000000
rad52	3.67194e-38	1.000000	3.67194e-38	1.000000
rad62	1.37975e-38	1.000000	1.37975e-38	1.000000
rad51	6.06454e-39	1.000000	6.06454e-39	1.000000
rad47	6.66431e-40	1.000000	6.66431e-40	1.000000
rad53	7.39722e-43	1.000000	7.39722e-43	1.000000
rad42	5.06062e-43	1.000000	5.06062e-43	1.000000
rad65	1.02268e-43	1.000000	1.02268e-43	1.000000
rad61	4.63396e-44	1.000000	4.63396e-44	1.000000
rad68syn	1.12559e-47	1.000000	1.12559e-47	1.000000
rad68anti	9.09165e-48	1.000000	9.09165e-48	1.000000
rad56	9.89681e-49	1.000000	9.89681e-49	1.000000
rad64	2.92359e-50	1.000000	2.92359e-50	1.000000
rad40syn	1.24135e-52	1.000000	1.24135e-52	1.000000
rad40anti	9.05609e-53	1.000000	9.05609e-53	1.000000
PAH8+H	8.05260e-55	1.000000	8.05260e-55	1.000000
rad73	9.05820e-58	1.000000	9.05820e-58	1.000000
rad71	3.10172e-62	1.000000	3.10172e-62	1.000000

10000000. Pa, 80.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.17084e-16 (1.00)	4.17084e-16 (1.00)
Formation of rad19	4.17084e-16 (1.000)	4.17084e-16 (1.000)
H-abstraction to cyc2enyl	8.98751e-27 (2.15e-11)	8.98751e-27 (2.15e-11)
H-abstraction to cyc1enyl	4.00120e-36 (9.59e-21)	4.00120e-36 (9.59e-21)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.988526	0.988526	0.988526	0.988526
rad9	0.00946934	0.997995	0.00946934	0.997995
rad8	0.00198493	0.999980	0.00198493	0.999980
rad19syn	1.93729e-05	1.000000	1.93729e-05	1.000000
rad12	6.20998e-08	1.000000	6.20998e-08	1.000000
rad15	4.08997e-08	1.000000	4.08997e-08	1.000000
rad7	4.96264e-11	1.000000	4.96264e-11	1.000000
Benzene+cycloprop-2-enylidene	2.15484e-11	1.000000	2.15484e-11	1.000000
Indene+H	3.24061e-12	1.000000	3.24061e-12	1.000000
PhCHCCH2+H	2.78209e-13	1.000000	2.78209e-13	1.000000
rad2	1.13305e-14	1.000000	1.13305e-14	1.000000
rad11	1.13189e-14	1.000000	1.13189e-14	1.000000
rad6	1.00457e-14	1.000000	1.00457e-14	1.000000
rad1	3.48209e-15	1.000000	3.48209e-15	1.000000
rad5	3.13281e-15	1.000000	3.13281e-15	1.000000
PhcycC3H3_A+H	1.89459e-15	1.000000	1.89459e-15	1.000000
rad21	7.00563e-16	1.000000	7.00563e-16	1.000000
Phenyl+cycC3H4	5.84536e-16	1.000000	0.00000	1.000000
rad20	3.62147e-16	1.000000	3.62147e-16	1.000000
rad26	5.97656e-17	1.000000	5.97656e-17	1.000000
rad18	2.16115e-17	1.000000	2.16115e-17	1.000000
rad22	1.39211e-18	1.000000	1.39211e-18	1.000000
rad24	3.28375e-19	1.000000	3.28375e-19	1.000000
rad67	2.07696e-19	1.000000	2.07696e-19	1.000000
C2H2+PhCH2	1.45292e-19	1.000000	1.45292e-19	1.000000
rad35	9.62593e-20	1.000000	9.62593e-20	1.000000
rad45	3.46978e-20	1.000000	3.46978e-20	1.000000
PhcycC3H3_B+H	2.99513e-20	1.000000	2.99513e-20	1.000000
rad10	2.90403e-20	1.000000	2.90403e-20	1.000000
PhCCH+CH3	2.73857e-20	1.000000	2.73857e-20	1.000000
Benzene+cycloprop-1-enylidene	9.59328e-21	1.000000	9.59328e-21	1.000000
rad36	7.68892e-21	1.000000	7.68892e-21	1.000000

rad3	6.14574e-21	1.000000	6.14574e-21	1.000000
rad4	4.98079e-21	1.000000	4.98079e-21	1.000000
rad13	4.21824e-21	1.000000	4.21824e-21	1.000000
PhCCCH3+H	2.60109e-21	1.000000	2.60109e-21	1.000000
Ph+MeAc	1.82515e-21	1.000000	1.82515e-21	1.000000
rad31	1.42424e-21	1.000000	1.42424e-21	1.000000
rad25	5.49184e-22	1.000000	5.49184e-22	1.000000
rad27	3.58452e-22	1.000000	3.58452e-22	1.000000
Ph+Allene	3.24703e-22	1.000000	3.24703e-22	1.000000
rad33	8.92202e-23	1.000000	8.92202e-23	1.000000
PhCH2CCH+H	4.81018e-23	1.000000	4.81018e-23	1.000000
rad23	8.93295e-24	1.000000	8.93295e-24	1.000000
rad30	1.00831e-24	1.000000	1.00831e-24	1.000000
rad37	1.67310e-26	1.000000	1.67310e-26	1.000000
rad28	1.19642e-26	1.000000	1.19642e-26	1.000000
rad60syn	2.56702e-27	1.000000	2.56702e-27	1.000000
rad60anti	1.20580e-27	1.000000	1.20580e-27	1.000000
rad14	9.07522e-28	1.000000	9.07522e-28	1.000000
PAH3+H	6.61905e-28	1.000000	6.61905e-28	1.000000
PAH7+H	2.92688e-28	1.000000	2.92688e-28	1.000000
rad59	1.44005e-28	1.000000	1.44005e-28	1.000000
rad38	2.99558e-29	1.000000	2.99558e-29	1.000000
PAH10+CH3	9.33008e-30	1.000000	9.33008e-30	1.000000
rad43	5.13526e-32	1.000000	5.13526e-32	1.000000
rad46	3.63091e-32	1.000000	3.63091e-32	1.000000
rad58	3.71890e-33	1.000000	3.71890e-33	1.000000
rad70	1.73760e-33	1.000000	1.73760e-33	1.000000
rad54	1.72190e-33	1.000000	1.72190e-33	1.000000
PAH1+H	3.19180e-34	1.000000	3.19180e-34	1.000000
PAH9+H	2.56851e-34	1.000000	2.56851e-34	1.000000
rad50	1.10890e-34	1.000000	1.10890e-34	1.000000
rad34	1.46064e-35	1.000000	1.46064e-35	1.000000
rad39	1.38448e-35	1.000000	1.38448e-35	1.000000
rad55	9.32375e-36	1.000000	9.32375e-36	1.000000
rad41	5.26747e-37	1.000000	5.26747e-37	1.000000
rad52	1.06919e-37	1.000000	1.06919e-37	1.000000
rad62	3.75259e-38	1.000000	3.75259e-38	1.000000
rad51	1.84058e-38	1.000000	1.84058e-38	1.000000
rad47	2.02562e-39	1.000000	2.02562e-39	1.000000
rad53	3.07562e-42	1.000000	3.07562e-42	1.000000
rad42	1.67542e-42	1.000000	1.67542e-42	1.000000
rad61	3.36986e-43	1.000000	3.36986e-43	1.000000
rad65	2.87119e-43	1.000000	2.87119e-43	1.000000
rad68syn	1.05350e-46	1.000000	1.05350e-46	1.000000
rad68anti	8.48742e-47	1.000000	8.48742e-47	1.000000
rad56	7.49607e-48	1.000000	7.49607e-48	1.000000
rad64	1.72424e-49	1.000000	1.72424e-49	1.000000
rad40syn	1.85040e-51	1.000000	1.85040e-51	1.000000
rad40anti	1.33796e-51	1.000000	1.33796e-51	1.000000
PAH8+H	1.62247e-53	1.000000	1.62247e-53	1.000000
rad73	1.55775e-56	1.000000	1.55775e-56	1.000000
rad71	8.69296e-61	1.000000	8.69296e-61	1.000000

100000000. Pa, 90.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.74016e-16 (1.00)	7.74016e-16 (1.00)
Formation of rad19	7.74016e-16 (1.000)	7.74016e-16 (1.000)
H-abstraction to cyc2enyl	2.91736e-25 (3.77e-10)	2.91736e-25 (3.77e-10)
H-abstraction to cyc1enyl	1.47814e-33 (1.91e-18)	1.47814e-33 (1.91e-18)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.986988	0.986988	0.986988	0.986988
rad9	0.0110197	0.998008	0.0110197	0.998008
rad8	0.00198560	0.999993	0.00198560	0.999993
rad19syn	6.73286e-06	1.00000	6.73286e-06	1.00000
rad12	8.21509e-08	1.00000	8.21509e-08	1.00000
rad15	5.52342e-08	1.00000	5.52342e-08	1.00000
Benzene+cycloprop-2-enylidene	3.76912e-10	1.00000	3.76912e-10	1.00000
rad7	5.59530e-11	1.00000	5.59530e-11	1.00000
Indene+H	5.05815e-12	1.00000	5.05815e-12	1.00000
PhCHCCH2+H	3.87644e-13	1.00000	3.87644e-13	1.00000
rad11	1.61661e-14	1.00000	1.61661e-14	1.00000
rad2	1.55520e-14	1.00000	1.55520e-14	1.00000
rad6	1.30412e-14	1.00000	1.30412e-14	1.00000
rad1	4.62752e-15	1.00000	4.62752e-15	1.00000
rad5	3.93828e-15	1.00000	3.93828e-15	1.00000
PhcycC3H3_A+H	2.72513e-15	1.00000	2.72513e-15	1.00000

Phenyl+cycC3H4	1.00607e-15	1.00000	0.00000	1.00000
rad21	9.95776e-16	1.00000	9.95776e-16	1.00000
rad20	4.58254e-16	1.00000	4.58254e-16	1.00000
rad26	9.66731e-17	1.00000	9.66731e-17	1.00000
rad18	3.48513e-17	1.00000	3.48513e-17	1.00000
rad22	2.25705e-18	1.00000	2.25705e-18	1.00000
Benzene+cycloprop-1-enylidene	1.90970e-18	1.00000	1.90970e-18	1.00000
rad24	5.26099e-19	1.00000	5.26099e-19	1.00000
rad67	3.45251e-19	1.00000	3.45251e-19	1.00000
C2H2+PhCH2	2.13546e-19	1.00000	2.13546e-19	1.00000
rad35	1.59608e-19	1.00000	1.59608e-19	1.00000
PhcycC3H3_B+H	9.79135e-20	1.00000	9.79135e-20	1.00000
rad45	6.38111e-20	1.00000	6.38111e-20	1.00000
rad10	4.51475e-20	1.00000	4.51475e-20	1.00000
PhCCH+CH3	4.04397e-20	1.00000	4.04397e-20	1.00000
rad36	1.38098e-20	1.00000	1.38098e-20	1.00000
rad3	9.73097e-21	1.00000	9.73097e-21	1.00000
rad4	7.87503e-21	1.00000	7.87503e-21	1.00000
rad13	6.34622e-21	1.00000	6.34622e-21	1.00000
PhCCCH3+H	4.20428e-21	1.00000	4.20428e-21	1.00000
Ph+MeAc	3.05240e-21	1.00000	3.05240e-21	1.00000
rad31	1.65395e-21	1.00000	1.65395e-21	1.00000
rad25	9.22716e-22	1.00000	9.22716e-22	1.00000
rad27	5.60188e-22	1.00000	5.60188e-22	1.00000
Ph+Allene	5.59153e-22	1.00000	5.59153e-22	1.00000
rad33	1.34849e-22	1.00000	1.34849e-22	1.00000
PhCH2CCH+H	8.39595e-23	1.00000	8.39595e-23	1.00000
rad23	1.68415e-23	1.00000	1.68415e-23	1.00000
rad30	1.92008e-24	1.00000	1.92008e-24	1.00000
rad37	3.29471e-26	1.00000	3.29471e-26	1.00000
rad28	2.25473e-26	1.00000	2.25473e-26	1.00000
rad60syn	5.00227e-27	1.00000	5.00227e-27	1.00000
rad60anti	2.35459e-27	1.00000	2.35459e-27	1.00000
rad14	1.70816e-27	1.00000	1.70816e-27	1.00000
PAH3+H	1.32673e-27	1.00000	1.32673e-27	1.00000
PAH7+H	5.79785e-28	1.00000	5.79785e-28	1.00000
rad59	2.87554e-28	1.00000	2.87554e-28	1.00000
rad38	6.14787e-29	1.00000	6.14787e-29	1.00000
PAH10+CH3	1.99068e-29	1.00000	1.99068e-29	1.00000
rad43	9.99270e-32	1.00000	9.99270e-32	1.00000
rad46	7.97890e-32	1.00000	7.97890e-32	1.00000
rad58	8.31940e-33	1.00000	8.31940e-33	1.00000
rad70	3.93143e-33	1.00000	3.93143e-33	1.00000
rad54	3.34349e-33	1.00000	3.34349e-33	1.00000
PAH1+H	7.70220e-34	1.00000	7.70220e-34	1.00000
PAH9+H	5.75238e-34	1.00000	5.75238e-34	1.00000
rad50	2.54683e-34	1.00000	2.54683e-34	1.00000
rad34	3.57350e-35	1.00000	3.57350e-35	1.00000
rad39	3.20861e-35	1.00000	3.20861e-35	1.00000
rad55	1.90011e-35	1.00000	1.90011e-35	1.00000
rad41	1.26671e-36	1.00000	1.26671e-36	1.00000
rad52	2.81342e-37	1.00000	2.81342e-37	1.00000
rad62	9.40851e-38	1.00000	9.40851e-38	1.00000
rad51	5.06741e-38	1.00000	5.06741e-38	1.00000
rad47	5.74162e-39	1.00000	5.74162e-39	1.00000
rad53	1.24027e-41	1.00000	1.24027e-41	1.00000
rad42	5.17533e-42	1.00000	5.17533e-42	1.00000
rad61	2.42390e-42	1.00000	2.42390e-42	1.00000
rad65	7.46804e-43	1.00000	7.46804e-43	1.00000
rad68syn	9.94997e-46	1.00000	9.94997e-46	1.00000
rad68anti	7.99276e-46	1.00000	7.99276e-46	1.00000
rad56	6.07648e-47	1.00000	6.07648e-47	1.00000
rad64	9.73631e-49	1.00000	9.73631e-49	1.00000
rad40syn	2.93063e-50	1.00000	2.93063e-50	1.00000
rad40anti	2.10127e-50	1.00000	2.10127e-50	1.00000
PAH8+H	3.51567e-52	1.00000	3.51567e-52	1.00000
rad73	2.69816e-55	1.00000	2.69816e-55	1.00000
rad71	2.53557e-59	1.00000	2.53557e-59	1.00000

100000000. Pa, 100.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.28255e-15 (1.00)	1.28255e-15 (1.00)
Formation of rad19	1.28255e-15 (1.000)	1.28255e-15 (1.000)
H-abstraction to cyc2enyl	4.68359e-24 (3.65e-09)	4.68359e-24 (3.65e-09)
H-abstraction to cyclenyl	1.66242e-31 (1.30e-16)	1.66242e-31 (1.30e-16)

species	PYtrue	Cumul	PYeffective	Cumul
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rad19anti	0.985437	0.985437	0.985437	0.985437
rad9	0.0125815	0.998018	0.0125815	0.998018
rad8	0.00197925	0.999998	0.00197925	0.999998
rad19syn	2.54000e-06	1.00000	2.54000e-06	1.00000
rad12	1.04930e-07	1.00000	1.04930e-07	1.00000
rad15	7.20107e-08	1.00000	7.20107e-08	1.00000
Benzene+cycloprop-2-enylidene	3.65179e-09	1.00000	3.65179e-09	1.00000
rad7	6.26324e-11	1.00000	6.26324e-11	1.00000
Indene+H	7.50962e-12	1.00000	7.50962e-12	1.00000
PhCHCCH2+H	5.23665e-13	1.00000	5.23665e-13	1.00000
rad11	2.22963e-14	1.00000	2.22963e-14	1.00000
rad2	2.07640e-14	1.00000	2.07640e-14	1.00000
rad6	1.65790e-14	1.00000	1.65790e-14	1.00000
rad1	6.01064e-15	1.00000	6.01064e-15	1.00000
rad5	4.84662e-15	1.00000	4.84662e-15	1.00000
PhcycC3H3_A+H	3.90398e-15	1.00000	3.90398e-15	1.00000
Phenyl+cycC3H4	1.67819e-15	1.00000	0.00000	1.00000
rad21	1.37306e-15	1.00000	1.37306e-15	1.00000
rad20	5.67942e-16	1.00000	5.67942e-16	1.00000
rad26	1.48886e-16	1.00000	1.48886e-16	1.00000
Benzene+cycloprop-1-enylidene	1.29619e-16	1.00000	1.29619e-16	1.00000
rad18	5.35206e-17	1.00000	5.35206e-17	1.00000
rad22	3.50212e-18	1.00000	3.50212e-18	1.00000
rad24	8.06918e-19	1.00000	8.06918e-19	1.00000
rad67	5.46982e-19	1.00000	5.46982e-19	1.00000
PhcycC3H3_B+H	3.03313e-19	1.00000	3.03313e-19	1.00000
C2H2+PhCH2	3.03259e-19	1.00000	3.03259e-19	1.00000
rad35	2.52202e-19	1.00000	2.52202e-19	1.00000
rad45	1.10766e-19	1.00000	1.10766e-19	1.00000
rad10	6.78497e-20	1.00000	6.78497e-20	1.00000
PhCCH+CH3	5.77088e-20	1.00000	5.77088e-20	1.00000
rad36	2.34545e-20	1.00000	2.34545e-20	1.00000
rad3	1.48513e-20	1.00000	1.48513e-20	1.00000
rad4	1.19792e-20	1.00000	1.19792e-20	1.00000
rad13	9.23060e-21	1.00000	9.23060e-21	1.00000
PhCCCH3+H	6.53855e-21	1.00000	6.53855e-21	1.00000
Ph+MeAc	4.88684e-21	1.00000	4.88684e-21	1.00000
rad31	1.89409e-21	1.00000	1.89409e-21	1.00000
rad25	1.47866e-21	1.00000	1.47866e-21	1.00000
Ph+Allene	9.19852e-22	1.00000	9.19852e-22	1.00000
rad27	8.47598e-22	1.00000	8.47598e-22	1.00000
rad33	1.97115e-22	1.00000	1.97115e-22	1.00000
PhCH2CCH+H	1.40186e-22	1.00000	1.40186e-22	1.00000
rad23	3.00106e-23	1.00000	3.00106e-23	1.00000
rad30	3.44018e-24	1.00000	3.44018e-24	1.00000
rad37	6.11786e-26	1.00000	6.11786e-26	1.00000
rad28	4.04103e-26	1.00000	4.04103e-26	1.00000
rad60syn	9.18633e-27	1.00000	9.18633e-27	1.00000
rad60anti	4.33369e-27	1.00000	4.33369e-27	1.00000
rad14	3.05721e-27	1.00000	3.05721e-27	1.00000
PAH3+H	2.51164e-27	1.00000	2.51164e-27	1.00000
PAH7+H	1.08992e-27	1.00000	1.08992e-27	1.00000
rad59	5.42126e-28	1.00000	5.42126e-28	1.00000
rad38	1.19344e-28	1.00000	1.19344e-28	1.00000
PAH10+CH3	4.03099e-29	1.00000	4.03099e-29	1.00000
rad43	1.87874e-31	1.00000	1.87874e-31	1.00000
rad46	1.64386e-31	1.00000	1.64386e-31	1.00000
rad58	1.77256e-32	1.00000	1.77256e-32	1.00000
rad70	8.48450e-33	1.00000	8.48450e-33	1.00000
rad54	6.26021e-33	1.00000	6.26021e-33	1.00000
PAH1+H	1.77807e-33	1.00000	1.77807e-33	1.00000
PAH9+H	1.20782e-33	1.00000	1.20782e-33	1.00000
rad50	5.50776e-34	1.00000	5.50776e-34	1.00000
rad34	8.38074e-35	1.00000	8.38074e-35	1.00000
rad39	7.01493e-35	1.00000	7.01493e-35	1.00000
rad55	3.74946e-35	1.00000	3.74946e-35	1.00000
rad41	2.97957e-36	1.00000	2.97957e-36	1.00000
rad52	6.90757e-37	1.00000	6.90757e-37	1.00000
rad62	2.23999e-37	1.00000	2.23999e-37	1.00000
rad51	1.30711e-37	1.00000	1.30711e-37	1.00000
rad47	1.56079e-38	1.00000	1.56079e-38	1.00000
rad53	4.84783e-41	1.00000	4.84783e-41	1.00000
rad61	1.72730e-41	1.00000	1.72730e-41	1.00000
rad42	1.53691e-41	1.00000	1.53691e-41	1.00000
rad65	1.85149e-42	1.00000	1.85149e-42	1.00000
rad68syn	9.47546e-45	1.00000	9.47546e-45	1.00000
rad68anti	7.58601e-45	1.00000	7.58601e-45	1.00000
rad56	5.36593e-46	1.00000	5.36593e-46	1.00000
rad64	5.34483e-48	1.00000	5.34483e-48	1.00000
rad40syn	4.88107e-49	1.00000	4.88107e-49	1.00000

rad40anti	3.47166e-49	1.00000	3.47166e-49	1.00000
PAH8+H	8.08695e-51	1.00000	8.08695e-51	1.00000
rad73	4.74793e-54	1.00000	4.74793e-54	1.00000
rad71	7.70204e-58	1.00000	7.70204e-58	1.00000

100000000. Pa, 110.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.95524e-15 (1.00)	1.95524e-15 (1.00)
Formation of rad19	1.95524e-15 (1.000)	1.95524e-15 (1.000)
H-abstraction to cyc2enyl	4.50936e-23 (2.31e-08)	4.50936e-23 (2.31e-08)
H-abstraction to cyclenyl	7.87782e-30 (4.03e-15)	7.87782e-30 (4.03e-15)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.983871	0.983871	0.983871	0.983871
rad9	0.0141595	0.998030	0.0141595	0.998030
rad8	0.00196827	0.999999	0.00196827	0.999999
rad19syn	1.03264e-06	1.000000	1.03264e-06	1.000000
rad12	1.30513e-07	1.000000	1.30513e-07	1.000000
rad15	9.14157e-08	1.000000	9.14157e-08	1.000000
Benzene+cycloprop-2-enylidene	2.30629e-08	1.000000	2.30629e-08	1.000000
rad7	6.97920e-11	1.000000	6.97920e-11	1.000000
Indene+H	1.07353e-11	1.000000	1.07353e-11	1.000000
PhCHCCH2+H	6.91408e-13	1.000000	6.91408e-13	1.000000
rad11	2.99718e-14	1.000000	2.99718e-14	1.000000
rad2	2.71654e-14	1.000000	2.71654e-14	1.000000
rad6	2.07667e-14	1.000000	2.07667e-14	1.000000
rad1	7.67776e-15	1.000000	7.67776e-15	1.000000
rad5	5.87340e-15	1.000000	5.87340e-15	1.000000
PhcycC3H3_A+H	5.58978e-15	1.000000	5.58978e-15	1.000000
Benzene+cycloprop-1-enylidene	4.02908e-15	1.000000	4.02908e-15	1.000000
Phenyl+cycC3H4	2.73192e-15	1.000000	0.000000	1.000000
rad21	1.85187e-15	1.000000	1.85187e-15	1.000000
rad20	6.93547e-16	1.000000	6.93547e-16	1.000000
rad26	2.21090e-16	1.000000	2.21090e-16	1.000000
rad18	7.92519e-17	1.000000	7.92519e-17	1.000000
rad22	5.26119e-18	1.000000	5.26119e-18	1.000000
rad24	1.19858e-18	1.000000	1.19858e-18	1.000000
PhcycC3H3_B+H	8.77092e-19	1.000000	8.77092e-19	1.000000
rad67	8.36604e-19	1.000000	8.36604e-19	1.000000
C2H2+PhCH2	4.20090e-19	1.000000	4.20090e-19	1.000000
rad35	3.84671e-19	1.000000	3.84671e-19	1.000000
rad45	1.84209e-19	1.000000	1.84209e-19	1.000000
rad10	9.94753e-20	1.000000	9.94753e-20	1.000000
PhCCH+CH3	8.03480e-20	1.000000	8.03480e-20	1.000000
rad36	3.82350e-20	1.000000	3.82350e-20	1.000000
rad3	2.20694e-20	1.000000	2.20694e-20	1.000000
rad4	1.77286e-20	1.000000	1.77286e-20	1.000000
rad13	1.31063e-20	1.000000	1.31063e-20	1.000000
PhCCCH3+H	9.89369e-21	1.000000	9.89369e-21	1.000000
Ph+MeAc	7.58692e-21	1.000000	7.58692e-21	1.000000
rad25	2.28954e-21	1.000000	2.28954e-21	1.000000
rad31	2.15150e-21	1.000000	2.15150e-21	1.000000
Ph+Allene	1.46484e-21	1.000000	1.46484e-21	1.000000
rad27	1.25310e-21	1.000000	1.25310e-21	1.000000
rad33	2.81387e-22	1.000000	2.81387e-22	1.000000
PhCH2CCH+H	2.26899e-22	1.000000	2.26899e-22	1.000000
rad23	5.13119e-23	1.000000	5.13119e-23	1.000000
rad30	5.89444e-24	1.000000	5.89444e-24	1.000000
rad37	1.08919e-25	1.000000	1.08919e-25	1.000000
rad28	6.98854e-26	1.000000	6.98854e-26	1.000000
rad60syn	1.61631e-26	1.000000	1.61631e-26	1.000000
rad60anti	7.64337e-27	1.000000	7.64337e-27	1.000000
rad14	5.28239e-27	1.000000	5.28239e-27	1.000000
PAH3+H	4.56698e-27	1.000000	4.56698e-27	1.000000
PAH7+H	1.97550e-27	1.000000	1.97550e-27	1.000000
rad59	9.81317e-28	1.000000	9.81317e-28	1.000000
rad38	2.22904e-28	1.000000	2.22904e-28	1.000000
PAH10+CH3	7.88309e-29	1.000000	7.88309e-29	1.000000
rad43	3.46197e-31	1.000000	3.46197e-31	1.000000
rad46	3.23559e-31	1.000000	3.23559e-31	1.000000
rad58	3.66109e-32	1.000000	3.66109e-32	1.000000
rad70	1.77835e-32	1.000000	1.77835e-32	1.000000
rad54	1.14690e-32	1.000000	1.14690e-32	1.000000
PAH1+H	3.99724e-33	1.000000	3.99724e-33	1.000000
PAH9+H	2.42358e-33	1.000000	2.42358e-33	1.000000
rad50	1.14351e-33	1.000000	1.14351e-33	1.000000
rad34	1.91872e-34	1.000000	1.91872e-34	1.000000

rad39	1.47521e-34	1.00000	1.47521e-34	1.00000
rad55	7.27240e-35	1.00000	7.27240e-35	1.00000
rad41	6.95847e-36	1.00000	6.95847e-36	1.00000
rad52	1.61916e-36	1.00000	1.61916e-36	1.00000
rad62	5.17459e-37	1.00000	5.17459e-37	1.00000
rad51	3.23350e-37	1.00000	3.23350e-37	1.00000
rad47	4.15401e-38	1.00000	4.15401e-38	1.00000
rad53	1.83485e-40	1.00000	1.83485e-40	1.00000
rad61	1.20538e-40	1.00000	1.20538e-40	1.00000
rad42	4.48516e-41	1.00000	4.48516e-41	1.00000
rad65	4.46884e-42	1.00000	4.46884e-42	1.00000
rad68syn	8.94466e-44	1.00000	8.94466e-44	1.00000
rad68anti	7.13268e-44	1.00000	7.13268e-44	1.00000
rad56	5.00451e-45	1.00000	5.00451e-45	1.00000
rad64	2.87300e-47	1.00000	2.87300e-47	1.00000
rad40syn	8.34085e-48	1.00000	8.34085e-48	1.00000
rad40anti	5.88686e-48	1.00000	5.88686e-48	1.00000
PAH8+H	1.92204e-49	1.00000	1.92204e-49	1.00000
rad73	8.40587e-53	1.00000	8.40587e-53	1.00000
rad71	2.39374e-56	1.00000	2.39374e-56	1.00000

100000000. Pa, 120.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.79817e-15 (1.00)	2.79817e-15 (1.00)
Formation of rad19	2.79817e-15 (1.000)	2.79817e-15 (1.000)
H-abstraction to cyc2enyl	2.96039e-22 (1.06e-07)	2.96039e-22 (1.06e-07)
H-abstraction to cyclenyl	1.95323e-28 (6.98e-14)	1.95323e-28 (6.98e-14)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.982286	0.982286	0.982286	0.982286
rad9	0.0157595	0.998045	0.0157595	0.998045
rad8	0.00195422	1.000000	0.00195422	1.000000
rad19syn	4.49890e-07	1.000000	4.49890e-07	1.000000
rad12	1.59033e-07	1.000000	1.59033e-07	1.000000
rad15	1.13688e-07	1.000000	1.13688e-07	1.000000
Benzene+cycloprop-2-enylidene	1.05797e-07	1.000000	1.05797e-07	1.000000
rad7	7.75693e-11	1.000000	7.75693e-11	1.000000
Indene+H	1.49059e-11	1.000000	1.49059e-11	1.000000
PhCHCCH2+H	8.97489e-13	1.000000	8.97489e-13	1.000000
Benzene+cycloprop-1-enylidene	6.98038e-14	1.000000	6.98038e-14	1.000000
rad11	3.95316e-14	1.000000	3.95316e-14	1.000000
rad2	3.50139e-14	1.000000	3.50139e-14	1.000000
rad6	2.57447e-14	1.000000	2.57447e-14	1.000000
rad1	9.68894e-15	1.000000	9.68894e-15	1.000000
PhcycC3H3_A+H	8.02209e-15	1.000000	8.02209e-15	1.000000
rad5	7.03876e-15	1.000000	7.03876e-15	1.000000
Phenyl+cycC3H4	4.36579e-15	1.000000	0.000000	1.000000
rad21	2.45790e-15	1.000000	2.45790e-15	1.000000
rad20	8.38112e-16	1.000000	8.38112e-16	1.000000
rad26	3.19437e-16	1.000000	3.19437e-16	1.000000
rad18	1.14179e-16	1.000000	1.14179e-16	1.000000
rad22	7.71785e-18	1.000000	7.71785e-18	1.000000
PhcycC3H3_B+H	2.36657e-18	1.000000	2.36657e-18	1.000000
rad24	1.73880e-18	1.000000	1.73880e-18	1.000000
rad67	1.24690e-18	1.000000	1.24690e-18	1.000000
rad35	5.71646e-19	1.000000	5.71646e-19	1.000000
C2H2+PhCH2	5.71599e-19	1.000000	5.71599e-19	1.000000
rad45	2.96740e-19	1.000000	2.96740e-19	1.000000
rad10	1.43252e-19	1.000000	1.43252e-19	1.000000
PhCCH+CH3	1.09910e-19	1.000000	1.09910e-19	1.000000
rad36	6.04769e-20	1.000000	6.04769e-20	1.000000
rad3	3.21724e-20	1.000000	3.21724e-20	1.000000
rad4	2.57316e-20	1.000000	2.57316e-20	1.000000
rad13	1.82959e-20	1.000000	1.82959e-20	1.000000
PhCCCH3+H	1.46868e-20	1.000000	1.46868e-20	1.000000
Ph+MeAc	1.15316e-20	1.000000	1.15316e-20	1.000000
rad25	3.45811e-21	1.000000	3.45811e-21	1.000000
rad31	2.43411e-21	1.000000	2.43411e-21	1.000000
Ph+Allene	2.28033e-21	1.000000	2.28033e-21	1.000000
rad27	1.82269e-21	1.000000	1.82269e-21	1.000000
rad33	3.95106e-22	1.000000	3.95106e-22	1.000000
PhCH2CCH+H	3.59552e-22	1.000000	3.59552e-22	1.000000
rad23	8.51241e-23	1.000000	8.51241e-23	1.000000
rad30	9.77406e-24	1.000000	9.77406e-24	1.000000
rad37	1.88228e-25	1.000000	1.88228e-25	1.000000
rad28	1.17901e-25	1.000000	1.17901e-25	1.000000
rad60syn	2.75814e-26	1.000000	2.75814e-26	1.000000

rad60anti	1.30769e-26	1.00000	1.30769e-26	1.00000
rad14	8.91078e-27	1.00000	8.91078e-27	1.00000
PAH3+H	8.07712e-27	1.00000	8.07712e-27	1.00000
PAH7+H	3.49404e-27	1.00000	3.49404e-27	1.00000
rad59	1.72694e-27	1.00000	1.72694e-27	1.00000
rad38	4.05730e-28	1.00000	4.05730e-28	1.00000
PAH10+CH3	1.50873e-28	1.00000	1.50873e-28	1.00000
rad43	6.32288e-31	1.00000	6.32288e-31	1.00000
rad46	6.17093e-31	1.00000	6.17093e-31	1.00000
rad58	7.42995e-32	1.00000	7.42995e-32	1.00000
rad70	3.67086e-32	1.00000	3.67086e-32	1.00000
rad54	2.07937e-32	1.00000	2.07937e-32	1.00000
PAH1+H	8.87010e-33	1.00000	8.87010e-33	1.00000
PAH9+H	4.71539e-33	1.00000	4.71539e-33	1.00000
rad50	2.31334e-33	1.00000	2.31334e-33	1.00000
rad34	4.34856e-34	1.00000	4.34856e-34	1.00000
rad39	3.02927e-34	1.00000	3.02927e-34	1.00000
rad55	1.40273e-34	1.00000	1.40273e-34	1.00000
rad41	1.63218e-35	1.00000	1.63218e-35	1.00000
rad52	3.68760e-36	1.00000	3.68760e-36	1.00000
rad62	1.17955e-36	1.00000	1.17955e-36	1.00000
rad51	7.81046e-37	1.00000	7.81046e-37	1.00000
rad47	1.09990e-37	1.00000	1.09990e-37	1.00000
rad61	8.09112e-40	1.00000	8.09112e-40	1.00000
rad53	6.73586e-40	1.00000	6.73586e-40	1.00000
rad42	1.30790e-40	1.00000	1.30790e-40	1.00000
rad65	1.06791e-41	1.00000	1.06791e-41	1.00000
rad68syn	8.13985e-43	1.00000	8.13985e-43	1.00000
rad68anti	6.46005e-43	1.00000	6.46005e-43	1.00000
rad56	4.59549e-44	1.00000	4.59549e-44	1.00000
rad64	1.51763e-46	1.00000	1.51763e-46	1.00000
rad40syn	1.40512e-46	1.00000	1.40512e-46	1.00000
rad40anti	9.84331e-47	1.00000	9.84331e-47	1.00000
PAH8+H	4.53157e-48	1.00000	4.53157e-48	1.00000
rad73	1.46022e-51	1.00000	1.46022e-51	1.00000
rad71	7.35595e-55	1.00000	7.35595e-55	1.00000

10000000. Pa, 130.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.81236e-15 (1.00)	3.81236e-15 (1.00)
Formation of rad19	3.81236e-15 (1.000)	3.81236e-15 (1.000)
H-abstraction to cyc2enyl	1.44825e-21 (3.80e-07)	1.44825e-21 (3.80e-07)
H-abstraction to cyclenyl	2.94348e-27 (7.72e-13)	2.94348e-27 (7.72e-13)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.980673	0.980673	0.980673	0.980673
rad9	0.0173879	0.998061	0.0173879	0.998061
rad8	0.00193814	0.999999	0.00193814	0.999999
Benzene+cycloprop-2-enylidene	3.79882e-07	0.999999	3.79882e-07	0.999999
rad19syn	2.09128e-07	0.999999	2.09128e-07	0.999999
rad12	1.90680e-07	0.999999	1.90680e-07	0.999999
rad15	1.39127e-07	1.000000	1.39127e-07	1.000000
rad7	8.61194e-11	1.000000	8.61194e-11	1.000000
Indene+H	2.02328e-11	1.000000	2.02328e-11	1.000000
PhCHCCH2+H	1.15050e-12	1.000000	1.15050e-12	1.000000
Benzene+cycloprop-1-enylidene	7.72089e-13	1.000000	7.72089e-13	1.000000
rad11	5.14184e-14	1.000000	5.14184e-14	1.000000
rad2	4.46462e-14	1.000000	4.46462e-14	1.000000
rad6	3.16956e-14	1.000000	3.16956e-14	1.000000
rad1	1.21227e-14	1.000000	1.21227e-14	1.000000
PhcycC3H3_A+H	1.15666e-14	1.000000	1.15666e-14	1.000000
rad5	8.36836e-15	1.000000	8.36836e-15	1.000000
Phenyl+cycC3H4	6.88161e-15	1.000000	0.000000	1.000000
rad21	3.22544e-15	1.000000	3.22544e-15	1.000000
rad20	1.00559e-15	1.000000	1.00559e-15	1.000000
rad26	4.52141e-16	1.000000	4.52141e-16	1.000000
rad18	1.61138e-16	1.000000	1.61138e-16	1.000000
rad22	1.11280e-17	1.000000	1.11280e-17	1.000000
PhcycC3H3_B+H	6.00033e-18	1.000000	6.00033e-18	1.000000
rad24	2.47972e-18	1.000000	2.47972e-18	1.000000
rad67	1.82394e-18	1.000000	1.82394e-18	1.000000
rad35	8.33585e-19	1.000000	8.33585e-19	1.000000
C2H2+PhCH2	7.68011e-19	1.000000	7.68011e-19	1.000000
rad45	4.66932e-19	1.000000	4.66932e-19	1.000000
rad10	2.03723e-19	1.000000	2.03723e-19	1.000000
PhCCH+CH3	1.48510e-19	1.000000	1.48510e-19	1.000000
rad36	9.35815e-20	1.000000	9.35815e-20	1.000000

rad3	4.62790e-20	1.000000	4.62790e-20	1.000000
rad4	3.68522e-20	1.000000	3.68522e-20	1.000000
rad13	2.52480e-20	1.000000	2.52480e-20	1.000000
PhCCCH3+H	2.15291e-20	1.000000	2.15291e-20	1.000000
Ph+MeAc	1.72872e-20	1.000000	1.72872e-20	1.000000
rad25	5.13231e-21	1.000000	5.13231e-21	1.000000
Ph+Allene	3.49671e-21	1.000000	3.49671e-21	1.000000
rad31	2.75157e-21	1.000000	2.75157e-21	1.000000
rad27	2.62259e-21	1.000000	2.62259e-21	1.000000
PhCH2CCH+H	5.62187e-22	1.000000	5.62187e-22	1.000000
rad33	5.48718e-22	1.000000	5.48718e-22	1.000000
rad23	1.38208e-22	1.000000	1.38208e-22	1.000000
rad30	1.58289e-23	1.000000	1.58289e-23	1.000000
rad37	3.18791e-25	1.000000	3.18791e-25	1.000000
rad28	1.95716e-25	1.000000	1.95716e-25	1.000000
rad60syn	4.60822e-26	1.000000	4.60822e-26	1.000000
rad60anti	2.19104e-26	1.000000	2.19104e-26	1.000000
rad14	1.48047e-26	1.000000	1.48047e-26	1.000000
PAH3+H	1.40328e-26	1.000000	1.40328e-26	1.000000
PAH7+H	6.08841e-27	1.000000	6.08841e-27	1.000000
rad59	2.98387e-27	1.000000	2.98387e-27	1.000000
rad38	7.27038e-28	1.000000	7.27038e-28	1.000000
PAH10+CH3	2.85594e-28	1.000000	2.85594e-28	1.000000
rad43	1.15520e-30	1.000000	1.15520e-30	1.000000
rad46	1.15325e-30	1.000000	1.15325e-30	1.000000
rad58	1.49768e-31	1.000000	1.49768e-31	1.000000
rad70	7.54633e-32	1.000000	7.54633e-32	1.000000
rad54	3.76498e-32	1.000000	3.76498e-32	1.000000
PAH1+H	1.96367e-32	1.000000	1.96367e-32	1.000000
PAH9+H	8.99970e-33	1.000000	8.99970e-33	1.000000
rad50	4.61509e-33	1.000000	4.61509e-33	1.000000
rad34	9.86453e-34	1.000000	9.86453e-34	1.000000
rad39	6.14898e-34	1.000000	6.14898e-34	1.000000
rad55	2.71566e-34	1.000000	2.71566e-34	1.000000
rad41	3.87967e-35	1.000000	3.87967e-35	1.000000
rad52	8.27588e-36	1.000000	8.27588e-36	1.000000
rad62	2.68984e-36	1.000000	2.68984e-36	1.000000
rad51	1.86897e-36	1.000000	1.86897e-36	1.000000
rad47	2.93391e-37	1.000000	2.93391e-37	1.000000
rad61	5.14602e-39	1.000000	5.14602e-39	1.000000
rad53	2.40691e-39	1.000000	2.40691e-39	1.000000
rad42	3.85970e-40	1.000000	3.85970e-40	1.000000
rad65	2.56192e-41	1.000000	2.56192e-41	1.000000
rad68syn	6.95493e-42	1.000000	6.95493e-42	1.000000
rad68anti	5.48807e-42	1.000000	5.48807e-42	1.000000
rad56	3.90573e-43	1.000000	3.90573e-43	1.000000
rad40syn	2.22834e-45	1.000000	2.22834e-45	1.000000
rad40anti	1.54914e-45	1.000000	1.54914e-45	1.000000
rad64	7.90116e-46	1.000000	7.90116e-46	1.000000
PAH8+H	1.00878e-46	1.000000	1.00878e-46	1.000000
rad73	2.41487e-50	1.000000	2.41487e-50	1.000000
rad71	2.13819e-53	1.000000	2.13819e-53	1.000000

100000000. Pa, 140.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.99515e-15 (1.00)	4.99515e-15 (1.00)
Formation of rad19	4.99514e-15 (1.000)	4.99514e-15 (1.000)
H-abstraction to cyc2enyl	5.62488e-21 (1.13e-06)	5.62488e-21 (1.13e-06)
H-abstraction to cyc1enyl	3.00047e-26 (6.01e-12)	3.00047e-26 (6.01e-12)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.979026	0.979026	0.979026	0.979026
rad9	0.0190516	0.998077	0.0190516	0.998077
rad8	0.00192073	0.999998	0.00192073	0.999998
Benzene+cycloprop-2-enylidene	1.12607e-06	0.999999	1.12607e-06	0.999999
rad12	2.25711e-07	1.000000	2.25711e-07	1.000000
rad15	1.68110e-07	1.000000	1.68110e-07	1.000000
rad19syn	1.03374e-07	1.000000	1.03374e-07	1.000000
rad7	9.56216e-11	1.000000	9.56216e-11	1.000000
Indene+H	2.69817e-11	1.000000	2.69817e-11	1.000000
Benzene+cycloprop-1-enylidene	6.00677e-12	1.000000	6.00677e-12	1.000000
PhCHCCH2+H	1.46172e-12	1.000000	1.46172e-12	1.000000
rad11	6.62159e-14	1.000000	6.62159e-14	1.000000
rad2	5.65052e-14	1.000000	5.65052e-14	1.000000
rad6	3.88572e-14	1.000000	3.88572e-14	1.000000
PhcycC3H3_A+H	1.67871e-14	1.000000	1.67871e-14	1.000000
rad1	1.50822e-14	1.000000	1.50822e-14	1.000000

Phenyl+cycC3H4	1.07387e-14	1.000000	0.00000	1.000000
rad5	9.89469e-15	1.000000	9.89469e-15	1.000000
rad21	4.20072e-15	1.000000	4.20072e-15	1.000000
rad20	1.20110e-15	1.000000	1.20110e-15	1.000000
rad26	6.30320e-16	1.000000	6.30320e-16	1.000000
rad18	2.23951e-16	1.000000	2.23951e-16	1.000000
rad22	1.58537e-17	1.000000	1.58537e-17	1.000000
PhcycC3H3_B+H	1.44318e-17	1.000000	1.44318e-17	1.000000
rad24	3.49446e-18	1.000000	3.49446e-18	1.000000
rad67	2.63345e-18	1.000000	2.63345e-18	1.000000
rad35	1.19954e-18	1.000000	1.19954e-18	1.000000
C2H2+PhCH2	1.02331e-18	1.000000	1.02331e-18	1.000000
rad45	7.22549e-19	1.000000	7.22549e-19	1.000000
rad10	2.87385e-19	1.000000	2.87385e-19	1.000000
PhCCH+CH3	1.99058e-19	1.000000	1.99058e-19	1.000000
rad36	1.42596e-19	1.000000	1.42596e-19	1.000000
rad3	6.60042e-20	1.000000	6.60042e-20	1.000000
rad4	5.23361e-20	1.000000	5.23361e-20	1.000000
rad13	3.45933e-20	1.000000	3.45933e-20	1.000000
PhCCCH3+H	3.13319e-20	1.000000	3.13319e-20	1.000000
Ph+MeAc	2.57153e-20	1.000000	2.57153e-20	1.000000
rad25	7.52875e-21	1.000000	7.52875e-21	1.000000
Ph+Allene	5.31471e-21	1.000000	5.31471e-21	1.000000
rad27	3.74982e-21	1.000000	3.74982e-21	1.000000
rad31	3.11593e-21	1.000000	3.11593e-21	1.000000
PhCH2CCH+H	8.72926e-22	1.000000	8.72926e-22	1.000000
rad33	7.57063e-22	1.000000	7.57063e-22	1.000000
rad23	2.21156e-22	1.000000	2.21156e-22	1.000000
rad30	2.52206e-23	1.000000	2.52206e-23	1.000000
rad37	5.33280e-25	1.000000	5.33280e-25	1.000000
rad28	3.21955e-25	1.000000	3.21955e-25	1.000000
rad60syn	7.59665e-26	1.000000	7.59665e-26	1.000000
rad60anti	3.62314e-26	1.000000	3.62314e-26	1.000000
rad14	2.44022e-26	1.000000	2.44022e-26	1.000000
PAH3+H	2.41455e-26	1.000000	2.41455e-26	1.000000
PAH7+H	1.05356e-26	1.000000	1.05356e-26	1.000000
rad59	5.10296e-27	1.000000	5.10296e-27	1.000000
rad38	1.29329e-27	1.000000	1.29329e-27	1.000000
PAH10+CH3	5.39392e-28	1.000000	5.39392e-28	1.000000
rad46	2.13157e-30	1.000000	2.13157e-30	1.000000
rad43	2.12808e-30	1.000000	2.12808e-30	1.000000
rad58	3.02514e-31	1.000000	3.02514e-31	1.000000
rad70	1.55925e-31	1.000000	1.55925e-31	1.000000
rad54	6.85804e-32	1.000000	6.85804e-32	1.000000
PAH1+H	4.37345e-32	1.000000	4.37345e-32	1.000000
PAH9+H	1.70144e-32	1.000000	1.70144e-32	1.000000
rad50	9.17135e-33	1.000000	9.17135e-33	1.000000
rad34	2.25940e-33	1.000000	2.25940e-33	1.000000
rad39	1.24668e-33	1.000000	1.24668e-33	1.000000
rad55	5.31474e-34	1.000000	5.31474e-34	1.000000
rad41	9.40869e-35	1.000000	9.40869e-35	1.000000
rad52	1.85173e-35	1.000000	1.85173e-35	1.000000
rad62	6.20711e-36	1.000000	6.20711e-36	1.000000
rad51	4.48341e-36	1.000000	4.48341e-36	1.000000
rad47	7.96044e-37	1.000000	7.96044e-37	1.000000
rad61	3.07878e-38	1.000000	3.07878e-38	1.000000
rad53	8.40436e-39	1.000000	8.40436e-39	1.000000
rad42	1.16363e-39	1.000000	1.16363e-39	1.000000
rad65	6.24192e-41	1.000000	6.24192e-41	1.000000
rad68syn	5.49385e-41	1.000000	5.49385e-41	1.000000
rad68anti	4.30562e-41	1.000000	4.30562e-41	1.000000
rad56	2.98220e-42	1.000000	2.98220e-42	1.000000
rad40syn	3.21007e-44	1.000000	3.21007e-44	1.000000
rad40anti	2.21346e-44	1.000000	2.21346e-44	1.000000
rad64	4.06880e-45	1.000000	4.06880e-45	1.000000
PAH8+H	2.03324e-45	1.000000	2.03324e-45	1.000000
rad73	3.71475e-49	1.000000	3.71475e-49	1.000000
rad71	5.64762e-52	1.000000	5.64762e-52	1.000000

100000000. Pa, 150.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.34137e-15 (1.00)	6.34137e-15 (1.00)
Formation of rad19	6.34135e-15 (1.000)	6.34135e-15 (1.000)
H-abstraction to cyc2enyl	1.81685e-20 (2.87e-06)	1.81685e-20 (2.87e-06)
H-abstraction to cyclenyl	2.23765e-25 (3.53e-11)	2.23765e-25 (3.53e-11)

species	PYtrue	Cumul	PYeffective	Cumul
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rad19anti	0.977336	0.977336	0.977336	0.977336
rad9	0.0207584	0.998095	0.0207584	0.998095
rad8	0.00190249	0.999997	0.00190249	0.999997
Benzene+cycloprop-2-enylidene	2.86508e-06	1.000000	2.86508e-06	1.000000
rad12	2.64460e-07	1.000000	2.64460e-07	1.000000
rad15	2.01105e-07	1.000000	2.01105e-07	1.000000
rad19syn	5.41996e-08	1.000000	5.41996e-08	1.000000
rad7	1.06287e-10	1.000000	1.06287e-10	1.000000
Indene+H	3.54905e-11	1.000000	3.54905e-11	1.000000
Benzene+cycloprop-1-enylidene	3.52865e-11	1.000000	3.52865e-11	1.000000
PhCHCCH2+H	1.84599e-12	1.000000	1.84599e-12	1.000000
rad11	8.47008e-14	1.000000	8.47008e-14	1.000000
rad2	7.11786e-14	1.000000	7.11786e-14	1.000000
rad6	4.75396e-14	1.000000	4.75396e-14	1.000000
PhcycC3H3_A+H	2.45613e-14	1.000000	2.45613e-14	1.000000
rad1	1.87044e-14	1.000000	1.87044e-14	1.000000
Phenyl+cycC3H4	1.66354e-14	1.000000	0.000000	1.000000
rad5	1.16588e-14	1.000000	1.16588e-14	1.000000
rad21	5.44669e-15	1.000000	5.44669e-15	1.000000
rad20	1.43128e-15	1.000000	1.43128e-15	1.000000
rad26	8.69234e-16	1.000000	8.69234e-16	1.000000
rad18	3.07843e-16	1.000000	3.07843e-16	1.000000
PhcycC3H3_B+H	3.32395e-17	1.000000	3.32395e-17	1.000000
rad22	2.24144e-17	1.000000	2.24144e-17	1.000000
rad24	4.88705e-18	1.000000	4.88705e-18	1.000000
rad67	3.77059e-18	1.000000	3.77059e-18	1.000000
rad35	1.71137e-18	1.000000	1.71137e-18	1.000000
C2H2+PhCH2	1.35683e-18	1.000000	1.35683e-18	1.000000
rad45	1.10568e-18	1.000000	1.10568e-18	1.000000
rad10	4.03666e-19	1.000000	4.03666e-19	1.000000
PhCCH+CH3	2.65595e-19	1.000000	2.65595e-19	1.000000
rad36	2.15124e-19	1.000000	2.15124e-19	1.000000
rad3	9.37163e-20	1.000000	9.37163e-20	1.000000
rad4	7.40077e-20	1.000000	7.40077e-20	1.000000
rad13	4.72270e-20	1.000000	4.72270e-20	1.000000
PhCCCH3+H	4.54775e-20	1.000000	4.54775e-20	1.000000
Ph+MeAc	3.81512e-20	1.000000	3.81512e-20	1.000000
rad25	1.09698e-20	1.000000	1.09698e-20	1.000000
Ph+Allene	8.04911e-21	1.000000	8.04911e-21	1.000000
rad27	5.34873e-21	1.000000	5.34873e-21	1.000000
rad31	3.54264e-21	1.000000	3.54264e-21	1.000000
PhCH2CCH+H	1.35340e-21	1.000000	1.35340e-21	1.000000
rad33	1.04143e-21	1.000000	1.04143e-21	1.000000
rad23	3.50837e-22	1.000000	3.50837e-22	1.000000
rad30	3.97784e-23	1.000000	3.97784e-23	1.000000
rad37	8.86917e-25	1.000000	8.86917e-25	1.000000
rad28	5.28006e-25	1.000000	5.28006e-25	1.000000
rad60syn	1.24368e-25	1.000000	1.24368e-25	1.000000
rad60anti	5.95170e-26	1.000000	5.95170e-26	1.000000
PAH3+H	4.14331e-26	1.000000	4.14331e-26	1.000000
rad14	4.01511e-26	1.000000	4.01511e-26	1.000000
PAH7+H	1.82285e-26	1.000000	1.82285e-26	1.000000
rad59	8.69744e-27	1.000000	8.69744e-27	1.000000
rad38	2.29998e-27	1.000000	2.29998e-27	1.000000
PAH10+CH3	1.02394e-27	1.000000	1.02394e-27	1.000000
rad43	3.98005e-30	1.000000	3.98005e-30	1.000000
rad46	3.92755e-30	1.000000	3.92755e-30	1.000000
rad58	6.16800e-31	1.000000	6.16800e-31	1.000000
rad70	3.26287e-31	1.000000	3.26287e-31	1.000000
rad54	1.26395e-31	1.000000	1.26395e-31	1.000000
PAH1+H	9.86402e-32	1.000000	9.86402e-32	1.000000
PAH9+H	3.21328e-32	1.000000	3.21328e-32	1.000000
rad50	1.83131e-32	1.000000	1.83131e-32	1.000000
rad34	5.26085e-33	1.000000	5.26085e-33	1.000000
rad39	2.54735e-33	1.000000	2.54735e-33	1.000000
rad55	1.05690e-33	1.000000	1.05690e-33	1.000000
rad41	2.33949e-34	1.000000	2.33949e-34	1.000000
rad52	4.17173e-35	1.000000	4.17173e-35	1.000000
rad62	1.46344e-35	1.000000	1.46344e-35	1.000000
rad51	1.08886e-35	1.000000	1.08886e-35	1.000000
rad47	2.21283e-36	1.000000	2.21283e-36	1.000000
rad61	1.73376e-37	1.000000	1.73376e-37	1.000000
rad53	2.87752e-38	1.000000	2.87752e-38	1.000000
rad42	3.60850e-39	1.000000	3.60850e-39	1.000000
rad68syn	4.00025e-40	1.000000	4.00025e-40	1.000000
rad68anti	3.11027e-40	1.000000	3.11027e-40	1.000000
rad65	1.55945e-40	1.000000	1.55945e-40	1.000000
rad56	2.03593e-41	1.000000	2.03593e-41	1.000000
rad40syn	4.12644e-43	1.000000	4.12644e-43	1.000000
rad40anti	2.82062e-43	1.000000	2.82062e-43	1.000000

PAH8+H	3.61029e-44	1.00000	3.61029e-44	1.00000
rad64	2.08207e-44	1.00000	2.08207e-44	1.00000
rad73	5.25342e-48	1.00000	5.25342e-48	1.00000
rad71	1.31562e-50	1.00000	1.31562e-50	1.00000

100000000. Pa, 160.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.84423e-15 (1.00)	7.84423e-15 (1.00)
Formation of rad19	7.84418e-15 (1.000)	7.84418e-15 (1.000)
H-abstraction to cyc2enyl	5.05321e-20 (6.44e-06)	5.05321e-20 (6.44e-06)
H-abstraction to cyclenyl	1.29479e-24 (1.65e-10)	1.29479e-24 (1.65e-10)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.975592	0.975592	0.975592	0.975592
rad9	0.0225171	0.998109	0.0225171	0.998109
rad8	0.00188378	0.999993	0.00188378	0.999993
Benzene+cycloprop-2-enylidene	6.44194e-06	0.999999	6.44194e-06	0.999999
rad12	3.07348e-07	0.999999	3.07348e-07	0.999999
rad15	2.38692e-07	1.000000	2.38692e-07	1.000000
rad19syn	3.00842e-08	1.000000	3.00842e-08	1.000000
Benzene+cycloprop-1-enylidene	1.65062e-10	1.000000	1.65062e-10	1.000000
rad7	1.18362e-10	1.000000	1.18362e-10	1.000000
Indene+H	4.61950e-11	1.000000	4.61950e-11	1.000000
PhCHCCH2+H	2.32315e-12	1.000000	2.32315e-12	1.000000
rad11	1.07914e-13	1.000000	1.07914e-13	1.000000
rad2	8.94528e-14	1.000000	8.94528e-14	1.000000
rad6	5.81473e-14	1.000000	5.81473e-14	1.000000
PhcycC3H3_A+H	3.62695e-14	1.000000	3.62695e-14	1.000000
Phenyl+cycC3H4	2.56308e-14	1.000000	0.000000	1.000000
rad1	2.31724e-14	1.000000	2.31724e-14	1.000000
rad5	1.37120e-14	1.000000	1.37120e-14	1.000000
rad21	7.05000e-15	1.000000	7.05000e-15	1.000000
rad20	1.70477e-15	1.000000	1.70477e-15	1.000000
rad26	1.19008e-15	1.000000	1.19008e-15	1.000000
rad18	4.20052e-16	1.000000	4.20052e-16	1.000000
PhcycC3H3_B+H	7.39409e-17	1.000000	7.39409e-17	1.000000
rad22	3.15669e-17	1.000000	3.15669e-17	1.000000
rad24	6.80742e-18	1.000000	6.80742e-18	1.000000
rad67	5.37528e-18	1.000000	5.37528e-18	1.000000
rad35	2.43031e-18	1.000000	2.43031e-18	1.000000
C2H2+PhCH2	1.79550e-18	1.000000	1.79550e-18	1.000000
rad45	1.68107e-18	1.000000	1.68107e-18	1.000000
rad10	5.66466e-19	1.000000	5.66466e-19	1.000000
PhCCH+CH3	3.53788e-19	1.000000	3.53788e-19	1.000000
rad36	3.22793e-19	1.000000	3.22793e-19	1.000000
rad3	1.32943e-19	1.000000	1.32943e-19	1.000000
rad4	1.04581e-19	1.000000	1.04581e-19	1.000000
PhCCCH3+H	6.61005e-20	1.000000	6.61005e-20	1.000000
rad13	6.44307e-20	1.000000	6.44307e-20	1.000000
Ph+MeAc	5.67029e-20	1.000000	5.67029e-20	1.000000
rad25	1.59430e-20	1.000000	1.59430e-20	1.000000
Ph+Allene	1.22026e-20	1.000000	1.22026e-20	1.000000
rad27	7.63782e-21	1.000000	7.63782e-21	1.000000
rad31	4.05184e-21	1.000000	4.05184e-21	1.000000
PhCH2CCH+H	2.10520e-21	1.000000	2.10520e-21	1.000000
rad33	1.43261e-21	1.000000	1.43261e-21	1.000000
rad23	5.54576e-22	1.000000	5.54576e-22	1.000000
rad30	6.24319e-23	1.000000	6.24319e-23	1.000000
rad37	1.47486e-24	1.000000	1.47486e-24	1.000000
rad28	8.67826e-25	1.000000	8.67826e-25	1.000000
rad60syn	2.03350e-25	1.000000	2.03350e-25	1.000000
rad60anti	9.76764e-26	1.000000	9.76764e-26	1.000000
PAH3+H	7.13381e-26	1.000000	7.13381e-26	1.000000
rad14	6.63119e-26	1.000000	6.63119e-26	1.000000
PAH7+H	3.17236e-26	1.000000	3.17236e-26	1.000000
rad59	1.48625e-26	1.000000	1.48625e-26	1.000000
rad38	4.11431e-27	1.000000	4.11431e-27	1.000000
PAH10+CH3	1.96601e-27	1.000000	1.96601e-27	1.000000
rad43	7.60276e-30	1.000000	7.60276e-30	1.000000
rad46	7.26460e-30	1.000000	7.26460e-30	1.000000
rad58	1.27717e-30	1.000000	1.27717e-30	1.000000
rad70	6.95852e-31	1.000000	6.95852e-31	1.000000
rad54	2.36671e-31	1.000000	2.36671e-31	1.000000
PAH1+H	2.26464e-31	1.000000	2.26464e-31	1.000000
PAH9+H	6.10803e-32	1.000000	6.10803e-32	1.000000
rad50	3.70232e-32	1.000000	3.70232e-32	1.000000
rad34	1.25191e-32	1.000000	1.25191e-32	1.000000

rad39	5.28733e-33	1.000000	5.28733e-33	1.000000
rad55	2.14249e-33	1.000000	2.14249e-33	1.000000
rad41	5.98630e-34	1.000000	5.98630e-34	1.000000
rad52	9.54297e-35	1.000000	9.54297e-35	1.000000
rad62	3.55360e-35	1.000000	3.55360e-35	1.000000
rad51	2.69907e-35	1.000000	2.69907e-35	1.000000
rad47	6.33538e-36	1.000000	6.33538e-36	1.000000
rad61	9.24586e-37	1.000000	9.24586e-37	1.000000
rad53	9.68577e-38	1.000000	9.68577e-38	1.000000
rad42	1.15684e-38	1.000000	1.15684e-38	1.000000
rad68syn	2.70187e-39	1.000000	2.70187e-39	1.000000
rad68anti	2.08214e-39	1.000000	2.08214e-39	1.000000
rad65	4.02685e-40	1.000000	4.02685e-40	1.000000
rad56	1.25225e-40	1.000000	1.25225e-40	1.000000
rad40syn	4.72402e-42	1.000000	4.72402e-42	1.000000
rad40anti	3.20089e-42	1.000000	3.20089e-42	1.000000
PAH8+H	5.57832e-43	1.000000	5.57832e-43	1.000000
rad64	1.06476e-43	1.000000	1.06476e-43	1.000000
rad73	6.81215e-47	1.000000	6.81215e-47	1.000000
rad71	2.65269e-49	1.000000	2.65269e-49	1.000000

100000000. Pa, 170.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.49598e-15 (1.00)	9.49598e-15 (1.00)
Formation of rad19	9.49586e-15 (1.000)	9.49586e-15 (1.000)
H-abstraction to cyc2enyl	1.24279e-19 (1.31e-05)	1.24279e-19 (1.31e-05)
H-abstraction to cyclenyl	6.08025e-24 (6.40e-10)	6.08025e-24 (6.40e-10)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.973784	0.973784	0.973784	0.973784
rad9	0.0243373	0.998122	0.0243373	0.998122
rad8	0.00186484	0.999986	0.00186484	0.999986
Benzene+cycloprop-2-enylidene	1.30875e-05	0.999999	1.30875e-05	0.999999
rad12	3.54896e-07	1.000000	3.54896e-07	1.000000
rad15	2.81590e-07	1.000000	2.81590e-07	1.000000
rad19syn	1.76540e-08	1.000000	1.76540e-08	1.000000
Benzene+cycloprop-1-enylidene	6.40297e-10	1.000000	6.40297e-10	1.000000
rad7	1.32144e-10	1.000000	1.32144e-10	1.000000
Indene+H	5.96620e-11	1.000000	5.96620e-11	1.000000
PhCHCCH2+H	2.91974e-12	1.000000	2.91974e-12	1.000000
rad11	1.37269e-13	1.000000	1.37269e-13	1.000000
rad2	1.12390e-13	1.000000	1.12390e-13	1.000000
rad6	7.12087e-14	1.000000	7.12087e-14	1.000000
PhcycC3H3_A+H	5.41041e-14	1.000000	5.41041e-14	1.000000
Phenyl+cycC3H4	3.93271e-14	1.000000	0.000000	1.000000
rad1	2.87324e-14	1.000000	2.87324e-14	1.000000
rad5	1.61192e-14	1.000000	1.61192e-14	1.000000
rad21	9.13115e-15	1.000000	9.13115e-15	1.000000
rad20	2.03295e-15	1.000000	2.03295e-15	1.000000
rad26	1.62268e-15	1.000000	1.62268e-15	1.000000
rad18	5.70734e-16	1.000000	5.70734e-16	1.000000
PhcycC3H3_B+H	1.60048e-16	1.000000	1.60048e-16	1.000000
rad22	4.44287e-17	1.000000	4.44287e-17	1.000000
rad24	9.47471e-18	1.000000	9.47471e-18	1.000000
rad67	7.65629e-18	1.000000	7.65629e-18	1.000000
rad35	3.44730e-18	1.000000	3.44730e-18	1.000000
rad45	2.54990e-18	1.000000	2.54990e-18	1.000000
C2H2+PhCH2	2.37727e-18	1.000000	2.37727e-18	1.000000
rad10	7.96610e-19	1.000000	7.96610e-19	1.000000
rad36	4.83668e-19	1.000000	4.83668e-19	1.000000
PhCCH+CH3	4.71630e-19	1.000000	4.71630e-19	1.000000
rad3	1.89031e-19	1.000000	1.89031e-19	1.000000
rad4	1.48162e-19	1.000000	1.48162e-19	1.000000
PhCCCH3+H	9.65588e-20	1.000000	9.65588e-20	1.000000
rad13	8.80517e-20	1.000000	8.80517e-20	1.000000
Ph+MeAc	8.47637e-20	1.000000	8.47637e-20	1.000000
rad25	2.31984e-20	1.000000	2.31984e-20	1.000000
Ph+Allene	1.85942e-20	1.000000	1.85942e-20	1.000000
rad27	1.09535e-20	1.000000	1.09535e-20	1.000000
rad31	4.67038e-21	1.000000	4.67038e-21	1.000000
PhCH2CCH+H	3.29948e-21	1.000000	3.29948e-21	1.000000
rad33	1.97552e-21	1.000000	1.97552e-21	1.000000
rad23	8.77468e-22	1.000000	8.77468e-22	1.000000
rad30	9.79619e-23	1.000000	9.79619e-23	1.000000
rad37	2.46461e-24	1.000000	2.46461e-24	1.000000
rad28	1.43614e-24	1.000000	1.43614e-24	1.000000
rad60syn	3.33750e-25	1.000000	3.33750e-25	1.000000

rad60anti	1.60967e-25	1.00000	1.60967e-25	1.00000
PAH3+H	1.23916e-25	1.00000	1.23916e-25	1.00000
rad14	1.10479e-25	1.00000	1.10479e-25	1.00000
PAH7+H	5.58309e-26	1.00000	5.58309e-26	1.00000
rad59	2.56011e-26	1.00000	2.56011e-26	1.00000
rad38	7.44317e-27	1.00000	7.44317e-27	1.00000
PAH10+CH3	3.83879e-27	1.00000	3.83879e-27	1.00000
rad43	1.49123e-29	1.00000	1.49123e-29	1.00000
rad46	1.35734e-29	1.00000	1.35734e-29	1.00000
rad58	2.69951e-30	1.00000	2.69951e-30	1.00000
rad70	1.52034e-30	1.00000	1.52034e-30	1.00000
PAH1+H	5.31443e-31	1.00000	5.31443e-31	1.00000
rad54	4.51428e-31	1.00000	4.51428e-31	1.00000
PAH9+H	1.17672e-31	1.00000	1.17672e-31	1.00000
rad50	7.62978e-32	1.00000	7.62978e-32	1.00000
rad34	3.05776e-32	1.00000	3.05776e-32	1.00000
rad39	1.12267e-32	1.00000	1.12267e-32	1.00000
rad55	4.43360e-33	1.00000	4.43360e-33	1.00000
rad41	1.58102e-33	1.00000	1.58102e-33	1.00000
rad52	2.23273e-34	1.00000	2.23273e-34	1.00000
rad62	8.94791e-35	1.00000	8.94791e-35	1.00000
rad51	6.87565e-35	1.00000	6.87565e-35	1.00000
rad47	1.87574e-35	1.00000	1.87574e-35	1.00000
rad61	4.71294e-36	1.00000	4.71294e-36	1.00000
rad53	3.21090e-37	1.00000	3.21090e-37	1.00000
rad42	3.85024e-38	1.00000	3.85024e-38	1.00000
rad68syn	1.71221e-38	1.00000	1.71221e-38	1.00000
rad68anti	1.30689e-38	1.00000	1.30689e-38	1.00000
rad65	1.08201e-39	1.00000	1.08201e-39	1.00000
rad56	7.02039e-40	1.00000	7.02039e-40	1.00000
rad40syn	4.84663e-41	1.00000	4.84663e-41	1.00000
rad40anti	3.25797e-41	1.00000	3.25797e-41	1.00000
PAH8+H	7.47412e-42	1.00000	7.47412e-42	1.00000
rad64	5.47760e-43	1.00000	5.47760e-43	1.00000
rad73	8.10091e-46	1.00000	8.10091e-46	1.00000
rad71	4.57783e-48	1.00000	4.57783e-48	1.00000

10000000. Pa, 180.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.12884e-14 (1.00)	1.12884e-14 (1.00)
Formation of rad19	1.12881e-14 (1.000)	1.12881e-14 (1.000)
H-abstraction to cyc2enyl	2.75916e-19 (2.44e-05)	2.75916e-19 (2.44e-05)
H-abstraction to cyclenyl	2.39955e-23 (2.13e-09)	2.39955e-23 (2.13e-09)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.971899	0.971899	0.971899	0.971899
rad9	0.0262298	0.998129	0.0262298	0.998129
rad8	0.00184582	0.999975	0.00184582	0.999975
Benzene+cycloprop-2-enylidene	2.44424e-05	0.999999	2.44424e-05	0.999999
rad12	4.07746e-07	1.000000	4.07746e-07	1.000000
rad15	3.30692e-07	1.000000	3.30692e-07	1.000000
rad19syn	1.09420e-08	1.000000	1.09420e-08	1.000000
Benzene+cycloprop-1-enylidene	2.12567e-09	1.000000	2.12567e-09	1.000000
rad7	1.47983e-10	1.000000	1.47983e-10	1.000000
Indene+H	7.66375e-11	1.000000	7.66375e-11	1.000000
PhCHCCH2+H	3.67184e-12	1.000000	3.67184e-12	1.000000
rad11	1.74695e-13	1.000000	1.74695e-13	1.000000
rad2	1.41438e-13	1.000000	1.41438e-13	1.000000
rad6	8.74146e-14	1.000000	8.74146e-14	1.000000
PhcycC3H3_A+H	8.15903e-14	1.000000	8.15903e-14	1.000000
Phenyl+cycC3H4	6.01368e-14	1.000000	0.000000	1.000000
rad1	3.57201e-14	1.000000	3.57201e-14	1.000000
rad5	1.89615e-14	1.000000	1.89615e-14	1.000000
rad21	1.18597e-14	1.000000	1.18597e-14	1.000000
rad20	2.43084e-15	1.000000	2.43084e-15	1.000000
rad26	2.20954e-15	1.000000	2.20954e-15	1.000000
rad18	7.74326e-16	1.000000	7.74326e-16	1.000000
PhcycC3H3_B+H	3.39298e-16	1.000000	3.39298e-16	1.000000
rad22	6.26767e-17	1.000000	6.26767e-17	1.000000
rad24	1.32137e-17	1.000000	1.32137e-17	1.000000
rad67	1.09302e-17	1.000000	1.09302e-17	1.000000
rad35	4.89949e-18	1.000000	4.89949e-18	1.000000
rad45	3.87290e-18	1.000000	3.87290e-18	1.000000
C2H2+PhCH2	3.15610e-18	1.000000	3.15610e-18	1.000000
rad10	1.12583e-18	1.000000	1.12583e-18	1.000000
rad36	7.26295e-19	1.000000	7.26295e-19	1.000000
PhCCH+CH3	6.30488e-19	1.000000	6.30488e-19	1.000000

rad3	2.70215e-19	1.00000	2.70215e-19	1.00000
rad4	2.11071e-19	1.00000	2.11071e-19	1.00000
PhCCCH3+H	1.42242e-19	1.00000	1.42242e-19	1.00000
Ph+MeAc	1.27912e-19	1.00000	1.27912e-19	1.00000
rad13	1.20771e-19	1.00000	1.20771e-19	1.00000
rad25	3.39110e-20	1.00000	3.39110e-20	1.00000
Ph+Allene	2.85859e-20	1.00000	2.85859e-20	1.00000
rad27	1.58235e-20	1.00000	1.58235e-20	1.00000
rad31	5.43468e-21	1.00000	5.43468e-21	1.00000
PhCH2CCH+H	5.23101e-21	1.00000	5.23101e-21	1.00000
rad33	2.73610e-21	1.00000	2.73610e-21	1.00000
rad23	1.39545e-21	1.00000	1.39545e-21	1.00000
rad30	1.54328e-22	1.00000	1.54328e-22	1.00000
rad37	4.15776e-24	1.00000	4.15776e-24	1.00000
rad28	2.40311e-24	1.00000	2.40311e-24	1.00000
rad60syn	5.52411e-25	1.00000	5.52411e-25	1.00000
rad60anti	2.67618e-25	1.00000	2.67618e-25	1.00000
PAH3+H	2.18251e-25	1.00000	2.18251e-25	1.00000
rad14	1.86548e-25	1.00000	1.86548e-25	1.00000
PAH7+H	9.98547e-26	1.00000	9.98547e-26	1.00000
rad59	4.46730e-26	1.00000	4.46730e-26	1.00000
rad38	1.36846e-26	1.00000	1.36846e-26	1.00000
PAH10+CH3	7.65948e-27	1.00000	7.65948e-27	1.00000
rad43	3.01795e-29	1.00000	3.01795e-29	1.00000
rad46	2.57672e-29	1.00000	2.57672e-29	1.00000
rad58	5.85089e-30	1.00000	5.85089e-30	1.00000
rad70	3.41883e-30	1.00000	3.41883e-30	1.00000
PAH1+H	1.27945e-30	1.00000	1.27945e-30	1.00000
rad54	8.78165e-31	1.00000	8.78165e-31	1.00000
PAH9+H	2.31264e-31	1.00000	2.31264e-31	1.00000
rad50	1.61284e-31	1.00000	1.61284e-31	1.00000
rad34	7.69489e-32	1.00000	7.69489e-32	1.00000
rad39	2.45443e-32	1.00000	2.45443e-32	1.00000
rad55	9.36505e-33	1.00000	9.36505e-33	1.00000
rad41	4.32284e-33	1.00000	4.32284e-33	1.00000
rad52	5.37780e-34	1.00000	5.37780e-34	1.00000
rad62	2.35066e-34	1.00000	2.35066e-34	1.00000
rad51	1.81091e-34	1.00000	1.81091e-34	1.00000
rad47	5.76420e-35	1.00000	5.76420e-35	1.00000
rad61	2.32069e-35	1.00000	2.32069e-35	1.00000
rad53	1.04947e-36	1.00000	1.04947e-36	1.00000
rad42	1.33605e-37	1.00000	1.33605e-37	1.00000
rad68syn	1.03105e-37	1.00000	1.03105e-37	1.00000
rad68anti	7.79272e-38	1.00000	7.79272e-38	1.00000
rad56	3.62932e-39	1.00000	3.62932e-39	1.00000
rad65	3.04401e-39	1.00000	3.04401e-39	1.00000
rad40syn	4.49257e-40	1.00000	4.49257e-40	1.00000
rad40anti	3.00132e-40	1.00000	3.00132e-40	1.00000
PAH8+H	8.70314e-41	1.00000	8.70314e-41	1.00000
rad64	2.85254e-42	1.00000	2.85254e-42	1.00000
rad73	8.82501e-45	1.00000	8.82501e-45	1.00000
rad71	6.74369e-47	1.00000	6.74369e-47	1.00000

100000000. Pa, 190.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.32132e-14 (1.00)	1.32132e-14 (1.00)
Formation of rad19	1.32126e-14 (1.000)	1.32126e-14 (1.000)
H-abstraction to cyc2enyl	5.62053e-19 (4.25e-05)	5.62053e-19 (4.25e-05)
H-abstraction to cyc1enyl	8.18073e-23 (6.19e-09)	8.18073e-23 (6.19e-09)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.969923	0.969923	0.969923	0.969923
rad9	0.0282066	0.998129	0.0282066	0.998129
rad8	0.00182687	0.999956	0.00182687	0.999956
Benzene+cycloprop-2-enylidene	4.25373e-05	0.999999	4.25373e-05	0.999999
rad12	4.66684e-07	0.999999	4.66684e-07	0.999999
rad15	3.87106e-07	1.000000	3.87106e-07	1.000000
rad19syn	7.15895e-09	1.000000	7.15895e-09	1.000000
Benzene+cycloprop-1-enylidene	6.19133e-09	1.000000	6.19133e-09	1.000000
rad7	1.66297e-10	1.000000	1.66297e-10	1.000000
Indene+H	9.81135e-11	1.000000	9.81135e-11	1.000000
PhCHCCH2+H	4.62891e-12	1.000000	4.62891e-12	1.000000
rad11	2.22865e-13	1.000000	2.22865e-13	1.000000
rad2	1.78597e-13	1.000000	1.78597e-13	1.000000
PhcycC3H3_A+H	1.24473e-13	1.000000	1.24473e-13	1.000000
rad6	1.07669e-13	1.000000	1.07669e-13	1.000000
Phenyl+cycC3H4	9.16795e-14	1.000000	0.000000	1.000000

rad1	4.45977e-14	1.000000	4.45977e-14	1.000000
rad5	2.23411e-14	1.000000	2.23411e-14	1.000000
rad21	1.54776e-14	1.000000	1.54776e-14	1.000000
rad26	3.01202e-15	1.000000	3.01202e-15	1.000000
rad20	2.91860e-15	1.000000	2.91860e-15	1.000000
rad18	1.05166e-15	1.000000	1.05166e-15	1.000000
PhcycC3H3_B+H	7.08630e-16	1.000000	7.08630e-16	1.000000
rad22	8.88687e-17	1.000000	8.88687e-17	1.000000
rad24	1.85133e-17	1.000000	1.85133e-17	1.000000
rad67	1.56857e-17	1.000000	1.56857e-17	1.000000
rad35	6.99739e-18	1.000000	6.99739e-18	1.000000
rad45	5.91010e-18	1.000000	5.91010e-18	1.000000
C2H2+PhCH2	4.20961e-18	1.000000	4.20961e-18	1.000000
rad10	1.60341e-18	1.000000	1.60341e-18	1.000000
rad36	1.09662e-18	1.000000	1.09662e-18	1.000000
PhCCH+CH3	8.46633e-19	1.000000	8.46633e-19	1.000000
rad3	3.89448e-19	1.000000	3.89448e-19	1.000000
rad4	3.03230e-19	1.000000	3.03230e-19	1.000000
PhCCCH3+H	2.11991e-19	1.000000	2.11991e-19	1.000000
Ph+MeAc	1.95536e-19	1.000000	1.95536e-19	1.000000
rad13	1.66502e-19	1.000000	1.66502e-19	1.000000
rad25	4.99578e-20	1.000000	4.99578e-20	1.000000
Ph+Allene	4.44971e-20	1.000000	4.44971e-20	1.000000
rad27	2.30935e-20	1.000000	2.30935e-20	1.000000
PhCH2CCH+H	8.42064e-21	1.000000	8.42064e-21	1.000000
rad31	6.39510e-21	1.000000	6.39510e-21	1.000000
rad33	3.81178e-21	1.000000	3.81178e-21	1.000000
rad23	2.23931e-21	1.000000	2.23931e-21	1.000000
rad30	2.45085e-22	1.000000	2.45085e-22	1.000000
rad37	7.11161e-24	1.000000	7.11161e-24	1.000000
rad28	4.08232e-24	1.000000	4.08232e-24	1.000000
rad60syn	9.26194e-25	1.000000	9.26194e-25	1.000000
rad60anti	4.50896e-25	1.000000	4.50896e-25	1.000000
PAH3+H	3.91659e-25	1.000000	3.91659e-25	1.000000
rad14	3.20711e-25	1.000000	3.20711e-25	1.000000
PAH7+H	1.82354e-25	1.000000	1.82354e-25	1.000000
rad59	7.93448e-26	1.000000	7.93448e-26	1.000000
rad38	2.56877e-26	1.000000	2.56877e-26	1.000000
PAH10+CH3	1.56886e-26	1.000000	1.56886e-26	1.000000
rad43	6.33202e-29	1.000000	6.33202e-29	1.000000
rad46	4.99780e-29	1.000000	4.99780e-29	1.000000
rad58	1.30607e-29	1.000000	1.30607e-29	1.000000
rad70	7.94826e-30	1.000000	7.94826e-30	1.000000
PAH1+H	3.17190e-30	1.000000	3.17190e-30	1.000000
rad54	1.74221e-30	1.000000	1.74221e-30	1.000000
PAH9+H	4.66698e-31	1.000000	4.66698e-31	1.000000
rad50	3.51849e-31	1.000000	3.51849e-31	1.000000
rad34	2.00308e-31	1.000000	2.00308e-31	1.000000
rad39	5.56066e-32	1.000000	5.56066e-32	1.000000
rad55	2.01671e-32	1.000000	2.01671e-32	1.000000
rad41	1.22813e-32	1.000000	1.22813e-32	1.000000
rad52	1.34188e-33	1.000000	1.34188e-33	1.000000
rad62	6.48193e-34	1.000000	6.48193e-34	1.000000
rad51	4.96037e-34	1.000000	4.96037e-34	1.000000
rad47	1.84565e-34	1.000000	1.84565e-34	1.000000
rad61	1.11495e-34	1.000000	1.11495e-34	1.000000
rad53	3.38354e-36	1.000000	3.38354e-36	1.000000
rad68syn	5.96168e-37	1.000000	5.96168e-37	1.000000
rad42	4.85592e-37	1.000000	4.85592e-37	1.000000
rad68anti	4.46290e-37	1.000000	4.46290e-37	1.000000
rad56	1.74688e-38	1.000000	1.74688e-38	1.000000
rad65	9.02279e-39	1.000000	9.02279e-39	1.000000
rad40syn	3.78203e-39	1.000000	3.78203e-39	1.000000
rad40anti	2.51708e-39	1.000000	2.51708e-39	1.000000
PAH8+H	8.83341e-40	1.000000	8.83341e-40	1.000000
rad64	1.50839e-41	1.000000	1.50839e-41	1.000000
rad73	8.76777e-44	1.000000	8.76777e-44	1.000000
rad71	8.49032e-46	1.000000	8.49032e-46	1.000000

100000000. Pa, 200.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.52621e-14 (1.00)	1.52621e-14 (1.00)
Formation of rad19	1.52610e-14 (1.000)	1.52610e-14 (1.000)
H-abstraction to cyc2enyl	1.06427e-18 (6.97e-05)	1.06427e-18 (6.97e-05)
H-abstraction to cyclenyl	2.46309e-22 (1.61e-08)	2.46309e-22 (1.61e-08)

species	PYtrue	Cumul	PYeffective	Cumul

rad19anti	0.967839	0.967839	0.967839	0.967839
rad9	0.0302815	0.998121	0.0302815	0.998121
rad8	0.00180801	0.999929	0.00180801	0.999929
Benzene+cycloprop-2-enylidene	6.97330e-05	0.999999	6.97330e-05	0.999999
rad12	5.32668e-07	0.999999	5.32668e-07	0.999999
rad15	4.52216e-07	1.000000	4.52216e-07	1.000000
Benzene+cycloprop-1-enylidene	1.61386e-08	1.000000	1.61386e-08	1.000000
rad19syn	4.94259e-09	1.000000	4.94259e-09	1.000000
rad7	1.87585e-10	1.000000	1.87585e-10	1.000000
Indene+H	1.25424e-10	1.000000	1.25424e-10	1.000000
PhCHCCH2+H	5.85967e-12	1.000000	5.85967e-12	1.000000
rad11	2.85531e-13	1.000000	2.85531e-13	1.000000
rad2	2.26666e-13	1.000000	2.26666e-13	1.000000
PhcycC3H3_A+H	1.92260e-13	1.000000	1.92260e-13	1.000000
Phenyl+cycC3H4	1.39360e-13	1.000000	0.000000	1.000000
rad6	1.33161e-13	1.000000	1.33161e-13	1.000000
rad1	5.60104e-14	1.000000	5.60104e-14	1.000000
rad5	2.63863e-14	1.000000	2.63863e-14	1.000000
rad21	2.03352e-14	1.000000	2.03352e-14	1.000000
rad26	4.12017e-15	1.000000	4.12017e-15	1.000000
rad20	3.52360e-15	1.000000	3.52360e-15	1.000000
PhcycC3H3_B+H	1.46596e-15	1.000000	1.46596e-15	1.000000
rad18	1.43327e-15	1.000000	1.43327e-15	1.000000
rad22	1.26981e-16	1.000000	1.26981e-16	1.000000
rad24	2.61221e-17	1.000000	2.61221e-17	1.000000
rad67	2.26917e-17	1.000000	2.26917e-17	1.000000
rad35	1.00704e-17	1.000000	1.00704e-17	1.000000
rad45	9.09083e-18	1.000000	9.09083e-18	1.000000
C2H2+PhCH2	5.65097e-18	1.000000	5.65097e-18	1.000000
rad10	2.30755e-18	1.000000	2.30755e-18	1.000000
rad36	1.67014e-18	1.000000	1.67014e-18	1.000000
PhCCH+CH3	1.14351e-18	1.000000	1.14351e-18	1.000000
rad3	5.67541e-19	1.000000	5.67541e-19	1.000000
rad4	4.40567e-19	1.000000	4.40567e-19	1.000000
PhCCCH3+H	3.20686e-19	1.000000	3.20686e-19	1.000000
Ph+MeAc	3.03853e-19	1.000000	3.03853e-19	1.000000
rad13	2.30992e-19	1.000000	2.30992e-19	1.000000
rad25	7.44058e-20	1.000000	7.44058e-20	1.000000
Ph+Allene	7.03820e-20	1.000000	7.03820e-20	1.000000
rad27	3.41499e-20	1.000000	3.41499e-20	1.000000
PhCH2CCH+H	1.38151e-20	1.000000	1.38151e-20	1.000000
rad31	7.62277e-21	1.000000	7.62277e-21	1.000000
rad33	5.34733e-21	1.000000	5.34733e-21	1.000000
rad23	3.64016e-21	1.000000	3.64016e-21	1.000000
rad30	3.93912e-22	1.000000	3.93912e-22	1.000000
rad37	1.23862e-23	1.000000	1.23862e-23	1.000000
rad28	7.06880e-24	1.000000	7.06880e-24	1.000000
rad60syn	1.58008e-24	1.000000	1.58008e-24	1.000000
rad60anti	7.73343e-25	1.000000	7.73343e-25	1.000000
PAH3+H	7.19676e-25	1.000000	7.19676e-25	1.000000
rad14	5.64004e-25	1.000000	5.64004e-25	1.000000
PAH7+H	3.41671e-25	1.000000	3.41671e-25	1.000000
rad59	1.44138e-25	1.000000	1.44138e-25	1.000000
rad38	4.94620e-26	1.000000	4.94620e-26	1.000000
PAH10+CH3	3.31426e-26	1.000000	3.31426e-26	1.000000
rad43	1.38436e-28	1.000000	1.38436e-28	1.000000
rad46	9.96140e-29	1.000000	9.96140e-29	1.000000
rad58	3.01706e-29	1.000000	3.01706e-29	1.000000
rad70	1.91963e-29	1.000000	1.91963e-29	1.000000
PAH1+H	8.13146e-30	1.000000	8.13146e-30	1.000000
rad54	3.52162e-30	1.000000	3.52162e-30	1.000000
PAH9+H	9.73752e-31	1.000000	9.73752e-31	1.000000
rad50	7.97197e-31	1.000000	7.97197e-31	1.000000
rad34	5.41791e-31	1.000000	5.41791e-31	1.000000
rad39	1.31444e-31	1.000000	1.31444e-31	1.000000
rad55	4.41861e-32	1.000000	4.41861e-32	1.000000
rad41	3.64118e-32	1.000000	3.64118e-32	1.000000
rad52	3.49129e-33	1.000000	3.49129e-33	1.000000
rad62	1.88790e-33	1.000000	1.88790e-33	1.000000
rad51	1.42167e-33	1.000000	1.42167e-33	1.000000
rad47	6.17993e-34	1.000000	6.17993e-34	1.000000
rad61	5.26233e-34	1.000000	5.26233e-34	1.000000
rad53	1.07581e-35	1.000000	1.07581e-35	1.000000
rad68syn	3.32611e-36	1.000000	3.32611e-36	1.000000
rad68anti	2.46819e-36	1.000000	2.46819e-36	1.000000
rad42	1.85503e-36	1.000000	1.85503e-36	1.000000
rad56	7.88069e-38	1.000000	7.88069e-38	1.000000
rad40syn	2.89460e-38	1.000000	2.89460e-38	1.000000
rad65	2.83490e-38	1.000000	2.83490e-38	1.000000
rad40anti	1.92420e-38	1.000000	1.92420e-38	1.000000

PAH8+H	7.83849e-39	1.000000	7.83849e-39	1.000000
rad64	8.06465e-41	1.000000	8.06465e-41	1.000000
rad73	7.89384e-43	1.000000	7.89384e-43	1.000000
rad71	9.17332e-45	1.000000	9.17332e-45	1.000000

100000000. Pa, 210.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.74272e-14 (1.00)	1.74272e-14 (1.00)
Formation of rad19	1.74253e-14 (1.000)	1.74253e-14 (1.000)
H-abstraction to cyc2enyl	1.89310e-18 (0.000109)	1.89310e-18 (0.000109)
H-abstraction to cyclenyl	6.66714e-22 (3.83e-08)	6.66714e-22 (3.83e-08)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.965631	0.965631	0.965631	0.965631
rad9	0.0324699	0.998101	0.0324699	0.998101
rad8	0.00178931	0.999890	0.00178931	0.999890
Benzene+cycloprop-2-enylidene	0.000108629	0.999999	0.000108629	0.999999
rad12	6.06868e-07	0.999999	6.06868e-07	0.999999
rad15	5.27766e-07	1.000000	5.27766e-07	1.000000
Benzene+cycloprop-1-enylidene	3.82571e-08	1.000000	3.82571e-08	1.000000
rad19syn	3.60047e-09	1.000000	3.60047e-09	1.000000
rad7	2.12441e-10	1.000000	2.12441e-10	1.000000
Indene+H	1.60389e-10	1.000000	1.60389e-10	1.000000
PhCHCCH2+H	7.46107e-12	1.000000	7.46107e-12	1.000000
rad11	3.68039e-13	1.000000	3.68039e-13	1.000000
PhcycC3H3_A+H	3.00990e-13	1.000000	3.00990e-13	1.000000
rad2	2.89624e-13	1.000000	2.89624e-13	1.000000
Phenyl+cycC3H4	2.11215e-13	1.000000	0.000000	1.000000
rad6	1.65447e-13	1.000000	1.65447e-13	1.000000
rad1	7.08742e-14	1.000000	7.08742e-14	1.000000
rad5	3.12581e-14	1.000000	3.12581e-14	1.000000
rad21	2.69486e-14	1.000000	2.69486e-14	1.000000
rad26	5.66831e-15	1.000000	5.66831e-15	1.000000
rad20	4.28396e-15	1.000000	4.28396e-15	1.000000
PhcycC3H3_B+H	3.01972e-15	1.000000	3.01972e-15	1.000000
rad18	1.96473e-15	1.000000	1.96473e-15	1.000000
rad22	1.83331e-16	1.000000	1.83331e-16	1.000000
rad24	3.72092e-17	1.000000	3.72092e-17	1.000000
rad67	3.31860e-17	1.000000	3.31860e-17	1.000000
rad35	1.46457e-17	1.000000	1.46457e-17	1.000000
rad45	1.41408e-17	1.000000	1.41408e-17	1.000000
C2H2+PhCH2	7.64803e-18	1.000000	7.64803e-18	1.000000
rad10	3.36533e-18	1.000000	3.36533e-18	1.000000
rad36	2.57391e-18	1.000000	2.57391e-18	1.000000
PhCCH+CH3	1.55511e-18	1.000000	1.55511e-18	1.000000
rad3	8.38791e-19	1.000000	8.38791e-19	1.000000
rad4	6.49298e-19	1.000000	6.49298e-19	1.000000
PhCCCH3+H	4.94101e-19	1.000000	4.94101e-19	1.000000
Ph+MeAc	4.81754e-19	1.000000	4.81754e-19	1.000000
rad13	3.22721e-19	1.000000	3.22721e-19	1.000000
Ph+Allene	1.13546e-19	1.000000	1.13546e-19	1.000000
rad25	1.12396e-19	1.000000	1.12396e-19	1.000000
rad27	5.13282e-20	1.000000	5.13282e-20	1.000000
PhCH2CCH+H	2.31931e-20	1.000000	2.31931e-20	1.000000
rad31	9.22031e-21	1.000000	9.22031e-21	1.000000
rad33	7.55912e-21	1.000000	7.55912e-21	1.000000
rad23	6.01860e-21	1.000000	6.01860e-21	1.000000
rad30	6.43416e-22	1.000000	6.43416e-22	1.000000
rad37	2.20668e-23	1.000000	2.20668e-23	1.000000
rad28	1.25308e-23	1.000000	1.25308e-23	1.000000
rad60syn	2.75591e-24	1.000000	2.75591e-24	1.000000
PAH3+H	1.36135e-24	1.000000	1.36135e-24	1.000000
rad60anti	1.35673e-24	1.000000	1.35673e-24	1.000000
rad14	1.01981e-24	1.000000	1.01981e-24	1.000000
PAH7+H	6.60269e-25	1.000000	6.60269e-25	1.000000
rad59	2.69212e-25	1.000000	2.69212e-25	1.000000
rad38	9.81886e-26	1.000000	9.81886e-26	1.000000
PAH10+CH3	7.25816e-26	1.000000	7.25816e-26	1.000000
rad43	3.17186e-28	1.000000	3.17186e-28	1.000000
rad46	2.05309e-28	1.000000	2.05309e-28	1.000000
rad58	7.24979e-29	1.000000	7.24979e-29	1.000000
rad70	4.84086e-29	1.000000	4.84086e-29	1.000000
PAH1+H	2.16523e-29	1.000000	2.16523e-29	1.000000
rad54	7.24062e-30	1.000000	7.24062e-30	1.000000
PAH9+H	2.11673e-30	1.000000	2.11673e-30	1.000000
rad50	1.88880e-30	1.000000	1.88880e-30	1.000000
rad34	1.52924e-30	1.000000	1.52924e-30	1.000000

rad39	3.26556e-31	1.00000	3.26556e-31	1.00000
rad41	1.13063e-31	1.00000	1.13063e-31	1.00000
rad55	9.82508e-32	1.00000	9.82508e-32	1.00000
rad52	9.53330e-33	1.00000	9.53330e-33	1.00000
rad62	5.83811e-33	1.00000	5.83811e-33	1.00000
rad51	4.28657e-33	1.00000	4.28657e-33	1.00000
rad61	2.44250e-33	1.00000	2.44250e-33	1.00000
rad47	2.16647e-33	1.00000	2.16647e-33	1.00000
rad53	3.36943e-35	1.00000	3.36943e-35	1.00000
rad68syn	1.78618e-35	1.00000	1.78618e-35	1.00000
rad68anti	1.31551e-35	1.00000	1.31551e-35	1.00000
rad42	7.43724e-36	1.00000	7.43724e-36	1.00000
rad56	3.34334e-37	1.00000	3.34334e-37	1.00000
rad40syn	2.01006e-37	1.00000	2.01006e-37	1.00000
rad40anti	1.33781e-37	1.00000	1.33781e-37	1.00000
rad65	9.47137e-38	1.00000	9.47137e-38	1.00000
PAH8+H	6.09940e-38	1.00000	6.09940e-38	1.00000
rad64	4.30018e-40	1.00000	4.30018e-40	1.00000
rad73	6.40143e-42	1.00000	6.40143e-42	1.00000
rad71	8.55466e-44	1.00000	8.55466e-44	1.00000

100000000. Pa, 220.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.97009e-14 (1.00)	1.97009e-14 (1.00)
Formation of rad19	1.96977e-14 (1.000)	1.96977e-14 (1.000)
H-abstraction to cyc2enyl	3.19064e-18 (0.000162)	3.19064e-18 (0.000162)
H-abstraction to cyclenyl	1.64627e-21 (8.36e-08)	1.64627e-21 (8.36e-08)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.963277	0.963277	0.963277	0.963277
rad9	0.0347895	0.998066	0.0347895	0.998066
rad8	0.00177073	0.999837	0.00177073	0.999837
Benzene+cycloprop-2-enylidene	0.000161954	0.999999	0.000161954	0.999999
rad12	6.90723e-07	1.000000	6.90723e-07	1.000000
rad15	6.15961e-07	1.00000	6.15961e-07	1.00000
Benzene+cycloprop-1-enylidene	8.35632e-08	1.00000	8.35632e-08	1.00000
rad19syn	2.76735e-09	1.00000	2.76735e-09	1.00000
rad7	2.41577e-10	1.00000	2.41577e-10	1.00000
Indene+H	2.05521e-10	1.00000	2.05521e-10	1.00000
PhCHCCH2+H	9.57239e-12	1.00000	9.57239e-12	1.00000
PhcycC3H3_A+H	4.78304e-13	1.00000	4.78304e-13	1.00000
rad11	4.78151e-13	1.00000	4.78151e-13	1.00000
rad2	3.73233e-13	1.00000	3.73233e-13	1.00000
Phenyl+cycC3H4	3.19127e-13	1.00000	0.00000	1.00000
rad6	2.06582e-13	1.00000	2.06582e-13	1.00000
rad1	9.05134e-14	1.00000	9.05134e-14	1.00000
rad5	3.71606e-14	1.00000	3.71606e-14	1.00000
rad21	3.60943e-14	1.00000	3.60943e-14	1.00000
rad26	7.86086e-15	1.00000	7.86086e-15	1.00000
PhcycC3H3_B+H	6.22561e-15	1.00000	6.22561e-15	1.00000
rad20	5.25392e-15	1.00000	5.25392e-15	1.00000
rad18	2.71553e-15	1.00000	2.71553e-15	1.00000
rad22	2.68203e-16	1.00000	2.68203e-16	1.00000
rad24	5.36426e-17	1.00000	5.36426e-17	1.00000
rad67	4.92134e-17	1.00000	4.92134e-17	1.00000
rad45	2.23203e-17	1.00000	2.23203e-17	1.00000
rad35	2.15884e-17	1.00000	2.15884e-17	1.00000
C2H2+PhCH2	1.04556e-17	1.00000	1.04556e-17	1.00000
rad10	4.98938e-18	1.00000	4.98938e-18	1.00000
rad36	4.02764e-18	1.00000	4.02764e-18	1.00000
PhCCH+CH3	2.13108e-18	1.00000	2.13108e-18	1.00000
rad3	1.26141e-18	1.00000	1.26141e-18	1.00000
rad4	9.73871e-19	1.00000	9.73871e-19	1.00000
Ph+MeAc	7.82518e-19	1.00000	7.82518e-19	1.00000
PhCCCH3+H	7.78401e-19	1.00000	7.78401e-19	1.00000
rad13	4.54269e-19	1.00000	4.54269e-19	1.00000
Ph+Allene	1.87613e-19	1.00000	1.87613e-19	1.00000
rad25	1.72804e-19	1.00000	1.72804e-19	1.00000
rad27	7.86874e-20	1.00000	7.86874e-20	1.00000
PhCH2CCH+H	4.00224e-20	1.00000	4.00224e-20	1.00000
rad31	1.13393e-20	1.00000	1.13393e-20	1.00000
rad33	1.07721e-20	1.00000	1.07721e-20	1.00000
rad23	1.01670e-20	1.00000	1.01670e-20	1.00000
rad30	1.07295e-21	1.00000	1.07295e-21	1.00000
rad37	4.04158e-23	1.00000	4.04158e-23	1.00000
rad28	2.28542e-23	1.00000	2.28542e-23	1.00000
rad60syn	4.94055e-24	1.00000	4.94055e-24	1.00000

PAH3+H	2.66691e-24	1.00000	2.66691e-24	1.00000
rad60anti	2.44784e-24	1.00000	2.44784e-24	1.00000
rad14	1.90705e-24	1.00000	1.90705e-24	1.00000
PAH7+H	1.32367e-24	1.00000	1.32367e-24	1.00000
rad59	5.19997e-25	1.00000	5.19997e-25	1.00000
rad38	2.02063e-25	1.00000	2.02063e-25	1.00000
PAH10+CH3	1.65648e-25	1.00000	1.65648e-25	1.00000
rad43	7.65890e-28	1.00000	7.65890e-28	1.00000
rad46	4.40560e-28	1.00000	4.40560e-28	1.00000
rad58	1.82086e-28	1.00000	1.82086e-28	1.00000
rad70	1.27978e-28	1.00000	1.27978e-28	1.00000
PAH1+H	6.00710e-29	1.00000	6.00710e-29	1.00000
rad54	1.51092e-29	1.00000	1.51092e-29	1.00000
PAH9+H	4.83311e-30	1.00000	4.83311e-30	1.00000
rad50	4.71045e-30	1.00000	4.71045e-30	1.00000
rad34	4.51231e-30	1.00000	4.51231e-30	1.00000
rad39	8.58072e-31	1.00000	8.58072e-31	1.00000
rad41	3.67470e-31	1.00000	3.67470e-31	1.00000
rad55	2.21064e-31	1.00000	2.21064e-31	1.00000
rad52	2.74497e-32	1.00000	2.74497e-32	1.00000
rad62	1.91762e-32	1.00000	1.91762e-32	1.00000
rad51	1.36240e-32	1.00000	1.36240e-32	1.00000
rad61	1.10806e-32	1.00000	1.10806e-32	1.00000
rad47	7.91047e-33	1.00000	7.91047e-33	1.00000
rad53	1.03689e-34	1.00000	1.03689e-34	1.00000
rad68syn	9.15144e-35	1.00000	9.15144e-35	1.00000
rad68anti	6.69903e-35	1.00000	6.69903e-35	1.00000
rad42	3.09565e-35	1.00000	3.09565e-35	1.00000
rad56	1.33446e-36	1.00000	1.33446e-36	1.00000
rad40syn	1.26231e-36	1.00000	1.26231e-36	1.00000
rad40anti	8.42812e-37	1.00000	8.42812e-37	1.00000
PAH8+H	4.17464e-37	1.00000	4.17464e-37	1.00000
rad65	3.34887e-37	1.00000	3.34887e-37	1.00000
rad64	2.23983e-39	1.00000	2.23983e-39	1.00000
rad73	4.65558e-41	1.00000	4.65558e-41	1.00000
rad71	6.92992e-43	1.00000	6.92992e-43	1.00000

10000000. Pa, 230.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.20761e-14 (1.00)	2.20761e-14 (1.00)
Formation of rad19	2.20710e-14 (1.000)	2.20710e-14 (1.000)
H-abstraction to cyc2enyl	5.13155e-18 (0.000232)	5.13155e-18 (0.000232)
H-abstraction to cyclenyl	3.75316e-21 (1.70e-07)	3.75316e-21 (1.70e-07)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.960752	0.960752	0.960752	0.960752
rad9	0.0372608	0.998013	0.0372608	0.998013
rad8	0.00175228	0.999766	0.00175228	0.999766
Benzene+cycloprop-2-enylidene	0.000232448	0.999998	0.000232448	0.999998
rad12	7.86009e-07	0.999999	7.86009e-07	0.999999
rad15	7.19631e-07	1.000000	7.19631e-07	1.000000
Benzene+cycloprop-1-enylidene	1.70010e-07	1.000000	1.70010e-07	1.000000
rad19syn	2.24439e-09	1.000000	2.24439e-09	1.000000
rad7	2.75842e-10	1.000000	2.75842e-10	1.000000
Indene+H	2.64359e-10	1.000000	2.64359e-10	1.000000
PhCHCCH2+H	1.23978e-11	1.000000	1.23978e-11	1.000000
PhcycC3H3_A+H	7.73002e-13	1.000000	7.73002e-13	1.000000
rad11	6.27365e-13	1.000000	6.27365e-13	1.000000
rad2	4.86021e-13	1.000000	4.86021e-13	1.000000
Phenyl+cycC3H4	4.80590e-13	1.000000	0.000000	1.000000
rad6	2.59271e-13	1.000000	2.59271e-13	1.000000
rad1	1.16886e-13	1.000000	1.16886e-13	1.000000
rad21	4.89676e-14	1.000000	4.89676e-14	1.000000
rad5	4.43507e-14	1.000000	4.43507e-14	1.000000
PhcycC3H3_B+H	1.29070e-14	1.000000	1.29070e-14	1.000000
rad26	1.10159e-14	1.000000	1.10159e-14	1.000000
rad20	6.51331e-15	1.000000	6.51331e-15	1.000000
rad18	3.79417e-15	1.000000	3.79417e-15	1.000000
rad22	3.98828e-16	1.000000	3.98828e-16	1.000000
rad24	7.84841e-17	1.000000	7.84841e-17	1.000000
rad67	7.42536e-17	1.000000	7.42536e-17	1.000000
rad45	3.58869e-17	1.000000	3.58869e-17	1.000000
rad35	3.23615e-17	1.000000	3.23615e-17	1.000000
C2H2+PhCH2	1.44726e-17	1.000000	1.44726e-17	1.000000
rad10	7.54700e-18	1.000000	7.54700e-18	1.000000
rad36	6.42341e-18	1.000000	6.42341e-18	1.000000
PhCCH+CH3	2.94433e-18	1.000000	2.94433e-18	1.000000

rad3	1.93752e-18	1.000000	1.93752e-18	1.000000
rad4	1.49220e-18	1.000000	1.49220e-18	1.000000
Ph+MeAc	1.30830e-18	1.000000	1.30830e-18	1.000000
PhCCCH3+H	1.25944e-18	1.000000	1.25944e-18	1.000000
rad13	6.44379e-19	1.000000	6.44379e-19	1.000000
Ph+Allene	3.18997e-19	1.000000	3.18997e-19	1.000000
rad25	2.71474e-19	1.000000	2.71474e-19	1.000000
rad27	1.23535e-19	1.000000	1.23535e-19	1.000000
PhCH2CCH+H	7.13457e-20	1.000000	7.13457e-20	1.000000
rad23	1.76367e-20	1.000000	1.76367e-20	1.000000
rad33	1.54761e-20	1.000000	1.54761e-20	1.000000
rad31	1.42096e-20	1.000000	1.42096e-20	1.000000
rad30	1.83613e-21	1.000000	1.83613e-21	1.000000
rad37	7.65139e-23	1.000000	7.65139e-23	1.000000
rad28	4.31262e-23	1.000000	4.31262e-23	1.000000
rad60syn	9.15756e-24	1.000000	9.15756e-24	1.000000
PAH3+H	5.44428e-24	1.000000	5.44428e-24	1.000000
rad60anti	4.56907e-24	1.000000	4.56907e-24	1.000000
rad14	3.71197e-24	1.000000	3.71197e-24	1.000000
PAH7+H	2.76879e-24	1.000000	2.76879e-24	1.000000
rad59	1.04511e-24	1.000000	1.04511e-24	1.000000
rad38	4.33363e-25	1.000000	4.33363e-25	1.000000
PAH10+CH3	3.95477e-25	1.000000	3.95477e-25	1.000000
rad43	1.95469e-27	1.000000	1.95469e-27	1.000000
rad46	9.90661e-28	1.000000	9.90661e-28	1.000000
rad58	4.78840e-28	1.000000	4.78840e-28	1.000000
rad70	3.54572e-28	1.000000	3.54572e-28	1.000000
PAH1+H	1.73373e-28	1.000000	1.73373e-28	1.000000
rad54	3.19113e-29	1.000000	3.19113e-29	1.000000
rad34	1.38545e-29	1.000000	1.38545e-29	1.000000
rad50	1.24079e-29	1.000000	1.24079e-29	1.000000
PAH9+H	1.16686e-29	1.000000	1.16686e-29	1.000000
rad39	2.38831e-30	1.000000	2.38831e-30	1.000000
rad41	1.23916e-30	1.000000	1.23916e-30	1.000000
rad55	5.01569e-31	1.000000	5.01569e-31	1.000000
rad52	8.32592e-32	1.000000	8.32592e-32	1.000000
rad62	6.62880e-32	1.000000	6.62880e-32	1.000000
rad61	4.85455e-32	1.000000	4.85455e-32	1.000000
rad51	4.53779e-32	1.000000	4.53779e-32	1.000000
rad47	2.96560e-32	1.000000	2.96560e-32	1.000000
rad68syn	4.41943e-34	1.000000	4.41943e-34	1.000000
rad68anti	3.21987e-34	1.000000	3.21987e-34	1.000000
rad53	3.12259e-34	1.000000	3.12259e-34	1.000000
rad42	1.31005e-34	1.000000	1.31005e-34	1.000000
rad40syn	7.14672e-36	1.000000	7.14672e-36	1.000000
rad56	5.00429e-36	1.000000	5.00429e-36	1.000000
rad40anti	4.79412e-36	1.000000	4.79412e-36	1.000000
PAH8+H	2.52103e-36	1.000000	2.52103e-36	1.000000
rad65	1.23256e-36	1.000000	1.23256e-36	1.000000
rad64	1.11456e-38	1.000000	1.11456e-38	1.000000
rad73	3.02963e-40	1.000000	3.02963e-40	1.000000
rad71	4.90741e-42	1.000000	4.90741e-42	1.000000

100000000. Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.45462e-14 (1.00)	2.45462e-14 (1.00)
Formation of rad19	2.45383e-14 (1.000)	2.45383e-14 (1.000)
H-abstraction to cyc2enyl	7.92234e-18 (0.000323)	7.92234e-18 (0.000323)
H-abstraction to cyc1enyl	7.97958e-21 (3.25e-07)	7.97958e-21 (3.25e-07)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.958033	0.958033	0.958033	0.958033
rad9	0.0399076	0.997941	0.0399076	0.997941
rad8	0.00173391	0.999675	0.00173391	0.999675
Benzene+cycloprop-2-enylidene	0.000322752	0.999998	0.000322752	0.999998
rad12	8.94937e-07	0.999999	8.94937e-07	0.999999
rad15	8.42436e-07	0.999999	8.42436e-07	0.999999
Benzene+cycloprop-1-enylidene	3.25084e-07	1.000000	3.25084e-07	1.000000
rad19syn	1.92079e-09	1.000000	1.92079e-09	1.000000
Indene+H	3.41978e-10	1.000000	3.41978e-10	1.000000
rad7	3.16252e-10	1.000000	3.16252e-10	1.000000
PhCHCCH2+H	1.62436e-11	1.000000	1.62436e-11	1.000000
PhcycC3H3_A+H	1.27335e-12	1.000000	1.27335e-12	1.000000
rad11	8.33133e-13	1.000000	8.33133e-13	1.000000
Phenyl+cycC3H4	7.21209e-13	1.000000	0.00000	1.000000
rad2	6.40914e-13	1.000000	6.40914e-13	1.000000
rad6	3.27092e-13	1.000000	3.27092e-13	1.000000

rad1	1.52955e-13	1.000000	1.52955e-13	1.000000
rad21	6.74570e-14	1.000000	6.74570e-14	1.000000
rad5	5.31549e-14	1.000000	5.31549e-14	1.000000
PhcycC3H3_B+H	2.70028e-14	1.000000	2.70028e-14	1.000000
rad26	1.56414e-14	1.000000	1.56414e-14	1.000000
rad20	8.18441e-15	1.000000	8.18441e-15	1.000000
rad18	5.37472e-15	1.000000	5.37472e-15	1.000000
rad22	6.04984e-16	1.000000	6.04984e-16	1.000000
rad24	1.16894e-16	1.000000	1.16894e-16	1.000000
rad67	1.14422e-16	1.000000	1.14422e-16	1.000000
rad45	5.90207e-17	1.000000	5.90207e-17	1.000000
rad35	4.95177e-17	1.000000	4.95177e-17	1.000000
C2H2+PhCH2	2.03498e-17	1.000000	2.03498e-17	1.000000
rad10	1.16957e-17	1.000000	1.16957e-17	1.000000
rad36	1.04845e-17	1.000000	1.04845e-17	1.000000
PhCCH+CH3	4.10267e-18	1.000000	4.10267e-18	1.000000
rad3	3.05298e-18	1.000000	3.05298e-18	1.000000
rad4	2.34595e-18	1.000000	2.34595e-18	1.000000
Ph+MeAc	2.26277e-18	1.000000	2.26277e-18	1.000000
PhCCCH3+H	2.10327e-18	1.000000	2.10327e-18	1.000000
rad13	9.21089e-19	1.000000	9.21089e-19	1.000000
Ph+Allene	5.60905e-19	1.000000	5.60905e-19	1.000000
rad25	4.37715e-19	1.000000	4.37715e-19	1.000000
rad27	1.99534e-19	1.000000	1.99534e-19	1.000000
PhCH2CCH+H	1.32034e-19	1.000000	1.32034e-19	1.000000
rad23	3.15902e-20	1.000000	3.15902e-20	1.000000
rad33	2.24134e-20	1.000000	2.24134e-20	1.000000
rad31	1.81893e-20	1.000000	1.81893e-20	1.000000
rad30	3.24261e-21	1.000000	3.24261e-21	1.000000
rad37	1.50488e-22	1.000000	1.50488e-22	1.000000
rad28	8.46547e-23	1.000000	8.46547e-23	1.000000
rad60syn	1.76517e-23	1.000000	1.76517e-23	1.000000
PAH3+H	1.16347e-23	1.000000	1.16347e-23	1.000000
rad60anti	8.87394e-24	1.000000	8.87394e-24	1.000000
rad14	7.56479e-24	1.000000	7.56479e-24	1.000000
PAH7+H	6.06545e-24	1.000000	6.06545e-24	1.000000
rad59	2.19624e-24	1.000000	2.19624e-24	1.000000
PAH10+CH3	9.86886e-25	1.000000	9.86886e-25	1.000000
rad38	9.71502e-25	1.000000	9.71502e-25	1.000000
rad43	5.25164e-27	1.000000	5.25164e-27	1.000000
rad46	2.34225e-27	1.000000	2.34225e-27	1.000000
rad58	1.31170e-27	1.000000	1.31170e-27	1.000000
rad70	1.02085e-27	1.000000	1.02085e-27	1.000000
PAH1+H	5.15685e-28	1.000000	5.15685e-28	1.000000
rad54	6.79849e-29	1.000000	6.79849e-29	1.000000
rad34	4.36652e-29	1.000000	4.36652e-29	1.000000
rad50	3.43871e-29	1.000000	3.43871e-29	1.000000
PAH9+H	2.98141e-29	1.000000	2.98141e-29	1.000000
rad39	6.98415e-30	1.000000	6.98415e-30	1.000000
rad41	4.25762e-30	1.000000	4.25762e-30	1.000000
rad55	1.14276e-30	1.000000	1.14276e-30	1.000000
rad52	2.63229e-31	1.000000	2.63229e-31	1.000000
rad62	2.36263e-31	1.000000	2.36263e-31	1.000000
rad61	2.02433e-31	1.000000	2.02433e-31	1.000000
rad51	1.55867e-31	1.000000	1.55867e-31	1.000000
rad47	1.11671e-31	1.000000	1.11671e-31	1.000000
rad68syn	1.98745e-33	1.000000	1.98745e-33	1.000000
rad68anti	1.44286e-33	1.000000	1.44286e-33	1.000000
rad53	9.15395e-34	1.000000	9.15395e-34	1.000000
rad42	5.48976e-34	1.000000	5.48976e-34	1.000000
rad40syn	3.64009e-35	1.000000	3.64009e-35	1.000000
rad40anti	2.45602e-35	1.000000	2.45602e-35	1.000000
rad56	1.75972e-35	1.000000	1.75972e-35	1.000000
PAH8+H	1.34751e-35	1.000000	1.34751e-35	1.000000
rad65	4.59934e-36	1.000000	4.59934e-36	1.000000
rad64	5.19810e-38	1.000000	5.19810e-38	1.000000
rad73	1.76320e-39	1.000000	1.76320e-39	1.000000
rad71	3.05600e-41	1.000000	3.05600e-41	1.000000

100000000. Pa, 250.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.71048e-14 (1.00)	2.71048e-14 (1.00)
Formation of rad19	2.70930e-14 (1.000)	2.70930e-14 (1.000)
H-abstraction to cyc2enyl	1.17991e-17 (0.000435)	1.17991e-17 (0.000435)
H-abstraction to cyclenyl	1.59554e-20 (5.89e-07)	1.59554e-20 (5.89e-07)

species	PYtrue	Cumul	PYeffective	Cumul
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rad19anti	0.955088	0.955088	0.955088	0.955088
rad9	0.0427580	0.997846	0.0427580	0.997846
rad8	0.00171556	0.999562	0.00171556	0.999562
Benzene+cycloprop-2-enylidene	0.000435312	0.999997	0.000435312	0.999997
rad12	1.02029e-06	0.999998	1.02029e-06	0.999998
rad15	9.89190e-07	0.999999	9.89190e-07	0.999999
Benzene+cycloprop-1-enylidene	5.88656e-07	1.000000	5.88656e-07	1.000000
rad19syn	1.73461e-09	1.000000	1.73461e-09	1.000000
Indene+H	4.45808e-10	1.000000	4.45808e-10	1.000000
rad7	3.64021e-10	1.000000	3.64021e-10	1.000000
PhCHCCH2+H	2.15805e-11	1.000000	2.15805e-11	1.000000
PhcycC3H3_A+H	2.14214e-12	1.000000	2.14214e-12	1.000000
rad11	1.12257e-12	1.000000	1.12257e-12	1.000000
Phenyl+cycC3H4	1.07825e-12	1.000000	0.000000	1.000000
rad2	8.58000e-13	1.000000	8.58000e-13	1.000000
rad6	4.14779e-13	1.000000	4.14779e-13	1.000000
rad1	2.03324e-13	1.000000	2.03324e-13	1.000000
rad21	9.46229e-14	1.000000	9.46229e-14	1.000000
rad5	6.39878e-14	1.000000	6.39878e-14	1.000000
PhcycC3H3_B+H	5.70533e-14	1.000000	5.70533e-14	1.000000
rad26	2.25693e-14	1.000000	2.25693e-14	1.000000
rad20	1.04626e-14	1.000000	1.04626e-14	1.000000
rad18	7.74437e-15	1.000000	7.74437e-15	1.000000
rad22	9.39714e-16	1.000000	9.39714e-16	1.000000
rad67	1.80804e-16	1.000000	1.80804e-16	1.000000
rad24	1.77802e-16	1.000000	1.77802e-16	1.000000
rad45	9.97048e-17	1.000000	9.97048e-17	1.000000
rad35	7.76533e-17	1.000000	7.76533e-17	1.000000
C2H2+PhCH2	2.92031e-17	1.000000	2.92031e-17	1.000000
rad10	1.86532e-17	1.000000	1.86532e-17	1.000000
rad36	1.75874e-17	1.000000	1.75874e-17	1.000000
PhCCH+CH3	5.76662e-18	1.000000	5.76662e-18	1.000000
rad3	4.95772e-18	1.000000	4.95772e-18	1.000000
Ph+MeAc	4.06552e-18	1.000000	4.06552e-18	1.000000
rad4	3.80160e-18	1.000000	3.80160e-18	1.000000
PhCCCH3+H	3.64224e-18	1.000000	3.64224e-18	1.000000
rad13	1.32649e-18	1.000000	1.32649e-18	1.000000
Ph+Allene	1.02393e-18	1.000000	1.02393e-18	1.000000
rad25	7.27518e-19	1.000000	7.27518e-19	1.000000
rad27	3.33121e-19	1.000000	3.33121e-19	1.000000
PhCH2CCH+H	2.54424e-19	1.000000	2.54424e-19	1.000000
rad23	5.87020e-20	1.000000	5.87020e-20	1.000000
rad33	3.27103e-20	1.000000	3.27103e-20	1.000000
rad31	2.38534e-20	1.000000	2.38534e-20	1.000000
rad30	5.93875e-21	1.000000	5.93875e-21	1.000000
rad37	3.08261e-22	1.000000	3.08261e-22	1.000000
rad28	1.73357e-22	1.000000	1.73357e-22	1.000000
rad60syn	3.55054e-23	1.000000	3.55054e-23	1.000000
PAH3+H	2.60189e-23	1.000000	2.60189e-23	1.000000
rad60anti	1.79913e-23	1.000000	1.79913e-23	1.000000
rad14	1.61808e-23	1.000000	1.61808e-23	1.000000
PAH7+H	1.38892e-23	1.000000	1.38892e-23	1.000000
rad59	4.82740e-24	1.000000	4.82740e-24	1.000000
PAH10+CH3	2.55173e-24	1.000000	2.55173e-24	1.000000
rad38	2.27026e-24	1.000000	2.27026e-24	1.000000
rad43	1.46475e-26	1.000000	1.46475e-26	1.000000
rad46	5.80127e-27	1.000000	5.80127e-27	1.000000
rad58	3.69018e-27	1.000000	3.69018e-27	1.000000
rad70	3.00122e-27	1.000000	3.00122e-27	1.000000
PAH1+H	1.55342e-27	1.000000	1.55342e-27	1.000000
rad54	1.45482e-28	1.000000	1.45482e-28	1.000000
rad34	1.38309e-28	1.000000	1.38309e-28	1.000000
rad50	9.88519e-29	1.000000	9.88519e-29	1.000000
PAH9+H	7.98613e-29	1.000000	7.98613e-29	1.000000
rad39	2.10479e-29	1.000000	2.10479e-29	1.000000
rad41	1.45535e-29	1.000000	1.45535e-29	1.000000
rad55	2.60132e-30	1.000000	2.60132e-30	1.000000
rad52	8.50078e-31	1.000000	8.50078e-31	1.000000
rad62	8.44833e-31	1.000000	8.44833e-31	1.000000
rad61	7.92472e-31	1.000000	7.92472e-31	1.000000
rad51	5.39195e-31	1.000000	5.39195e-31	1.000000
rad47	4.12179e-31	1.000000	4.12179e-31	1.000000
rad68syn	8.24088e-33	1.000000	8.24088e-33	1.000000
rad68anti	5.96697e-33	1.000000	5.96697e-33	1.000000
rad53	2.59724e-33	1.000000	2.59724e-33	1.000000
rad42	2.22084e-33	1.000000	2.22084e-33	1.000000
rad40syn	1.66637e-34	1.000000	1.66637e-34	1.000000
rad40anti	1.13178e-34	1.000000	1.13178e-34	1.000000
PAH8+H	6.39565e-35	1.000000	6.39565e-35	1.000000
rad56	5.79380e-35	1.000000	5.79380e-35	1.000000

rad65	1.68993e-35	1.000000	1.68993e-35	1.000000
rad64	2.24044e-37	1.000000	2.24044e-37	1.000000
rad73	9.18499e-39	1.000000	9.18499e-39	1.000000
rad71	1.68273e-40	1.000000	1.68273e-40	1.000000

100000000. Pa, 260.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.97464e-14 (1.00)	2.97464e-14 (1.00)
Formation of rad19	2.97293e-14 (0.999)	2.97293e-14 (0.999)
H-abstraction to cyc2enyl	1.70236e-17 (0.000572)	1.70236e-17 (0.000572)
H-abstraction to cyclenyl	3.02186e-20 (1.02e-06)	3.02186e-20 (1.02e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.951882	0.951882	0.951882	0.951882
rad9	0.0458450	0.997727	0.0458450	0.997727
rad8	0.00169720	0.999424	0.00169720	0.999424
Benzene+cycloprop-2-enylidene	0.000572291	0.999996	0.000572291	0.999996
rad15	1.16629e-06	0.999998	1.16629e-06	0.999998
rad12	1.16555e-06	0.999999	1.16555e-06	0.999999
Benzene+cycloprop-1-enylidene	1.01588e-06	1.000000	1.01588e-06	1.000000
rad19syn	1.65268e-09	1.000000	1.65268e-09	1.000000
Indene+H	5.86951e-10	1.000000	5.86951e-10	1.000000
rad7	4.20605e-10	1.000000	4.20605e-10	1.000000
PhCHCCH2+H	2.91476e-11	1.000000	2.91476e-11	1.000000
PhcycC3H3_A+H	3.68216e-12	1.000000	3.68216e-12	1.000000
Phenyl+cycC3H4	1.60555e-12	1.000000	0.000000	1.000000
rad11	1.53874e-12	1.000000	1.53874e-12	1.000000
rad2	1.16919e-12	1.000000	1.16919e-12	1.000000
rad6	5.28604e-13	1.000000	5.28604e-13	1.000000
rad1	2.75302e-13	1.000000	2.75302e-13	1.000000
rad21	1.35532e-13	1.000000	1.35532e-13	1.000000
PhcycC3H3_B+H	1.21335e-13	1.000000	1.21335e-13	1.000000
rad5	7.73791e-14	1.000000	7.73791e-14	1.000000
rad26	3.31922e-14	1.000000	3.31922e-14	1.000000
rad20	1.36737e-14	1.000000	1.36737e-14	1.000000
rad18	1.13886e-14	1.000000	1.13886e-14	1.000000
rad22	1.49974e-15	1.000000	1.49974e-15	1.000000
rad67	2.93968e-16	1.000000	2.93968e-16	1.000000
rad24	2.76974e-16	1.000000	2.76974e-16	1.000000
rad45	1.73515e-16	1.000000	1.73515e-16	1.000000
rad35	1.25240e-16	1.000000	1.25240e-16	1.000000
C2H2+PhCH2	4.30446e-17	1.000000	4.30446e-17	1.000000
rad10	3.07327e-17	1.000000	3.07327e-17	1.000000
rad36	3.04085e-17	1.000000	3.04085e-17	1.000000
rad3	8.32731e-18	1.000000	8.32731e-18	1.000000
PhCCH+CH3	8.17652e-18	1.000000	8.17652e-18	1.000000
Ph+MeAc	7.59593e-18	1.000000	7.59593e-18	1.000000
PhCCH3+H	6.55570e-18	1.000000	6.55570e-18	1.000000
rad4	6.37317e-18	1.000000	6.37317e-18	1.000000
Ph+Allene	1.94156e-18	1.000000	1.94156e-18	1.000000
rad13	1.92394e-18	1.000000	1.92394e-18	1.000000
rad25	1.25019e-18	1.000000	1.25019e-18	1.000000
rad27	5.76694e-19	1.000000	5.76694e-19	1.000000
PhCH2CCH+H	5.09564e-19	1.000000	5.09564e-19	1.000000
rad23	1.13350e-19	1.000000	1.13350e-19	1.000000
rad33	4.80800e-20	1.000000	4.80800e-20	1.000000
rad31	3.21485e-20	1.000000	3.21485e-20	1.000000
rad30	1.13019e-20	1.000000	1.13019e-20	1.000000
rad37	6.55576e-22	1.000000	6.55576e-22	1.000000
rad28	3.69236e-22	1.000000	3.69236e-22	1.000000
rad60syn	7.43676e-23	1.000000	7.43676e-23	1.000000
PAH3+H	6.03669e-23	1.000000	6.03669e-23	1.000000
rad60anti	3.79800e-23	1.000000	3.79800e-23	1.000000
rad14	3.61575e-23	1.000000	3.61575e-23	1.000000
PAH7+H	3.29050e-23	1.000000	3.29050e-23	1.000000
rad59	1.10166e-23	1.000000	1.10166e-23	1.000000
PAH10+CH3	6.72112e-24	1.000000	6.72112e-24	1.000000
rad38	5.47032e-24	1.000000	5.47032e-24	1.000000
rad43	4.14778e-26	1.000000	4.14778e-26	1.000000
rad46	1.48547e-26	1.000000	1.48547e-26	1.000000
rad58	1.04386e-26	1.000000	1.04386e-26	1.000000
rad70	8.80355e-27	1.000000	8.80355e-27	1.000000
PAH1+H	4.63611e-27	1.000000	4.63611e-27	1.000000
rad34	4.29990e-28	1.000000	4.29990e-28	1.000000
rad54	3.11111e-28	1.000000	3.11111e-28	1.000000
rad50	2.88209e-28	1.000000	2.88209e-28	1.000000
PAH9+H	2.19798e-28	1.000000	2.19798e-28	1.000000

rad39	6.36837e-29	1.000000	6.36837e-29	1.000000
rad41	4.83243e-29	1.000000	4.83243e-29	1.000000
rad55	5.88163e-30	1.000000	5.88163e-30	1.000000
rad62	2.94969e-30	1.000000	2.94969e-30	1.000000
rad61	2.88082e-30	1.000000	2.88082e-30	1.000000
rad52	2.73496e-30	1.000000	2.73496e-30	1.000000
rad51	1.83172e-30	1.000000	1.83172e-30	1.000000
rad47	1.45925e-30	1.000000	1.45925e-30	1.000000
rad68syn	3.12881e-32	1.000000	3.12881e-32	1.000000
rad68anti	2.26100e-32	1.000000	2.26100e-32	1.000000
rad42	8.49964e-33	1.000000	8.49964e-33	1.000000
rad53	7.09374e-33	1.000000	7.09374e-33	1.000000
rad40syn	6.85793e-34	1.000000	6.85793e-34	1.000000
rad40anti	4.69147e-34	1.000000	4.69147e-34	1.000000
PAH8+H	2.70457e-34	1.000000	2.70457e-34	1.000000
rad56	1.78517e-34	1.000000	1.78517e-34	1.000000
rad65	5.96068e-35	1.000000	5.96068e-35	1.000000
rad64	8.84370e-37	1.000000	8.84370e-37	1.000000
rad73	4.29068e-38	1.000000	4.29068e-38	1.000000
rad71	8.23474e-40	1.000000	8.23474e-40	1.000000

100000000. Pa, 270.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.24655e-14 (1.00)	3.24655e-14 (1.00)
Formation of rad19	3.24415e-14 (0.999)	3.24415e-14 (0.999)
H-abstraction to cyc2enyl	2.38790e-17 (0.000736)	2.38790e-17 (0.000736)
H-abstraction to cyclenyl	5.45397e-20 (1.68e-06)	5.45397e-20 (1.68e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.948373	0.948373	0.948373	0.948373
rad9	0.0492083	0.997582	0.0492083	0.997582
rad8	0.00167872	0.999260	0.00167872	0.999260
Benzene+cycloprop-2-enylidene	0.000735519	0.999996	0.000735519	0.999996
Benzene+cycloprop-1-enylidene	1.67993e-06	0.999998	1.67993e-06	0.999998
rad15	1.38235e-06	0.999999	1.38235e-06	0.999999
rad12	1.33519e-06	1.00000	1.33519e-06	1.00000
rad19syn	1.66061e-09	1.00000	1.66061e-09	1.00000
Indene+H	7.82276e-10	1.00000	7.82276e-10	1.00000
rad7	4.87737e-10	1.00000	4.87737e-10	1.00000
PhCHCCH2+H	4.01210e-11	1.00000	4.01210e-11	1.00000
PhcycC3H3_A+H	6.45146e-12	1.00000	6.45146e-12	1.00000
Phenyl+cycC3H4	2.38025e-12	1.00000	0.00000	1.00000
rad11	2.15083e-12	1.00000	2.15083e-12	1.00000
rad2	1.62587e-12	1.00000	1.62587e-12	1.00000
rad6	6.76886e-13	1.00000	6.76886e-13	1.00000
rad1	3.80642e-13	1.00000	3.80642e-13	1.00000
PhcycC3H3_B+H	2.57689e-13	1.00000	2.57689e-13	1.00000
rad21	1.98663e-13	1.00000	1.98663e-13	1.00000
rad5	9.40077e-14	1.00000	9.40077e-14	1.00000
rad26	4.98727e-14	1.00000	4.98727e-14	1.00000
rad20	1.83756e-14	1.00000	1.83756e-14	1.00000
rad18	1.71399e-14	1.00000	1.71399e-14	1.00000
rad22	2.46298e-15	1.00000	2.46298e-15	1.00000
rad67	4.92388e-16	1.00000	4.92388e-16	1.00000
rad24	4.42389e-16	1.00000	4.42389e-16	1.00000
rad45	3.10975e-16	1.00000	3.10975e-16	1.00000
rad35	2.08031e-16	1.00000	2.08031e-16	1.00000
C2H2+PhCH2	6.56413e-17	1.00000	6.56413e-17	1.00000
rad36	5.41725e-17	1.00000	5.41725e-17	1.00000
rad10	5.23693e-17	1.00000	5.23693e-17	1.00000
Ph+MeAc	1.46878e-17	1.00000	1.46878e-17	1.00000
rad3	1.44759e-17	1.00000	1.44759e-17	1.00000
PhCCCH3+H	1.22321e-17	1.00000	1.22321e-17	1.00000
PhCCH+CH3	1.16943e-17	1.00000	1.16943e-17	1.00000
rad4	1.10596e-17	1.00000	1.10596e-17	1.00000
Ph+Allene	3.80289e-18	1.00000	3.80289e-18	1.00000
rad13	2.80874e-18	1.00000	2.80874e-18	1.00000
rad25	2.21973e-18	1.00000	2.21973e-18	1.00000
PhCH2CCH+H	1.05137e-18	1.00000	1.05137e-18	1.00000
rad27	1.03458e-18	1.00000	1.03458e-18	1.00000
rad23	2.26459e-19	1.00000	2.26459e-19	1.00000
rad33	7.11246e-20	1.00000	7.11246e-20	1.00000
rad31	4.46651e-20	1.00000	4.46651e-20	1.00000
rad30	2.22626e-20	1.00000	2.22626e-20	1.00000
rad37	1.43216e-21	1.00000	1.43216e-21	1.00000
rad28	8.09041e-22	1.00000	8.09041e-22	1.00000
rad60syn	1.60583e-22	1.00000	1.60583e-22	1.00000

PAH3+H	1.42876e-22	1.00000	1.42876e-22	1.00000
rad14	8.32817e-23	1.00000	8.32817e-23	1.00000
rad60anti	8.26062e-23	1.00000	8.26062e-23	1.00000
PAH7+H	7.92047e-23	1.00000	7.92047e-23	1.00000
rad59	2.56944e-23	1.00000	2.56944e-23	1.00000
PAH10+CH3	1.76469e-23	1.00000	1.76469e-23	1.00000
rad38	1.33474e-23	1.00000	1.33474e-23	1.00000
rad43	1.16305e-25	1.00000	1.16305e-25	1.00000
rad46	3.85199e-26	1.00000	3.85199e-26	1.00000
rad58	2.90139e-26	1.00000	2.90139e-26	1.00000
rad70	2.51755e-26	1.00000	2.51755e-26	1.00000
PAH1+H	1.34178e-26	1.00000	1.34178e-26	1.00000
rad34	1.28464e-27	1.00000	1.28464e-27	1.00000
rad50	8.31299e-28	1.00000	8.31299e-28	1.00000
rad54	6.61041e-28	1.00000	6.61041e-28	1.00000
PAH9+H	6.05781e-28	1.00000	6.05781e-28	1.00000
rad39	1.88481e-28	1.00000	1.88481e-28	1.00000
rad41	1.52847e-28	1.00000	1.52847e-28	1.00000
rad55	1.31269e-29	1.00000	1.31269e-29	1.00000
rad62	9.83750e-30	1.00000	9.83750e-30	1.00000
rad61	9.65228e-30	1.00000	9.65228e-30	1.00000
rad52	8.56154e-30	1.00000	8.56154e-30	1.00000
rad51	5.98059e-30	1.00000	5.98059e-30	1.00000
rad47	4.87552e-30	1.00000	4.87552e-30	1.00000
rad68syn	1.08332e-31	1.00000	1.08332e-31	1.00000
rad68anti	7.81688e-32	1.00000	7.81688e-32	1.00000
rad42	3.03495e-32	1.00000	3.03495e-32	1.00000
rad53	1.85688e-32	1.00000	1.85688e-32	1.00000
rad40syn	2.54075e-33	1.00000	2.54075e-33	1.00000
rad40anti	1.75145e-33	1.00000	1.75145e-33	1.00000
PAH8+H	1.02274e-33	1.00000	1.02274e-33	1.00000
rad56	5.15009e-34	1.00000	5.15009e-34	1.00000
rad65	1.98107e-34	1.00000	1.98107e-34	1.00000
rad64	3.18119e-36	1.00000	3.18119e-36	1.00000
rad73	1.80216e-37	1.00000	1.80216e-37	1.00000
rad71	3.59913e-39	1.00000	3.59913e-39	1.00000

10000000. Pa, 280.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.52572e-14 (1.00)	3.52572e-14 (1.00)
Formation of rad19	3.52244e-14 (0.999)	3.52244e-14 (0.999)
H-abstraction to cyc2enyl	3.26639e-17 (0.000926)	3.26639e-17 (0.000926)
H-abstraction to cyc1enyl	9.42926e-20 (2.67e-06)	9.42926e-20 (2.67e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.944513	0.944513	0.944513	0.944513
rad9	0.0528945	0.997407	0.0528945	0.997407
rad8	0.00166008	0.999067	0.00166008	0.999067
Benzene+cycloprop-2-enylidene	0.000926445	0.999994	0.000926445	0.999994
Benzene+cycloprop-1-enylidene	2.67442e-06	0.999996	2.67442e-06	0.999996
rad15	1.64899e-06	0.999998	1.64899e-06	0.999998
rad12	1.53486e-06	1.000000	1.53486e-06	1.000000
rad19syn	1.75856e-09	1.000000	1.75856e-09	1.000000
Indene+H	1.05754e-09	1.000000	1.05754e-09	1.000000
rad7	5.67489e-10	1.000000	5.67489e-10	1.000000
PhCHCCH2+H	5.63697e-11	1.000000	5.63697e-11	1.000000
PhcycC3H3_A+H	1.14480e-11	1.000000	1.14480e-11	1.000000
Phenyl+cycC3H4	3.51165e-12	1.000000	0.000000	1.000000
rad11	3.06988e-12	1.000000	3.06988e-12	1.000000
rad2	2.31058e-12	1.000000	2.31058e-12	1.000000
rad6	8.70644e-13	1.000000	8.70644e-13	1.000000
PhcycC3H3_B+H	5.40359e-13	1.000000	5.40359e-13	1.000000
rad1	5.38223e-13	1.000000	5.38223e-13	1.000000
rad21	2.98098e-13	1.000000	2.98098e-13	1.000000
rad5	1.14747e-13	1.000000	1.14747e-13	1.000000
rad26	7.66030e-14	1.000000	7.66030e-14	1.000000
rad18	2.64222e-14	1.000000	2.64222e-14	1.000000
rad20	2.55335e-14	1.000000	2.55335e-14	1.000000
rad22	4.15314e-15	1.000000	4.15314e-15	1.000000
rad67	8.47084e-16	1.000000	8.47084e-16	1.000000
rad24	7.23037e-16	1.000000	7.23037e-16	1.000000
rad45	5.70840e-16	1.000000	5.70840e-16	1.000000
rad35	3.54959e-16	1.000000	3.54959e-16	1.000000
C2H2+PhCH2	1.04127e-16	1.000000	1.04127e-16	1.000000
rad36	9.89007e-17	1.000000	9.89007e-17	1.000000
rad10	9.19581e-17	1.000000	9.19581e-17	1.000000
Ph+MeAc	2.90540e-17	1.000000	2.90540e-17	1.000000

rad3	2.59225e-17	1.000000	2.59225e-17	1.000000
PhCCCH3+H	2.34417e-17	1.000000	2.34417e-17	1.000000
rad4	1.97742e-17	1.000000	1.97742e-17	1.000000
PhCCH+CH3	1.68659e-17	1.000000	1.68659e-17	1.000000
Ph+Allene	7.60038e-18	1.000000	7.60038e-18	1.000000
rad13	4.12403e-18	1.000000	4.12403e-18	1.000000
rad25	4.04682e-18	1.000000	4.04682e-18	1.000000
PhCH2CCH+H	2.20062e-18	1.000000	2.20062e-18	1.000000
rad27	1.91069e-18	1.000000	1.91069e-18	1.000000
rad23	4.62816e-19	1.000000	4.62816e-19	1.000000
rad33	1.05779e-19	1.000000	1.05779e-19	1.000000
rad31	6.40993e-20	1.000000	6.40993e-20	1.000000
rad30	4.48930e-20	1.000000	4.48930e-20	1.000000
rad37	3.16001e-21	1.000000	3.16001e-21	1.000000
rad28	1.79189e-21	1.000000	1.79189e-21	1.000000
rad60syn	3.51459e-22	1.000000	3.51459e-22	1.000000
PAH3+H	3.37681e-22	1.000000	3.37681e-22	1.000000
rad14	1.93841e-22	1.000000	1.93841e-22	1.000000
PAH7+H	1.89568e-22	1.000000	1.89568e-22	1.000000
rad60anti	1.81924e-22	1.000000	1.81924e-22	1.000000
rad59	5.99946e-23	1.000000	5.99946e-23	1.000000
PAH10+CH3	4.52136e-23	1.000000	4.52136e-23	1.000000
rad38	3.22910e-23	1.000000	3.22910e-23	1.000000
rad43	3.15863e-25	1.000000	3.15863e-25	1.000000
rad46	9.88783e-26	1.000000	9.88783e-26	1.000000
rad58	7.76609e-26	1.000000	7.76609e-26	1.000000
rad70	6.88636e-26	1.000000	6.88636e-26	1.000000
PAH1+H	3.70128e-26	1.000000	3.70128e-26	1.000000
rad34	3.62976e-27	1.000000	3.62976e-27	1.000000
rad50	2.32115e-27	1.000000	2.32115e-27	1.000000
PAH9+H	1.63136e-27	1.000000	1.63136e-27	1.000000
rad54	1.38722e-27	1.000000	1.38722e-27	1.000000
rad39	5.34330e-28	1.000000	5.34330e-28	1.000000
rad41	4.54187e-28	1.000000	4.54187e-28	1.000000
rad62	3.08667e-29	1.000000	3.08667e-29	1.000000
rad61	2.96821e-29	1.000000	2.96821e-29	1.000000
rad55	2.87440e-29	1.000000	2.87440e-29	1.000000
rad52	2.56013e-29	1.000000	2.56013e-29	1.000000
rad51	1.84782e-29	1.000000	1.84782e-29	1.000000
rad47	1.52119e-29	1.000000	1.52119e-29	1.000000
rad68syn	3.41531e-31	1.000000	3.41531e-31	1.000000
rad68anti	2.46158e-31	1.000000	2.46158e-31	1.000000
rad42	1.00260e-31	1.000000	1.00260e-31	1.000000
rad53	4.64384e-32	1.000000	4.64384e-32	1.000000
rad40syn	8.49362e-33	1.000000	8.49362e-33	1.000000
rad40anti	5.90193e-33	1.000000	5.90193e-33	1.000000
PAH8+H	3.47229e-33	1.000000	3.47229e-33	1.000000
rad56	1.39308e-33	1.000000	1.39308e-33	1.000000
rad65	6.13104e-34	1.000000	6.13104e-34	1.000000
rad64	1.04085e-35	1.000000	1.04085e-35	1.000000
rad73	6.82831e-37	1.000000	6.82831e-37	1.000000
rad71	1.41181e-38	1.000000	1.41181e-38	1.000000

100000000. Pa, 290.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.81171e-14 (1.00)	3.81171e-14 (1.00)
Formation of rad19	3.80733e-14 (0.999)	3.80733e-14 (0.999)
H-abstraction to cyc2enyl	4.36868e-17 (0.00115)	4.36868e-17 (0.00115)
H-abstraction to cyc1enyl	1.56861e-19 (4.12e-06)	1.56861e-19 (4.12e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.940246	0.940246	0.940246	0.940246
rad9	0.0569585	0.997205	0.0569585	0.997205
rad8	0.00164118	0.998846	0.00164118	0.998846
Benzene+cycloprop-2-enylidene	0.00114612	0.999992	0.00114612	0.999992
Benzene+cycloprop-1-enylidene	4.11523e-06	0.999996	4.11523e-06	0.999996
rad15	1.98171e-06	0.999998	1.98171e-06	0.999998
rad12	1.77156e-06	1.000000	1.77156e-06	1.000000
rad19syn	1.96078e-09	1.000000	1.96078e-09	1.000000
Indene+H	1.45169e-09	1.000000	1.45169e-09	1.000000
rad7	6.62319e-10	1.000000	6.62319e-10	1.000000
PhCHCCH2+H	8.08041e-11	1.000000	8.08041e-11	1.000000
PhcycC3H3_A+H	2.03666e-11	1.000000	2.03666e-11	1.000000
Phenyl+cycC3H4	5.15238e-12	1.000000	0.000000	1.000000
rad11	4.47005e-12	1.000000	4.47005e-12	1.000000
rad2	3.35315e-12	1.000000	3.35315e-12	1.000000
rad6	1.12443e-12	1.000000	1.12443e-12	1.000000

PhcycC3H3_B+H	1.10500e-12	1.000000	1.10500e-12	1.000000
rad1	7.77721e-13	1.000000	7.77721e-13	1.000000
rad21	4.56600e-13	1.000000	4.56600e-13	1.000000
rad5	1.40722e-13	1.000000	1.40722e-13	1.000000
rad26	1.19973e-13	1.000000	1.19973e-13	1.000000
rad18	4.16164e-14	1.000000	4.16164e-14	1.000000
rad20	3.67849e-14	1.000000	3.67849e-14	1.000000
rad22	7.13955e-15	1.000000	7.13955e-15	1.000000
rad67	1.48461e-15	1.000000	1.48461e-15	1.000000
rad24	1.20170e-15	1.000000	1.20170e-15	1.000000
rad45	1.06177e-15	1.000000	1.06177e-15	1.000000
rad35	6.17374e-16	1.000000	6.17374e-16	1.000000
rad36	1.83058e-16	1.000000	1.83058e-16	1.000000
C2H2+PhCH2	1.71775e-16	1.000000	1.71775e-16	1.000000
rad10	1.64835e-16	1.000000	1.64835e-16	1.000000
Ph+MeAc	5.78357e-17	1.000000	5.78357e-17	1.000000
rad3	4.73163e-17	1.000000	4.73163e-17	1.000000
PhCCCH3+H	4.54593e-17	1.000000	4.54593e-17	1.000000
rad4	3.60455e-17	1.000000	3.60455e-17	1.000000
PhCCH+CH3	2.45133e-17	1.000000	2.45133e-17	1.000000
Ph+Allene	1.52413e-17	1.000000	1.52413e-17	1.000000
rad25	7.48635e-18	1.000000	7.48635e-18	1.000000
rad13	6.08313e-18	1.000000	6.08313e-18	1.000000
PhCH2CCH+H	4.58668e-18	1.000000	4.58668e-18	1.000000
rad27	3.58746e-18	1.000000	3.58746e-18	1.000000
rad23	9.51698e-19	1.000000	9.51698e-19	1.000000
rad33	1.57938e-19	1.000000	1.57938e-19	1.000000
rad31	9.49990e-20	1.000000	9.49990e-20	1.000000
rad30	9.11690e-20	1.000000	9.11690e-20	1.000000
rad37	6.90868e-21	1.000000	6.90868e-21	1.000000
rad28	3.93289e-21	1.000000	3.93289e-21	1.000000
PAH3+H	7.80709e-22	1.000000	7.80709e-22	1.000000
rad60syn	7.64387e-22	1.000000	7.64387e-22	1.000000
rad14	4.46373e-22	1.000000	4.46373e-22	1.000000
PAH7+H	4.42139e-22	1.000000	4.42139e-22	1.000000
rad60anti	3.97662e-22	1.000000	3.97662e-22	1.000000
rad59	1.37380e-22	1.000000	1.37380e-22	1.000000
PAH10+CH3	1.11110e-22	1.000000	1.11110e-22	1.000000
rad38	7.59748e-23	1.000000	7.59748e-23	1.000000
rad43	8.17231e-25	1.000000	8.17231e-25	1.000000
rad46	2.46315e-25	1.000000	2.46315e-25	1.000000
rad58	1.97225e-25	1.000000	1.97225e-25	1.000000
rad70	1.77770e-25	1.000000	1.77770e-25	1.000000
PAH1+H	9.61453e-26	1.000000	9.61453e-26	1.000000
rad34	9.59843e-27	1.000000	9.59843e-27	1.000000
rad50	6.17510e-27	1.000000	6.17510e-27	1.000000
PAH9+H	4.21134e-27	1.000000	4.21134e-27	1.000000
rad54	2.85874e-27	1.000000	2.85874e-27	1.000000
rad39	1.43015e-27	1.000000	1.43015e-27	1.000000
rad41	1.25723e-27	1.000000	1.25723e-27	1.000000
rad62	9.02824e-29	1.000000	9.02824e-29	1.000000
rad61	8.36468e-29	1.000000	8.36468e-29	1.000000
rad52	7.22352e-29	1.000000	7.22352e-29	1.000000
rad55	6.14172e-29	1.000000	6.14172e-29	1.000000
rad51	5.35083e-29	1.000000	5.35083e-29	1.000000
rad47	4.40697e-29	1.000000	4.40697e-29	1.000000
rad68syn	9.80844e-31	1.000000	9.80844e-31	1.000000
rad68anti	7.06318e-31	1.000000	7.06318e-31	1.000000
rad42	3.05172e-31	1.000000	3.05172e-31	1.000000
rad53	1.10749e-31	1.000000	1.10749e-31	1.000000
rad40syn	2.57033e-32	1.000000	2.57033e-32	1.000000
rad40anti	1.80081e-32	1.000000	1.80081e-32	1.000000
PAH8+H	1.06315e-32	1.000000	1.06315e-32	1.000000
rad56	3.54029e-33	1.000000	3.54029e-33	1.000000
rad65	1.75561e-33	1.000000	1.75561e-33	1.000000
rad64	3.09902e-35	1.000000	3.09902e-35	1.000000
rad73	2.34301e-36	1.000000	2.34301e-36	1.000000
rad71	4.99494e-38	1.000000	4.99494e-38	1.000000

100000000. Pa, 300.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.34809e-14 (1.00)	5.34809e-14 (1.00)
Formation of rad19	5.34010e-14 (0.999)	5.34010e-14 (0.999)
H-abstraction to cyc2enyl	7.95823e-17 (0.00149)	7.95823e-17 (0.00149)
H-abstraction to cyclenyl	3.44981e-19 (6.45e-06)	3.44981e-19 (6.45e-06)

species	PYtrue	Cumul	PYeffective	Cumul
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rad19anti	0.912273	0.912273	0.912273	0.912273
rad9	0.0847994	0.997072	0.0847994	0.997072
Benzene+cycloprop-2-enylidene	0.00148805	0.998560	0.00148805	0.998560
rad8	0.00142077	0.999981	0.00142077	0.999981
rad15	8.18359e-06	0.999989	8.18359e-06	0.999989
Benzene+cycloprop-1-enylidene	6.45054e-06	0.999995	6.45054e-06	0.999995
rad12	4.37817e-06	1.000000	4.37817e-06	1.000000
Indene+H	3.59185e-08	1.000000	3.59185e-08	1.000000
rad19syn	1.33247e-08	1.000000	1.33247e-08	1.000000
PhcycC3H3_A+H	6.09241e-09	1.000000	6.09241e-09	1.000000
PhCHCCH2+H	4.03795e-09	1.000000	4.03795e-09	1.000000
PhcycC3H3_B+H	2.01524e-09	1.000000	2.01524e-09	1.000000
rad7	9.15176e-10	1.000000	9.15176e-10	1.000000
rad11	2.93990e-10	1.000000	2.93990e-10	1.000000
rad2	2.13899e-10	1.000000	2.13899e-10	1.000000
rad21	5.07558e-11	1.000000	5.07558e-11	1.000000
rad1	4.77017e-11	1.000000	4.77017e-11	1.000000
rad26	1.82265e-11	1.000000	1.82265e-11	1.000000
Phenyl+cycC3H4	1.28353e-11	1.000000	0.000000	1.000000
rad20	1.05741e-11	1.000000	1.05741e-11	1.000000
rad18	9.49715e-12	1.000000	9.49715e-12	1.000000
rad6	8.06883e-12	1.000000	8.06883e-12	1.000000
rad22	6.11916e-12	1.000000	6.11916e-12	1.000000
C2H2+PhCH2	2.84311e-12	1.000000	2.84311e-12	1.000000
rad45	2.51761e-12	1.000000	2.51761e-12	1.000000
rad67	2.25787e-12	1.000000	2.25787e-12	1.000000
rad5	1.61926e-12	1.000000	1.61926e-12	1.000000
Ph+MeAc	1.33352e-12	1.000000	1.33352e-12	1.000000
rad35	8.27233e-13	1.000000	8.27233e-13	1.000000
PhCCCH3+H	6.43375e-13	1.000000	6.43375e-13	1.000000
rad10	4.48528e-13	1.000000	4.48528e-13	1.000000
Ph+Allene	4.24013e-13	1.000000	4.24013e-13	1.000000
PhCH2CCH+H	3.49346e-13	1.000000	3.49346e-13	1.000000
rad36	3.07442e-13	1.000000	3.07442e-13	1.000000
rad24	2.94325e-13	1.000000	2.94325e-13	1.000000
PhCCH+CH3	1.63244e-13	1.000000	1.63244e-13	1.000000
rad3	1.45096e-13	1.000000	1.45096e-13	1.000000
rad4	1.10571e-13	1.000000	1.10571e-13	1.000000
rad23	4.01951e-14	1.000000	4.01951e-14	1.000000
rad25	3.14025e-14	1.000000	3.14025e-14	1.000000
rad27	1.73377e-14	1.000000	1.73377e-14	1.000000
rad30	4.13047e-15	1.000000	4.13047e-15	1.000000
rad13	2.89854e-15	1.000000	2.89854e-15	1.000000
PAH3+H	1.20894e-15	1.000000	1.20894e-15	1.000000
rad37	1.10310e-15	1.000000	1.10310e-15	1.000000
rad28	8.28533e-16	1.000000	8.28533e-16	1.000000
PAH10+CH3	5.49659e-16	1.000000	5.49659e-16	1.000000
PAH7+H	5.13995e-16	1.000000	5.13995e-16	1.000000
rad60syn	1.92269e-16	1.000000	1.92269e-16	1.000000
rad14	1.76817e-16	1.000000	1.76817e-16	1.000000
rad59	1.40568e-16	1.000000	1.40568e-16	1.000000
rad60anti	1.14033e-16	1.000000	1.14033e-16	1.000000
rad38	9.17925e-17	1.000000	9.17925e-17	1.000000
rad33	5.93354e-17	1.000000	5.93354e-17	1.000000
rad43	1.97915e-17	1.000000	1.97915e-17	1.000000
rad70	9.61121e-18	1.000000	9.61121e-18	1.000000
rad31	7.25599e-18	1.000000	7.25599e-18	1.000000
rad58	5.21386e-18	1.000000	5.21386e-18	1.000000
PAH1+H	5.14899e-18	1.000000	5.14899e-18	1.000000
rad46	1.91681e-18	1.000000	1.91681e-18	1.000000
rad34	1.73342e-18	1.000000	1.73342e-18	1.000000
PAH9+H	1.37147e-18	1.000000	1.37147e-18	1.000000
rad39	9.15154e-19	1.000000	9.15154e-19	1.000000
rad50	7.21592e-19	1.000000	7.21592e-19	1.000000
rad41	6.47632e-19	1.000000	6.47632e-19	1.000000
rad62	3.16801e-19	1.000000	3.16801e-19	1.000000
rad61	2.25704e-19	1.000000	2.25704e-19	1.000000
rad54	1.28680e-19	1.000000	1.28680e-19	1.000000
PAH8+H	1.10738e-19	1.000000	1.10738e-19	1.000000
rad51	1.02296e-19	1.000000	1.02296e-19	1.000000
rad52	4.19094e-20	1.000000	4.19094e-20	1.000000
rad68syn	4.18215e-20	1.000000	4.18215e-20	1.000000
rad47	3.11713e-20	1.000000	3.11713e-20	1.000000
rad68anti	2.76383e-20	1.000000	2.76383e-20	1.000000
rad40syn	2.55132e-20	1.000000	2.55132e-20	1.000000
rad40anti	2.05754e-20	1.000000	2.05754e-20	1.000000
rad42	1.40150e-20	1.000000	1.40150e-20	1.000000
rad55	8.04332e-21	1.000000	8.04332e-21	1.000000
rad53	1.16797e-21	1.000000	1.16797e-21	1.000000
rad56	8.74853e-22	1.000000	8.74853e-22	1.000000

rad73	4.28306e-22	1.000000	4.28306e-22	1.000000
rad65	4.01079e-22	1.000000	4.01079e-22	1.000000
rad71	3.68081e-22	1.000000	3.68081e-22	1.000000
rad64	2.39933e-22	1.000000	2.39933e-22	1.000000
rad72	4.45981e-24	1.000000	4.45981e-24	1.000000

100000000. Pa, 310.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.92544e-14 (1.00)	5.92544e-14 (1.00)
Formation of rad19	5.91462e-14 (0.998)	5.91462e-14 (0.998)
H-abstraction to cyc2enyl	1.07628e-16 (0.00182)	1.07628e-16 (0.00182)
H-abstraction to cyclenyl	5.62537e-19 (9.49e-06)	5.62537e-19 (9.49e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.930107	0.930107	0.930107	0.930107
rad9	0.0664596	0.996566	0.0664596	0.996566
Benzene+cycloprop-2-enylidene	0.00181637	0.998383	0.00181637	0.998383
rad8	0.00160211	0.999985	0.00160211	0.999985
Benzene+cycloprop-1-enylidene	9.49359e-06	0.999994	9.49359e-06	0.999994
rad15	2.93088e-06	0.999997	2.93088e-06	0.999997
rad12	2.39035e-06	1.000000	2.39035e-06	1.000000
Indene+H	2.84806e-09	1.000000	2.84806e-09	1.000000
rad19syn	2.82833e-09	1.000000	2.82833e-09	1.000000
rad7	9.09167e-10	1.000000	9.09167e-10	1.000000
PhCHCCH2+H	1.73372e-10	1.000000	1.73372e-10	1.000000
PhcycC3H3_A+H	6.19111e-11	1.000000	6.19111e-11	1.000000
Phenyl+cycC3H4	1.08688e-11	1.000000	0.000000	1.000000
rad11	9.86857e-12	1.000000	9.86857e-12	1.000000
rad2	7.37462e-12	1.000000	7.37462e-12	1.000000
PhcycC3H3_B+H	4.10697e-12	1.000000	4.10697e-12	1.000000
rad6	1.89362e-12	1.000000	1.89362e-12	1.000000
rad1	1.69994e-12	1.000000	1.69994e-12	1.000000
rad21	1.10625e-12	1.000000	1.10625e-12	1.000000
rad26	3.03300e-13	1.000000	3.03300e-13	1.000000
rad5	2.14529e-13	1.000000	2.14529e-13	1.000000
rad18	1.06879e-13	1.000000	1.06879e-13	1.000000
rad20	8.36248e-14	1.000000	8.36248e-14	1.000000
rad22	2.13194e-14	1.000000	2.13194e-14	1.000000
rad67	4.58193e-15	1.000000	4.58193e-15	1.000000
rad45	3.60996e-15	1.000000	3.60996e-15	1.000000
rad24	3.34565e-15	1.000000	3.34565e-15	1.000000
rad35	1.88213e-15	1.000000	1.88213e-15	1.000000
rad36	6.17458e-16	1.000000	6.17458e-16	1.000000
rad10	5.32561e-16	1.000000	5.32561e-16	1.000000
C2H2+PhCH2	5.04645e-16	1.000000	5.04645e-16	1.000000
Ph+MeAc	2.18308e-16	1.000000	2.18308e-16	1.000000
PhCCCH3+H	1.65666e-16	1.000000	1.65666e-16	1.000000
rad3	1.57366e-16	1.000000	1.57366e-16	1.000000
rad4	1.19642e-16	1.000000	1.19642e-16	1.000000
Ph+Allene	5.78897e-17	1.000000	5.78897e-17	1.000000
PhCCH+CH3	5.26963e-17	1.000000	5.26963e-17	1.000000
rad25	2.51946e-17	1.000000	2.51946e-17	1.000000
PhCH2CCH+H	1.84041e-17	1.000000	1.84041e-17	1.000000
rad13	1.33261e-17	1.000000	1.33261e-17	1.000000
rad27	1.24728e-17	1.000000	1.24728e-17	1.000000
rad23	3.82747e-18	1.000000	3.82747e-18	1.000000
rad30	3.58407e-19	1.000000	3.58407e-19	1.000000
rad33	3.53442e-19	1.000000	3.53442e-19	1.000000
rad31	2.25903e-19	1.000000	2.25903e-19	1.000000
rad37	3.00949e-20	1.000000	3.00949e-20	1.000000
rad28	1.72427e-20	1.000000	1.72427e-20	1.000000
PAH3+H	3.67616e-21	1.000000	3.67616e-21	1.000000
rad60syn	3.31237e-21	1.000000	3.31237e-21	1.000000
rad14	2.14248e-21	1.000000	2.14248e-21	1.000000
PAH7+H	2.10169e-21	1.000000	2.10169e-21	1.000000
rad60anti	1.73524e-21	1.000000	1.73524e-21	1.000000
rad59	6.38489e-22	1.000000	6.38489e-22	1.000000
PAH10+CH3	5.67087e-22	1.000000	5.67087e-22	1.000000
rad38	3.66337e-22	1.000000	3.66337e-22	1.000000
rad43	4.55494e-24	1.000000	4.55494e-24	1.000000
rad46	1.32537e-24	1.000000	1.32537e-24	1.000000
rad58	1.05038e-24	1.000000	1.05038e-24	1.000000
rad70	9.67816e-25	1.000000	9.67816e-25	1.000000
PAH1+H	5.28382e-25	1.000000	5.28382e-25	1.000000
rad34	5.39480e-26	1.000000	5.39480e-26	1.000000
rad50	3.65013e-26	1.000000	3.65013e-26	1.000000
PAH9+H	2.36225e-26	1.000000	2.36225e-26	1.000000

rad54	1.12759e-26	1.000000	1.12759e-26	1.000000
rad39	8.37026e-27	1.000000	8.37026e-27	1.000000
rad41	7.68105e-27	1.000000	7.68105e-27	1.000000
rad62	6.16431e-28	1.000000	6.16431e-28	1.000000
rad61	5.13281e-28	1.000000	5.13281e-28	1.000000
rad52	4.71789e-28	1.000000	4.71789e-28	1.000000
rad51	3.63467e-28	1.000000	3.63467e-28	1.000000
rad47	2.94512e-28	1.000000	2.94512e-28	1.000000
rad55	2.56165e-28	1.000000	2.56165e-28	1.000000
rad68syn	6.17220e-30	1.000000	6.17220e-30	1.000000
rad68anti	4.43905e-30	1.000000	4.43905e-30	1.000000
rad42	2.20733e-30	1.000000	2.20733e-30	1.000000
rad53	5.44909e-31	1.000000	5.44909e-31	1.000000
rad40syn	1.77516e-31	1.000000	1.77516e-31	1.000000
rad40anti	1.26500e-31	1.000000	1.26500e-31	1.000000
PAH8+H	7.45648e-32	1.000000	7.45648e-32	1.000000
rad56	1.91436e-32	1.000000	1.91436e-32	1.000000
rad65	1.13254e-32	1.000000	1.13254e-32	1.000000
rad64	2.09038e-34	1.000000	2.09038e-34	1.000000
rad73	2.08558e-35	1.000000	2.08558e-35	1.000000
rad71	4.68218e-37	1.000000	4.68218e-37	1.000000

100000000. Pa, 400.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.29463e-13 (1.00)	1.29463e-13 (1.00)
Formation of rad19	1.28526e-13 (0.993)	1.28526e-13 (0.993)
H-abstraction to cyc2enyl	9.19357e-16 (0.00710)	9.19357e-16 (0.00710)
H-abstraction to cyclenyl	1.69485e-17 (0.000131)	1.69485e-17 (0.000131)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.665246	0.665246	0.665246	0.665246
rad9	0.325766	0.991012	0.325766	0.991012
Benzene+cycloprop-2-enylidene	0.00710133	0.998113	0.00710133	0.998113
rad8	0.00115653	0.999269	0.00115653	0.999269
rad15	0.000431514	0.999701	0.000431514	0.999701
Benzene+cycloprop-1-enylidene	0.000130914	0.999832	0.000130914	0.999832
Indene+H	6.11330e-05	0.999893	6.11330e-05	0.999893
rad12	4.07339e-05	0.999934	4.07339e-05	0.999934
PhcycC3H3_A+H	2.28413e-05	0.999957	2.28413e-05	0.999957
PhCHCCH2+H	2.00130e-05	0.999977	2.00130e-05	0.999977
PhcycC3H3_B+H	1.85739e-05	0.999995	1.85739e-05	0.999995
rad11	9.36165e-07	0.999996	9.36165e-07	0.999996
rad19syn	7.76055e-07	0.999997	7.76055e-07	0.999997
rad2	6.08891e-07	0.999997	6.08891e-07	0.999997
C2H2+PhCH2	3.72283e-07	0.999998	3.72283e-07	0.999998
Ph+MeAc	3.21960e-07	0.999998	3.21960e-07	0.999998
rad6	2.87308e-07	0.999998	2.87308e-07	0.999998
PhCH2CCH+H	1.65367e-07	0.999999	1.65367e-07	0.999999
rad1	1.51052e-07	0.999999	1.51052e-07	0.999999
Ph+Allene	1.50824e-07	0.999999	1.50824e-07	0.999999
rad26	1.35848e-07	0.999999	1.35848e-07	0.999999
rad67	1.33997e-07	0.999999	1.33997e-07	0.999999
rad21	1.25608e-07	0.999999	1.25608e-07	0.999999
PhCCCH3+H	1.23961e-07	0.999999	1.23961e-07	0.999999
rad22	1.21345e-07	1.000000	1.21345e-07	1.000000
rad45	1.15038e-07	1.000000	1.15038e-07	1.000000
PhCCH+CH3	6.97740e-08	1.000000	6.97740e-08	1.000000
rad20	6.02518e-08	1.000000	6.02518e-08	1.000000
rad18	5.30166e-08	1.000000	5.30166e-08	1.000000
rad35	4.77331e-08	1.000000	4.77331e-08	1.000000
rad10	3.27358e-08	1.000000	3.27358e-08	1.000000
rad23	1.73070e-08	1.000000	1.73070e-08	1.000000
rad5	1.43613e-08	1.000000	1.43613e-08	1.000000
rad36	1.16164e-08	1.000000	1.16164e-08	1.000000
rad7	7.32472e-09	1.000000	7.32472e-09	1.000000
rad3	3.06869e-09	1.000000	3.06869e-09	1.000000
rad4	2.41578e-09	1.000000	2.41578e-09	1.000000
PAH10+CH3	1.94727e-09	1.000000	1.94727e-09	1.000000
PAH3+H	1.78065e-09	1.000000	1.78065e-09	1.000000
rad30	1.43355e-09	1.000000	1.43355e-09	1.000000
rad25	1.15540e-09	1.000000	1.15540e-09	1.000000
rad37	1.12327e-09	1.000000	1.12327e-09	1.000000
PAH7+H	8.03113e-10	1.000000	8.03113e-10	1.000000
rad24	7.84217e-10	1.000000	7.84217e-10	1.000000
Phenyl+cycC3H4	6.90116e-10	1.000000	0.00000	1.000000
rad28	6.58656e-10	1.000000	6.58656e-10	1.000000
rad27	5.45865e-10	1.000000	5.45865e-10	1.000000

rad13	3.19168e-10	1.000000	3.19168e-10	1.000000
rad38	2.34430e-10	1.000000	2.34430e-10	1.000000
rad59	1.72668e-10	1.000000	1.72668e-10	1.000000
rad60syn	1.44903e-10	1.000000	1.44903e-10	1.000000
rad60anti	9.02835e-11	1.000000	9.02835e-11	1.000000
PAH9+H	4.90512e-11	1.000000	4.90512e-11	1.000000
rad43	4.35460e-11	1.000000	4.35460e-11	1.000000
PAH1+H	3.75450e-11	1.000000	3.75450e-11	1.000000
rad70	3.53929e-11	1.000000	3.53929e-11	1.000000
rad39	2.48943e-11	1.000000	2.48943e-11	1.000000
rad14	2.38737e-11	1.000000	2.38737e-11	1.000000
rad58	1.74755e-11	1.000000	1.74755e-11	1.000000
rad46	1.61149e-11	1.000000	1.61149e-11	1.000000
rad50	1.53734e-11	1.000000	1.53734e-11	1.000000
rad33	9.32192e-12	1.000000	9.32192e-12	1.000000
rad34	8.81662e-12	1.000000	8.81662e-12	1.000000
rad51	4.48790e-12	1.000000	4.48790e-12	1.000000
rad54	3.22964e-12	1.000000	3.22964e-12	1.000000
rad61	3.14752e-12	1.000000	3.14752e-12	1.000000
rad41	3.04587e-12	1.000000	3.04587e-12	1.000000
PAH8+H	2.97134e-12	1.000000	2.97134e-12	1.000000
rad62	1.42764e-12	1.000000	1.42764e-12	1.000000
rad52	1.32286e-12	1.000000	1.32286e-12	1.000000
rad68syn	5.99303e-13	1.000000	5.99303e-13	1.000000
rad40syn	4.85984e-13	1.000000	4.85984e-13	1.000000
rad40anti	3.93426e-13	1.000000	3.93426e-13	1.000000
rad68anti	3.90698e-13	1.000000	3.90698e-13	1.000000
rad55	2.44613e-13	1.000000	2.44613e-13	1.000000
rad47	2.24435e-13	1.000000	2.24435e-13	1.000000
rad31	1.28076e-13	1.000000	1.28076e-13	1.000000
rad71	1.22681e-13	1.000000	1.22681e-13	1.000000
rad42	1.10669e-13	1.000000	1.10669e-13	1.000000
rad73	9.36299e-14	1.000000	9.36299e-14	1.000000
rad56	7.74671e-14	1.000000	7.74671e-14	1.000000
rad53	7.27968e-14	1.000000	7.27968e-14	1.000000
rad65	5.91233e-14	1.000000	5.91233e-14	1.000000
rad64	3.22968e-14	1.000000	3.22968e-14	1.000000
rad72	3.63460e-15	1.000000	3.63460e-15	1.000000

10000000. Pa, 500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.52837e-13 (1.00)	2.52837e-13 (1.00)
Formation of rad19	2.47941e-13 (0.981)	2.47941e-13 (0.981)
H-abstraction to cyc2enyl	4.69058e-15 (0.0186)	4.69058e-15 (0.0186)
H-abstraction to cyc1enyl	2.05381e-16 (0.000812)	2.05381e-16 (0.000812)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.812835	0.812835	0.812835	0.812835
rad19anti	0.146853	0.959689	0.146853	0.959689
Benzene+cycloprop-2-enylidene	0.0185518	0.978240	0.0185518	0.978240
Indene+H	0.00576294	0.984003	0.00576294	0.984003
rad15	0.00516934	0.989173	0.00516934	0.989173
PhCHCCH2+H	0.00372371	0.992896	0.00372371	0.992896
PhcycC3H3_B+H	0.00232827	0.995225	0.00232827	0.995225
PhcycC3H3_A+H	0.00212660	0.997351	0.00212660	0.997351
rad8	0.000866323	0.998218	0.000866323	0.998218
Benzene+cycloprop-1-enylidene	0.000812306	0.999030	0.000812306	0.999030
rad12	0.000164457	0.999194	0.000164457	0.999194
C2H2+PhCH2	0.000113009	0.999307	0.000113009	0.999307
Ph+MeAc	0.000110645	0.999418	0.000110645	0.999418
PhCH2CCH+H	7.70679e-05	0.999495	7.70679e-05	0.999495
rad6	6.66562e-05	0.999562	6.66562e-05	0.999562
Ph+Allene	6.65969e-05	0.999628	6.65969e-05	0.999628
rad11	5.72077e-05	0.999685	5.72077e-05	0.999685
rad19syn	5.51595e-05	0.999741	5.51595e-05	0.999741
rad67	4.15851e-05	0.999782	4.15851e-05	0.999782
PhCCCH3+H	3.92990e-05	0.999822	3.92990e-05	0.999822
rad2	2.94755e-05	0.999851	2.94755e-05	0.999851
rad45	2.94119e-05	0.999880	2.94119e-05	0.999880
PhCCH+CH3	2.58585e-05	0.999906	2.58585e-05	0.999906
rad26	2.14989e-05	0.999928	2.14989e-05	0.999928
rad35	1.48249e-05	0.999943	1.48249e-05	0.999943
rad22	1.24157e-05	0.999955	1.24157e-05	0.999955
rad1	9.02594e-06	0.999964	9.02594e-06	0.999964
rad23	7.35307e-06	0.999971	7.35307e-06	0.999971
rad10	6.94872e-06	0.999978	6.94872e-06	0.999978
rad21	5.40947e-06	0.999984	5.40947e-06	0.999984

rad20	2.89437e-06	0.999987	2.89437e-06	0.999987
rad36	2.75143e-06	0.999989	2.75143e-06	0.999989
rad18	2.52701e-06	0.999992	2.52701e-06	0.999992
PAH10+CH3	1.79034e-06	0.999994	1.79034e-06	0.999994
PAH3+H	1.10972e-06	0.999995	1.10972e-06	0.999995
rad7	9.14303e-07	0.999996	9.14303e-07	0.999996
rad37	8.16419e-07	0.999997	8.16419e-07	0.999997
rad5	6.84388e-07	0.999997	6.84388e-07	0.999997
rad30	6.07515e-07	0.999998	6.07515e-07	0.999998
PAH7+H	5.55077e-07	0.999998	5.55077e-07	0.999998
rad28	3.49051e-07	0.999999	3.49051e-07	0.999999
rad38	2.15092e-07	0.999999	2.15092e-07	0.999999
rad3	2.02807e-07	0.999999	2.02807e-07	0.999999
rad4	1.67245e-07	0.999999	1.67245e-07	0.999999
rad25	1.10560e-07	0.999999	1.10560e-07	0.999999
rad59	1.02452e-07	1.000000	1.02452e-07	1.000000
Phenyl+cycC3H4	7.80279e-08	1.000000	0.000000	1.000000
rad60syn	7.62922e-08	1.000000	7.62922e-08	1.000000
PAH9+H	7.50043e-08	1.000000	7.50043e-08	1.000000
rad13	6.91120e-08	1.000000	6.91120e-08	1.000000
rad60anti	4.81403e-08	1.000000	4.81403e-08	1.000000
rad27	3.98320e-08	1.000000	3.98320e-08	1.000000
PAH1+H	3.67976e-08	1.000000	3.67976e-08	1.000000
rad24	3.52585e-08	1.000000	3.52585e-08	1.000000
rad39	3.36621e-08	1.000000	3.36621e-08	1.000000
rad43	2.48238e-08	1.000000	2.48238e-08	1.000000
rad70	2.46694e-08	1.000000	2.46694e-08	1.000000
rad50	2.30453e-08	1.000000	2.30453e-08	1.000000
rad46	2.06134e-08	1.000000	2.06134e-08	1.000000
rad58	1.30028e-08	1.000000	1.30028e-08	1.000000
rad51	7.42037e-09	1.000000	7.42037e-09	1.000000
rad34	6.63103e-09	1.000000	6.63103e-09	1.000000
rad54	3.91094e-09	1.000000	3.91094e-09	1.000000
rad61	3.58734e-09	1.000000	3.58734e-09	1.000000
PAH8+H	3.10663e-09	1.000000	3.10663e-09	1.000000
rad14	2.45639e-09	1.000000	2.45639e-09	1.000000
rad33	2.22066e-09	1.000000	2.22066e-09	1.000000
rad41	2.12835e-09	1.000000	2.12835e-09	1.000000
rad52	2.08399e-09	1.000000	2.08399e-09	1.000000
rad47	1.82863e-09	1.000000	1.82863e-09	1.000000
rad62	8.90130e-10	1.000000	8.90131e-10	1.000000
rad68syn	5.58835e-10	1.000000	5.58835e-10	1.000000
rad40syn	4.74257e-10	1.000000	4.74257e-10	1.000000
rad40anti	3.83840e-10	1.000000	3.83840e-10	1.000000
rad68anti	3.63343e-10	1.000000	3.63343e-10	1.000000
rad55	3.05822e-10	1.000000	3.05822e-10	1.000000
rad71	2.15631e-10	1.000000	2.15631e-10	1.000000
rad73	1.61683e-10	1.000000	1.61683e-10	1.000000
rad31	1.25616e-10	1.000000	1.25616e-10	1.000000
rad56	1.14730e-10	1.000000	1.14730e-10	1.000000
rad65	1.12924e-10	1.000000	1.12924e-10	1.000000
rad53	1.02284e-10	1.000000	1.02284e-10	1.000000
rad42	8.16162e-11	1.000000	8.16162e-11	1.000000
rad64	5.30450e-11	1.000000	5.30450e-11	1.000000
rad72	6.67572e-12	1.000000	6.67572e-12	1.000000

100000000. Pa, 600.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.35570e-13 (1.00)	4.35565e-13 (1.00)
Formation of rad19	4.18892e-13 (0.962)	4.18886e-13 (0.962)
H-abstraction to cyc2enyl	1.54751e-14 (0.0355)	1.54751e-14 (0.0355)
H-abstraction to cyclenyl	1.20343e-15 (0.00276)	1.20342e-15 (0.00276)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.851854	0.851854	0.851865	0.851865
Benzene+cycloprop-2-enylidene	0.0355285	0.887382	0.0355289	0.887394
rad19anti	0.0345179	0.921900	0.0345184	0.921912
Indene+H	0.0253508	0.947251	0.0253512	0.947263
PhCHCCH2+H	0.0201418	0.967393	0.0201421	0.967405
rad15	0.00888907	0.976282	0.00888918	0.976295
PhcycC3H3_B+H	0.00817738	0.984459	0.00817748	0.984472
PhcycC3H3_A+H	0.00710161	0.991561	0.00710170	0.991574
Benzene+cycloprop-1-enylidene	0.00276289	0.994324	0.00276289	0.994337
C2H2+PhCH2	0.000655392	0.994979	0.000655400	0.994992
rad19syn	0.000639944	0.995619	0.000639952	0.995632
Ph+MeAc	0.000637674	0.996257	0.000637682	0.996270
rad8	0.000619494	0.996876	0.000619502	0.996889

PhCH2CCH+H	0.000493794	0.997370	0.000493801	0.997383
Ph+Allene	0.000422775	0.997793	0.000422780	0.997806
rad6	0.000347283	0.998140	0.000347287	0.998153
rad12	0.000337565	0.998478	0.000337569	0.998491
rad67	0.000248909	0.998726	0.000248912	0.998740
PhCCCH3+H	0.000221938	0.998948	0.000221941	0.998961
rad45	0.000171308	0.999120	0.000171310	0.999133
rad11	0.000165049	0.999285	0.000165051	0.999298
PhCCH+CH3	0.000156261	0.999441	0.000156263	0.999454
rad2	0.000106793	0.999548	0.000106794	0.999561
rad26	0.000101252	0.999649	0.000101253	0.999662
rad35	8.88233e-05	0.999738	8.88244e-05	0.999751
rad22	4.15250e-05	0.999779	4.15255e-05	0.999793
rad23	3.85750e-05	0.999818	3.85755e-05	0.999831
rad1	3.59617e-05	0.999854	3.59622e-05	0.999867
rad10	3.39894e-05	0.999888	3.39897e-05	0.999901
rad36	1.62377e-05	0.999904	1.62379e-05	0.999917
PAH10+CH3	1.49304e-05	0.999919	1.49306e-05	0.999932
rad21	1.46228e-05	0.999934	1.46230e-05	0.999947
Phenyl+cycC3H4	1.21067e-05	0.999946	0.00000	0.999947
PAH3+H	7.85212e-06	0.999954	7.85221e-06	0.999955
rad20	7.83953e-06	0.999962	7.83962e-06	0.999963
rad37	6.37710e-06	0.999968	6.37717e-06	0.999969
rad18	6.27865e-06	0.999974	6.27872e-06	0.999975
rad7	5.68693e-06	0.999980	5.68700e-06	0.999981
PAH7+H	4.12675e-06	0.999984	4.12680e-06	0.999985
rad30	3.87047e-06	0.999988	3.87052e-06	0.999989
rad28	2.20930e-06	0.999990	2.20933e-06	0.999991
rad38	1.63490e-06	0.999992	1.63492e-06	0.999993
rad5	1.60296e-06	0.999993	1.60298e-06	0.999994
rad3	8.60221e-07	0.999994	8.60233e-07	0.999995
rad59	7.14892e-07	0.999995	7.14901e-07	0.999996
rad4	7.10166e-07	0.999996	7.10174e-07	0.999997
PAH9+H	5.82705e-07	0.999996	5.82712e-07	0.999997
rad60syn	5.15500e-07	0.999997	5.15506e-07	0.999998
rad25	3.41238e-07	0.999997	3.41242e-07	0.999998
rad13	3.37562e-07	0.999997	3.37566e-07	0.999998
rad60anti	3.26392e-07	0.999998	3.26397e-07	0.999999
PAH1+H	3.08204e-07	0.999998	3.08207e-07	0.999999
rad39	2.83065e-07	0.999998	2.83068e-07	0.999999
rad70	1.76219e-07	0.999998	1.76221e-07	0.999999
rad43	1.63154e-07	0.999999	1.63156e-07	1.000000
rad50	1.46334e-07	0.999999	1.46335e-07	1.000000
rad46	1.28566e-07	0.999999	1.28568e-07	1.000000
rad24	1.28066e-07	0.999999	1.28068e-07	1.000000
rad27	1.13538e-07	0.999999	1.13539e-07	1.000000
rad58	9.66027e-08	0.999999	9.66046e-08	1.000000
rad34	4.85042e-08	0.999999	4.85047e-08	1.000000
rad51	4.61139e-08	0.999999	4.61145e-08	1.000000
rad47	4.11794e-08	0.999999	4.11800e-08	1.000000
rad54	3.41557e-08	0.999999	3.41561e-08	1.000000
rad61	3.18529e-08	0.999999	3.18533e-08	1.000000
PAH8+H	2.48326e-08	0.999999	2.48328e-08	1.000000
rad41	1.47905e-08	1.000000	1.47906e-08	1.000000
rad52	1.28899e-08	1.000000	1.28901e-08	1.000000
rad33	1.15861e-08	1.000000	1.15863e-08	1.000000
rad31	1.04192e-08	1.000000	1.04192e-08	1.000000
rad14	8.00661e-09	1.000000	8.00670e-09	1.000000
rad62	5.81448e-09	1.000000	5.81455e-09	1.000000
rad68syn	4.37589e-09	1.000000	4.37595e-09	1.000000
rad40syn	3.68944e-09	1.000000	3.68949e-09	1.000000
rad40anti	2.97176e-09	1.000000	2.97179e-09	1.000000
rad68anti	2.84264e-09	1.000000	2.84267e-09	1.000000
rad55	2.69879e-09	1.000000	2.69882e-09	1.000000
rad56	1.07329e-09	1.000000	1.07330e-09	1.000000
rad71	1.02081e-09	1.000000	1.02082e-09	1.000000
rad53	9.39249e-10	1.000000	9.39260e-10	1.000000
rad65	9.20583e-10	1.000000	9.20594e-10	1.000000
rad73	7.92331e-10	1.000000	7.92340e-10	1.000000
rad42	5.56233e-10	1.000000	5.56240e-10	1.000000
rad64	5.27837e-10	1.000000	5.27843e-10	1.000000
rad72	3.02984e-11	1.000000	3.02988e-11	1.000000

100000000. Pa, 700.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.91694e-13 (1.00)	6.91528e-13 (1.00)
Formation of rad19	6.47922e-13 (0.937)	6.47758e-13 (0.937)
H-abstraction to cyc2enyl	3.91858e-14 (0.0567)	3.91858e-14 (0.0567)

H-abstraction to cyclenyl | 4.58543e-15 (0.00663) 4.58426e-15 (0.00663)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.789527	0.789527	0.789717	0.789717
Benzene+cycloprop-2-enylidene	0.0566520	0.846179	0.0566656	0.846382
Indene+H	0.0463437	0.892523	0.0463548	0.892737
PhCHCCH2+H	0.0412577	0.933781	0.0412676	0.934005
rad19anti	0.0198389	0.953620	0.0198435	0.953848
PhcycC3H3_B+H	0.0103536	0.963973	0.0103561	0.964204
PhcycC3H3_A+H	0.00888456	0.972858	0.00888669	0.973091
rad15	0.00879760	0.981655	0.00879970	0.981891
Benzene+cycloprop-1-enylidene	0.00662927	0.988285	0.00662918	0.988520
rad19syn	0.00143310	0.989718	0.00143344	0.989953
C2H2+PhCH2	0.00137811	0.991096	0.00137845	0.991332
Ph+MeAc	0.00125660	0.992353	0.00125690	0.992589
rad12	0.00110058	0.993453	0.00110084	0.993689
PhCH2CCH+H	0.00109114	0.994544	0.00109140	0.994781
Ph+Allene	0.000932058	0.995476	0.000932280	0.995713
rad6	0.000691740	0.996168	0.000691905	0.996405
rad67	0.000536273	0.996704	0.000536401	0.996941
rad8	0.000515108	0.997219	0.000515231	0.997457
PhCCCH3+H	0.000436702	0.997656	0.000436806	0.997893
rad45	0.000364455	0.998021	0.000364542	0.998258
PhCCH+CH3	0.000327224	0.998348	0.000327303	0.998585
rad2	0.000314905	0.998663	0.000314980	0.998900
Phenyl+cycC3H4	0.000237530	0.998900	0.000000	0.998900
rad11	0.000217225	0.999117	0.000217277	0.999117
rad35	0.000191494	0.999309	0.000191540	0.999309
rad26	0.000180430	0.999489	0.000180472	0.999490
rad1	0.000104326	0.999594	0.000104351	0.999594
rad23	7.07479e-05	0.999664	7.07649e-05	0.999665
rad10	6.40320e-05	0.999729	6.40473e-05	0.999729
rad22	6.10333e-05	0.999790	6.10479e-05	0.999790
rad36	3.90511e-05	0.999829	3.90603e-05	0.999829
PAH10+CH3	3.78420e-05	0.999866	3.78511e-05	0.999867
rad21	2.37747e-05	0.999890	2.37804e-05	0.999890
PAH3+H	1.84853e-05	0.999909	1.84897e-05	0.999909
rad37	1.56070e-05	0.999924	1.56107e-05	0.999925
rad7	1.28570e-05	0.999937	1.28601e-05	0.999937
rad20	1.17019e-05	0.999949	1.17047e-05	0.999949
PAH7+H	9.91742e-06	0.999959	9.91980e-06	0.999959
rad30	8.58489e-06	0.999967	8.58695e-06	0.999968
rad18	7.71610e-06	0.999975	7.71795e-06	0.999975
rad28	4.63016e-06	0.999980	4.63128e-06	0.999980
rad38	3.88432e-06	0.999984	3.88525e-06	0.999984
rad3	2.05476e-06	0.999986	2.05525e-06	0.999986
rad5	1.83898e-06	0.999987	1.83942e-06	0.999988
rad4	1.67898e-06	0.999989	1.67939e-06	0.999989
rad59	1.66948e-06	0.999991	1.66987e-06	0.999991
PAH9+H	1.38544e-06	0.999992	1.38576e-06	0.999992
rad60syn	1.18207e-06	0.999993	1.18236e-06	0.999994
PAH1+H	7.73229e-07	0.999994	7.73413e-07	0.999994
rad60anti	7.49889e-07	0.999995	7.50069e-07	0.999995
rad39	7.16797e-07	0.999996	7.16968e-07	0.999996
rad13	6.60957e-07	0.999996	6.61115e-07	0.999997
rad25	4.75074e-07	0.999997	4.75188e-07	0.999997
rad24	4.65647e-07	0.999997	4.65758e-07	0.999997
rad70	4.12671e-07	0.999998	4.12770e-07	0.999998
rad43	3.35431e-07	0.999998	3.35511e-07	0.999998
rad50	2.80145e-07	0.999998	2.80213e-07	0.999998
rad46	2.45878e-07	0.999999	2.45937e-07	0.999999
rad58	2.33849e-07	0.999999	2.33905e-07	0.999999
rad27	1.93228e-07	0.999999	1.93275e-07	0.999999
rad31	1.70670e-07	0.999999	1.70711e-07	0.999999
rad47	1.19418e-07	0.999999	1.19446e-07	0.999999
rad34	1.15206e-07	0.999999	1.15233e-07	1.000000
rad54	9.28527e-08	0.999999	9.28749e-08	1.000000
rad51	8.74588e-08	1.000000	8.74797e-08	1.000000
rad61	8.34645e-08	1.000000	8.34845e-08	1.000000
PAH8+H	5.93791e-08	1.000000	5.93933e-08	1.000000
rad41	3.09094e-08	1.000000	3.09168e-08	1.000000
rad33	2.84161e-08	1.000000	2.84229e-08	1.000000
rad52	2.44041e-08	1.000000	2.44099e-08	1.000000
rad14	1.35080e-08	1.000000	1.35112e-08	1.000000
rad62	1.17213e-08	1.000000	1.17240e-08	1.000000
rad68syn	1.08257e-08	1.000000	1.08283e-08	1.000000
rad40syn	8.55421e-09	1.000000	8.55626e-09	1.000000
rad55	7.38989e-09	1.000000	7.39165e-09	1.000000
rad68anti	7.02880e-09	1.000000	7.03048e-09	1.000000

rad40anti	6.77083e-09	1.000000	6.77245e-09	1.000000
rad56	3.06332e-09	1.000000	3.06406e-09	1.000000
rad53	2.64529e-09	1.000000	2.64593e-09	1.000000
rad65	2.26652e-09	1.000000	2.26707e-09	1.000000
rad71	1.71034e-09	1.000000	1.71074e-09	1.000000
rad64	1.49037e-09	1.000000	1.49073e-09	1.000000
rad73	1.34150e-09	1.000000	1.34182e-09	1.000000
rad42	1.13359e-09	1.000000	1.13386e-09	1.000000
rad72	5.03934e-11	1.000000	5.04055e-11	1.000000

100000000. Pa, 800.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.03759e-12 (1.00)	1.03689e-12 (1.00)
Formation of rad19	9.41065e-13 (0.907)	9.40382e-13 (0.907)
H-abstraction to cyc2enyl	8.32953e-14 (0.0803)	8.32953e-14 (0.0803)
H-abstraction to cyclenyl	1.32261e-14 (0.0127)	1.32165e-14 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.766809	0.766809	0.767321	0.767321
Benzene+cycloprop-2-enylidene	0.0802780	0.847087	0.0803316	0.847653
Indene+H	0.0411568	0.888244	0.0411843	0.888837
PhCHCCH2+H	0.0385897	0.926834	0.0386155	0.927453
rad19anti	0.0192244	0.946058	0.0192373	0.946690
Benzene+cycloprop-1-enylidene	0.0127470	0.958805	0.0127462	0.959436
PhcycC3H3_B+H	0.0112674	0.970073	0.0112749	0.970711
PhcycC3H3_A+H	0.00959335	0.979666	0.00959977	0.980311
rad15	0.00536361	0.985029	0.00536718	0.985678
rad12	0.00401958	0.989049	0.00402226	0.989701
rad19syn	0.00166164	0.990711	0.00166275	0.991363
C2H2+PhCH2	0.00129096	0.992002	0.00129183	0.992655
Ph+MeAc	0.00111347	0.993115	0.00111422	0.993769
PhCH2CCH+H	0.00104427	0.994159	0.00104497	0.994814
Ph+Allene	0.000895938	0.995055	0.000896536	0.995711
rad8	0.000680480	0.995736	0.000680934	0.996392
Phenyl+cycC3H4	0.000658211	0.996394	0.000000	0.996392
rad6	0.000649684	0.997044	0.000650118	0.997042
rad67	0.000512832	0.997557	0.000513174	0.997555
rad2	0.000391327	0.997948	0.000391589	0.997947
PhCCCH3+H	0.000387516	0.998335	0.000387775	0.998334
rad45	0.000343482	0.998679	0.000343712	0.998678
PhCCH+CH3	0.000285531	0.998964	0.000285722	0.998964
rad35	0.000183170	0.999148	0.000183292	0.999147
rad11	0.000170535	0.999318	0.000170648	0.999318
rad26	0.000146922	0.999465	0.000147020	0.999465
rad1	0.000139531	0.999605	0.000139624	0.999604
rad23	5.96982e-05	0.999664	5.97381e-05	0.999664
rad22	5.69267e-05	0.999721	5.69648e-05	0.999721
rad10	5.40269e-05	0.999775	5.40629e-05	0.999775
rad36	4.08539e-05	0.999816	4.08811e-05	0.999816
rad21	3.85493e-05	0.999855	3.85750e-05	0.999855
PAH10+CH3	3.51833e-05	0.999890	3.52068e-05	0.999890
PAH3+H	1.82436e-05	0.999908	1.82558e-05	0.999908
rad20	1.45020e-05	0.999923	1.45117e-05	0.999923
rad37	1.43259e-05	0.999937	1.43354e-05	0.999937
rad7	1.38981e-05	0.999951	1.39075e-05	0.999951
PAH7+H	9.46383e-06	0.999960	9.47017e-06	0.999960
rad30	8.27052e-06	0.999969	8.27605e-06	0.999969
rad18	6.32367e-06	0.999975	6.32790e-06	0.999975
rad28	4.08828e-06	0.999979	4.09102e-06	0.999979
rad38	3.56651e-06	0.999982	3.56889e-06	0.999983
rad24	2.21185e-06	0.999985	2.21333e-06	0.999985
rad3	1.98611e-06	0.999987	1.98744e-06	0.999987
rad4	1.64580e-06	0.999988	1.64690e-06	0.999988
rad59	1.64210e-06	0.999990	1.64320e-06	0.999990
rad5	1.41067e-06	0.999991	1.41162e-06	0.999992
PAH9+H	1.36198e-06	0.999993	1.36289e-06	0.999993
rad60syn	1.15406e-06	0.999994	1.15484e-06	0.999994
rad60anti	7.32695e-07	0.999995	7.33185e-07	0.999995
rad13	7.25954e-07	0.999995	7.26438e-07	0.999995
PAH1+H	7.24243e-07	0.999996	7.24727e-07	0.999996
rad39	6.90438e-07	0.999997	6.90900e-07	0.999997
rad25	4.52006e-07	0.999997	4.52307e-07	0.999997
rad70	4.00771e-07	0.999998	4.01039e-07	0.999998
rad31	3.49940e-07	0.999998	3.50174e-07	0.999998
rad43	2.99739e-07	0.999998	2.99939e-07	0.999998
rad50	2.46355e-07	0.999999	2.46520e-07	0.999999
rad58	2.33513e-07	0.999999	2.33668e-07	0.999999

rad46	2.14384e-07	0.999999	2.14527e-07	0.999999
rad27	2.03694e-07	0.999999	2.03830e-07	0.999999
rad47	1.27109e-07	0.999999	1.27194e-07	0.999999
rad34	1.12514e-07	0.999999	1.12589e-07	1.000000
rad54	1.03189e-07	1.000000	1.03258e-07	1.000000
rad51	7.88009e-08	1.000000	7.88535e-08	1.000000
rad61	7.86358e-08	1.000000	7.86884e-08	1.000000
PAH8+H	5.76939e-08	1.000000	5.77324e-08	1.000000
rad33	5.45834e-08	1.000000	5.46198e-08	1.000000
rad41	2.77689e-08	1.000000	2.77875e-08	1.000000
rad52	2.19057e-08	1.000000	2.19204e-08	1.000000
rad14	1.16482e-08	1.000000	1.16559e-08	1.000000
rad68syn	1.07537e-08	1.000000	1.07609e-08	1.000000
rad62	1.06507e-08	1.000000	1.06578e-08	1.000000
rad55	8.25335e-09	1.000000	8.25886e-09	1.000000
rad40syn	8.16930e-09	1.000000	8.17476e-09	1.000000
rad68anti	6.98050e-09	1.000000	6.98516e-09	1.000000
rad40anti	6.39543e-09	1.000000	6.39970e-09	1.000000
rad56	3.52380e-09	1.000000	3.52615e-09	1.000000
rad53	3.01381e-09	1.000000	3.01582e-09	1.000000
rad65	2.28163e-09	1.000000	2.28316e-09	1.000000
rad71	1.51854e-09	1.000000	1.51956e-09	1.000000
rad64	1.48792e-09	1.000000	1.48891e-09	1.000000
rad73	1.18211e-09	1.000000	1.18289e-09	1.000000
rad42	1.03900e-09	1.000000	1.03970e-09	1.000000
rad72	4.54443e-11	1.000000	4.54746e-11	1.000000

10000000. Pa, 900.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.49199e-12 (1.00)	1.49072e-12 (1.00)
Formation of rad19	1.30395e-12 (0.874)	1.30271e-12 (0.874)
H-abstraction to cyc2enyl	1.56554e-13 (0.105)	1.56554e-13 (0.105)
H-abstraction to cyclenyl	3.14892e-14 (0.0211)	3.14591e-14 (0.0211)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.774081	0.774081	0.774743	0.774743
Benzene+cycloprop-2-enylidene	0.104929	0.879011	0.105019	0.879762
Indene+H	0.0219763	0.900987	0.0219951	0.901757
Benzene+cycloprop-1-enylidene	0.0211054	0.922093	0.0211033	0.922861
PhCHCCH2+H	0.0206278	0.942720	0.0206454	0.943506
rad19anti	0.0182986	0.961019	0.0183144	0.961820
PhcycC3H3_B+H	0.0114272	0.972446	0.0114370	0.973257
PhcycC3H3_A+H	0.00969175	0.982138	0.00970004	0.982957
rad12	0.00725011	0.989388	0.00725631	0.990214
rad15	0.00265123	0.992039	0.00265350	0.992867
rad19syn	0.00161924	0.993659	0.00162062	0.994488
rad8	0.00123621	0.994895	0.00123727	0.995725
Phenyl+cycC3H4	0.000834548	0.995729	0.000000	0.995725
C2H2+PhCH2	0.000667458	0.996397	0.000668029	0.996393
Ph+MeAc	0.000585352	0.996982	0.000585854	0.996979
PhCH2CCH+H	0.000555638	0.997538	0.000556114	0.997535
Ph+Allene	0.000483795	0.998022	0.000484209	0.998019
rad6	0.000359375	0.998381	0.000359683	0.998379
rad67	0.000277936	0.998659	0.000278173	0.998657
rad2	0.000222577	0.998881	0.000222767	0.998880
PhCCCH3+H	0.000202672	0.999084	0.000202845	0.999083
rad45	0.000179137	0.999263	0.000179290	0.999262
PhCCH+CH3	0.000135519	0.999399	0.000135635	0.999398
rad35	9.92754e-05	0.999498	9.93599e-05	0.999497
rad11	9.04073e-05	0.999588	9.04848e-05	0.999588
rad1	8.56889e-05	0.999674	8.57622e-05	0.999673
rad26	6.49646e-05	0.999739	6.50202e-05	0.999738
rad21	6.11885e-05	0.999800	6.12408e-05	0.999800
rad22	3.54988e-05	0.999836	3.55292e-05	0.999835
rad23	2.82175e-05	0.999864	2.82416e-05	0.999863
rad10	2.45221e-05	0.999889	2.45430e-05	0.999888
rad36	2.02650e-05	0.999909	2.02823e-05	0.999908
PAH10+CH3	1.73643e-05	0.999926	1.73792e-05	0.999926
rad20	1.61004e-05	0.999942	1.61142e-05	0.999942
rad7	1.01292e-05	0.999952	1.01378e-05	0.999952
PAH3+H	9.92763e-06	0.999962	9.93607e-06	0.999962
rad37	7.00064e-06	0.999969	7.00664e-06	0.999969
rad24	5.46256e-06	0.999975	5.46724e-06	0.999974
PAH7+H	4.86740e-06	0.999980	4.87157e-06	0.999979
rad30	4.46109e-06	0.999984	4.46491e-06	0.999984
rad18	3.70456e-06	0.999988	3.70773e-06	0.999987
rad28	1.94805e-06	0.999990	1.94972e-06	0.999989

rad38	1.75734e-06	0.999992	1.75884e-06	0.999991
rad3	1.09954e-06	0.999993	1.10048e-06	0.999992
rad4	8.94005e-07	0.999994	8.94772e-07	0.999993
rad59	8.92240e-07	0.999994	8.93007e-07	0.999994
rad5	7.38137e-07	0.999995	7.38768e-07	0.999995
PAH9+H	7.30363e-07	0.999996	7.30988e-07	0.999995
rad13	6.40262e-07	0.999997	6.40810e-07	0.999996
rad60syn	6.25222e-07	0.999997	6.25756e-07	0.999997
rad60anti	3.97059e-07	0.999998	3.97399e-07	0.999997
rad25	3.65935e-07	0.999998	3.66248e-07	0.999997
PAH1+H	3.65887e-07	0.999998	3.66200e-07	0.999998
rad39	3.63635e-07	0.999999	3.63946e-07	0.999998
rad31	2.25419e-07	0.999999	2.25612e-07	0.999998
rad70	2.10182e-07	0.999999	2.10362e-07	0.999999
rad43	1.55804e-07	0.999999	1.55938e-07	0.999999
rad27	1.52945e-07	0.999999	1.53075e-07	0.999999
rad58	1.27780e-07	1.000000	1.27889e-07	0.999999
rad50	1.26144e-07	1.000000	1.26252e-07	0.999999
rad46	1.08581e-07	1.000000	1.08674e-07	0.999999
rad33	9.59483e-08	1.000000	9.60304e-08	0.999999
rad47	6.62456e-08	1.000000	6.63023e-08	0.999999
rad54	6.60454e-08	1.000000	6.61019e-08	0.999999
rad34	5.90702e-08	1.000000	5.91207e-08	1.000000
rad51	4.00223e-08	1.000000	4.00564e-08	1.000000
rad61	3.92670e-08	1.000000	3.93005e-08	1.000000
PAH8+H	3.05342e-08	1.000000	3.05603e-08	1.000000
rad41	1.45060e-08	1.000000	1.45183e-08	1.000000
rad52	1.10941e-08	1.000000	1.11037e-08	1.000000
rad14	6.59162e-09	1.000000	6.59726e-09	1.000000
rad62	5.73852e-09	1.000000	5.74342e-09	1.000000
rad68syn	5.67150e-09	1.000000	5.67635e-09	1.000000
rad55	5.29850e-09	1.000000	5.30303e-09	1.000000
rad40syn	4.31325e-09	1.000000	4.31695e-09	1.000000
rad68anti	3.68124e-09	1.000000	3.68439e-09	1.000000
rad40anti	3.37656e-09	1.000000	3.37945e-09	1.000000
rad56	2.30486e-09	1.000000	2.30683e-09	1.000000
rad53	1.95921e-09	1.000000	1.96088e-09	1.000000
rad65	1.24484e-09	1.000000	1.24590e-09	1.000000
rad71	8.00854e-10	1.000000	8.01540e-10	1.000000
rad64	8.00759e-10	1.000000	8.01444e-10	1.000000
rad73	6.19007e-10	1.000000	6.19536e-10	1.000000
rad42	5.64725e-10	1.000000	5.65208e-10	1.000000
rad72	2.42766e-11	1.000000	2.42974e-11	1.000000

100000000. Pa, 1000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.07591e-12 (1.00)	2.07409e-12 (1.00)
Formation of rad19	1.74189e-12 (0.839)	1.74014e-12 (0.839)
H-abstraction to cyc2enyl	2.68753e-13 (0.129)	2.68753e-13 (0.130)
H-abstraction to cyclenyl	6.52627e-14 (0.0314)	6.51972e-14 (0.0314)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.759344	0.759344	0.760009	0.760009
Benzene+cycloprop-2-enylidene	0.129463	0.888807	0.129576	0.889585
Benzene+cycloprop-1-enylidene	0.0314382	0.920245	0.0314341	0.921019
rad19anti	0.0168046	0.937050	0.0168193	0.937839
Indene+H	0.0132484	0.950298	0.0132601	0.951099
PhCHCCH2+H	0.0125049	0.962803	0.0125158	0.963614
PhcycC3H3_B+H	0.0111350	0.973938	0.0111448	0.974759
PhcycC3H3_A+H	0.00943038	0.983369	0.00943863	0.984198
rad12	0.00769287	0.991062	0.00769961	0.991897
rad8	0.00231860	0.993380	0.00232063	0.994218
rad15	0.00165431	0.995035	0.00165575	0.995874
rad19syn	0.00150043	0.996535	0.00150175	0.997376
Phenyl+cycC3H4	0.000843143	0.997378	0.000000	0.997376
C2H2+PhCH2	0.000365540	0.997744	0.000365860	0.997741
Ph+MeAc	0.000352510	0.998096	0.000352819	0.998094
PhCH2CCH+H	0.000330533	0.998427	0.000330822	0.998425
Ph+Allene	0.000293529	0.998720	0.000293786	0.998719
rad6	0.000223332	0.998944	0.000223528	0.998942
rad67	0.000170149	0.999114	0.000170298	0.999113
rad2	0.000140578	0.999254	0.000140701	0.999253
PhCCCH3+H	0.000121956	0.999376	0.000122063	0.999375
rad21	0.000105952	0.999482	0.000106045	0.999481
rad45	9.79321e-05	0.999580	9.80175e-05	0.999579
PhCCH+CH3	7.73022e-05	0.999657	7.73699e-05	0.999657
rad11	6.07812e-05	0.999718	6.08345e-05	0.999718

rad35	6.07698e-05	0.999779	6.08230e-05	0.999779
rad1	5.19131e-05	0.999831	5.19585e-05	0.999830
rad26	3.34998e-05	0.999864	3.35291e-05	0.999864
rad22	2.41196e-05	0.999888	2.41407e-05	0.999888
rad20	2.08518e-05	0.999909	2.08700e-05	0.999909
rad23	1.47613e-05	0.999924	1.47742e-05	0.999924
rad10	1.29323e-05	0.999937	1.29436e-05	0.999937
rad36	1.04840e-05	0.999948	1.04932e-05	0.999947
PAH10+CH3	1.03799e-05	0.999958	1.03890e-05	0.999958
rad7	8.86357e-06	0.999967	8.87139e-06	0.999966
rad24	6.80424e-06	0.999974	6.81020e-06	0.999973
PAH3+H	6.01331e-06	0.999980	6.01857e-06	0.999979
rad37	4.12096e-06	0.999984	4.12456e-06	0.999983
PAH7+H	2.80743e-06	0.999987	2.80989e-06	0.999986
rad18	2.80107e-06	0.999989	2.80353e-06	0.999989
rad30	2.68564e-06	0.999992	2.68799e-06	0.999992
rad28	1.06928e-06	0.999993	1.07021e-06	0.999993
rad38	1.03134e-06	0.999994	1.03225e-06	0.999994
rad13	9.33934e-07	0.999995	9.34752e-07	0.999995
rad3	6.75404e-07	0.999996	6.75996e-07	0.999995
rad59	5.39848e-07	0.999996	5.40321e-07	0.999996
rad4	5.30585e-07	0.999997	5.31049e-07	0.999997
rad25	4.88687e-07	0.999997	4.89114e-07	0.999997
rad5	4.25403e-07	0.999998	4.25775e-07	0.999997
PAH9+H	4.19825e-07	0.999998	4.20192e-07	0.999998
rad60syn	3.77492e-07	0.999998	3.77823e-07	0.999998
rad60anti	2.39784e-07	0.999999	2.39994e-07	0.999998
rad39	2.22528e-07	0.999999	2.22723e-07	0.999999
PAH1+H	2.20109e-07	0.999999	2.20301e-07	0.999999
rad33	2.04676e-07	0.999999	2.04855e-07	0.999999
rad27	1.91854e-07	1.000000	1.92022e-07	0.999999
rad31	1.38476e-07	1.000000	1.38598e-07	0.999999
rad70	1.17939e-07	1.000000	1.18042e-07	1.000000
rad43	8.91677e-08	1.000000	8.92458e-08	1.000000
rad58	7.77176e-08	1.000000	7.77856e-08	1.000000
rad50	7.05333e-08	1.000000	7.05951e-08	1.000000
rad46	6.03342e-08	1.000000	6.03870e-08	1.000000
rad54	4.43634e-08	1.000000	4.44023e-08	1.000000
rad47	3.57323e-08	1.000000	3.57636e-08	1.000000
rad34	3.30779e-08	1.000000	3.31069e-08	1.000000
rad61	2.38550e-08	1.000000	2.38759e-08	1.000000
rad51	2.20993e-08	1.000000	2.21186e-08	1.000000
PAH8+H	1.71555e-08	1.000000	1.71705e-08	1.000000
rad41	8.29124e-09	1.000000	8.29850e-09	1.000000
rad14	6.37471e-09	1.000000	6.38029e-09	1.000000
rad52	6.11735e-09	1.000000	6.12270e-09	1.000000
rad55	3.56115e-09	1.000000	3.56427e-09	1.000000
rad62	3.40818e-09	1.000000	3.41116e-09	1.000000
rad68syn	3.16265e-09	1.000000	3.16542e-09	1.000000
rad40syn	2.43217e-09	1.000000	2.43429e-09	1.000000
rad68anti	2.05287e-09	1.000000	2.05467e-09	1.000000
rad40anti	1.90981e-09	1.000000	1.91149e-09	1.000000
rad56	1.55884e-09	1.000000	1.56019e-09	1.000000
rad53	1.32188e-09	1.000000	1.32304e-09	1.000000
rad65	7.27439e-10	1.000000	7.28076e-10	1.000000
rad64	5.09577e-10	1.000000	5.10023e-10	1.000000
rad71	4.57785e-10	1.000000	4.58185e-10	1.000000
rad73	3.52364e-10	1.000000	3.52673e-10	1.000000
rad42	3.36127e-10	1.000000	3.36421e-10	1.000000
rad72	1.39799e-11	1.000000	1.39921e-11	1.000000

100000000. Pa, 1100.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.81236e-12 (1.00)	2.80998e-12 (1.00)
Formation of rad19	2.25993e-12 (0.804)	2.25767e-12 (0.803)
H-abstraction to cyc2enyl	4.30538e-13 (0.153)	4.30538e-13 (0.153)
H-abstraction to cyc1enyl	1.21896e-13 (0.0433)	1.21774e-13 (0.0433)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.731738	0.731738	0.732359	0.732359
Benzene+cycloprop-2-enylidene	0.153088	0.884825	0.153218	0.885576
Benzene+cycloprop-1-enylidene	0.0433429	0.928168	0.0433363	0.928913
rad19anti	0.0151662	0.943334	0.0151791	0.944092
PhcycC3H3_B+H	0.0106442	0.953979	0.0106533	0.954745
Indene+H	0.0102088	0.964187	0.0102174	0.964963
PhCHCCH2+H	0.00992047	0.974108	0.00992883	0.974891
PhcycC3H3_A+H	0.00901227	0.983120	0.00901997	0.983911

rad12	0.00742795	0.990548	0.00743426	0.991346
rad8	0.00375027	0.994298	0.00375344	0.995099
rad15	0.00143364	0.995732	0.00143485	0.996534
rad19syn	0.00135160	0.997084	0.00135275	0.997887
Phenyl+cycC3H4	0.000804582	0.997888	0.000000	0.997887
Ph+MeAc	0.000280458	0.998169	0.000280696	0.998167
PhCH2CCH+H	0.000252057	0.998421	0.000252272	0.998420
C2H2+PhCH2	0.000248050	0.998669	0.000248260	0.998668
Ph+Allene	0.000228165	0.998897	0.000228359	0.998896
rad6	0.000171460	0.999068	0.000171606	0.999068
rad21	0.000157270	0.999226	0.000157404	0.999225
rad67	0.000134762	0.999360	0.000134876	0.999360
rad2	0.000111861	0.999472	0.000111955	0.999472
PhCCCH3+H	9.70704e-05	0.999569	9.71527e-05	0.999569
rad11	6.87937e-05	0.999638	6.88521e-05	0.999638
rad45	6.70032e-05	0.999705	6.70600e-05	0.999705
PhCCH+CH3	6.13573e-05	0.999766	6.14094e-05	0.999767
rad35	4.81193e-05	0.999815	4.81602e-05	0.999815
rad1	3.92005e-05	0.999854	3.92338e-05	0.999854
rad20	2.65921e-05	0.999880	2.66147e-05	0.999881
rad26	2.36222e-05	0.999904	2.36423e-05	0.999904
rad22	1.85813e-05	0.999923	1.85970e-05	0.999923
rad10	1.03295e-05	0.999933	1.03383e-05	0.999933
rad7	1.01601e-05	0.999943	1.01687e-05	0.999943
rad23	9.83384e-06	0.999953	9.84213e-06	0.999953
PAH10+CH3	8.80013e-06	0.999962	8.80762e-06	0.999962
rad36	6.97530e-06	0.999969	6.98122e-06	0.999969
rad24	6.54704e-06	0.999975	6.55259e-06	0.999975
PAH3+H	4.60148e-06	0.999980	4.60538e-06	0.999980
rad18	3.63840e-06	0.999983	3.64149e-06	0.999984
rad37	3.43193e-06	0.999987	3.43484e-06	0.999987
PAH7+H	2.10536e-06	0.999989	2.10714e-06	0.999989
rad30	2.05585e-06	0.999991	2.05759e-06	0.999991
rad13	1.98197e-06	0.999993	1.98365e-06	0.999993
rad25	9.11352e-07	0.999994	9.12128e-07	0.999994
rad38	8.48722e-07	0.999995	8.49443e-07	0.999995
rad28	7.81005e-07	0.999996	7.81668e-07	0.999996
rad3	5.25072e-07	0.999996	5.25517e-07	0.999996
rad59	4.13048e-07	0.999996	4.13398e-07	0.999997
rad4	4.04500e-07	0.999997	4.04844e-07	0.999997
rad33	3.84487e-07	0.999997	3.84814e-07	0.999998
rad27	3.53115e-07	0.999998	3.53415e-07	0.999998
PAH9+H	3.13101e-07	0.999998	3.13367e-07	0.999998
rad5	3.09519e-07	0.999998	3.09782e-07	0.999999
rad60syn	2.88812e-07	0.999999	2.89058e-07	0.999999
rad39	1.84265e-07	0.999999	1.84421e-07	0.999999
rad60anti	1.83453e-07	0.999999	1.83609e-07	0.999999
PAH1+H	1.83117e-07	0.999999	1.83272e-07	0.999999
rad31	1.05985e-07	0.999999	1.06075e-07	0.999999
rad70	7.89719e-08	0.999999	7.90389e-08	1.000000
rad43	6.20099e-08	0.999999	6.20625e-08	1.000000
rad58	5.95106e-08	0.999999	5.95611e-08	1.000000
rad50	5.06123e-08	0.999999	5.06553e-08	1.000000
rad46	4.31698e-08	0.999999	4.32065e-08	1.000000
rad54	3.50768e-08	1.000000	3.51067e-08	1.000000
rad47	2.43618e-08	1.000000	2.43825e-08	1.000000
rad34	2.20749e-08	1.000000	2.20936e-08	1.000000
rad61	2.05749e-08	1.000000	2.05924e-08	1.000000
rad51	1.57704e-08	1.000000	1.57838e-08	1.000000
PAH8+H	1.14975e-08	1.000000	1.15073e-08	1.000000
rad14	1.04871e-08	1.000000	1.04960e-08	1.000000
rad41	5.73491e-09	1.000000	5.73977e-09	1.000000
rad52	4.36272e-09	1.000000	4.36642e-09	1.000000
rad55	2.81591e-09	1.000000	2.81830e-09	1.000000
rad62	2.43438e-09	1.000000	2.43644e-09	1.000000
rad68syn	2.09523e-09	1.000000	2.09700e-09	1.000000
rad40syn	1.64028e-09	1.000000	1.64167e-09	1.000000
rad68anti	1.36011e-09	1.000000	1.36126e-09	1.000000
rad40anti	1.29426e-09	1.000000	1.29536e-09	1.000000
rad56	1.23755e-09	1.000000	1.23861e-09	1.000000
rad53	1.04758e-09	1.000000	1.04847e-09	1.000000
rad65	5.52949e-10	1.000000	5.53419e-10	1.000000
rad64	4.43998e-10	1.000000	4.44374e-10	1.000000
rad71	3.34560e-10	1.000000	3.34845e-10	1.000000
rad73	2.56818e-10	1.000000	2.57037e-10	1.000000
rad42	2.39374e-10	1.000000	2.39576e-10	1.000000
rad72	1.02655e-11	1.000000	1.02742e-11	1.000000

100000000. Pa, 1200.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.72623e-12 (1.00)	3.72310e-12 (1.00)
Formation of rad19	2.86288e-12 (0.768)	2.85996e-12 (0.768)
H-abstraction to cyc2enyl	6.53266e-13 (0.175)	6.53266e-13 (0.175)
H-abstraction to cyc1enyl	2.10085e-13 (0.0564)	2.09871e-13 (0.0564)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.700082	0.700082	0.700671	0.700671
Benzene+cycloprop-2-enylidene	0.175315	0.875398	0.175463	0.876134
Benzene+cycloprop-1-enylidene	0.0563801	0.931778	0.0563700	0.932504
rad19anti	0.0136061	0.945384	0.0136175	0.946122
PhcycC3H3_B+H	0.0100862	0.955470	0.0100946	0.956216
PhCHCCH2+H	0.00901583	0.964486	0.00902343	0.965240
Indene+H	0.00884780	0.973333	0.00885528	0.974095
PhcycC3H3_A+H	0.00854332	0.981877	0.00855055	0.982646
rad12	0.00708478	0.988962	0.00709075	0.989736
rad8	0.00520185	0.994163	0.00520622	0.994943
rad15	0.00190596	0.996069	0.00190757	0.996850
rad19syn	0.00120297	0.997272	0.00120398	0.998054
Phenyl+cycC3H4	0.000783855	0.998056	0.000000	0.998054
Ph+MeAc	0.000256565	0.998313	0.000256781	0.998311
PhCH2CCH+H	0.000209834	0.998523	0.000210011	0.998521
C2H2+PhCH2	0.000196316	0.998719	0.000196481	0.998717
Ph+Allene	0.000193544	0.998912	0.000193707	0.998911
rad21	0.000187730	0.999100	0.000187888	0.999099
rad6	0.000140405	0.999241	0.000140524	0.999240
rad11	0.000119261	0.999360	0.000119362	0.999359
rad67	0.000118510	0.999478	0.000118610	0.999478
rad2	9.89046e-05	0.999577	9.89876e-05	0.999577
PhCCCH3+H	8.87361e-05	0.999666	8.88109e-05	0.999665
PhCCH+CH3	5.64751e-05	0.999722	5.65226e-05	0.999722
rad45	5.42535e-05	0.999777	5.42992e-05	0.999776
rad35	4.22997e-05	0.999819	4.23353e-05	0.999818
rad1	3.36244e-05	0.999853	3.36527e-05	0.999852
rad20	2.98353e-05	0.999882	2.98604e-05	0.999882
rad26	1.95218e-05	0.999902	1.95383e-05	0.999902
rad7	1.54137e-05	0.999917	1.54266e-05	0.999917
rad22	1.44199e-05	0.999932	1.44321e-05	0.999931
rad10	1.20359e-05	0.999944	1.20460e-05	0.999943
PAH10+CH3	8.56091e-06	0.999952	8.56814e-06	0.999952
rad23	7.60907e-06	0.999960	7.61547e-06	0.999960
rad18	7.32786e-06	0.999967	7.33403e-06	0.999967
rad24	5.98711e-06	0.999973	5.99215e-06	0.999973
rad36	5.57891e-06	0.999979	5.58361e-06	0.999979
rad13	3.91513e-06	0.999983	3.91843e-06	0.999982
PAH3+H	3.75966e-06	0.999987	3.76283e-06	0.999986
rad37	3.28751e-06	0.999990	3.29028e-06	0.999990
PAH7+H	1.77649e-06	0.999992	1.77798e-06	0.999991
rad30	1.69782e-06	0.999993	1.69925e-06	0.999993
rad25	1.42255e-06	0.999995	1.42375e-06	0.999994
rad38	8.08810e-07	0.999996	8.09487e-07	0.999995
rad28	6.40514e-07	0.999996	6.41054e-07	0.999996
rad27	5.69242e-07	0.999997	5.69721e-07	0.999996
rad33	5.27632e-07	0.999997	5.28076e-07	0.999997
rad3	4.57360e-07	0.999998	4.57745e-07	0.999997
rad4	3.49294e-07	0.999998	3.49588e-07	0.999998
rad59	3.37876e-07	0.999998	3.38160e-07	0.999998
PAH9+H	2.81360e-07	0.999999	2.81597e-07	0.999998
rad5	2.77531e-07	0.999999	2.77765e-07	0.999999
rad60syn	2.36964e-07	0.999999	2.37163e-07	0.999999
PAH1+H	1.74388e-07	0.999999	1.74534e-07	0.999999
rad39	1.74023e-07	1.000000	1.74170e-07	0.999999
rad60anti	1.50468e-07	1.000000	1.50595e-07	0.999999
rad31	9.15450e-08	1.000000	9.16224e-08	0.999999
rad70	5.49073e-08	1.000000	5.49535e-08	1.000000
rad58	4.84511e-08	1.000000	4.84919e-08	1.000000
rad43	4.71471e-08	1.000000	4.71868e-08	1.000000
rad50	4.33208e-08	1.000000	4.33573e-08	1.000000
rad46	3.69025e-08	1.000000	3.69336e-08	1.000000
rad54	3.12668e-08	1.000000	3.12931e-08	1.000000
rad61	2.02955e-08	1.000000	2.03126e-08	1.000000
rad47	1.97679e-08	1.000000	1.97845e-08	1.000000
rad14	1.74140e-08	1.000000	1.74286e-08	1.000000
rad34	1.53240e-08	1.000000	1.53368e-08	1.000000
rad51	1.34827e-08	1.000000	1.34941e-08	1.000000
PAH8+H	8.25036e-09	1.000000	8.25734e-09	1.000000
rad41	4.35434e-09	1.000000	4.35801e-09	1.000000
rad52	3.72877e-09	1.000000	3.73190e-09	1.000000

rad55	2.51419e-09	1.00000	2.51631e-09	1.000000
rad62	1.81129e-09	1.00000	1.81281e-09	1.000000
rad68syn	1.45145e-09	1.00000	1.45267e-09	1.000000
rad40syn	1.19119e-09	1.00000	1.19219e-09	1.000000
rad56	1.11662e-09	1.00000	1.11755e-09	1.000000
rad40anti	9.50777e-10	1.00000	9.51575e-10	1.000000
rad68anti	9.42211e-10	1.00000	9.43002e-10	1.000000
rad53	9.41934e-10	1.00000	9.42726e-10	1.000000
rad65	5.06572e-10	1.00000	5.06998e-10	1.000000
rad64	4.38229e-10	1.00000	4.38598e-10	1.000000
rad71	2.91012e-10	1.00000	2.91258e-10	1.000000
rad73	2.22924e-10	1.00000	2.23112e-10	1.000000
rad42	1.77762e-10	1.00000	1.77911e-10	1.000000
rad72	8.96158e-12	1.00000	8.96912e-12	1.000000

100000000. Pa, 1300.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.84401e-12 (1.00)	4.83963e-12 (1.00)
Formation of rad19	3.55537e-12 (0.734)	3.55138e-12 (0.734)
H-abstraction to cyc2enyl	9.48893e-13 (0.196)	9.48893e-13 (0.196)
H-abstraction to cyclenyl	3.39740e-13 (0.0701)	3.39359e-13 (0.0701)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.667359	0.667359	0.667962	0.667962
Benzene+cycloprop-2-enylidene	0.195890	0.863249	0.196067	0.864029
Benzene+cycloprop-1-enylidene	0.0701362	0.933385	0.0701208	0.934150
rad19anti	0.0121924	0.945578	0.0122034	0.946353
PhcycC3H3_B+H	0.00952712	0.955105	0.00953574	0.955889
PhCHCCH2+H	0.00865362	0.963758	0.00866140	0.964550
PhcycC3H3_A+H	0.00807775	0.971836	0.00808507	0.972636
Indene+H	0.00780243	0.979639	0.00780952	0.980445
rad12	0.00674625	0.986385	0.00675235	0.987197
rad8	0.00636873	0.992754	0.00637449	0.993572
rad15	0.00346331	0.996217	0.00346644	0.997038
rad19syn	0.00106714	0.997284	0.00106810	0.998106
Phenyl+cycC3H4	0.000824568	0.998109	0.00080000	0.998106
Ph+MeAc	0.000247810	0.998356	0.000248034	0.998354
rad11	0.000217798	0.998574	0.000217995	0.998572
rad21	0.000197844	0.998772	0.000198024	0.998771
PhCH2CCH+H	0.000170584	0.998943	0.000170738	0.998941
C2H2+PhCH2	0.000170415	0.999113	0.000170569	0.999112
Ph+Allene	0.000160103	0.999273	0.000160248	0.999272
rad6	0.000110101	0.999383	0.000110201	0.999382
rad67	0.000104182	0.999487	0.000104276	0.999487
rad2	9.10648e-05	0.999579	9.11468e-05	0.999578
PhCCCH3+H	8.55894e-05	0.999664	8.56667e-05	0.999663
PhCCH+CH3	5.48758e-05	0.999719	5.49255e-05	0.999718
rad45	4.85173e-05	0.999768	4.85612e-05	0.999767
rad35	3.71671e-05	0.999805	3.72007e-05	0.999804
rad1	3.04962e-05	0.999835	3.05238e-05	0.999835
rad20	3.03874e-05	0.999866	3.04149e-05	0.999865
rad7	2.73867e-05	0.999893	2.74114e-05	0.999892
rad26	1.82078e-05	0.999911	1.82242e-05	0.999911
rad10	1.60649e-05	0.999927	1.60794e-05	0.999927
rad18	1.49613e-05	0.999942	1.49748e-05	0.999942
rad22	1.16394e-05	0.999954	1.16499e-05	0.999953
PAH10+CH3	8.37464e-06	0.999962	8.38219e-06	0.999962
rad23	6.26438e-06	0.999968	6.27005e-06	0.999968
rad24	5.48121e-06	0.999974	5.48617e-06	0.999973
rad13	5.44272e-06	0.999979	5.44764e-06	0.999979
rad36	4.96188e-06	0.999984	4.96637e-06	0.999984
rad37	3.17469e-06	0.999988	3.17756e-06	0.999987
PAH3+H	2.94180e-06	0.999990	2.94446e-06	0.999990
rad25	1.56973e-06	0.999992	1.57115e-06	0.999992
PAH7+H	1.55928e-06	0.999994	1.56069e-06	0.999993
rad30	1.34195e-06	0.999995	1.34317e-06	0.999994
rad38	7.85080e-07	0.999996	7.85788e-07	0.999995
rad27	7.18787e-07	0.999996	7.19437e-07	0.999996
rad33	5.62487e-07	0.999997	5.62996e-07	0.999997
rad28	5.35163e-07	0.999998	5.35647e-07	0.999997
rad3	4.14751e-07	0.999998	4.15126e-07	0.999997
rad4	3.15498e-07	0.999998	3.15783e-07	0.999998
rad5	3.14205e-07	0.999999	3.14488e-07	0.999998
PAH9+H	2.78312e-07	0.999999	2.78564e-07	0.999998
rad59	2.64624e-07	0.999999	2.64863e-07	0.999999
rad60syn	1.86091e-07	0.999999	1.86259e-07	0.999999
PAH1+H	1.69295e-07	0.999999	1.69449e-07	0.999999

rad39	1.66999e-07	1.000000	1.67150e-07	0.999999
rad60anti	1.18127e-07	1.000000	1.18234e-07	0.999999
rad31	8.31644e-08	1.000000	8.32392e-08	0.999999
rad50	4.09504e-08	1.000000	4.09874e-08	0.999999
rad43	3.98460e-08	1.000000	3.98819e-08	0.999999
rad70	3.90042e-08	1.000000	3.90394e-08	1.000000
rad58	3.78123e-08	1.000000	3.78466e-08	1.000000
rad46	3.48618e-08	1.000000	3.48933e-08	1.000000
rad54	2.85128e-08	1.000000	2.85386e-08	1.000000
rad14	2.29133e-08	1.000000	2.29340e-08	1.000000
rad61	2.00605e-08	1.000000	2.00786e-08	1.000000
rad47	1.77458e-08	1.000000	1.77618e-08	1.000000
rad51	1.27551e-08	1.000000	1.27666e-08	1.000000
rad34	1.09051e-08	1.000000	1.09150e-08	1.000000
PAH8+H	6.37321e-09	1.000000	6.37897e-09	1.000000
rad41	3.69829e-09	1.000000	3.70163e-09	1.000000
rad52	3.52702e-09	1.000000	3.53021e-09	1.000000
rad55	2.29861e-09	1.000000	2.30069e-09	1.000000
rad62	1.43287e-09	1.000000	1.43417e-09	1.000000
rad68syn	1.03952e-09	1.000000	1.04046e-09	1.000000
rad56	1.03475e-09	1.000000	1.03569e-09	1.000000
rad40syn	9.40426e-10	1.000000	9.41275e-10	1.000000
rad53	8.69289e-10	1.000000	8.70074e-10	1.000000
rad40anti	7.66826e-10	1.000000	7.67523e-10	1.000000
rad68anti	6.74741e-10	1.000000	6.75351e-10	1.000000
rad65	5.10515e-10	1.000000	5.10976e-10	1.000000
rad64	4.34408e-10	1.000000	4.34801e-10	1.000000
rad71	2.79110e-10	1.000000	2.79362e-10	1.000000
rad73	2.13426e-10	1.000000	2.13619e-10	1.000000
rad42	1.41051e-10	1.000000	1.41178e-10	1.000000
rad72	8.62133e-12	1.000000	8.62911e-12	1.000000

100000000. Pa, 1400.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.19360e-12 (1.00)	6.18686e-12 (1.00)
Formation of rad19	4.34185e-12 (0.701)	4.33584e-12 (0.701)
H-abstraction to cyc2enyl	1.32990e-12 (0.215)	1.32990e-12 (0.215)
H-abstraction to cyclenyl	5.21850e-13 (0.0843)	5.21128e-13 (0.0842)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.634690	0.634690	0.635381	0.635381
Benzene+cycloprop-2-enylidene	0.214721	0.849411	0.214955	0.850336
Benzene+cycloprop-1-enylidene	0.0842564	0.933668	0.0842313	0.934567
rad19anti	0.0109328	0.944601	0.0109447	0.945512
PhcycC3H3_B+H	0.00900856	0.953609	0.00901842	0.954530
PhCHCCH2+H	0.00847971	0.962089	0.00848896	0.963019
PhcycC3H3_A+H	0.00764956	0.969738	0.00765786	0.970677
rad8	0.00715912	0.976898	0.00716687	0.977844
Indene+H	0.00659025	0.983488	0.00659743	0.984441
rad12	0.00641926	0.989907	0.00642624	0.990868
rad15	0.00629989	0.996207	0.00630675	0.997174
Phenyl+cycC3H4	0.000970565	0.997178	0.000000	0.997174
rad19syn	0.000947411	0.998125	0.000948439	0.998123
rad11	0.000319040	0.998444	0.000319387	0.998442
Ph+MeAc	0.000244353	0.998688	0.000244618	0.998687
rad21	0.000196705	0.998885	0.000196919	0.998884
C2H2+PhCH2	0.000156398	0.999041	0.000156569	0.999040
PhCH2CCH+H	0.000136912	0.999178	0.000137062	0.999177
Ph+Allene	0.000128576	0.999307	0.000128716	0.999306
rad67	8.75402e-05	0.999394	8.76354e-05	0.999394
rad6	8.68672e-05	0.999481	8.69619e-05	0.999481
rad2	8.53600e-05	0.999567	8.54523e-05	0.999566
PhCCCH3+H	8.42916e-05	0.999651	8.43836e-05	0.999650
PhCCH+CH3	5.42267e-05	0.999705	5.42857e-05	0.999705
rad7	4.59081e-05	0.999751	4.59581e-05	0.999751
rad45	4.55596e-05	0.999797	4.56092e-05	0.999796
rad35	3.12181e-05	0.999828	3.12521e-05	0.999828
rad20	2.94706e-05	0.999857	2.95026e-05	0.999857
rad1	2.83639e-05	0.999886	2.83948e-05	0.999885
rad18	2.21860e-05	0.999908	2.22101e-05	0.999908
rad26	2.03935e-05	0.999928	2.04157e-05	0.999928
rad10	1.88869e-05	0.999947	1.89074e-05	0.999947
rad22	1.11038e-05	0.999958	1.11158e-05	0.999958
PAH10+CH3	7.45944e-06	0.999966	7.46759e-06	0.999966
rad23	5.47715e-06	0.999971	5.48311e-06	0.999971
rad13	5.30166e-06	0.999977	5.30743e-06	0.999976
rad24	5.08015e-06	0.999982	5.08568e-06	0.999981

rad36	4.64652e-06	0.999986	4.65158e-06	0.999986
rad37	2.80304e-06	0.999989	2.80610e-06	0.999989
PAH3+H	2.17569e-06	0.999991	2.17806e-06	0.999991
rad25	1.41828e-06	0.999993	1.41983e-06	0.999993
PAH7+H	1.32322e-06	0.999994	1.32466e-06	0.999994
rad30	9.91743e-07	0.999995	9.92822e-07	0.999995
rad27	7.87129e-07	0.999996	7.87988e-07	0.999996
rad38	7.06175e-07	0.999997	7.06946e-07	0.999996
rad5	4.81940e-07	0.999997	4.82464e-07	0.999997
rad33	4.77204e-07	0.999997	4.77724e-07	0.999997
rad28	4.64254e-07	0.999998	4.64759e-07	0.999998
rad3	3.80527e-07	0.999998	3.80941e-07	0.999998
rad4	2.88680e-07	0.999999	2.88993e-07	0.999998
PAH9+H	2.79948e-07	0.999999	2.80253e-07	0.999999
rad59	1.95614e-07	0.999999	1.95827e-07	0.999999
PAH1+H	1.51780e-07	0.999999	1.51945e-07	0.999999
rad39	1.46692e-07	0.999999	1.46851e-07	0.999999
rad60syn	1.37481e-07	1.000000	1.37631e-07	0.999999
rad60anti	8.72745e-08	1.000000	8.73697e-08	0.999999
rad31	7.72856e-08	1.000000	7.73698e-08	1.000000
rad50	4.05371e-08	1.000000	4.05812e-08	1.000000
rad43	3.68250e-08	1.000000	3.68650e-08	1.000000
rad46	3.44993e-08	1.000000	3.45369e-08	1.000000
rad70	2.93926e-08	1.000000	2.94246e-08	1.000000
rad58	2.80259e-08	1.000000	2.80564e-08	1.000000
rad14	2.53141e-08	1.000000	2.53417e-08	1.000000
rad54	2.34870e-08	1.000000	2.35126e-08	1.000000
rad61	1.79867e-08	1.000000	1.80062e-08	1.000000
rad47	1.67291e-08	1.000000	1.67473e-08	1.000000
rad51	1.26438e-08	1.000000	1.26576e-08	1.000000
rad34	8.24697e-09	1.000000	8.25594e-09	1.000000
PAH8+H	5.36241e-09	1.000000	5.36825e-09	1.000000
rad52	3.49594e-09	1.000000	3.49974e-09	1.000000
rad41	3.44020e-09	1.000000	3.44395e-09	1.000000
rad55	1.89760e-09	1.000000	1.89967e-09	1.000000
rad62	1.24352e-09	1.000000	1.24487e-09	1.000000
rad56	8.63723e-10	1.000000	8.64664e-10	1.000000
rad40syn	8.11398e-10	1.000000	8.12285e-10	1.000000
rad68syn	7.94230e-10	1.000000	7.95094e-10	1.000000
rad53	7.23224e-10	1.000000	7.24011e-10	1.000000
rad40anti	6.77245e-10	1.000000	6.77982e-10	1.000000
rad65	5.23034e-10	1.000000	5.23603e-10	1.000000
rad68anti	5.15459e-10	1.000000	5.16020e-10	1.000000
rad64	3.86207e-10	1.000000	3.86626e-10	1.000000
rad71	2.79962e-10	1.000000	2.80266e-10	1.000000
rad73	2.13731e-10	1.000000	2.13964e-10	1.000000
rad42	1.23130e-10	1.000000	1.23264e-10	1.000000
rad72	8.67137e-12	1.000000	8.68084e-12	1.000000

10000000. Pa, 1500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.80417e-12 (1.00)	7.79284e-12 (1.00)
Formation of rad19	5.22661e-12 (0.670)	5.21673e-12 (0.669)
H-abstraction to cyc2enyl	1.80920e-12 (0.232)	1.80920e-12 (0.232)
H-abstraction to cyclenyl	7.68359e-13 (0.0985)	7.66906e-13 (0.0984)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.603226	0.603226	0.604104	0.604104
Benzene+cycloprop-2-enylidene	0.231825	0.835051	0.232162	0.836266
Benzene+cycloprop-1-enylidene	0.0984549	0.933506	0.0984117	0.934677
rad19anti	0.00981642	0.943323	0.00983066	0.944508
rad15	0.00924991	0.952572	0.00926339	0.953771
PhcycC3H3_B+H	0.00856371	0.961136	0.00857622	0.962348
PhCHCCH2+H	0.00838048	0.969517	0.00839266	0.970740
rad8	0.00764285	0.977160	0.00765395	0.978394
PhcycC3H3_A+H	0.00728455	0.984444	0.00729514	0.985689
rad12	0.00610916	0.990553	0.00611805	0.991807
Indene+H	0.00546531	0.996019	0.00547326	0.997281
Phenyl+cycC3H4	0.00126607	0.997285	0.000000	0.997281
rad19syn	0.000843379	0.998128	0.000844602	0.998125
rad11	0.000379358	0.998507	0.000379910	0.998505
Ph+MeAc	0.000243120	0.998750	0.000243474	0.998749
rad21	0.000191800	0.998942	0.000192078	0.998941
C2H2+PhCH2	0.000149980	0.999092	0.000150198	0.999091
PhCH2CCH+H	0.000117269	0.999210	0.000117439	0.999208
Ph+Allene	0.000107058	0.999317	0.000107214	0.999316
PhCCCH3+H	8.38048e-05	0.999400	8.39266e-05	0.999400

rad2	8.08888e-05	0.999481	8.10059e-05	0.999481
rad6	8.03972e-05	0.999562	8.05139e-05	0.999561
rad67	7.30705e-05	0.999635	7.31770e-05	0.999634
rad7	6.72145e-05	0.999702	6.73122e-05	0.999702
PhCCH+CH3	5.37106e-05	0.999756	5.37887e-05	0.999755
rad45	4.36703e-05	0.999799	4.37338e-05	0.999799
rad20	2.83416e-05	0.999828	2.83828e-05	0.999827
rad1	2.67478e-05	0.999854	2.67867e-05	0.999854
rad26	2.61312e-05	0.999881	2.61692e-05	0.999880
rad35	2.60537e-05	0.999907	2.60916e-05	0.999907
rad18	2.47146e-05	0.999931	2.47506e-05	0.999931
rad10	1.87340e-05	0.999950	1.87612e-05	0.999950
rad22	1.35747e-05	0.999964	1.35944e-05	0.999964
PAH10+CH3	5.63309e-06	0.999969	5.64128e-06	0.999969
rad23	5.62840e-06	0.999975	5.63658e-06	0.999975
rad24	4.78277e-06	0.999980	4.78972e-06	0.999980
rad36	4.44534e-06	0.999984	4.45181e-06	0.999984
rad13	4.02248e-06	0.999988	4.02833e-06	0.999988
rad37	2.10795e-06	0.999990	2.11102e-06	0.999990
PAH3+H	1.67208e-06	0.999992	1.67451e-06	0.999992
rad25	1.25389e-06	0.999993	1.25571e-06	0.999993
PAH7+H	1.03612e-06	0.999994	1.03762e-06	0.999994
rad5	9.83625e-07	0.999995	9.85054e-07	0.999995
rad27	8.05814e-07	0.999996	8.06987e-07	0.999996
rad30	7.54252e-07	0.999997	7.55347e-07	0.999997
rad38	5.54359e-07	0.999997	5.55165e-07	0.999997
rad28	4.44324e-07	0.999998	4.44970e-07	0.999998
rad3	3.52059e-07	0.999998	3.52571e-07	0.999998
rad33	3.37035e-07	0.999998	3.37525e-07	0.999998
rad4	2.66450e-07	0.999999	2.66837e-07	0.999999
PAH9+H	2.63459e-07	0.999999	2.63842e-07	0.999999
rad59	1.50098e-07	0.999999	1.50316e-07	0.999999
PAH1+H	1.17379e-07	0.999999	1.17550e-07	0.999999
rad39	1.09920e-07	0.999999	1.10080e-07	0.999999
rad60syn	1.05139e-07	0.999999	1.05292e-07	1.000000
rad31	7.27885e-08	1.000000	7.28945e-08	1.000000
rad60anti	6.67663e-08	1.000000	6.68634e-08	1.000000
rad50	4.08262e-08	1.000000	4.08856e-08	1.000000
rad43	3.56415e-08	1.000000	3.56933e-08	1.000000
rad46	3.47398e-08	1.000000	3.47904e-08	1.000000
rad14	2.56748e-08	1.000000	2.57121e-08	1.000000
rad70	2.46558e-08	1.000000	2.46917e-08	1.000000
rad58	2.16593e-08	1.000000	2.16908e-08	1.000000
rad54	1.68755e-08	1.000000	1.69000e-08	1.000000
rad47	1.60891e-08	1.000000	1.61125e-08	1.000000
rad61	1.36345e-08	1.000000	1.36544e-08	1.000000
rad51	1.27454e-08	1.000000	1.27640e-08	1.000000
rad34	6.94004e-09	1.000000	6.95012e-09	1.000000
PAH8+H	4.89595e-09	1.000000	4.90307e-09	1.000000
rad52	3.52386e-09	1.000000	3.52898e-09	1.000000
rad41	3.34507e-09	1.000000	3.34994e-09	1.000000
rad55	1.36529e-09	1.000000	1.36727e-09	1.000000
rad62	1.14828e-09	1.000000	1.14994e-09	1.000000
rad40syn	7.53442e-10	1.000000	7.54537e-10	1.000000
rad68syn	6.74348e-10	1.000000	6.75331e-10	1.000000
rad40anti	6.38477e-10	1.000000	6.39405e-10	1.000000
rad56	6.25684e-10	1.000000	6.26594e-10	1.000000
rad53	5.22845e-10	1.000000	5.23605e-10	1.000000
rad65	4.99256e-10	1.000000	4.99982e-10	1.000000
rad68anti	4.37606e-10	1.000000	4.38243e-10	1.000000
rad71	2.85342e-10	1.000000	2.85757e-10	1.000000
rad64	2.81666e-10	1.000000	2.82075e-10	1.000000
rad73	2.17512e-10	1.000000	2.17829e-10	1.000000
rad42	1.14248e-10	1.000000	1.14414e-10	1.000000
rad72	8.86047e-12	1.000000	8.87338e-12	1.000000

10000000.0 Pa, 20.0000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	1.24541e-22 (1.00)	1.24541e-22 (1.00)		
Formation of rad19	1.24541e-22 (1.00)	1.24541e-22 (1.00)		
H-abstraction to cyc2enyl	3.84323e-68 (3.09e-46)	3.84323e-68 (3.09e-46)		
H-abstraction to cyclenyl	6.26313e-106 (5.03e-84)	6.26313e-106 (5.03e-84)		
species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.983084	0.983084	0.983084	0.983084
rad9	0.0151076	0.998192	0.0151076	0.998192
rad8	0.00180782	0.999999	0.00180782	0.999999

rad19syn	1.83256e-07	1.000000	1.83256e-07	1.000000
rad12	1.39531e-07	1.000000	1.39531e-07	1.000000
rad15	1.00225e-07	1.000000	1.00225e-07	1.000000
rad7	4.55902e-11	1.000000	4.55902e-11	1.000000
Indene+H	1.18820e-11	1.000000	1.18820e-11	1.000000
PhCHCCH2+H	5.81631e-13	1.000000	5.81631e-13	1.000000
rad11	2.49403e-14	1.000000	2.49403e-14	1.000000
rad2	2.21916e-14	1.000000	2.21916e-14	1.000000
rad6	1.34708e-14	1.000000	1.34708e-14	1.000000
rad1	6.02557e-15	1.000000	6.02557e-15	1.000000
rad5	4.46693e-15	1.000000	4.46693e-15	1.000000
rad21	1.38417e-15	1.000000	1.38417e-15	1.000000
PhcycC3H3_A+H	9.74627e-16	1.000000	9.74627e-16	1.000000
rad20	5.14894e-16	1.000000	5.14894e-16	1.000000
rad26	1.94383e-16	1.000000	1.94383e-16	1.000000
rad18	7.26372e-17	1.000000	7.26372e-17	1.000000
Phenyl+cycC3H4	3.43288e-17	1.000000	0.00000	1.000000
rad22	4.09987e-18	1.000000	4.09987e-18	1.000000
rad24	8.96148e-19	1.000000	8.96148e-19	1.000000
rad67	6.48437e-19	1.000000	6.48437e-19	1.000000
rad35	3.02794e-19	1.000000	3.02794e-19	1.000000
C2H2+PhCH2	2.92727e-19	1.000000	2.92727e-19	1.000000
rad45	1.48671e-19	1.000000	1.48671e-19	1.000000
rad10	7.57342e-20	1.000000	7.57342e-20	1.000000
PhCCH+CH3	5.41762e-20	1.000000	5.41762e-20	1.000000
rad36	2.98099e-20	1.000000	2.98099e-20	1.000000
rad3	1.65475e-20	1.000000	1.65475e-20	1.000000
rad4	1.31682e-20	1.000000	1.31682e-20	1.000000
rad13	7.98845e-21	1.000000	7.98845e-21	1.000000
PhCCCH3+H	6.42782e-21	1.000000	6.42782e-21	1.000000
Ph+MeAc	4.56715e-21	1.000000	4.56715e-21	1.000000
rad25	1.66073e-21	1.000000	1.66073e-21	1.000000
rad31	1.24964e-21	1.000000	1.24964e-21	1.000000
Ph+Allene	9.08319e-22	1.000000	9.08319e-22	1.000000
rad27	8.86425e-22	1.000000	8.86425e-22	1.000000
PhcycC3H3_B+H	3.12046e-22	1.000000	3.12046e-22	1.000000
rad33	1.65212e-22	1.000000	1.65212e-22	1.000000
PhCH2CCH+H	1.27561e-22	1.000000	1.27561e-22	1.000000
rad23	3.90900e-23	1.000000	3.90900e-23	1.000000
rad30	4.60066e-24	1.000000	4.60066e-24	1.000000
rad37	6.71717e-26	1.000000	6.71717e-26	1.000000
rad28	4.02855e-26	1.000000	4.02855e-26	1.000000
rad60syn	1.08737e-26	1.000000	1.08737e-26	1.000000
rad60anti	5.07275e-27	1.000000	5.07275e-27	1.000000
rad14	3.31014e-27	1.000000	3.31014e-27	1.000000
PAH3+H	2.55017e-27	1.000000	2.55017e-27	1.000000
PAH7+H	1.01605e-27	1.000000	1.01605e-27	1.000000
rad59	5.61962e-28	1.000000	5.61962e-28	1.000000
rad38	1.05816e-28	1.000000	1.05816e-28	1.000000
PAH10+CH3	2.83982e-29	1.000000	2.83982e-29	1.000000
rad46	1.84128e-31	1.000000	1.84128e-31	1.000000
rad43	1.17621e-31	1.000000	1.17621e-31	1.000000
rad58	9.58367e-33	1.000000	9.58367e-33	1.000000
rad70	4.36712e-33	1.000000	4.36712e-33	1.000000
rad54	3.12823e-33	1.000000	3.12823e-33	1.000000
PAH9+H	1.37044e-33	1.000000	1.37044e-33	1.000000
PAH1+H	6.00430e-34	1.000000	6.00430e-34	1.000000
rad50	4.84083e-34	1.000000	4.84083e-34	1.000000
rad39	5.81947e-35	1.000000	5.81947e-35	1.000000
rad34	2.68341e-35	1.000000	2.68341e-35	1.000000
rad55	1.40786e-35	1.000000	1.40786e-35	1.000000
rad52	5.59088e-37	1.000000	5.59088e-37	1.000000
rad41	4.77196e-37	1.000000	4.77196e-37	1.000000
rad62	1.24532e-37	1.000000	1.24532e-37	1.000000
rad51	8.30525e-38	1.000000	8.30525e-38	1.000000
rad47	4.16971e-39	1.000000	4.16971e-39	1.000000
rad42	2.41338e-42	1.000000	2.41338e-42	1.000000
rad65	8.74511e-43	1.000000	8.74511e-43	1.000000
rad53	1.85456e-43	1.000000	1.85456e-43	1.000000
rad61	5.66049e-45	1.000000	5.66049e-45	1.000000
Benzene+cycloprop-2-enylidene	3.08591e-46	1.000000	3.08591e-46	1.000000
rad68syn	6.03803e-49	1.000000	6.03803e-49	1.000000
rad68anti	4.91731e-49	1.000000	4.91731e-49	1.000000
rad56	2.14753e-50	1.000000	2.14753e-50	1.000000
rad64	1.91328e-50	1.000000	1.91328e-50	1.000000
rad40syn	1.48012e-54	1.000000	1.48012e-54	1.000000
rad40anti	1.10884e-54	1.000000	1.10884e-54	1.000000
PAH8+H	3.89956e-57	1.000000	3.89956e-57	1.000000
rad73	4.75998e-59	1.000000	4.75998e-59	1.000000
rad71	3.37871e-64	1.000000	3.37871e-64	1.000000

Benzene+cycloprop-1-enylidene | 5.02895e-84 1.000000 | 5.02895e-84 1.000000

10000000.0 Pa, 30.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.13009e-20 (1.00)	8.13009e-20 (1.00)
Formation of rad19	8.13009e-20 (1.00)	8.13009e-20 (1.00)
H-abstraction to cyc2enyl	1.08880e-49 (1.34e-30)	1.08880e-49 (1.34e-30)
H-abstraction to cyclenyl	7.55172e-75 (9.29e-56)	7.55172e-75 (9.29e-56)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.966354	0.966354	0.966354	0.966354
rad9	0.0322834	0.998637	0.0322834	0.998637
rad8	0.00136210	1.000000	0.00136210	1.000000
rad12	5.01796e-07	1.000000	5.01796e-07	1.000000
rad15	4.60698e-07	1.000000	4.60698e-07	1.000000
Indene+H	1.15109e-10	1.000000	1.15109e-10	1.000000
rad7	5.75234e-11	1.000000	5.75234e-11	1.000000
rad19syn	1.18958e-11	1.000000	1.18958e-11	1.000000
PhCHCCH2+H	2.72554e-12	1.000000	2.72554e-12	1.000000
rad11	1.25149e-13	1.000000	1.25149e-13	1.000000
rad2	9.82055e-14	1.000000	9.82055e-14	1.000000
rad6	3.50944e-14	1.000000	3.50944e-14	1.000000
rad1	2.21835e-14	1.000000	2.21835e-14	1.000000
rad5	1.07482e-14	1.000000	1.07482e-14	1.000000
rad21	6.57953e-15	1.000000	6.57953e-15	1.000000
PhcycC3H3_A+H	2.08557e-15	1.000000	2.08557e-15	1.000000
rad26	1.86887e-15	1.000000	1.86887e-15	1.000000
rad20	1.31383e-15	1.000000	1.31383e-15	1.000000
rad18	7.31816e-16	1.000000	7.31816e-16	1.000000
Phenyl+cycC3H4	5.63985e-17	1.000000	0.000000	1.000000
rad22	3.98115e-17	1.000000	3.98115e-17	1.000000
rad24	7.29452e-18	1.000000	7.29452e-18	1.000000
rad67	6.77685e-18	1.000000	6.77685e-18	1.000000
rad35	3.15679e-18	1.000000	3.15679e-18	1.000000
rad45	2.70183e-18	1.000000	2.70183e-18	1.000000
C2H2+PhCH2	1.51492e-18	1.000000	1.51492e-18	1.000000
rad10	6.81179e-19	1.000000	6.81179e-19	1.000000
rad36	4.57632e-19	1.000000	4.57632e-19	1.000000
PhCCH+CH3	2.77010e-19	1.000000	2.77010e-19	1.000000
rad3	1.56039e-19	1.000000	1.56039e-19	1.000000
rad4	1.18007e-19	1.000000	1.18007e-19	1.000000
PhCCCH3+H	5.52064e-20	1.000000	5.52064e-20	1.000000
rad13	4.26155e-20	1.000000	4.26155e-20	1.000000
Ph+MeAc	3.98922e-20	1.000000	3.98922e-20	1.000000
rad25	1.75169e-20	1.000000	1.75169e-20	1.000000
Ph+Allene	9.77544e-21	1.000000	9.77544e-21	1.000000
rad27	7.91493e-21	1.000000	7.91493e-21	1.000000
PhCH2CCH+H	1.38163e-21	1.000000	1.38163e-21	1.000000
rad31	1.29062e-21	1.000000	1.29062e-21	1.000000
rad33	8.74826e-22	1.000000	8.74826e-22	1.000000
PhcycC3H3_B+H	8.57567e-22	1.000000	8.57567e-22	1.000000
rad23	8.56010e-22	1.000000	8.56010e-22	1.000000
rad30	9.77077e-23	1.000000	9.77077e-23	1.000000
rad37	1.40860e-24	1.000000	1.40860e-24	1.000000
rad28	7.12863e-25	1.000000	7.12863e-25	1.000000
rad60syn	2.34884e-25	1.000000	2.34884e-25	1.000000
rad60anti	1.09733e-25	1.000000	1.09733e-25	1.000000
rad14	6.57497e-26	1.000000	6.57497e-26	1.000000
PAH3+H	5.60712e-26	1.000000	5.60712e-26	1.000000
PAH7+H	2.04783e-26	1.000000	2.04783e-26	1.000000
rad59	1.23298e-26	1.000000	1.23298e-26	1.000000
rad38	2.32780e-27	1.000000	2.32780e-27	1.000000
PAH10+CH3	6.24673e-28	1.000000	6.24673e-28	1.000000
rad46	6.78026e-30	1.000000	6.78026e-30	1.000000
rad43	2.00368e-30	1.000000	2.00368e-30	1.000000
Benzene+cycloprop-2-enylidene	1.33923e-30	1.000000	1.33923e-30	1.000000
rad58	2.21886e-31	1.000000	2.21886e-31	1.000000
rad70	1.01789e-31	1.000000	1.01789e-31	1.000000
PAH9+H	5.83023e-32	1.000000	5.83023e-32	1.000000
rad54	3.59746e-32	1.000000	3.59746e-32	1.000000
rad50	1.82628e-32	1.000000	1.82628e-32	1.000000
PAH1+H	1.38811e-32	1.000000	1.38811e-32	1.000000
rad39	2.26295e-33	1.000000	2.26295e-33	1.000000
rad34	6.42195e-34	1.000000	6.42195e-34	1.000000
rad55	1.64676e-34	1.000000	1.64676e-34	1.000000
rad52	3.33926e-35	1.000000	3.33926e-35	1.000000
rad41	8.39811e-36	1.000000	8.39811e-36	1.000000

rad62	5.39913e-36	1.00000	5.39913e-36	1.00000
rad51	5.12982e-36	1.00000	5.12982e-36	1.00000
rad47	1.74602e-37	1.00000	1.74602e-37	1.00000
rad42	1.12938e-40	1.00000	1.12938e-40	1.00000
rad65	3.83371e-41	1.00000	3.83371e-41	1.00000
rad53	2.14827e-42	1.00000	2.14827e-42	1.00000
rad61	1.39401e-43	1.00000	1.39401e-43	1.00000
rad68syn	1.60763e-47	1.00000	1.60763e-47	1.00000
rad68anti	1.30894e-47	1.00000	1.30894e-47	1.00000
rad64	9.08878e-49	1.00000	9.08878e-49	1.00000
rad56	2.09347e-49	1.00000	2.09347e-49	1.00000
rad40syn	4.93123e-53	1.00000	4.93123e-53	1.00000
rad40anti	3.73203e-53	1.00000	3.73203e-53	1.00000
PAH8+H	1.28729e-55	1.00000	1.28729e-55	1.00000
Benzene+cycloprop-1-enylidene	9.28861e-56	1.00000	9.28861e-56	1.00000
rad73	4.86343e-57	1.00000	4.86343e-57	1.00000
rad71	3.64062e-62	1.00000	3.64062e-62	1.00000

10000000.0 Pa, 40.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.24819e-18 (1.00)	2.24819e-18 (1.00)
Formation of rad19	2.24819e-18 (1.00)	2.24819e-18 (1.00)
H-abstraction to cyc2enyl	1.72361e-40 (7.67e-23)	1.72361e-40 (7.67e-23)
H-abstraction to cyclenyl	2.48792e-59 (1.11e-41)	2.48792e-59 (1.11e-41)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.950561	0.950561	0.950561	0.950561
rad9	0.0484296	0.998991	0.0484296	0.998991
rad8	0.00100771	0.999998	0.00100771	0.999998
rad15	1.05589e-06	0.999999	1.05589e-06	0.999999
rad12	9.18334e-07	1.00000	9.18334e-07	1.00000
Indene+H	4.00181e-10	1.00000	4.00181e-10	1.00000
rad7	6.44294e-11	1.00000	6.44294e-11	1.00000
PhCHCCH2+H	6.43346e-12	1.00000	6.43346e-12	1.00000
rad11	3.02676e-13	1.00000	3.02676e-13	1.00000
rad2	2.28515e-13	1.00000	2.28515e-13	1.00000
rad6	5.92245e-14	1.00000	5.92245e-14	1.00000
rad1	4.66184e-14	1.00000	4.66184e-14	1.00000
rad19syn	2.13874e-14	1.00000	2.13874e-14	1.00000
rad5	1.70030e-14	1.00000	1.70030e-14	1.00000
rad21	1.56356e-14	1.00000	1.56356e-14	1.00000
rad26	6.36976e-15	1.00000	6.36976e-15	1.00000
PhcycC3H3_A+H	3.53883e-15	1.00000	3.53883e-15	1.00000
rad18	2.61460e-15	1.00000	2.61460e-15	1.00000
rad20	2.27419e-15	1.00000	2.27419e-15	1.00000
rad22	1.41866e-16	1.00000	1.41866e-16	1.00000
Phenyl+cycC3H4	1.07896e-16	1.00000	0.00000	1.00000
rad67	2.48405e-17	1.00000	2.48405e-17	1.00000
rad24	2.20959e-17	1.00000	2.20959e-17	1.00000
rad45	1.31984e-17	1.00000	1.31984e-17	1.00000
rad35	1.15489e-17	1.00000	1.15489e-17	1.00000
C2H2+PhCH2	3.78964e-18	1.00000	3.78964e-18	1.00000
rad10	2.42811e-18	1.00000	2.42811e-18	1.00000
rad36	2.03319e-18	1.00000	2.03319e-18	1.00000
PhCCH+CH3	6.75151e-19	1.00000	6.75151e-19	1.00000
rad3	5.68014e-19	1.00000	5.68014e-19	1.00000
rad4	4.16956e-19	1.00000	4.16956e-19	1.00000
PhCCCH3+H	1.87966e-19	1.00000	1.87966e-19	1.00000
Ph+MeAc	1.33259e-19	1.00000	1.33259e-19	1.00000
rad13	1.07752e-19	1.00000	1.07752e-19	1.00000
rad25	6.46916e-20	1.00000	6.46916e-20	1.00000
Ph+Allene	3.67523e-20	1.00000	3.67523e-20	1.00000
rad27	2.84083e-20	1.00000	2.84083e-20	1.00000
PhCH2CCH+H	5.23873e-21	1.00000	5.23873e-21	1.00000
rad23	4.95132e-21	1.00000	4.95132e-21	1.00000
PhcycC3H3_B+H	2.34847e-21	1.00000	2.34847e-21	1.00000
rad33	2.19574e-21	1.00000	2.19574e-21	1.00000
rad31	1.28210e-21	1.00000	1.28210e-21	1.00000
rad30	5.34740e-22	1.00000	5.34740e-22	1.00000
Benzene+cycloprop-2-enylidene	7.66665e-23	1.00000	7.66665e-23	1.00000
rad37	7.60431e-24	1.00000	7.60431e-24	1.00000
rad28	3.62014e-24	1.00000	3.62014e-24	1.00000
rad60syn	1.30552e-24	1.00000	1.30552e-24	1.00000
rad60anti	6.10733e-25	1.00000	6.10733e-25	1.00000
rad14	3.70033e-25	1.00000	3.70033e-25	1.00000
PAH3+H	3.17205e-25	1.00000	3.17205e-25	1.00000
PAH7+H	1.10890e-25	1.00000	1.10890e-25	1.00000

rad59	6.95964e-26	1.00000	6.95964e-26	1.00000
rad38	1.31778e-26	1.00000	1.31778e-26	1.00000
PAH10+CH3	3.55164e-27	1.00000	3.55164e-27	1.00000
rad46	5.14234e-29	1.00000	5.14234e-29	1.00000
rad43	1.11818e-29	1.00000	1.11818e-29	1.00000
rad58	1.33648e-30	1.00000	1.33648e-30	1.00000
rad70	6.16284e-31	1.00000	6.16284e-31	1.00000
PAH9+H	4.94559e-31	1.00000	4.94559e-31	1.00000
rad54	1.45411e-31	1.00000	1.45411e-31	1.00000
rad50	1.42374e-31	1.00000	1.42374e-31	1.00000
PAH1+H	8.46854e-32	1.00000	8.46854e-32	1.00000
rad39	1.81267e-32	1.00000	1.81267e-32	1.00000
rad34	4.05481e-33	1.00000	4.05481e-33	1.00000
rad55	6.82721e-34	1.00000	6.82721e-34	1.00000
rad52	3.23172e-34	1.00000	3.23172e-34	1.00000
rad41	5.24670e-35	1.00000	5.24670e-35	1.00000
rad51	5.13232e-35	1.00000	5.13232e-35	1.00000
rad62	4.96158e-35	1.00000	4.96158e-35	1.00000
rad47	1.54533e-36	1.00000	1.54533e-36	1.00000
rad42	1.17000e-39	1.00000	1.17000e-39	1.00000
rad65	3.45438e-40	1.00000	3.45438e-40	1.00000
rad53	1.16750e-41	1.00000	1.16750e-41	1.00000
Benzene+cycloprop-1-enylidene	1.10663e-41	1.00000	1.10663e-41	1.00000
rad61	1.29104e-42	1.00000	1.29104e-42	1.00000
rad68syn	1.72558e-46	1.00000	1.72558e-46	1.00000
rad68anti	1.40367e-46	1.00000	1.40367e-46	1.00000
rad64	1.09418e-47	1.00000	1.09418e-47	1.00000
rad56	1.23044e-48	1.00000	1.23044e-48	1.00000
rad40syn	7.12617e-52	1.00000	7.12617e-52	1.00000
rad40anti	5.41930e-52	1.00000	5.41930e-52	1.00000
PAH8+H	2.00531e-54	1.00000	2.00531e-54	1.00000
rad73	1.21718e-55	1.00000	1.21718e-55	1.00000
rad71	1.09041e-60	1.00000	1.09041e-60	1.00000

10000000.0 Pa, 50.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.72707e-17 (1.00)	1.72707e-17 (1.00)
Formation of rad19	1.72707e-17 (1.00)	1.72707e-17 (1.00)
H-abstraction to cyc2enyl	5.49905e-35 (3.18e-18)	5.49905e-35 (3.18e-18)
H-abstraction to cyclenyl	4.93090e-50 (2.86e-33)	4.93090e-50 (2.86e-33)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.935447	0.935447	0.935447	0.935447
rad9	0.0637984	0.999245	0.0637984	0.999245
rad8	0.000751671	0.999997	0.000751671	0.999997
rad15	1.86705e-06	0.999999	1.86705e-06	0.999999
rad12	1.31936e-06	1.00000	1.31936e-06	1.00000
Indene+H	9.46509e-10	1.00000	9.46509e-10	1.00000
rad7	7.01711e-11	1.00000	7.01711e-11	1.00000
PhCHCCH2+H	1.17531e-11	1.00000	1.17531e-11	1.00000
rad11	5.60434e-13	1.00000	5.60434e-13	1.00000
rad2	4.15991e-13	1.00000	4.15991e-13	1.00000
rad6	8.60341e-14	1.00000	8.60341e-14	1.00000
rad1	7.91763e-14	1.00000	7.91763e-14	1.00000
rad21	2.87239e-14	1.00000	2.87239e-14	1.00000
rad5	2.32693e-14	1.00000	2.32693e-14	1.00000
rad26	1.47809e-14	1.00000	1.47809e-14	1.00000
rad18	6.34096e-15	1.00000	6.34096e-15	1.00000
PhcycC3H3_A+H	5.54780e-15	1.00000	5.54780e-15	1.00000
rad20	3.49143e-15	1.00000	3.49143e-15	1.00000
rad22	3.46384e-16	1.00000	3.46384e-16	1.00000
rad19syn	2.47013e-16	1.00000	2.47013e-16	1.00000
Phenyl+cycC3H4	2.10175e-16	1.00000	0.00000	1.00000
rad67	6.16942e-17	1.00000	6.16942e-17	1.00000
rad24	4.63841e-17	1.00000	4.63841e-17	1.00000
rad45	3.92968e-17	1.00000	3.92968e-17	1.00000
rad35	2.86288e-17	1.00000	2.86288e-17	1.00000
C2H2+PhCH2	7.33599e-18	1.00000	7.33599e-18	1.00000
rad10	5.98773e-18	1.00000	5.98773e-18	1.00000
rad36	5.67369e-18	1.00000	5.67369e-18	1.00000
Benzene+cycloprop-2-enylidene	3.18404e-18	1.00000	3.18404e-18	1.00000
rad3	1.42076e-18	1.00000	1.42076e-18	1.00000
PhCCH+CH3	1.25810e-18	1.00000	1.25810e-18	1.00000
rad4	1.02195e-18	1.00000	1.02195e-18	1.00000
PhCCCH3+H	4.51574e-19	1.00000	4.51574e-19	1.00000
Ph+MeAc	3.14655e-19	1.00000	3.14655e-19	1.00000
rad13	2.07867e-19	1.00000	2.07867e-19	1.00000

rad25	1.61875e-19	1.00000	1.61875e-19	1.00000
Ph+Allene	9.36740e-20	1.00000	9.36740e-20	1.00000
rad27	7.06834e-20	1.00000	7.06834e-20	1.00000
rad23	1.71392e-20	1.00000	1.71392e-20	1.00000
PhCH2CCH+H	1.34831e-20	1.00000	1.34831e-20	1.00000
PhcycC3H3_B+H	6.94204e-21	1.00000	6.94204e-21	1.00000
rad33	4.20654e-21	1.00000	4.20654e-21	1.00000
rad30	1.75882e-21	1.00000	1.75882e-21	1.00000
rad31	1.33898e-21	1.00000	1.33898e-21	1.00000
rad37	2.47527e-23	1.00000	2.47527e-23	1.00000
rad28	1.14194e-23	1.00000	1.14194e-23	1.00000
rad60syn	4.36425e-24	1.00000	4.36425e-24	1.00000
rad60anti	2.04458e-24	1.00000	2.04458e-24	1.00000
rad14	1.26713e-24	1.00000	1.26713e-24	1.00000
PAH3+H	1.08097e-24	1.00000	1.08097e-24	1.00000
PAH7+H	3.66450e-25	1.00000	3.66450e-25	1.00000
rad59	2.36579e-25	1.00000	2.36579e-25	1.00000
rad38	4.49983e-26	1.00000	4.49983e-26	1.00000
PAH10+CH3	1.22436e-26	1.00000	1.22436e-26	1.00000
rad46	2.14357e-28	1.00000	2.14357e-28	1.00000
rad43	3.97205e-29	1.00000	3.97205e-29	1.00000
rad58	4.89808e-30	1.00000	4.89808e-30	1.00000
rad70	2.27132e-30	1.00000	2.27132e-30	1.00000
PAH9+H	2.26622e-30	1.00000	2.26622e-30	1.00000
rad50	6.12462e-31	1.00000	6.12462e-31	1.00000
rad54	4.01577e-31	1.00000	4.01577e-31	1.00000
PAH1+H	3.17707e-31	1.00000	3.17707e-31	1.00000
rad39	7.97346e-32	1.00000	7.97346e-32	1.00000
rad34	1.57413e-32	1.00000	1.57413e-32	1.00000
Benzene+cycloprop-1-enylidene	2.85507e-33	1.00000	2.85507e-33	1.00000
rad55	1.94456e-33	1.00000	1.94456e-33	1.00000
rad52	1.59440e-33	1.00000	1.59440e-33	1.00000
rad51	2.62075e-34	1.00000	2.62075e-34	1.00000
rad62	2.50213e-34	1.00000	2.50213e-34	1.00000
rad41	2.17993e-34	1.00000	2.17993e-34	1.00000
rad47	7.68606e-36	1.00000	7.68606e-36	1.00000
rad42	6.84735e-39	1.00000	6.84735e-39	1.00000
rad65	1.71783e-39	1.00000	1.71783e-39	1.00000
rad53	5.13700e-41	1.00000	5.13700e-41	1.00000
rad61	9.28880e-42	1.00000	9.28880e-42	1.00000
rad68syn	1.50797e-45	1.00000	1.50797e-45	1.00000
rad68anti	1.22488e-45	1.00000	1.22488e-45	1.00000
rad64	8.42800e-47	1.00000	8.42800e-47	1.00000
rad56	6.63912e-48	1.00000	6.63912e-48	1.00000
rad40syn	9.02418e-51	1.00000	9.02418e-51	1.00000
rad40anti	6.88020e-51	1.00000	6.88020e-51	1.00000
PAH8+H	2.93316e-53	1.00000	2.93316e-53	1.00000
rad73	2.11811e-54	1.00000	2.11811e-54	1.00000
rad71	2.52271e-59	1.00000	2.52271e-59	1.00000

10000000.0 Pa, 60.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.93738e-17 (1.00)	6.93738e-17 (1.00)
Formation of rad19	6.93738e-17 (1.000)	6.93738e-17 (1.000)
H-abstraction to cyc2enyl	2.50609e-31 (3.61e-15)	2.50609e-31 (3.61e-15)
H-abstraction to cyclenyl	7.62015e-44 (1.10e-27)	7.62015e-44 (1.10e-27)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.920852	0.920852	0.920852	0.920852
rad9	0.0785768	0.999429	0.0785768	0.999429
rad8	0.000566650	0.999995	0.000566650	0.999995
rad15	2.88408e-06	0.999998	2.88408e-06	0.999998
rad12	1.68023e-06	1.00000	1.68023e-06	1.00000
Indene+H	1.83064e-09	1.00000	1.83064e-09	1.00000
rad7	7.56291e-11	1.00000	7.56291e-11	1.00000
PhCHCCH2+H	1.87933e-11	1.00000	1.87933e-11	1.00000
rad11	9.04378e-13	1.00000	9.04378e-13	1.00000
rad2	6.65520e-13	1.00000	6.65520e-13	1.00000
rad1	1.20260e-13	1.00000	1.20260e-13	1.00000
rad6	1.15968e-13	1.00000	1.15968e-13	1.00000
rad21	4.61847e-14	1.00000	4.61847e-14	1.00000
rad5	2.96292e-14	1.00000	2.96292e-14	1.00000
rad26	2.81197e-14	1.00000	2.81197e-14	1.00000
rad18	1.25707e-14	1.00000	1.25707e-14	1.00000
PhcycC3H3_A+H	8.34447e-15	1.00000	8.34447e-15	1.00000
rad20	5.07662e-15	1.00000	5.07662e-15	1.00000
Benzene+cycloprop-2-enylidene	3.61245e-15	1.00000	3.61245e-15	1.00000

rad22	6.94283e-16	1.00000	6.94283e-16	1.00000
Phenyl+cycC3H4	3.92093e-16	1.00000	0.00000	1.00000
rad67	1.25231e-16	1.00000	1.25231e-16	1.00000
rad45	9.04729e-17	1.00000	9.04729e-17	1.00000
rad24	8.06780e-17	1.00000	8.06780e-17	1.00000
rad35	5.80006e-17	1.00000	5.80006e-17	1.00000
C2H2+PhCH2	1.25160e-17	1.00000	1.25160e-17	1.00000
rad36	1.24422e-17	1.00000	1.24422e-17	1.00000
rad10	1.21411e-17	1.00000	1.21411e-17	1.00000
rad19syn	9.17840e-18	1.00000	9.17840e-18	1.00000
rad3	2.91280e-18	1.00000	2.91280e-18	1.00000
rad4	2.06352e-18	1.00000	2.06352e-18	1.00000
PhCCH+CH3	2.04372e-18	1.00000	2.04372e-18	1.00000
PhCCCH3+H	9.03912e-19	1.00000	9.03912e-19	1.00000
Ph+MeAc	6.21987e-19	1.00000	6.21987e-19	1.00000
rad13	3.49129e-19	1.00000	3.49129e-19	1.00000
rad25	3.31128e-19	1.00000	3.31128e-19	1.00000
Ph+Allene	1.95353e-19	1.00000	1.95353e-19	1.00000
rad27	1.44657e-19	1.00000	1.44657e-19	1.00000
rad23	4.52014e-20	1.00000	4.52014e-20	1.00000
PhCH2CCH+H	2.84197e-20	1.00000	2.84197e-20	1.00000
PhcycC3H3_B+H	2.19405e-20	1.00000	2.19405e-20	1.00000
rad33	7.01874e-21	1.00000	7.01874e-21	1.00000
rad30	4.43721e-21	1.00000	4.43721e-21	1.00000
rad31	1.44155e-21	1.00000	1.44155e-21	1.00000
rad37	6.20025e-23	1.00000	6.20025e-23	1.00000
rad28	2.80680e-23	1.00000	2.80680e-23	1.00000
rad60syn	1.12011e-23	1.00000	1.12011e-23	1.00000
rad60anti	5.25563e-24	1.00000	5.25563e-24	1.00000
rad14	3.33297e-24	1.00000	3.33297e-24	1.00000
PAH3+H	2.83241e-24	1.00000	2.83241e-24	1.00000
PAH7+H	9.37164e-25	1.00000	9.37164e-25	1.00000
rad59	6.18211e-25	1.00000	6.18211e-25	1.00000
rad38	1.18259e-25	1.00000	1.18259e-25	1.00000
PAH10+CH3	3.26293e-26	1.00000	3.26293e-26	1.00000
Benzene+cycloprop-1-enylidene	1.09842e-27	1.00000	1.09842e-27	1.00000
rad46	6.53733e-28	1.00000	6.53733e-28	1.00000
rad43	1.10549e-28	1.00000	1.10549e-28	1.00000
rad58	1.39089e-29	1.00000	1.39089e-29	1.00000
PAH9+H	7.51463e-30	1.00000	7.51463e-30	1.00000
rad70	6.49096e-30	1.00000	6.49096e-30	1.00000
rad50	1.93399e-30	1.00000	1.93399e-30	1.00000
PAH1+H	9.30320e-31	1.00000	9.30320e-31	1.00000
rad54	9.13043e-31	1.00000	9.13043e-31	1.00000
rad39	2.56639e-31	1.00000	2.56639e-31	1.00000
rad34	4.77066e-32	1.00000	4.77066e-32	1.00000
rad52	5.57101e-33	1.00000	5.57101e-33	1.00000
rad55	4.57779e-33	1.00000	4.57779e-33	1.00000
rad51	9.49233e-34	1.00000	9.49233e-34	1.00000
rad62	9.19474e-34	1.00000	9.19474e-34	1.00000
rad41	7.27523e-34	1.00000	7.27523e-34	1.00000
rad47	2.84662e-35	1.00000	2.84662e-35	1.00000
rad42	2.97603e-38	1.00000	2.97603e-38	1.00000
rad65	6.28340e-39	1.00000	6.28340e-39	1.00000
rad53	2.11376e-40	1.00000	2.11376e-40	1.00000
rad61	6.19101e-41	1.00000	6.19101e-41	1.00000
rad68syn	1.26590e-44	1.00000	1.26590e-44	1.00000
rad68anti	1.02632e-44	1.00000	1.02632e-44	1.00000
rad64	5.31934e-46	1.00000	5.31934e-46	1.00000
rad56	3.71550e-47	1.00000	3.71550e-47	1.00000
rad40syn	1.16776e-49	1.00000	1.16776e-49	1.00000
rad40anti	8.91412e-50	1.00000	8.91412e-50	1.00000
PAH8+H	4.63931e-52	1.00000	4.63931e-52	1.00000
rad73	3.31699e-53	1.00000	3.31699e-53	1.00000
rad71	5.72663e-58	1.00000	5.72663e-58	1.00000

10000000.0 Pa, 70.0000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	1.91520e-16 (1.00)	1.91520e-16 (1.00)		
Formation of rad19	1.91520e-16 (1.000)	1.91520e-16 (1.000)		
H-abstraction to cyc2enyl	1.01125e-28 (5.28e-13)	1.01125e-28 (5.28e-13)		
H-abstraction to cyclenyl	1.97822e-39 (1.03e-23)	1.97822e-39 (1.03e-23)		
species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.906659	0.906659	0.906659	0.906659
rad9	0.0929031	0.999562	0.0929031	0.999562
rad8	0.000431474	0.999994	0.000431474	0.999994

rad15	4.10301e-06	0.999998	4.10301e-06	0.999998
rad12	1.99512e-06	1.000000	1.99512e-06	1.000000
Indene+H	3.13173e-09	1.000000	3.13173e-09	1.000000
rad7	8.11503e-11	1.000000	8.11503e-11	1.000000
PhCHCCH2+H	2.77214e-11	1.000000	2.77214e-11	1.000000
rad11	1.34348e-12	1.000000	1.34348e-12	1.000000
rad2	9.84103e-13	1.000000	9.84103e-13	1.000000
Benzene+cycloprop-2-enylidene	5.28015e-13	1.000000	5.28015e-13	1.000000
rad1	1.70671e-13	1.000000	1.70671e-13	1.000000
rad6	1.49619e-13	1.000000	1.49619e-13	1.000000
rad21	6.85291e-14	1.000000	6.85291e-14	1.000000
rad26	4.74590e-14	1.000000	4.74590e-14	1.000000
rad5	3.61692e-14	1.000000	3.61692e-14	1.000000
rad18	2.20516e-14	1.000000	2.20516e-14	1.000000
PhcycC3H3_A+H	1.22538e-14	1.000000	1.22538e-14	1.000000
rad20	7.16010e-15	1.000000	7.16010e-15	1.000000
rad22	1.23462e-15	1.000000	1.23462e-15	1.000000
Phenyl+cycC3H4	6.95493e-16	1.000000	0.00000	1.000000
rad67	2.25041e-16	1.000000	2.25041e-16	1.000000
rad45	1.78375e-16	1.000000	1.78375e-16	1.000000
rad24	1.25459e-16	1.000000	1.25459e-16	1.000000
rad35	1.04020e-16	1.000000	1.04020e-16	1.000000
rad36	2.36015e-17	1.000000	2.36015e-17	1.000000
rad10	2.18453e-17	1.000000	2.18453e-17	1.000000
C2H2+PhCH2	1.98723e-17	1.000000	1.98723e-17	1.000000
rad3	5.28984e-18	1.000000	5.28984e-18	1.000000
rad4	3.70258e-18	1.000000	3.70258e-18	1.000000
PhCCH+CH3	3.05903e-18	1.000000	3.05903e-18	1.000000
PhCCCH3+H	1.61983e-18	1.000000	1.61983e-18	1.000000
Ph+MeAc	1.10543e-18	1.000000	1.10543e-18	1.000000
rad19syn	7.51663e-19	1.000000	7.51663e-19	1.000000
rad25	5.99882e-19	1.000000	5.99882e-19	1.000000
rad13	5.39883e-19	1.000000	5.39883e-19	1.000000
Ph+Allene	3.61196e-19	1.000000	3.61196e-19	1.000000
rad27	2.62752e-19	1.000000	2.62752e-19	1.000000
rad23	1.00906e-19	1.000000	1.00906e-19	1.000000
PhcycC3H3_B+H	7.32650e-20	1.000000	7.32650e-20	1.000000
PhCH2CCH+H	5.31552e-20	1.000000	5.31552e-20	1.000000
rad33	1.07854e-20	1.000000	1.07854e-20	1.000000
rad30	9.53262e-21	1.000000	9.53262e-21	1.000000
rad31	1.57975e-21	1.000000	1.57975e-21	1.000000
rad37	1.32666e-22	1.000000	1.32666e-22	1.000000
rad28	5.93174e-23	1.000000	5.93174e-23	1.000000
rad60syn	2.45077e-23	1.000000	2.45077e-23	1.000000
rad60anti	1.15181e-23	1.000000	1.15181e-23	1.000000
Benzene+cycloprop-1-enylidene	1.03290e-23	1.000000	1.03290e-23	1.000000
rad14	7.46632e-24	1.000000	7.46632e-24	1.000000
PAH3+H	6.33677e-24	1.000000	6.33677e-24	1.000000
PAH7+H	2.05486e-24	1.000000	2.05486e-24	1.000000
rad59	1.37899e-24	1.000000	1.37899e-24	1.000000
rad38	2.65577e-25	1.000000	2.65577e-25	1.000000
PAH10+CH3	7.46163e-26	1.000000	7.46163e-26	1.000000
rad46	1.65066e-27	1.000000	1.65066e-27	1.000000
rad43	2.65195e-28	1.000000	2.65195e-28	1.000000
rad58	3.39641e-29	1.000000	3.39641e-29	1.000000
PAH9+H	2.04754e-29	1.000000	2.04754e-29	1.000000
rad70	1.59672e-29	1.000000	1.59672e-29	1.000000
rad50	5.07230e-30	1.000000	5.07230e-30	1.000000
PAH1+H	2.35655e-30	1.000000	2.35655e-30	1.000000
rad54	1.85228e-30	1.000000	1.85228e-30	1.000000
rad39	6.84776e-31	1.000000	6.84776e-31	1.000000
rad34	1.25154e-31	1.000000	1.25154e-31	1.000000
rad52	1.58684e-32	1.000000	1.58684e-32	1.000000
rad55	9.65005e-33	1.000000	9.65005e-33	1.000000
rad51	2.80830e-33	1.000000	2.80830e-33	1.000000
rad62	2.79501e-33	1.000000	2.79501e-33	1.000000
rad41	2.12948e-33	1.000000	2.12948e-33	1.000000
rad47	8.87542e-35	1.000000	8.87542e-35	1.000000
rad42	1.08603e-37	1.000000	1.08603e-37	1.000000
rad65	1.91681e-38	1.000000	1.91681e-38	1.000000
rad53	8.65740e-40	1.000000	8.65740e-40	1.000000
rad61	4.08828e-40	1.000000	4.08828e-40	1.000000
rad68syn	1.08397e-43	1.000000	1.08397e-43	1.000000
rad68anti	8.76852e-44	1.000000	8.76852e-44	1.000000
rad64	3.04749e-45	1.000000	3.04749e-45	1.000000
rad56	2.34583e-46	1.000000	2.34583e-46	1.000000
rad40syn	1.61529e-48	1.000000	1.61529e-48	1.000000
rad40anti	1.23341e-48	1.000000	1.23341e-48	1.000000
PAH8+H	8.21098e-51	1.000000	8.21098e-51	1.000000
rad73	5.14295e-52	1.000000	5.14295e-52	1.000000

rad71 | 1.37865e-56 1.000000 | 1.37865e-56 1.000000

10000000.0 Pa, 80.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.17084e-16 (1.00)	4.17084e-16 (1.00)
Formation of rad19	4.17084e-16 (1.000)	4.17084e-16 (1.000)
H-abstraction to cyc2enyl	8.98751e-27 (2.15e-11)	8.98751e-27 (2.15e-11)
H-abstraction to cyc1enyl	4.00120e-36 (9.59e-21)	4.00120e-36 (9.59e-21)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.892776	0.892776	0.892776	0.892776
rad9	0.106885	0.999661	0.106885	0.999661
rad8	0.000331513	0.999993	0.000331513	0.999993
rad15	5.52480e-06	0.999998	5.52480e-06	0.999998
rad12	2.26600e-06	1.00000	2.26600e-06	1.00000
Indene+H	4.93610e-09	1.00000	4.93610e-09	1.00000
rad7	8.69328e-11	1.00000	8.69328e-11	1.00000
PhCHCCH2+H	3.87695e-11	1.00000	3.87695e-11	1.00000
Benzene+cycloprop-2-enylidene	2.15484e-11	1.00000	2.15484e-11	1.00000
rad11	1.89011e-12	1.00000	1.89011e-12	1.00000
rad2	1.38119e-12	1.00000	1.38119e-12	1.00000
rad1	2.31597e-13	1.00000	2.31597e-13	1.00000
rad6	1.87739e-13	1.00000	1.87739e-13	1.00000
rad21	9.64643e-14	1.00000	9.64643e-14	1.00000
rad26	7.40232e-14	1.00000	7.40232e-14	1.00000
rad5	4.29803e-14	1.00000	4.29803e-14	1.00000
rad18	3.56693e-14	1.00000	3.56693e-14	1.00000
PhcycC3H3_A+H	1.77436e-14	1.00000	1.77436e-14	1.00000
rad20	9.90111e-15	1.00000	9.90111e-15	1.00000
rad22	2.02857e-15	1.00000	2.02857e-15	1.00000
Phenyl+cycC3H4	1.17951e-15	1.00000	0.00000	1.00000
rad67	3.73221e-16	1.00000	3.73221e-16	1.00000
rad45	3.17605e-16	1.00000	3.17605e-16	1.00000
rad24	1.81427e-16	1.00000	1.81427e-16	1.00000
rad35	1.72152e-16	1.00000	1.72152e-16	1.00000
rad36	4.07074e-17	1.00000	4.07074e-17	1.00000
rad10	3.63174e-17	1.00000	3.63174e-17	1.00000
C2H2+PhCH2	3.01920e-17	1.00000	3.01920e-17	1.00000
rad3	8.86690e-18	1.00000	8.86690e-18	1.00000
rad4	6.14506e-18	1.00000	6.14506e-18	1.00000
PhCCH+CH3	4.34195e-18	1.00000	4.34195e-18	1.00000
PhCCCH3+H	2.69916e-18	1.00000	2.69916e-18	1.00000
Ph+MeAc	1.83332e-18	1.00000	1.83332e-18	1.00000
rad25	1.00348e-18	1.00000	1.00348e-18	1.00000
rad13	7.91341e-19	1.00000	7.91341e-19	1.00000
Ph+Allene	6.17438e-19	1.00000	6.17438e-19	1.00000
rad27	4.41086e-19	1.00000	4.41086e-19	1.00000
PhcycC3H3_B+H	2.51325e-19	1.00000	2.51325e-19	1.00000
rad23	2.01588e-19	1.00000	2.01588e-19	1.00000
rad19syn	1.08336e-19	1.00000	1.08336e-19	1.00000
PhCH2CCH+H	9.20013e-20	1.00000	9.20013e-20	1.00000
rad30	1.84179e-20	1.00000	1.84179e-20	1.00000
rad33	1.57135e-20	1.00000	1.57135e-20	1.00000
Benzene+cycloprop-1-enylidene	9.59328e-21	1.00000	9.59328e-21	1.00000
rad31	1.75129e-21	1.00000	1.75129e-21	1.00000
rad37	2.56063e-22	1.00000	2.56063e-22	1.00000
rad28	1.13529e-22	1.00000	1.13529e-22	1.00000
rad60syn	4.82855e-23	1.00000	4.82855e-23	1.00000
rad60anti	2.27332e-23	1.00000	2.27332e-23	1.00000
rad14	1.50492e-23	1.00000	1.50492e-23	1.00000
PAH3+H	1.27879e-23	1.00000	1.27879e-23	1.00000
PAH7+H	4.07662e-24	1.00000	4.07662e-24	1.00000
rad59	2.77391e-24	1.00000	2.77391e-24	1.00000
rad38	5.38386e-25	1.00000	5.38386e-25	1.00000
PAH10+CH3	1.54668e-25	1.00000	1.54668e-25	1.00000
rad46	3.68266e-27	1.00000	3.68266e-27	1.00000
rad43	5.77802e-28	1.00000	5.77802e-28	1.00000
rad58	7.53566e-29	1.00000	7.53566e-29	1.00000
PAH9+H	4.90311e-29	1.00000	4.90311e-29	1.00000
rad70	3.57308e-29	1.00000	3.57308e-29	1.00000
rad50	1.17935e-29	1.00000	1.17935e-29	1.00000
PAH1+H	5.45219e-30	1.00000	5.45219e-30	1.00000
rad54	3.49909e-30	1.00000	3.49909e-30	1.00000
rad39	1.61815e-30	1.00000	1.61815e-30	1.00000
rad34	3.00239e-31	1.00000	3.00239e-31	1.00000
rad52	3.96572e-32	1.00000	3.96572e-32	1.00000
rad55	1.90112e-32	1.00000	1.90112e-32	1.00000

rad62	7.52721e-33	1.00000	7.52721e-33	1.00000
rad51	7.30739e-33	1.00000	7.30739e-33	1.00000
rad41	5.74127e-33	1.00000	5.74127e-33	1.00000
rad47	2.48692e-34	1.00000	2.48692e-34	1.00000
rad42	3.55745e-37	1.00000	3.55745e-37	1.00000
rad65	5.21605e-38	1.00000	5.21605e-38	1.00000
rad53	3.58347e-39	1.00000	3.58347e-39	1.00000
rad61	2.75231e-39	1.00000	2.75231e-39	1.00000
rad68syn	9.68726e-43	1.00000	9.68726e-43	1.00000
rad68anti	7.81618e-43	1.00000	7.81618e-43	1.00000
rad64	1.66450e-44	1.00000	1.66450e-44	1.00000
rad56	1.81334e-45	1.00000	1.81334e-45	1.00000
rad40syn	2.41144e-47	1.00000	2.41144e-47	1.00000
rad40anti	1.84070e-47	1.00000	1.84070e-47	1.00000
PAH8+H	1.62422e-49	1.00000	1.62422e-49	1.00000
rad73	8.21176e-51	1.00000	8.21176e-51	1.00000
rad71	3.59712e-55	1.00000	3.59712e-55	1.00000

10000000.0 Pa, 90.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.74016e-16 (1.00)	7.74016e-16 (1.00)
Formation of rad19	7.74016e-16 (1.000)	7.74016e-16 (1.000)
H-abstraction to cyc2enyl	2.91736e-25 (3.77e-10)	2.91736e-25 (3.77e-10)
H-abstraction to cyclenyl	1.47814e-33 (1.91e-18)	1.47814e-33 (1.91e-18)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.879125	0.879125	0.879125	0.879125
rad9	0.120609	0.999734	0.120609	0.999734
rad8	0.000256748	0.999991	0.000256748	0.999991
rad15	7.15455e-06	0.999998	7.15455e-06	0.999998
rad12	2.49772e-06	1.00000	2.49772e-06	1.00000
Indene+H	7.34127e-09	1.00000	7.34127e-09	1.00000
Benzene+cycloprop-2-enylidene	3.76912e-10	1.00000	3.76912e-10	1.00000
rad7	9.31183e-11	1.00000	9.31183e-11	1.00000
PhCHCCH2+H	5.22427e-11	1.00000	5.22427e-11	1.00000
rad11	2.56047e-12	1.00000	2.56047e-12	1.00000
rad2	1.86911e-12	1.00000	1.86911e-12	1.00000
rad1	3.04638e-13	1.00000	3.04638e-13	1.00000
rad6	2.31255e-13	1.00000	2.31255e-13	1.00000
rad21	1.30925e-13	1.00000	1.30925e-13	1.00000
rad26	1.09274e-13	1.00000	1.09274e-13	1.00000
rad18	5.45029e-14	1.00000	5.45029e-14	1.00000
rad5	5.01581e-14	1.00000	5.01581e-14	1.00000
PhcycC3H3_A+H	2.54912e-14	1.00000	2.54912e-14	1.00000
rad20	1.34993e-14	1.00000	1.34993e-14	1.00000
rad22	3.15430e-15	1.00000	3.15430e-15	1.00000
Phenyl+cycC3H4	1.92810e-15	1.00000	0.00000	1.00000
rad67	5.85389e-16	1.00000	5.85389e-16	1.00000
rad45	5.26869e-16	1.00000	5.26869e-16	1.00000
rad35	2.69422e-16	1.00000	2.69422e-16	1.00000
rad24	2.49638e-16	1.00000	2.49638e-16	1.00000
rad36	6.57356e-17	1.00000	6.57356e-17	1.00000
rad10	5.71414e-17	1.00000	5.71414e-17	1.00000
C2H2+PhCH2	4.46037e-17	1.00000	4.46037e-17	1.00000
rad3	1.40572e-17	1.00000	1.40572e-17	1.00000
rad4	9.66092e-18	1.00000	9.66092e-18	1.00000
PhCCH+CH3	5.94347e-18	1.00000	5.94347e-18	1.00000
PhCCCH3+H	4.27770e-18	1.00000	4.27770e-18	1.00000
Ph+MeAc	2.90031e-18	1.00000	2.90031e-18	1.00000
Benzene+cycloprop-1-enylidene	1.90970e-18	1.00000	1.90970e-18	1.00000
rad25	1.58852e-18	1.00000	1.58852e-18	1.00000
rad13	1.11842e-18	1.00000	1.11842e-18	1.00000
Ph+Allene	1.00028e-18	1.00000	1.00028e-18	1.00000
PhcycC3H3_B+H	8.45192e-19	1.00000	8.45192e-19	1.00000
rad27	7.01052e-19	1.00000	7.01052e-19	1.00000
rad23	3.72546e-19	1.00000	3.72546e-19	1.00000
PhCH2CCH+H	1.51060e-19	1.00000	1.51060e-19	1.00000
rad30	3.30497e-20	1.00000	3.30497e-20	1.00000
rad19syn	2.38498e-20	1.00000	2.38498e-20	1.00000
rad33	2.20792e-20	1.00000	2.20792e-20	1.00000
rad31	1.95806e-21	1.00000	1.95806e-21	1.00000
rad37	4.60397e-22	1.00000	4.60397e-22	1.00000
rad28	2.02943e-22	1.00000	2.02943e-22	1.00000
rad60syn	8.84812e-23	1.00000	8.84812e-23	1.00000
rad60anti	4.17367e-23	1.00000	4.17367e-23	1.00000
rad14	2.82034e-23	1.00000	2.82034e-23	1.00000
PAH3+H	2.40486e-23	1.00000	2.40486e-23	1.00000

PAH7+H	7.55532e-24	1.00000	7.55532e-24	1.00000
rad59	5.19821e-24	1.00000	5.19821e-24	1.00000
rad38	1.01784e-24	1.00000	1.01784e-24	1.00000
PAH10+CH3	3.00247e-25	1.00000	3.00247e-25	1.00000
rad46	7.54539e-27	1.00000	7.54539e-27	1.00000
rad43	1.18063e-27	1.00000	1.18063e-27	1.00000
rad58	1.57006e-28	1.00000	1.57006e-28	1.00000
PAH9+H	1.07413e-28	1.00000	1.07413e-28	1.00000
rad70	7.51924e-29	1.00000	7.51924e-29	1.00000
rad50	2.52732e-29	1.00000	2.52732e-29	1.00000
PAH1+H	1.19034e-29	1.00000	1.19034e-29	1.00000
rad54	6.31560e-30	1.00000	6.31560e-30	1.00000
rad39	3.52298e-30	1.00000	3.52298e-30	1.00000
rad34	6.80818e-31	1.00000	6.80818e-31	1.00000
rad52	9.08275e-32	1.00000	9.08275e-32	1.00000
rad55	3.59231e-32	1.00000	3.59231e-32	1.00000
rad62	1.87266e-32	1.00000	1.87266e-32	1.00000
rad51	1.74758e-32	1.00000	1.74758e-32	1.00000
rad41	1.46999e-32	1.00000	1.46999e-32	1.00000
rad47	6.51446e-34	1.00000	6.51446e-34	1.00000
rad42	1.08988e-36	1.00000	1.08988e-36	1.00000
rad65	1.31909e-37	1.00000	1.31909e-37	1.00000
rad61	1.90349e-38	1.00000	1.90349e-38	1.00000
rad53	1.47350e-38	1.00000	1.47350e-38	1.00000
rad68syn	9.07222e-42	1.00000	9.07222e-42	1.00000
rad68anti	7.29865e-42	1.00000	7.29865e-42	1.00000
rad64	8.86616e-44	1.00000	8.86616e-44	1.00000
rad56	1.82336e-44	1.00000	1.82336e-44	1.00000
rad40syn	3.86335e-46	1.00000	3.86335e-46	1.00000
rad40anti	2.94661e-46	1.00000	2.94661e-46	1.00000
PAH8+H	3.53573e-48	1.00000	3.53573e-48	1.00000
rad73	1.36829e-49	1.00000	1.36829e-49	1.00000
rad71	1.01450e-53	1.00000	1.01450e-53	1.00000

10000000.0 Pa, 100.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.28255e-15 (1.00)	1.28255e-15 (1.00)
Formation of rad19	1.28255e-15 (1.000)	1.28255e-15 (1.000)
H-abstraction to cyc2enyl	4.68359e-24 (3.65e-09)	4.68359e-24 (3.65e-09)
H-abstraction to cyclenyl	1.66242e-31 (1.30e-16)	1.66242e-31 (1.30e-16)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.865640	0.865640	0.865640	0.865640
rad9	0.134148	0.999788	0.134148	0.999788
rad8	0.000200251	0.999988	0.000200251	0.999988
rad15	9.00117e-06	0.999997	9.00117e-06	0.999997
rad12	2.69589e-06	1.000000	2.69589e-06	1.000000
Indene+H	1.04603e-08	1.000000	1.04603e-08	1.000000
Benzene+cycloprop-2-enylidene	3.65179e-09	1.000000	3.65179e-09	1.000000
rad7	9.98294e-11	1.000000	9.98294e-11	1.000000
PhCHCCH2+H	6.85337e-11	1.000000	6.85337e-11	1.000000
rad11	3.37548e-12	1.000000	3.37548e-12	1.000000
rad2	2.46367e-12	1.000000	2.46367e-12	1.000000
rad1	3.91881e-13	1.000000	3.91881e-13	1.000000
rad6	2.81312e-13	1.000000	2.81312e-13	1.000000
rad21	1.73128e-13	1.000000	1.73128e-13	1.000000
rad26	1.55009e-13	1.000000	1.55009e-13	1.000000
rad18	7.98954e-14	1.000000	7.98954e-14	1.000000
rad5	5.78064e-14	1.000000	5.78064e-14	1.000000
PhcycC3H3_A+H	3.64898e-14	1.000000	3.64898e-14	1.000000
rad20	1.82107e-14	1.000000	1.82107e-14	1.000000
rad22	4.71359e-15	1.000000	4.71359e-15	1.000000
Phenyl+cycC3H4	3.06234e-15	1.000000	0.000000	1.000000
rad67	8.82079e-16	1.000000	8.82079e-16	1.000000
rad45	8.30635e-16	1.000000	8.30635e-16	1.000000
rad35	4.05026e-16	1.000000	4.05026e-16	1.000000
rad24	3.31612e-16	1.000000	3.31612e-16	1.000000
Benzene+cycloprop-1-enylidene	1.29619e-16	1.000000	1.29619e-16	1.000000
rad36	1.01257e-16	1.000000	1.01257e-16	1.000000
rad10	8.64174e-17	1.000000	8.64174e-17	1.000000
C2H2+PhCH2	6.47276e-17	1.000000	6.47276e-17	1.000000
rad3	2.14129e-17	1.000000	2.14129e-17	1.000000
rad4	1.46106e-17	1.000000	1.46106e-17	1.000000
PhCCH+CH3	7.93121e-18	1.000000	7.93121e-18	1.000000
PhCCCH3+H	6.54334e-18	1.000000	6.54334e-18	1.000000
Ph+MeAc	4.43973e-18	1.000000	4.43973e-18	1.000000
PhcycC3H3_B+H	2.68021e-18	1.000000	2.68021e-18	1.000000

rad25	2.41755e-18	1.000000	2.41755e-18	1.000000
Ph+Allene	1.56055e-18	1.000000	1.56055e-18	1.000000
rad13	1.54102e-18	1.000000	1.54102e-18	1.000000
rad27	1.07157e-18	1.000000	1.07157e-18	1.000000
rad23	6.50699e-19	1.000000	6.50699e-19	1.000000
PhCH2CCH+H	2.39115e-19	1.000000	2.39115e-19	1.000000
rad30	5.62310e-20	1.000000	5.62310e-20	1.000000
rad33	3.02506e-20	1.000000	3.02506e-20	1.000000
rad19syn	7.30432e-21	1.000000	7.30432e-21	1.000000
rad31	2.20480e-21	1.000000	2.20480e-21	1.000000
rad37	7.87260e-22	1.000000	7.87260e-22	1.000000
rad28	3.45679e-22	1.000000	3.45679e-22	1.000000
rad60syn	1.53984e-22	1.000000	1.53984e-22	1.000000
rad60anti	7.27833e-23	1.000000	7.27833e-23	1.000000
rad14	5.02040e-23	1.000000	5.02040e-23	1.000000
PAH3+H	4.30438e-23	1.000000	4.30438e-23	1.000000
PAH7+H	1.33559e-23	1.000000	1.33559e-23	1.000000
rad59	9.26834e-24	1.000000	9.26834e-24	1.000000
rad38	1.83292e-24	1.000000	1.83292e-24	1.000000
PAH10+CH3	5.57625e-25	1.000000	5.57625e-25	1.000000
rad46	1.45580e-26	1.000000	1.45580e-26	1.000000
rad43	2.31159e-27	1.000000	2.31159e-27	1.000000
rad58	3.13956e-28	1.000000	3.13956e-28	1.000000
PAH9+H	2.20999e-28	1.000000	2.20999e-28	1.000000
rad70	1.52127e-28	1.000000	1.52127e-28	1.000000
rad50	5.12063e-29	1.000000	5.12063e-29	1.000000
PAH1+H	2.50586e-29	1.000000	2.50586e-29	1.000000
rad54	1.10803e-29	1.000000	1.10803e-29	1.000000
rad39	7.25308e-30	1.000000	7.25308e-30	1.000000
rad34	1.49198e-30	1.000000	1.49198e-30	1.000000
rad52	1.96137e-31	1.000000	1.96137e-31	1.000000
rad55	6.62597e-32	1.000000	6.62597e-32	1.000000
rad62	4.42651e-32	1.000000	4.42651e-32	1.000000
rad51	3.95382e-32	1.000000	3.95382e-32	1.000000
rad41	3.65002e-32	1.000000	3.65002e-32	1.000000
rad47	1.63774e-33	1.000000	1.63774e-33	1.000000
rad42	3.21140e-36	1.000000	3.21140e-36	1.000000
rad65	3.18720e-37	1.000000	3.18720e-37	1.000000
rad61	1.33796e-37	1.000000	1.33796e-37	1.000000
rad53	5.88128e-38	1.000000	5.88128e-38	1.000000
rad68syn	8.79148e-41	1.000000	8.79148e-41	1.000000
rad68anti	7.04929e-41	1.000000	7.04929e-41	1.000000
rad64	4.64073e-43	1.000000	4.64073e-43	1.000000
rad56	2.26345e-43	1.000000	2.26345e-43	1.000000
rad40syn	6.52861e-45	1.000000	6.52861e-45	1.000000
rad40anti	4.97351e-45	1.000000	4.97351e-45	1.000000
PAH8+H	8.26390e-47	1.000000	8.26390e-47	1.000000
rad73	2.36719e-48	1.000000	2.36719e-48	1.000000
rad71	3.04000e-52	1.000000	3.04000e-52	1.000000

10000000.0 Pa, 110.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.95524e-15 (1.00)	1.95524e-15 (1.00)
Formation of rad19	1.95524e-15 (1.000)	1.95524e-15 (1.000)
H-abstraction to cyc2enyl	4.50936e-23 (2.31e-08)	4.50936e-23 (2.31e-08)
H-abstraction to cyclenyl	7.87782e-30 (4.03e-15)	7.87782e-30 (4.03e-15)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.852266	0.852266	0.852266	0.852266
rad9	0.147563	0.999829	0.147563	0.999829
rad8	0.000157164	0.999986	0.000157164	0.999986
rad15	1.10775e-05	0.999997	1.10775e-05	0.999997
rad12	2.86595e-06	1.00000	2.86595e-06	1.00000
Benzene+cycloprop-2-enylidene	2.30629e-08	1.00000	2.30629e-08	1.00000
Indene+H	1.44273e-08	1.00000	1.44273e-08	1.00000
rad7	1.07189e-10	1.00000	1.07189e-10	1.00000
PhCHCCH2+H	8.81455e-11	1.00000	8.81455e-11	1.00000
rad11	4.36199e-12	1.00000	4.36199e-12	1.00000
rad2	3.18517e-12	1.00000	3.18517e-12	1.00000
rad1	4.96020e-13	1.00000	4.96020e-13	1.00000
rad6	3.39342e-13	1.00000	3.39342e-13	1.00000
rad21	2.24651e-13	1.00000	2.24651e-13	1.00000
rad26	2.13481e-13	1.00000	2.13481e-13	1.00000
rad18	1.13548e-13	1.00000	1.13548e-13	1.00000
rad5	6.60419e-14	1.00000	6.60419e-14	1.00000
PhcycC3H3_A+H	5.22168e-14	1.00000	5.22168e-14	1.00000
rad20	2.43697e-14	1.00000	2.43697e-14	1.00000

rad22	6.84123e-15	1.00000	6.84123e-15	1.00000
Phenyl+cycC3H4	4.75932e-15	1.00000	0.00000	1.00000
Benzene+cycloprop-1-enylidene	4.02908e-15	1.00000	4.02908e-15	1.00000
rad67	1.29075e-15	1.00000	1.29075e-15	1.00000
rad45	1.26152e-15	1.00000	1.26152e-15	1.00000
rad35	5.91206e-16	1.00000	5.91206e-16	1.00000
rad24	4.29467e-16	1.00000	4.29467e-16	1.00000
rad36	1.50689e-16	1.00000	1.50689e-16	1.00000
rad10	1.26978e-16	1.00000	1.26978e-16	1.00000
C2H2+PhCH2	9.29107e-17	1.00000	9.29107e-17	1.00000
rad3	3.16844e-17	1.00000	3.16844e-17	1.00000
rad4	2.14835e-17	1.00000	2.14835e-17	1.00000
PhCCH+CH3	1.03948e-17	1.00000	1.03948e-17	1.00000
PhCCCH3+H	9.76042e-18	1.00000	9.76042e-18	1.00000
PhcycC3H3_B+H	7.88422e-18	1.00000	7.88422e-18	1.00000
Ph+MeAc	6.64247e-18	1.00000	6.64247e-18	1.00000
rad25	3.57593e-18	1.00000	3.57593e-18	1.00000
Ph+Allene	2.37087e-18	1.00000	2.37087e-18	1.00000
rad13	2.08582e-18	1.00000	2.08582e-18	1.00000
rad27	1.59238e-18	1.00000	1.59238e-18	1.00000
rad23	1.09024e-18	1.00000	1.09024e-18	1.00000
PhCH2CCH+H	3.69040e-19	1.00000	3.69040e-19	1.00000
rad30	9.20163e-20	1.00000	9.20163e-20	1.00000
rad33	4.07212e-20	1.00000	4.07212e-20	1.00000
rad19syn	2.91880e-21	1.00000	2.91880e-21	1.00000
rad31	2.49885e-21	1.00000	2.49885e-21	1.00000
rad37	1.29880e-21	1.00000	1.29880e-21	1.00000
rad28	5.68930e-22	1.00000	5.68930e-22	1.00000
rad60syn	2.58219e-22	1.00000	2.58219e-22	1.00000
rad60anti	1.22323e-22	1.00000	1.22323e-22	1.00000
rad14	8.61608e-23	1.00000	8.61608e-23	1.00000
PAH3+H	7.44207e-23	1.00000	7.44207e-23	1.00000
PAH7+H	2.28510e-23	1.00000	2.28510e-23	1.00000
rad59	1.59569e-23	1.00000	1.59569e-23	1.00000
rad38	3.19106e-24	1.00000	3.19106e-24	1.00000
PAH10+CH3	1.00593e-24	1.00000	1.00593e-24	1.00000
rad46	2.69174e-26	1.00000	2.69174e-26	1.00000
rad43	4.40484e-27	1.00000	4.40484e-27	1.00000
rad58	6.12037e-28	1.00000	6.12037e-28	1.00000
PAH9+H	4.35030e-28	1.00000	4.35030e-28	1.00000
rad70	3.00662e-28	1.00000	3.00662e-28	1.00000
rad50	9.98798e-29	1.00000	9.98798e-29	1.00000
PAH1+H	5.16617e-29	1.00000	5.16617e-29	1.00000
rad54	1.91351e-29	1.00000	1.91351e-29	1.00000
rad39	1.43854e-29	1.00000	1.43854e-29	1.00000
rad34	3.21119e-30	1.00000	3.21119e-30	1.00000
rad52	4.07462e-31	1.00000	4.07462e-31	1.00000
rad55	1.20860e-31	1.00000	1.20860e-31	1.00000
rad62	1.01473e-31	1.00000	1.01473e-31	1.00000
rad41	8.92560e-32	1.00000	8.92560e-32	1.00000
rad51	8.63890e-32	1.00000	8.63890e-32	1.00000
rad47	4.02657e-33	1.00000	4.02657e-33	1.00000
rad42	9.28875e-36	1.00000	9.28875e-36	1.00000
rad61	9.30826e-37	1.00000	9.30826e-37	1.00000
rad65	7.50997e-37	1.00000	7.50997e-37	1.00000
rad53	2.25159e-37	1.00000	2.25159e-37	1.00000
rad68syn	8.54864e-40	1.00000	8.54864e-40	1.00000
rad68anti	6.82793e-40	1.00000	6.82793e-40	1.00000
rad56	2.91635e-42	1.00000	2.91635e-42	1.00000
rad64	2.38719e-42	1.00000	2.38719e-42	1.00000
rad40syn	1.12777e-43	1.00000	1.12777e-43	1.00000
rad40anti	8.57714e-44	1.00000	8.57714e-44	1.00000
PAH8+H	2.00062e-45	1.00000	2.00062e-45	1.00000
rad73	4.15464e-47	1.00000	4.15464e-47	1.00000
rad71	9.37981e-51	1.00000	9.37981e-51	1.00000

10000000.0 Pa, 120.000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	2.79817e-15 (1.00)	2.79817e-15 (1.00)		
Formation of rad19	2.79817e-15 (1.000)	2.79817e-15 (1.000)		
H-abstraction to cyc2enyl	2.96039e-22 (1.06e-07)	2.96039e-22 (1.06e-07)		
H-abstraction to cyclenyl	1.95323e-28 (6.98e-14)	1.95323e-28 (6.98e-14)		
species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.838947	0.838947	0.838947	0.838947
rad9	0.160913	0.999860	0.160913	0.999860
rad8	0.000124033	0.999984	0.000124033	0.999984

rad15	1.34006e-05	0.999997	1.34006e-05	0.999997
rad12	3.01285e-06	1.00000	3.01285e-06	1.00000
Benzene+cycloprop-2-enylidene	1.05797e-07	1.00000	1.05797e-07	1.00000
Indene+H	1.94037e-08	1.00000	1.94037e-08	1.00000
rad7	1.15331e-10	1.00000	1.15331e-10	1.00000
PhCHCCH2+H	1.11724e-10	1.00000	1.11724e-10	1.00000
rad11	5.55457e-12	1.00000	5.55457e-12	1.00000
rad2	4.05979e-12	1.00000	4.05979e-12	1.00000
rad1	6.20543e-13	1.00000	6.20543e-13	1.00000
rad6	4.07163e-13	1.00000	4.07163e-13	1.00000
rad26	2.87567e-13	1.00000	2.87567e-13	1.00000
rad21	2.87552e-13	1.00000	2.87552e-13	1.00000
rad18	1.57653e-13	1.00000	1.57653e-13	1.00000
rad5	7.50010e-14	1.00000	7.50010e-14	1.00000
PhcycC3H3_A+H	7.48953e-14	1.00000	7.48953e-14	1.00000
Benzene+cycloprop-1-enylidene	6.98038e-14	1.00000	6.98038e-14	1.00000
rad20	3.24211e-14	1.00000	3.24211e-14	1.00000
rad22	9.71851e-15	1.00000	9.71851e-15	1.00000
Phenyl+cycC3H4	7.28066e-15	1.00000	0.00000	1.00000
rad45	1.86382e-15	1.00000	1.86382e-15	1.00000
rad67	1.84868e-15	1.00000	1.84868e-15	1.00000
rad35	8.44517e-16	1.00000	8.44517e-16	1.00000
rad24	5.46086e-16	1.00000	5.46086e-16	1.00000
rad36	2.18657e-16	1.00000	2.18657e-16	1.00000
rad10	1.82706e-16	1.00000	1.82706e-16	1.00000
C2H2+PhCH2	1.32598e-16	1.00000	1.32598e-16	1.00000
rad3	4.59083e-17	1.00000	4.59083e-17	1.00000
rad4	3.09557e-17	1.00000	3.09557e-17	1.00000
PhcycC3H3_B+H	2.15254e-17	1.00000	2.15254e-17	1.00000
PhCCCH3+H	1.43072e-17	1.00000	1.43072e-17	1.00000
PhCCH+CH3	1.34539e-17	1.00000	1.34539e-17	1.00000
Ph+MeAc	9.78665e-18	1.00000	9.78665e-18	1.00000
rad25	5.18219e-18	1.00000	5.18219e-18	1.00000
Ph+Allene	3.53677e-18	1.00000	3.53677e-18	1.00000
rad13	2.78909e-18	1.00000	2.78909e-18	1.00000
rad27	2.31905e-18	1.00000	2.31905e-18	1.00000
rad23	1.77155e-18	1.00000	1.77155e-18	1.00000
PhCH2CCH+H	5.60039e-19	1.00000	5.60039e-19	1.00000
rad30	1.46341e-19	1.00000	1.46341e-19	1.00000
rad33	5.41595e-20	1.00000	5.41595e-20	1.00000
rad31	2.85055e-21	1.00000	2.85055e-21	1.00000
rad37	2.08932e-21	1.00000	2.08932e-21	1.00000
rad19syn	1.45421e-21	1.00000	1.45421e-21	1.00000
rad28	9.14163e-22	1.00000	9.14163e-22	1.00000
rad60syn	4.21739e-22	1.00000	4.21739e-22	1.00000
rad60anti	2.00269e-22	1.00000	2.00269e-22	1.00000
rad14	1.44160e-22	1.00000	1.44160e-22	1.00000
PAH3+H	1.25675e-22	1.00000	1.25675e-22	1.00000
PAH7+H	3.82567e-23	1.00000	3.82567e-23	1.00000
rad59	2.68208e-23	1.00000	2.68208e-23	1.00000
rad38	5.43105e-24	1.00000	5.43105e-24	1.00000
PAH10+CH3	1.78296e-24	1.00000	1.78296e-24	1.00000
rad46	4.83210e-26	1.00000	4.83210e-26	1.00000
rad43	8.26819e-27	1.00000	8.26819e-27	1.00000
rad58	1.17721e-27	1.00000	1.17721e-27	1.00000
PAH9+H	8.30819e-28	1.00000	8.30819e-28	1.00000
rad70	5.87690e-28	1.00000	5.87690e-28	1.00000
rad50	1.90138e-28	1.00000	1.90138e-28	1.00000
PAH1+H	1.05543e-28	1.00000	1.05543e-28	1.00000
rad54	3.28486e-29	1.00000	3.28486e-29	1.00000
rad39	2.78792e-29	1.00000	2.78792e-29	1.00000
rad34	6.87277e-30	1.00000	6.87277e-30	1.00000
rad52	8.26829e-31	1.00000	8.26829e-31	1.00000
rad62	2.29227e-31	1.00000	2.29227e-31	1.00000
rad55	2.20246e-31	1.00000	2.20246e-31	1.00000
rad41	2.17490e-31	1.00000	2.17490e-31	1.00000
rad51	1.85179e-31	1.00000	1.85179e-31	1.00000
rad47	9.81805e-33	1.00000	9.81805e-33	1.00000
rad42	2.67843e-35	1.00000	2.67843e-35	1.00000
rad61	6.21340e-36	1.00000	6.21340e-36	1.00000
rad65	1.75379e-36	1.00000	1.75379e-36	1.00000
rad53	8.26383e-37	1.00000	8.26383e-37	1.00000
rad68syn	8.00470e-39	1.00000	8.00470e-39	1.00000
rad68anti	6.36389e-39	1.00000	6.36389e-39	1.00000
rad56	3.36969e-41	1.00000	3.36969e-41	1.00000
rad64	1.20503e-41	1.00000	1.20503e-41	1.00000
rad40syn	1.90463e-42	1.00000	1.90463e-42	1.00000
rad40anti	1.44524e-42	1.00000	1.44524e-42	1.00000
PAH8+H	4.78859e-44	1.00000	4.78859e-44	1.00000
rad73	7.12709e-46	1.00000	7.12709e-46	1.00000

rad71 | 2.85333e-49 1.00000 | 2.85333e-49 1.00000

10000000.0 Pa, 130.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.81236e-15 (1.00)	3.81236e-15 (1.00)
Formation of rad19	3.81236e-15 (1.000)	3.81236e-15 (1.000)
H-abstraction to cyc2enyl	1.44825e-21 (3.80e-07)	1.44825e-21 (3.80e-07)
H-abstraction to cyclenyl	2.94348e-27 (7.72e-13)	2.94348e-27 (7.72e-13)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.825634	0.825634	0.825634	0.825634
rad9	0.174249	0.999883	0.174249	0.999883
rad8	9.83686e-05	0.999981	9.83686e-05	0.999981
rad15	1.59922e-05	0.999997	1.59922e-05	0.999997
rad12	3.14093e-06	1.00000	3.14093e-06	1.00000
Benzene+cycloprop-2-enylidene	3.79882e-07	1.00000	3.79882e-07	1.00000
Indene+H	2.55876e-08	1.00000	2.55876e-08	1.00000
PhCHCCH2+H	1.40102e-10	1.00000	1.40102e-10	1.00000
rad7	1.24412e-10	1.00000	1.24412e-10	1.00000
rad11	6.99800e-12	1.00000	6.99800e-12	1.00000
rad2	5.12145e-12	1.00000	5.12145e-12	1.00000
Benzene+cycloprop-1-enylidene	7.72089e-13	1.00000	7.72089e-13	1.00000
rad1	7.69982e-13	1.00000	7.69982e-13	1.00000
rad6	4.87104e-13	1.00000	4.87104e-13	1.00000
rad26	3.80986e-13	1.00000	3.80986e-13	1.00000
rad21	3.64528e-13	1.00000	3.64528e-13	1.00000
rad18	2.15070e-13	1.00000	2.15070e-13	1.00000
PhcycC3H3_A+H	1.07905e-13	1.00000	1.07905e-13	1.00000
rad5	8.48459e-14	1.00000	8.48459e-14	1.00000
rad20	4.29656e-14	1.00000	4.29656e-14	1.00000
rad22	1.35929e-14	1.00000	1.35929e-14	1.00000
Phenyl+cycC3H4	1.10147e-14	1.00000	0.00000	1.00000
rad45	2.69864e-15	1.00000	2.69864e-15	1.00000
rad67	2.60729e-15	1.00000	2.60729e-15	1.00000
rad35	1.18769e-15	1.00000	1.18769e-15	1.00000
rad24	6.85345e-16	1.00000	6.85345e-16	1.00000
rad36	3.11533e-16	1.00000	3.11533e-16	1.00000
rad10	2.59008e-16	1.00000	2.59008e-16	1.00000
C2H2+PhCH2	1.88924e-16	1.00000	1.88924e-16	1.00000
rad3	6.55396e-17	1.00000	6.55396e-17	1.00000
PhcycC3H3_B+H	5.49953e-17	1.00000	5.49953e-17	1.00000
rad4	4.39751e-17	1.00000	4.39751e-17	1.00000
PhCCCH3+H	2.07340e-17	1.00000	2.07340e-17	1.00000
PhCCH+CH3	1.72695e-17	1.00000	1.72695e-17	1.00000
Ph+MeAc	1.42844e-17	1.00000	1.42844e-17	1.00000
rad25	7.40336e-18	1.00000	7.40336e-18	1.00000
Ph+Allene	5.21435e-18	1.00000	5.21435e-18	1.00000
rad13	3.70054e-18	1.00000	3.70054e-18	1.00000
rad27	3.33048e-18	1.00000	3.33048e-18	1.00000
rad23	2.81529e-18	1.00000	2.81529e-18	1.00000
PhCH2CCH+H	8.41289e-19	1.00000	8.41289e-19	1.00000
rad30	2.28019e-19	1.00000	2.28019e-19	1.00000
rad33	7.14789e-20	1.00000	7.14789e-20	1.00000
rad37	3.30434e-21	1.00000	3.30434e-21	1.00000
rad31	3.27389e-21	1.00000	3.27389e-21	1.00000
rad28	1.44570e-21	1.00000	1.44570e-21	1.00000
rad19syn	8.74106e-22	1.00000	8.74106e-22	1.00000
rad60syn	6.76495e-22	1.00000	6.76495e-22	1.00000
rad60anti	3.22094e-22	1.00000	3.22094e-22	1.00000
rad14	2.37209e-22	1.00000	2.37209e-22	1.00000
PAH3+H	2.09106e-22	1.00000	2.09106e-22	1.00000
PAH7+H	6.32192e-23	1.00000	6.32192e-23	1.00000
rad59	4.43957e-23	1.00000	4.43957e-23	1.00000
rad38	9.11603e-24	1.00000	9.11603e-24	1.00000
PAH10+CH3	3.13355e-24	1.00000	3.13355e-24	1.00000
rad46	8.50852e-26	1.00000	8.50852e-26	1.00000
rad43	1.54383e-26	1.00000	1.54383e-26	1.00000
rad58	2.25564e-27	1.00000	2.25564e-27	1.00000
PAH9+H	1.55660e-27	1.00000	1.55660e-27	1.00000
rad70	1.14747e-27	1.00000	1.14747e-27	1.00000
rad50	3.57147e-28	1.00000	3.57147e-28	1.00000
PAH1+H	2.15643e-28	1.00000	2.15643e-28	1.00000
rad54	5.65039e-29	1.00000	5.65039e-29	1.00000
rad39	5.34036e-29	1.00000	5.34036e-29	1.00000
rad34	1.47710e-29	1.00000	1.47710e-29	1.00000
rad52	1.65887e-30	1.00000	1.65887e-30	1.00000
rad41	5.32826e-31	1.00000	5.32826e-31	1.00000

rad62	5.16938e-31	1.00000	5.16938e-31	1.00000
rad55	4.04274e-31	1.00000	4.04274e-31	1.00000
rad51	3.94330e-31	1.00000	3.94330e-31	1.00000
rad47	2.39892e-32	1.00000	2.39892e-32	1.00000
rad42	7.78977e-35	1.00000	7.78977e-35	1.00000
rad61	3.88946e-35	1.00000	3.88946e-35	1.00000
rad65	4.11307e-36	1.00000	4.11307e-36	1.00000
rad53	2.92252e-36	1.00000	2.92252e-36	1.00000
rad68syn	6.96659e-38	1.00000	6.96659e-38	1.00000
rad68anti	5.50787e-38	1.00000	5.50787e-38	1.00000
rad56	3.29746e-40	1.00000	3.29746e-40	1.00000
rad64	5.96922e-41	1.00000	5.96922e-41	1.00000
rad40syn	2.99714e-41	1.00000	2.99714e-41	1.00000
rad40anti	2.26731e-41	1.00000	2.26731e-41	1.00000
PAH8+H	1.07375e-42	1.00000	1.07375e-42	1.00000
rad73	1.14852e-44	1.00000	1.14852e-44	1.00000
rad71	8.12605e-48	1.00000	8.12605e-48	1.00000

10000000.0 Pa, 140.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.99515e-15 (1.00)	4.99515e-15 (1.00)
Formation of rad19	4.99514e-15 (1.000)	4.99514e-15 (1.000)
H-abstraction to cyc2enyl	5.62488e-21 (1.13e-06)	5.62488e-21 (1.13e-06)
H-abstraction to cyclenyl	3.00047e-26 (6.01e-12)	3.00047e-26 (6.01e-12)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.812275	0.812275	0.812275	0.812275
rad9	0.187623	0.999898	0.187623	0.999898
rad8	7.83561e-05	0.999976	7.83561e-05	0.999976
rad15	1.88798e-05	0.999995	1.88798e-05	0.999995
rad12	3.25391e-06	0.999998	3.25391e-06	0.999998
Benzene+cycloprop-2-enylidene	1.12607e-06	0.999999	1.12607e-06	0.999999
Indene+H	3.32245e-08	1.000000	3.32245e-08	1.000000
PhCHCCH2+H	1.74359e-10	1.000000	1.74359e-10	1.000000
rad7	1.34612e-10	1.000000	1.34612e-10	1.000000
rad11	8.75054e-12	1.000000	8.75054e-12	1.000000
rad2	6.41441e-12	1.000000	6.41441e-12	1.000000
Benzene+cycloprop-1-enylidene	6.00677e-12	1.000000	6.00677e-12	1.000000
rad1	9.50253e-13	1.000000	9.50253e-13	1.000000
rad6	5.82161e-13	1.000000	5.82161e-13	1.000000
rad26	4.98601e-13	1.000000	4.98601e-13	1.000000
rad21	4.59131e-13	1.000000	4.59131e-13	1.000000
rad18	2.89588e-13	1.000000	2.89588e-13	1.000000
PhcycC3H3_A+H	1.56428e-13	1.000000	1.56428e-13	1.000000
rad5	9.57721e-14	1.000000	9.57721e-14	1.000000
rad20	5.68252e-14	1.000000	5.68252e-14	1.000000
rad22	1.88067e-14	1.000000	1.88067e-14	1.000000
Phenyl+cycC3H4	1.65390e-14	1.000000	0.000000	1.000000
rad45	3.85157e-15	1.000000	3.85157e-15	1.000000
rad67	3.63846e-15	1.000000	3.63846e-15	1.000000
rad35	1.65235e-15	1.000000	1.65235e-15	1.000000
rad24	8.52419e-16	1.000000	8.52419e-16	1.000000
rad36	4.38217e-16	1.000000	4.38217e-16	1.000000
rad10	3.63523e-16	1.000000	3.63523e-16	1.000000
C2H2+PhCH2	2.69661e-16	1.000000	2.69661e-16	1.000000
PhcycC3H3_B+H	1.32855e-16	1.000000	1.32855e-16	1.000000
rad3	9.26511e-17	1.000000	9.26511e-17	1.000000
rad4	6.18914e-17	1.000000	6.18914e-17	1.000000
PhCCCH3+H	2.98547e-17	1.000000	2.98547e-17	1.000000
PhCCH+CH3	2.20596e-17	1.000000	2.20596e-17	1.000000
Ph+MeAc	2.07571e-17	1.000000	2.07571e-17	1.000000
rad25	1.04785e-17	1.000000	1.04785e-17	1.000000
Ph+Allene	7.63835e-18	1.000000	7.63835e-18	1.000000
rad13	4.88895e-18	1.000000	4.88895e-18	1.000000
rad27	4.74041e-18	1.000000	4.74041e-18	1.000000
rad23	4.40510e-18	1.000000	4.40510e-18	1.000000
PhCH2CCH+H	1.25792e-18	1.000000	1.25792e-18	1.000000
rad30	3.50331e-19	1.000000	3.50331e-19	1.000000
rad33	9.39371e-20	1.000000	9.39371e-20	1.000000
rad37	5.17215e-21	1.000000	5.17215e-21	1.000000
rad31	3.78779e-21	1.000000	3.78779e-21	1.000000
rad28	2.26502e-21	1.000000	2.26502e-21	1.000000
rad60syn	1.07299e-21	1.000000	1.07299e-21	1.000000
rad19syn	6.18746e-22	1.000000	6.18746e-22	1.000000
rad60anti	5.12358e-22	1.000000	5.12358e-22	1.000000
rad14	3.86611e-22	1.000000	3.86611e-22	1.000000
PAH3+H	3.45285e-22	1.000000	3.45285e-22	1.000000

PAH7+H	1.03858e-22	1.000000	1.03858e-22	1.000000
rad59	7.28871e-23	1.000000	7.28871e-23	1.000000
rad38	1.51995e-23	1.000000	1.51995e-23	1.000000
PAH10+CH3	5.50200e-24	1.000000	5.50200e-24	1.000000
rad46	1.48189e-25	1.000000	1.48189e-25	1.000000
rad43	2.89095e-26	1.000000	2.89095e-26	1.000000
rad58	4.33943e-27	1.000000	4.33943e-27	1.000000
PAH9+H	2.88765e-27	1.000000	2.88765e-27	1.000000
rad70	2.25635e-27	1.000000	2.25635e-27	1.000000
rad50	6.67951e-28	1.000000	6.67951e-28	1.000000
PAH1+H	4.43826e-28	1.000000	4.43826e-28	1.000000
rad39	1.02085e-28	1.000000	1.02085e-28	1.000000
rad54	9.80244e-29	1.000000	9.80244e-29	1.000000
rad34	3.21241e-29	1.000000	3.21241e-29	1.000000
rad52	3.32362e-30	1.000000	3.32362e-30	1.000000
rad41	1.32115e-30	1.000000	1.32115e-30	1.000000
rad62	1.17631e-30	1.000000	1.17631e-30	1.000000
rad51	8.42750e-31	1.000000	8.42750e-31	1.000000
rad55	7.52220e-31	1.000000	7.52220e-31	1.000000
rad47	5.91673e-32	1.000000	5.91673e-32	1.000000
rad42	2.30452e-34	1.000000	2.30452e-34	1.000000
rad61	2.26060e-34	1.000000	2.26060e-34	1.000000
rad53	1.00225e-35	1.000000	1.00225e-35	1.000000
rad65	9.79316e-36	1.000000	9.79316e-36	1.000000
rad68syn	5.52873e-37	1.000000	5.52873e-37	1.000000
rad68anti	4.34233e-37	1.000000	4.34233e-37	1.000000
rad56	2.72634e-39	1.000000	2.72634e-39	1.000000
rad40syn	4.23984e-40	1.000000	4.23984e-40	1.000000
rad40anti	3.19516e-40	1.000000	3.19516e-40	1.000000
rad64	2.90769e-40	1.000000	2.90769e-40	1.000000
PAH8+H	2.15736e-41	1.000000	2.15736e-41	1.000000
rad73	1.68961e-43	1.000000	1.68961e-43	1.000000
rad71	2.07280e-46	1.000000	2.07280e-46	1.000000

10000000.0 Pa, 150.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.34137e-15 (1.00)	6.34137e-15 (1.00)
Formation of rad19	6.34135e-15 (1.000)	6.34135e-15 (1.000)
H-abstraction to cyc2enyl	1.81685e-20 (2.87e-06)	1.81685e-20 (2.87e-06)
H-abstraction to cyclenyl	2.23765e-25 (3.53e-11)	2.23765e-25 (3.53e-11)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.798825	0.798825	0.798825	0.798825
rad9	0.201084	0.999909	0.201084	0.999909
rad8	6.26573e-05	0.999972	6.26573e-05	0.999972
rad15	2.20968e-05	0.999994	2.20968e-05	0.999994
rad12	3.35499e-06	0.999997	3.35499e-06	0.999997
Benzene+cycloprop-2-enylidene	2.86508e-06	1.00000	2.86508e-06	1.00000
Indene+H	4.26222e-08	1.00000	4.26222e-08	1.00000
PhCHCCH2+H	2.15900e-10	1.00000	2.15900e-10	1.00000
rad7	1.46147e-10	1.00000	1.46147e-10	1.00000
Benzene+cycloprop-1-enylidene	3.52865e-11	1.00000	3.52865e-11	1.00000
rad11	1.08885e-11	1.00000	1.08885e-11	1.00000
rad2	7.99675e-12	1.00000	7.99675e-12	1.00000
rad1	1.16913e-12	1.00000	1.16913e-12	1.00000
rad6	6.96214e-13	1.00000	6.96214e-13	1.00000
rad26	6.46831e-13	1.00000	6.46831e-13	1.00000
rad21	5.76073e-13	1.00000	5.76073e-13	1.00000
rad18	3.86272e-13	1.00000	3.86272e-13	1.00000
PhcycC3H3_A+H	2.28477e-13	1.00000	2.28477e-13	1.00000
rad5	1.08018e-13	1.00000	1.08018e-13	1.00000
rad20	7.51385e-14	1.00000	7.51385e-14	1.00000
rad22	2.58392e-14	1.00000	2.58392e-14	1.00000
Phenyl+cycC3H4	2.47117e-14	1.00000	0.00000	1.00000
rad45	5.44414e-15	1.00000	5.44414e-15	1.00000
rad67	5.04399e-15	1.00000	5.04399e-15	1.00000
rad35	2.28310e-15	1.00000	2.28310e-15	1.00000
rad24	1.05419e-15	1.00000	1.05419e-15	1.00000
rad36	6.11312e-16	1.00000	6.11312e-16	1.00000
rad10	5.07197e-16	1.00000	5.07197e-16	1.00000
C2H2+PhCH2	3.86774e-16	1.00000	3.86774e-16	1.00000
PhcycC3H3_B+H	3.06504e-16	1.00000	3.06504e-16	1.00000
rad3	1.30239e-16	1.00000	1.30239e-16	1.00000
rad4	8.66537e-17	1.00000	8.66537e-17	1.00000
PhCCCH3+H	4.28924e-17	1.00000	4.28924e-17	1.00000
Ph+MeAc	3.01574e-17	1.00000	3.01574e-17	1.00000
PhCCH+CH3	2.81220e-17	1.00000	2.81220e-17	1.00000

rad25	1.47547e-17	1.00000	1.47547e-17	1.00000
Ph+Allene	1.11678e-17	1.00000	1.11678e-17	1.00000
rad23	6.82457e-18	1.00000	6.82457e-18	1.00000
rad27	6.71529e-18	1.00000	6.71529e-18	1.00000
rad13	6.45032e-18	1.00000	6.45032e-18	1.00000
PhCH2CCH+H	1.88097e-18	1.00000	1.88097e-18	1.00000
rad30	5.33599e-19	1.00000	5.33599e-19	1.00000
rad33	1.23278e-19	1.00000	1.23278e-19	1.00000
rad37	8.05719e-21	1.00000	8.05719e-21	1.00000
rad31	4.41772e-21	1.00000	4.41772e-21	1.00000
rad28	3.53511e-21	1.00000	3.53511e-21	1.00000
rad60syn	1.69247e-21	1.00000	1.69247e-21	1.00000
rad60anti	8.10735e-22	1.00000	8.10735e-22	1.00000
rad14	6.27921e-22	1.00000	6.27921e-22	1.00000
PAH3+H	5.69297e-22	1.00000	5.69297e-22	1.00000
rad19syn	5.06572e-22	1.00000	5.06572e-22	1.00000
PAH7+H	1.70655e-22	1.00000	1.70655e-22	1.00000
rad59	1.19407e-22	1.00000	1.19407e-22	1.00000
rad38	2.53273e-23	1.00000	2.53273e-23	1.00000
PAH10+CH3	9.71236e-24	1.00000	9.71236e-24	1.00000
rad46	2.57085e-25	1.00000	2.57085e-25	1.00000
rad43	5.46664e-26	1.00000	5.46664e-26	1.00000
rad58	8.43594e-27	1.00000	8.43594e-27	1.00000
PAH9+H	5.34613e-27	1.00000	5.34613e-27	1.00000
rad70	4.49821e-27	1.00000	4.49821e-27	1.00000
rad50	1.25344e-27	1.00000	1.25344e-27	1.00000
PAH1+H	9.25238e-28	1.00000	9.25238e-28	1.00000
rad39	1.96347e-28	1.00000	1.96347e-28	1.00000
rad54	1.72385e-28	1.00000	1.72385e-28	1.00000
rad34	7.11093e-29	1.00000	7.11093e-29	1.00000
rad52	6.70531e-30	1.00000	6.70531e-30	1.00000
rad41	3.33106e-30	1.00000	3.33106e-30	1.00000
rad62	2.72476e-30	1.00000	2.72476e-30	1.00000
rad51	1.82271e-30	1.00000	1.82271e-30	1.00000
rad55	1.42529e-30	1.00000	1.42529e-30	1.00000
rad47	1.47995e-31	1.00000	1.47995e-31	1.00000
rad61	1.22063e-33	1.00000	1.22063e-33	1.00000
rad42	6.97612e-34	1.00000	6.97612e-34	1.00000
rad53	3.35182e-35	1.00000	3.35182e-35	1.00000
rad65	2.38812e-35	1.00000	2.38812e-35	1.00000
rad68syn	3.98818e-36	1.00000	3.98818e-36	1.00000
rad68anti	3.10845e-36	1.00000	3.10845e-36	1.00000
rad56	1.93922e-38	1.00000	1.93922e-38	1.00000
rad40syn	5.29849e-39	1.00000	5.29849e-39	1.00000
rad40anti	3.97523e-39	1.00000	3.97523e-39	1.00000
rad64	1.39795e-39	1.00000	1.39795e-39	1.00000
PAH8+H	3.77566e-40	1.00000	3.77566e-40	1.00000
rad73	2.23856e-42	1.00000	2.23856e-42	1.00000
rad71	4.59203e-45	1.00000	4.59203e-45	1.00000

10000000.0 Pa, 160.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.84423e-15 (1.00)	7.84423e-15 (1.00)
Formation of rad19	7.84418e-15 (1.000)	7.84418e-15 (1.000)
H-abstraction to cyc2enyl	5.05321e-20 (6.44e-06)	5.05321e-20 (6.44e-06)
H-abstraction to cyclenyl	1.29479e-24 (1.65e-10)	1.29479e-24 (1.65e-10)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.785230	0.785230	0.785230	0.785230
rad9	0.214684	0.999914	0.214684	0.999914
rad8	5.02759e-05	0.999964	5.02759e-05	0.999964
rad15	2.56845e-05	0.999990	2.56845e-05	0.999990
Benzene+cycloprop-2-enylidene	6.44194e-06	0.999996	6.44194e-06	0.999996
rad12	3.44688e-06	0.999999	3.44688e-06	0.999999
Indene+H	5.41699e-08	0.999999	5.41699e-08	0.999999
PhCHCCH2+H	2.66568e-10	0.999999	2.66568e-10	0.999999
Benzene+cycloprop-1-enylidene	1.65062e-10	0.999999	1.65062e-10	0.999999
rad7	1.59270e-10	0.999999	1.59270e-10	0.999999
rad11	1.35122e-11	0.999999	1.35122e-11	0.999999
rad2	9.94515e-12	0.999999	9.94515e-12	0.999999
rad1	1.43686e-12	0.999999	1.43686e-12	0.999999
rad6	8.34296e-13	0.999999	8.34296e-13	0.999999
rad26	8.34216e-13	0.999999	8.34216e-13	0.999999
rad21	7.21638e-13	0.999999	7.21638e-13	0.999999
rad18	5.11978e-13	0.999999	5.11978e-13	0.999999
PhcycC3H3_A+H	3.36537e-13	0.999999	3.36537e-13	0.999999
rad5	1.21872e-13	0.999999	1.21872e-13	0.999999

rad20	9.95003e-14	0.999999	9.95003e-14	0.999999
Phenyl+cycC3H4	3.68056e-14	0.999999	0.00000	0.999999
rad22	3.53701e-14	0.999999	3.53701e-14	0.999999
rad45	7.65112e-15	0.999999	7.65112e-15	0.999999
rad67	6.96998e-15	0.999999	6.96998e-15	0.999999
rad35	3.14368e-15	0.999999	3.14368e-15	0.999999
rad24	1.29982e-15	0.999999	1.29982e-15	0.999999
rad36	8.48897e-16	0.999999	8.48897e-16	0.999999
rad10	7.05931e-16	0.999999	7.05931e-16	0.999999
PhcycC3H3_B+H	6.81242e-16	0.999999	6.81242e-16	0.999999
C2H2+PhCH2	5.58993e-16	0.999999	5.58993e-16	0.999999
rad3	1.82693e-16	0.999999	1.82693e-16	0.999999
rad4	1.21116e-16	0.999999	1.21116e-16	0.999999
PhCCCH3+H	6.17152e-17	0.999999	6.17152e-17	0.999999
Ph+MeAc	4.39710e-17	0.999999	4.39710e-17	0.999999
PhCCH+CH3	3.58666e-17	0.999999	3.58666e-17	0.999999
rad25	2.07425e-17	0.999999	2.07425e-17	0.999999
Ph+Allene	1.63607e-17	0.999999	1.63607e-17	0.999999
rad23	1.05181e-17	0.999999	1.05181e-17	0.999999
rad27	9.50210e-18	0.999999	9.50210e-18	0.999999
rad13	8.51951e-18	0.999999	8.51951e-18	0.999999
PhCH2CCH+H	2.82438e-18	0.999999	2.82438e-18	0.999999
rad30	8.09425e-19	0.999999	8.09425e-19	0.999999
rad33	1.61932e-19	0.999999	1.61932e-19	0.999999
rad37	1.25513e-20	0.999999	1.25513e-20	0.999999
rad28	5.52228e-21	0.999999	5.52228e-21	0.999999
rad31	5.19834e-21	0.999999	5.19834e-21	0.999999
rad60syn	2.66795e-21	0.999999	2.66795e-21	0.999999
rad60anti	1.28249e-21	0.999999	1.28249e-21	0.999999
rad14	1.02166e-21	0.999999	1.02166e-21	0.999999
PAH3+H	9.42237e-22	0.999999	9.42237e-22	0.999999
rad19syn	4.73144e-22	0.999999	4.73144e-22	0.999999
PAH7+H	2.81956e-22	0.999999	2.81956e-22	0.999999
rad59	1.96222e-22	0.999999	1.96222e-22	0.999999
rad38	4.23985e-23	0.999999	4.23985e-23	0.999999
PAH10+CH3	1.73277e-23	0.999999	1.73277e-23	0.999999
rad46	4.46963e-25	0.999999	4.46963e-25	0.999999
rad43	1.04991e-25	0.999999	1.04991e-25	0.999999
rad58	1.66584e-26	0.999999	1.66584e-26	0.999999
PAH9+H	9.94669e-27	0.999999	9.94669e-27	0.999999
rad70	9.14055e-27	0.999999	9.14055e-27	0.999999
rad50	2.37559e-27	0.999999	2.37559e-27	0.999999
PAH1+H	1.96174e-27	0.999999	1.96174e-27	0.999999
rad39	3.82674e-28	0.999999	3.82674e-28	0.999999
rad54	3.08444e-28	0.999999	3.08444e-28	0.999999
rad34	1.60901e-28	0.999999	1.60901e-28	0.999999
rad52	1.37166e-29	0.999999	1.37166e-29	0.999999
rad41	8.56833e-30	0.999999	8.56833e-30	0.999999
rad62	6.47069e-30	0.999999	6.47069e-30	0.999999
rad51	4.01630e-30	0.999999	4.01630e-30	0.999999
rad55	2.75777e-30	0.999999	2.75777e-30	0.999999
rad47	3.76342e-31	0.999999	3.76342e-31	0.999999
rad61	6.16517e-33	0.999999	6.16517e-33	0.999999
rad42	2.16951e-33	0.999999	2.16951e-33	0.999999
rad53	1.09796e-34	0.999999	1.09796e-34	0.999999
rad65	6.00555e-35	0.999999	6.00555e-35	0.999999
rad68syn	2.63395e-35	0.999999	2.63395e-35	0.999999
rad68anti	2.03536e-35	0.999999	2.03536e-35	0.999999
rad56	1.21384e-37	0.999999	1.21384e-37	0.999999
rad40syn	5.83955e-38	0.999999	5.83955e-38	0.999999
rad40anti	4.36030e-38	0.999999	4.36030e-38	0.999999
rad64	6.66498e-39	0.999999	6.66498e-39	0.999999
PAH8+H	5.68895e-39	0.999999	5.68895e-39	0.999999
rad73	2.66642e-41	0.999999	2.66642e-41	0.999999
rad71	8.68615e-44	0.999999	8.68615e-44	0.999999

10000000.0 Pa, 170.000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	9.49598e-15 (1.00)	9.49598e-15 (1.00)		
Formation of rad19	9.49586e-15 (1.000)	9.49586e-15 (1.000)		
H-abstraction to cyc2enyl	1.24279e-19 (1.31e-05)	1.24279e-19 (1.31e-05)		
H-abstraction to cyclenyl	6.08025e-24 (6.40e-10)	6.08025e-24 (6.40e-10)		
species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.771444	0.771444	0.771444	0.771444
rad9	0.228469	0.999913	0.228469	0.999913
rad8	4.04634e-05	0.999953	4.04634e-05	0.999953

rad15	2.96927e-05	0.999983	2.96927e-05	0.999983
Benzene+cycloprop-2-enylidene	1.30875e-05	0.999996	1.30875e-05	0.999996
rad12	3.53187e-06	1.000000	3.53187e-06	1.000000
Indene+H	6.83637e-08	1.000000	6.83637e-08	1.000000
Benzene+cycloprop-1-enylidene	6.40297e-10	1.000000	6.40297e-10	1.000000
PhCHCCH2+H	3.28793e-10	1.000000	3.28793e-10	1.000000
rad7	1.74282e-10	1.000000	1.74282e-10	1.000000
rad11	1.67550e-11	1.000000	1.67550e-11	1.000000
rad2	1.23616e-11	1.000000	1.23616e-11	1.000000
rad1	1.76712e-12	1.000000	1.76712e-12	1.000000
rad26	1.07222e-12	1.000000	1.07222e-12	1.000000
rad6	1.00297e-12	1.000000	1.00297e-12	1.000000
rad21	9.04259e-13	1.000000	9.04259e-13	1.000000
rad18	6.76069e-13	1.000000	6.76069e-13	1.000000
PhcycC3H3_A+H	5.00216e-13	1.000000	5.00216e-13	1.000000
rad5	1.37693e-13	1.000000	1.37693e-13	1.000000
rad20	1.32169e-13	1.000000	1.32169e-13	1.000000
Phenyl+cycC3H4	5.47020e-14	1.000000	0.00000	1.000000
rad22	4.83733e-14	1.000000	4.83733e-14	1.000000
rad45	1.07269e-14	1.000000	1.07269e-14	1.000000
rad67	9.62867e-15	1.000000	9.62867e-15	1.000000
rad35	4.32616e-15	1.000000	4.32616e-15	1.000000
rad24	1.60151e-15	1.000000	1.60151e-15	1.000000
PhcycC3H3_B+H	1.46962e-15	1.000000	1.46962e-15	1.000000
rad36	1.17720e-15	1.000000	1.17720e-15	1.000000
rad10	9.83149e-16	1.000000	9.83149e-16	1.000000
C2H2+PhCH2	8.16164e-16	1.000000	8.16164e-16	1.000000
rad3	2.56541e-16	1.000000	2.56541e-16	1.000000
rad4	1.69521e-16	1.000000	1.69521e-16	1.000000
PhCCCH3+H	8.92234e-17	1.000000	8.92234e-17	1.000000
Ph+MeAc	6.45568e-17	1.000000	6.45568e-17	1.000000
PhCCH+CH3	4.58615e-17	1.000000	4.58615e-17	1.000000
rad25	2.92046e-17	1.000000	2.92046e-17	1.000000
Ph+Allene	2.41000e-17	1.000000	2.41000e-17	1.000000
rad23	1.61933e-17	1.000000	1.61933e-17	1.000000
rad27	1.34727e-17	1.000000	1.34727e-17	1.000000
rad13	1.12874e-17	1.000000	1.12874e-17	1.000000
PhCH2CCH+H	4.27420e-18	1.000000	4.27420e-18	1.000000
rad30	1.22773e-18	1.000000	1.22773e-18	1.000000
rad33	2.13305e-19	1.000000	2.13305e-19	1.000000
rad37	1.96333e-20	1.000000	1.96333e-20	1.000000
rad28	8.66979e-21	1.000000	8.66979e-21	1.000000
rad31	6.17713e-21	1.000000	6.17713e-21	1.000000
rad60syn	4.22142e-21	1.000000	4.22142e-21	1.000000
rad60anti	2.03704e-21	1.000000	2.03704e-21	1.000000
rad14	1.67306e-21	1.000000	1.67306e-21	1.000000
PAH3+H	1.57281e-21	1.000000	1.57281e-21	1.000000
rad19syn	4.98787e-22	1.000000	4.98787e-22	1.000000
PAH7+H	4.70589e-22	1.000000	4.70589e-22	1.000000
rad59	3.24953e-22	1.000000	3.24953e-22	1.000000
rad38	7.16261e-23	1.000000	7.16261e-23	1.000000
PAH10+CH3	3.13822e-23	1.000000	3.13822e-23	1.000000
rad46	7.82876e-25	1.000000	7.82876e-25	1.000000
rad43	2.05797e-25	1.000000	2.05797e-25	1.000000
rad58	3.35546e-26	1.000000	3.35546e-26	1.000000
rad70	1.90130e-26	1.000000	1.90130e-26	1.000000
PAH9+H	1.87129e-26	1.000000	1.87129e-26	1.000000
rad50	4.57320e-27	1.000000	4.57320e-27	1.000000
PAH1+H	4.24317e-27	1.000000	4.24317e-27	1.000000
rad39	7.60388e-28	1.000000	7.60388e-28	1.000000
rad54	5.62844e-28	1.000000	5.62844e-28	1.000000
rad34	3.73320e-28	1.000000	3.73320e-28	1.000000
rad52	2.86157e-29	1.000000	2.86157e-29	1.000000
rad41	2.25379e-29	1.000000	2.25379e-29	1.000000
rad62	1.58433e-29	1.000000	1.58433e-29	1.000000
rad51	9.06431e-30	1.000000	9.06431e-30	1.000000
rad55	5.45543e-30	1.000000	5.45543e-30	1.000000
rad47	9.73832e-31	1.000000	9.73832e-31	1.000000
rad61	2.94165e-32	1.000000	2.94165e-32	1.000000
rad42	6.95131e-33	1.000000	6.95131e-33	1.000000
rad53	3.53460e-34	1.000000	3.53460e-34	1.000000
rad68syn	1.61229e-34	1.000000	1.61229e-34	1.000000
rad65	1.56573e-34	1.000000	1.56573e-34	1.000000
rad68anti	1.23436e-34	1.000000	1.23436e-34	1.000000
rad56	6.83036e-37	1.000000	6.83036e-37	1.000000
rad40syn	5.71415e-37	1.000000	5.71415e-37	1.000000
rad40anti	4.24692e-37	1.000000	4.24692e-37	1.000000
PAH8+H	7.36417e-38	1.000000	7.36417e-38	1.000000
rad64	3.16782e-38	1.000000	3.16782e-38	1.000000
rad73	2.86487e-40	1.000000	2.86487e-40	1.000000

rad71 | 1.39073e-42 1.000000 | 1.39073e-42 1.000000

10000000.0 Pa, 180.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.12884e-14 (1.00)	1.12884e-14 (1.00)
Formation of rad19	1.12881e-14 (1.000)	1.12881e-14 (1.000)
H-abstraction to cyc2enyl	2.75916e-19 (2.44e-05)	2.75916e-19 (2.44e-05)
H-abstraction to cyc1enyl	2.39955e-23 (2.13e-09)	2.39955e-23 (2.13e-09)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.757415	0.757415	0.757415	0.757415
rad9	0.242489	0.999905	0.242489	0.999905
rad15	3.41814e-05	0.999939	3.41814e-05	0.999939
rad8	3.26527e-05	0.999971	3.26527e-05	0.999971
Benzene+cycloprop-2-enylidene	2.44424e-05	0.999996	2.44424e-05	0.999996
rad12	3.61192e-06	0.999999	3.61192e-06	0.999999
Indene+H	8.58407e-08	1.000000	8.58407e-08	1.000000
Benzene+cycloprop-1-enylidene	2.12567e-09	1.000000	2.12567e-09	1.000000
PhCHCH2+H	4.05795e-10	1.000000	4.05795e-10	1.000000
rad7	1.91537e-10	1.000000	1.91537e-10	1.000000
rad11	2.07945e-11	1.000000	2.07945e-11	1.000000
rad2	1.53827e-11	1.000000	1.53827e-11	1.000000
rad1	2.17819e-12	1.000000	2.17819e-12	1.000000
rad26	1.37632e-12	1.000000	1.37632e-12	1.000000
rad6	1.21079e-12	1.000000	1.21079e-12	1.000000
rad21	1.13534e-12	1.000000	1.13534e-12	1.000000
rad18	8.91471e-13	1.000000	8.91471e-13	1.000000
PhcycC3H3_A+H	7.50581e-13	1.000000	7.50581e-13	1.000000
rad20	1.76378e-13	1.000000	1.76378e-13	1.000000
rad5	1.55919e-13	1.000000	1.55919e-13	1.000000
Phenyl+cycC3H4	8.11728e-14	1.000000	0.000000	1.000000
rad22	6.62623e-14	1.000000	6.62623e-14	1.000000
rad45	1.50464e-14	1.000000	1.50464e-14	1.000000
rad67	1.33326e-14	1.000000	1.33326e-14	1.000000
rad35	5.96552e-15	1.000000	5.96552e-15	1.000000
PhcycC3H3_B+H	3.09651e-15	1.000000	3.09651e-15	1.000000
rad24	1.97560e-15	1.000000	1.97560e-15	1.000000
rad36	1.63483e-15	1.000000	1.63483e-15	1.000000
rad10	1.37385e-15	1.000000	1.37385e-15	1.000000
C2H2+PhCH2	1.20671e-15	1.000000	1.20671e-15	1.000000
rad3	3.61631e-16	1.000000	3.61631e-16	1.000000
rad4	2.38262e-16	1.000000	2.38262e-16	1.000000
PhCCCH3+H	1.30000e-16	1.000000	1.30000e-16	1.000000
Ph+MeAc	9.57294e-17	1.000000	9.57294e-17	1.000000
PhCCH+CH3	5.89031e-17	1.000000	5.89031e-17	1.000000
rad25	4.12960e-17	1.000000	4.12960e-17	1.000000
Ph+Allene	3.58075e-17	1.000000	3.58075e-17	1.000000
rad23	2.49943e-17	1.000000	2.49943e-17	1.000000
rad27	1.91957e-17	1.000000	1.91957e-17	1.000000
rad13	1.50260e-17	1.000000	1.50260e-17	1.000000
PhCH2CCH+H	6.54036e-18	1.000000	6.54036e-18	1.000000
rad30	1.86880e-18	1.000000	1.86880e-18	1.000000
rad33	2.82191e-19	1.000000	2.82191e-19	1.000000
rad37	3.09521e-20	1.000000	3.09521e-20	1.000000
rad28	1.37294e-20	1.000000	1.37294e-20	1.000000
rad31	7.41999e-21	1.000000	7.41999e-21	1.000000
rad60syn	6.73080e-21	1.000000	6.73080e-21	1.000000
rad60anti	3.26159e-21	1.000000	3.26159e-21	1.000000
rad14	2.76906e-21	1.000000	2.76906e-21	1.000000
PAH3+H	2.65900e-21	1.000000	2.65900e-21	1.000000
PAH7+H	7.96694e-22	1.000000	7.96694e-22	1.000000
rad19syn	5.88357e-22	1.000000	5.88357e-22	1.000000
rad59	5.44560e-22	1.000000	5.44560e-22	1.000000
rad38	1.22594e-22	1.000000	1.22594e-22	1.000000
PAH10+CH3	5.79124e-23	1.000000	5.79124e-23	1.000000
rad46	1.38798e-24	1.000000	1.38798e-24	1.000000
rad43	4.13379e-25	1.000000	4.13379e-25	1.000000
rad58	6.91786e-26	1.000000	6.91786e-26	1.000000
rad70	4.06213e-26	1.000000	4.06213e-26	1.000000
PAH9+H	3.57977e-26	1.000000	3.57977e-26	1.000000
PAH1+H	9.38486e-27	1.000000	9.38486e-27	1.000000
rad50	8.98635e-27	1.000000	8.98635e-27	1.000000
rad39	1.54871e-27	1.000000	1.54871e-27	1.000000
rad54	1.04859e-27	1.000000	1.04859e-27	1.000000
rad34	8.90288e-28	1.000000	8.90288e-28	1.000000
rad52	6.11778e-29	1.000000	6.11778e-29	1.000000
rad41	6.07429e-29	1.000000	6.07429e-29	1.000000

rad62	4.01797e-29	1.000000	4.01797e-29	1.000000
rad51	2.10432e-29	1.000000	2.10432e-29	1.000000
rad55	1.10318e-29	1.000000	1.10318e-29	1.000000
rad47	2.56411e-30	1.000000	2.56411e-30	1.000000
rad61	1.34026e-31	1.000000	1.34026e-31	1.000000
rad42	2.30030e-32	1.000000	2.30030e-32	1.000000
rad53	1.12114e-33	1.000000	1.12114e-33	1.000000
rad68syn	9.27042e-34	1.000000	9.27042e-34	1.000000
rad68anti	7.02972e-34	1.000000	7.02972e-34	1.000000
rad65	4.25004e-34	1.000000	4.25004e-34	1.000000
rad40syn	5.01072e-36	1.000000	5.01072e-36	1.000000
rad40anti	3.70913e-36	1.000000	3.70913e-36	1.000000
rad56	3.51978e-36	1.000000	3.51978e-36	1.000000
PAH8+H	8.22492e-37	1.000000	8.22492e-37	1.000000
rad64	1.50856e-37	1.000000	1.50856e-37	1.000000
rad73	2.78702e-39	1.000000	2.78702e-39	1.000000
rad71	1.88604e-41	1.000000	1.88604e-41	1.000000

10000000.0 Pa, 190.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.32132e-14 (1.00)	1.32132e-14 (1.00)
Formation of rad19	1.32126e-14 (1.000)	1.32126e-14 (1.000)
H-abstraction to cyc2enyl	5.62053e-19 (4.25e-05)	5.62053e-19 (4.25e-05)
H-abstraction to cyclenyl	8.18073e-23 (6.19e-09)	8.18073e-23 (6.19e-09)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.743094	0.743094	0.743094	0.743094
rad9	0.256793	0.999887	0.256793	0.999887
Benzene+cycloprop-2-enylidene	4.25373e-05	0.999930	4.25373e-05	0.999930
rad15	3.92228e-05	0.999969	3.92228e-05	0.999969
rad8	2.64113e-05	0.999996	2.64113e-05	0.999996
rad12	3.68868e-06	0.999999	3.68868e-06	0.999999
Indene+H	1.07424e-07	0.999999	1.07424e-07	0.999999
Benzene+cycloprop-1-enylidene	6.19133e-09	0.999999	6.19133e-09	0.999999
PhCHCCH2+H	5.01889e-10	0.999999	5.01889e-10	0.999999
rad7	2.11456e-10	0.999999	2.11456e-10	0.999999
rad11	2.58700e-11	0.999999	2.58700e-11	0.999999
rad2	1.91931e-11	0.999999	1.91931e-11	0.999999
rad1	2.69483e-12	0.999999	2.69483e-12	0.999999
rad26	1.76767e-12	0.999999	1.76767e-12	0.999999
rad6	1.46902e-12	0.999999	1.46902e-12	0.999999
rad21	1.43043e-12	0.999999	1.43043e-12	0.999999
rad18	1.17620e-12	0.999999	1.17620e-12	0.999999
PhcycC3H3_A+H	1.13730e-12	0.999999	1.13730e-12	0.999999
rad20	2.36809e-13	0.999999	2.36809e-13	0.999999
rad5	1.77096e-13	0.999999	1.77096e-13	0.999999
Phenyl+cycC3H4	1.20286e-13	0.999999	0.00000	0.999999
rad22	9.11136e-14	0.999999	9.11136e-14	0.999999
rad45	2.11697e-14	0.999999	2.11697e-14	0.999999
rad67	1.85480e-14	0.999999	1.85480e-14	0.999999
rad35	8.26212e-15	0.999999	8.26212e-15	0.999999
PhcycC3H3_B+H	6.40685e-15	0.999999	6.40685e-15	0.999999
rad24	2.44416e-15	0.999999	2.44416e-15	0.999999
rad36	2.27924e-15	0.999999	2.27924e-15	0.999999
rad10	1.93115e-15	0.999999	1.93115e-15	0.999999
C2H2+PhCH2	1.81074e-15	0.999999	1.81074e-15	0.999999
rad3	5.13061e-16	0.999999	5.13061e-16	0.999999
rad4	3.37137e-16	0.999999	3.37137e-16	0.999999
PhCCCH3+H	1.91420e-16	0.999999	1.91420e-16	0.999999
Ph+MeAc	1.43784e-16	0.999999	1.43784e-16	0.999999
PhCCH+CH3	7.61192e-17	0.999999	7.61192e-17	0.999999
rad25	5.87934e-17	0.999999	5.87934e-17	0.999999
Ph+Allene	5.38176e-17	0.999999	5.38176e-17	0.999999
rad23	3.88045e-17	0.999999	3.88045e-17	0.999999
rad27	2.75542e-17	0.999999	2.75542e-17	0.999999
rad13	2.01259e-17	0.999999	2.01259e-17	0.999999
PhCH2CCH+H	1.01501e-17	0.999999	1.01501e-17	0.999999
rad30	2.86407e-18	0.999999	2.86407e-18	0.999999
rad33	3.75373e-19	0.999999	3.75373e-19	0.999999
rad37	4.93429e-20	0.999999	4.93429e-20	0.999999
rad28	2.20024e-20	0.999999	2.20024e-20	0.999999
rad60syn	1.08533e-20	0.999999	1.08533e-20	0.999999
rad31	9.01948e-21	0.999999	9.01948e-21	0.999999
rad60anti	5.28345e-21	0.999999	5.28345e-21	0.999999
rad14	4.65006e-21	0.999999	4.65006e-21	0.999999
PAH3+H	4.57043e-21	0.999999	4.57043e-21	0.999999
PAH7+H	1.37331e-21	0.999999	1.37331e-21	0.999999

rad59	9.26979e-22	0.999999	9.26979e-22	0.999999
rad19syn	7.70930e-22	0.999999	7.70930e-22	0.999999
rad38	2.13348e-22	0.999999	2.13348e-22	0.999999
PAH10+CH3	1.09248e-22	0.999999	1.09248e-22	0.999999
rad46	2.50144e-24	0.999999	2.50144e-24	0.999999
rad43	8.53936e-25	0.999999	8.53936e-25	0.999999
rad58	1.46415e-25	0.999999	1.46415e-25	0.999999
rad70	8.94028e-26	0.999999	8.94028e-26	0.999999
PAH9+H	6.99990e-26	0.999999	6.99990e-26	0.999999
PAH1+H	2.12699e-26	0.999999	2.12699e-26	0.999999
rad50	1.81042e-26	0.999999	1.81042e-26	0.999999
rad39	3.24890e-27	0.999999	3.24890e-27	0.999999
rad34	2.18698e-27	0.999999	2.18698e-27	0.999999
rad54	1.99477e-27	0.999999	1.99477e-27	0.999999
rad41	1.68086e-28	0.999999	1.68086e-28	0.999999
rad52	1.34603e-28	0.999999	1.34603e-28	0.999999
rad62	1.05965e-28	0.999999	1.05965e-28	0.999999
rad51	5.04382e-29	0.999999	5.04382e-29	0.999999
rad55	2.27808e-29	0.999999	2.27808e-29	0.999999
rad47	6.86707e-30	0.999999	6.86707e-30	0.999999
rad61	5.89028e-31	0.999999	5.89028e-31	0.999999
rad42	7.87974e-32	0.999999	7.87974e-32	0.999999
rad68syn	5.06467e-33	0.999999	5.06467e-33	0.999999
rad68anti	3.80446e-33	0.999999	3.80446e-33	0.999999
rad53	3.51193e-33	0.999999	3.51193e-33	0.999999
rad65	1.20556e-33	0.999999	1.20556e-33	0.999999
rad40syn	3.96567e-35	0.999999	3.96567e-35	0.999999
rad40anti	2.92664e-35	0.999999	2.92664e-35	0.999999
rad56	1.68663e-35	0.999999	1.68663e-35	0.999999
PAH8+H	7.96527e-36	0.999999	7.96527e-36	0.999999
rad64	7.21950e-37	0.999999	7.21950e-37	0.999999
rad73	2.45719e-38	0.999999	2.45719e-38	0.999999
rad71	2.17429e-40	0.999999	2.17429e-40	0.999999

10000000.0 Pa, 200.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.52621e-14 (1.00)	1.52621e-14 (1.00)
Formation of rad19	1.52610e-14 (1.000)	1.52610e-14 (1.000)
H-abstraction to cyc2enyl	1.06427e-18 (6.97e-05)	1.06427e-18 (6.97e-05)
H-abstraction to cyclenyl	2.46309e-22 (1.61e-08)	2.46309e-22 (1.61e-08)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.728431	0.728431	0.728431	0.728431
rad9	0.271429	0.999860	0.271429	0.999860
Benzene+cycloprop-2-enylidene	6.97330e-05	0.999930	6.97330e-05	0.999930
rad15	4.49041e-05	0.999975	4.49041e-05	0.999975
rad8	2.14065e-05	0.999996	2.14065e-05	0.999996
rad12	3.76355e-06	1.00000	3.76355e-06	1.00000
Indene+H	1.34189e-07	1.00000	1.34189e-07	1.00000
Benzene+cycloprop-1-enylidene	1.61386e-08	1.00000	1.61386e-08	1.00000
PhCHCCH2+H	6.22900e-10	1.00000	6.22900e-10	1.00000
rad7	2.34534e-10	1.00000	2.34534e-10	1.00000
rad11	3.23066e-11	1.00000	3.23066e-11	1.00000
rad2	2.40445e-11	1.00000	2.40445e-11	1.00000
rad1	3.35086e-12	1.00000	3.35086e-12	1.00000
rad26	2.27540e-12	1.00000	2.27540e-12	1.00000
rad21	1.81090e-12	1.00000	1.81090e-12	1.00000
rad6	1.79251e-12	1.00000	1.79251e-12	1.00000
PhcycC3H3_A+H	1.74067e-12	1.00000	1.74067e-12	1.00000
rad18	1.55569e-12	1.00000	1.55569e-12	1.00000
rad20	3.20324e-13	1.00000	3.20324e-13	1.00000
rad5	2.01911e-13	1.00000	2.01911e-13	1.00000
Phenyl+cycC3H4	1.77983e-13	1.00000	0.00000	1.00000
rad22	1.26020e-13	1.00000	1.26020e-13	1.00000
rad45	2.99449e-14	1.00000	2.99449e-14	1.00000
rad67	2.59818e-14	1.00000	2.59818e-14	1.00000
PhcycC3H3_B+H	1.30785e-14	1.00000	1.30785e-14	1.00000
rad35	1.15180e-14	1.00000	1.15180e-14	1.00000
rad36	3.19736e-15	1.00000	3.19736e-15	1.00000
rad24	3.03714e-15	1.00000	3.03714e-15	1.00000
C2H2+PhCH2	2.76364e-15	1.00000	2.76364e-15	1.00000
rad10	2.73698e-15	1.00000	2.73698e-15	1.00000
rad3	7.34372e-16	1.00000	7.34372e-16	1.00000
rad4	4.81413e-16	1.00000	4.81413e-16	1.00000
PhCCCH3+H	2.85604e-16	1.00000	2.85604e-16	1.00000
Ph+MeAc	2.19341e-16	1.00000	2.19341e-16	1.00000
PhCCH+CH3	9.91311e-17	1.00000	9.91311e-17	1.00000

rad25	8.44772e-17	1.00000	8.44772e-17	1.00000
Ph+Allene	8.20459e-17	1.00000	8.20459e-17	1.00000
rad23	6.07835e-17	1.00000	6.07835e-17	1.00000
rad27	3.99439e-17	1.00000	3.99439e-17	1.00000
rad13	2.71525e-17	1.00000	2.71525e-17	1.00000
PhCH2CCH+H	1.60216e-17	1.00000	1.60216e-17	1.00000
rad30	4.43314e-18	1.00000	4.43314e-18	1.00000
rad33	5.02494e-19	1.00000	5.02494e-19	1.00000
rad37	7.97889e-20	1.00000	7.97889e-20	1.00000
rad28	3.57926e-20	1.00000	3.57926e-20	1.00000
rad60syn	1.77601e-20	1.00000	1.77601e-20	1.00000
rad31	1.11076e-20	1.00000	1.11076e-20	1.00000
rad60anti	8.68882e-21	1.00000	8.68882e-21	1.00000
PAH3+H	8.01657e-21	1.00000	8.01657e-21	1.00000
rad14	7.95222e-21	1.00000	7.95222e-21	1.00000
PAH7+H	2.41897e-21	1.00000	2.41897e-21	1.00000
rad59	1.60864e-21	1.00000	1.60864e-21	1.00000
rad19syn	1.11509e-21	1.00000	1.11509e-21	1.00000
rad38	3.78764e-22	1.00000	3.78764e-22	1.00000
PAH10+CH3	2.11308e-22	1.00000	2.11308e-22	1.00000
rad46	4.60118e-24	1.00000	4.60118e-24	1.00000
rad43	1.82018e-24	1.00000	1.82018e-24	1.00000
rad58	3.19026e-25	1.00000	3.19026e-25	1.00000
rad70	2.03261e-25	1.00000	2.03261e-25	1.00000
PAH9+H	1.40623e-25	1.00000	1.40623e-25	1.00000
PAH1+H	4.95064e-26	1.00000	4.95064e-26	1.00000
rad50	3.75508e-26	1.00000	3.75508e-26	1.00000
rad39	7.05225e-27	1.00000	7.05225e-27	1.00000
rad34	5.54616e-27	1.00000	5.54616e-27	1.00000
rad54	3.87272e-27	1.00000	3.87272e-27	1.00000
rad41	4.78615e-28	1.00000	4.78615e-28	1.00000
rad52	3.05987e-28	1.00000	3.05987e-28	1.00000
rad62	2.91653e-28	1.00000	2.91653e-28	1.00000
rad51	1.25246e-28	1.00000	1.25246e-28	1.00000
rad55	4.79726e-29	1.00000	4.79726e-29	1.00000
rad47	1.86988e-29	1.00000	1.86988e-29	1.00000
rad61	2.51680e-30	1.00000	2.51680e-30	1.00000
rad42	2.79811e-31	1.00000	2.79811e-31	1.00000
rad68syn	2.64728e-32	1.00000	2.64728e-32	1.00000
rad68anti	1.97116e-32	1.00000	1.97116e-32	1.00000
rad53	1.08890e-32	1.00000	1.08890e-32	1.00000
rad65	3.58493e-33	1.00000	3.58493e-33	1.00000
rad40syn	2.84255e-34	1.00000	2.84255e-34	1.00000
rad40anti	2.09390e-34	1.00000	2.09390e-34	1.00000
rad56	7.60551e-35	1.00000	7.60551e-35	1.00000
PAH8+H	6.72048e-35	1.00000	6.72048e-35	1.00000
rad64	3.46544e-36	1.00000	3.46544e-36	1.00000
rad73	1.95969e-37	1.00000	1.95969e-37	1.00000
rad71	2.14306e-39	1.00000	2.14306e-39	1.00000

10000000.0 Pa, 210.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.74272e-14 (1.00)	1.74272e-14 (1.00)
Formation of rad19	1.74253e-14 (1.000)	1.74253e-14 (1.000)
H-abstraction to cyc2enyl	1.89310e-18 (0.000109)	1.89310e-18 (0.000109)
H-abstraction to cyclenyl	6.66714e-22 (3.83e-08)	6.66714e-22 (3.83e-08)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.713376	0.713376	0.713376	0.713376
rad9	0.286442	0.999818	0.286442	0.999818
Benzene+cycloprop-2-enylidene	0.000108629	0.999927	0.000108629	0.999927
rad15	5.13295e-05	0.999978	5.13295e-05	0.999978
rad8	1.73809e-05	0.999996	1.73809e-05	0.999996
rad12	3.83771e-06	1.000000	3.83771e-06	1.000000
Indene+H	1.67542e-07	1.000000	1.67542e-07	1.000000
Benzene+cycloprop-1-enylidene	3.82571e-08	1.000000	3.82571e-08	1.000000
PhCHCCH2+H	7.76776e-10	1.000000	7.76776e-10	1.000000
rad7	2.61354e-10	1.000000	2.61354e-10	1.000000
rad11	4.05510e-11	1.000000	4.05510e-11	1.000000
rad2	3.02844e-11	1.000000	3.02844e-11	1.000000
rad1	4.19305e-12	1.000000	4.19305e-12	1.000000
rad26	2.94006e-12	1.000000	2.94006e-12	1.000000
PhcycC3H3_A+H	2.69193e-12	1.000000	2.69193e-12	1.000000
rad21	2.30650e-12	1.000000	2.30650e-12	1.000000
rad6	2.20100e-12	1.000000	2.20100e-12	1.000000
rad18	2.06622e-12	1.000000	2.06622e-12	1.000000
rad20	4.37113e-13	1.000000	4.37113e-13	1.000000

Phenyl+cycC3H4	2.62903e-13	1.000000	0.00000	1.000000
rad5	2.31234e-13	1.000000	2.31234e-13	1.000000
rad22	1.75656e-13	1.000000	1.75656e-13	1.000000
rad45	4.26772e-14	1.000000	4.26772e-14	1.000000
rad67	3.67231e-14	1.000000	3.67231e-14	1.000000
PhcycC3H3_B+H	2.64508e-14	1.000000	2.64508e-14	1.000000
rad35	1.61958e-14	1.000000	1.61958e-14	1.000000
rad36	4.52264e-15	1.000000	4.52264e-15	1.000000
C2H2+PhCH2	4.29933e-15	1.000000	4.29933e-15	1.000000
rad10	3.92018e-15	1.000000	3.92018e-15	1.000000
rad24	3.79573e-15	1.000000	3.79573e-15	1.000000
rad3	1.06298e-15	1.000000	1.06298e-15	1.000000
rad4	6.95356e-16	1.000000	6.95356e-16	1.000000
PhCCCH3+H	4.32930e-16	1.000000	4.32930e-16	1.000000
Ph+MeAc	3.40756e-16	1.000000	3.40756e-16	1.000000
PhCCH+CH3	1.30315e-16	1.000000	1.30315e-16	1.000000
Ph+Allene	1.27216e-16	1.000000	1.27216e-16	1.000000
rad25	1.22779e-16	1.000000	1.22779e-16	1.000000
rad23	9.63443e-17	1.000000	9.63443e-17	1.000000
rad27	5.86136e-17	1.000000	5.86136e-17	1.000000
rad13	3.69323e-17	1.000000	3.69323e-17	1.000000
PhCH2CCH+H	2.57949e-17	1.000000	2.57949e-17	1.000000
rad30	6.95131e-18	1.000000	6.95131e-18	1.000000
rad33	6.77351e-19	1.000000	6.77351e-19	1.000000
rad37	1.31269e-19	1.000000	1.31269e-19	1.000000
rad28	5.92817e-20	1.000000	5.92817e-20	1.000000
rad60syn	2.95920e-20	1.000000	2.95920e-20	1.000000
rad60anti	1.45560e-20	1.000000	1.45560e-20	1.000000
PAH3+H	1.44013e-20	1.000000	1.44013e-20	1.000000
rad14	1.38997e-20	1.000000	1.38997e-20	1.000000
rad31	1.38759e-20	1.000000	1.38759e-20	1.000000
PAH7+H	4.36946e-21	1.000000	4.36946e-21	1.000000
rad59	2.85608e-21	1.000000	2.85608e-21	1.000000
rad19syn	1.77054e-21	1.000000	1.77054e-21	1.000000
rad38	6.88230e-22	1.000000	6.88230e-22	1.000000
PAH10+CH3	4.20317e-22	1.000000	4.20317e-22	1.000000
rad46	8.67259e-24	1.000000	8.67259e-24	1.000000
rad43	4.01638e-24	1.000000	4.01638e-24	1.000000
rad58	7.17717e-25	1.000000	7.17717e-25	1.000000
rad70	4.78683e-25	1.000000	4.78683e-25	1.000000
PAH9+H	2.91733e-25	1.000000	2.91733e-25	1.000000
PAH1+H	1.18614e-25	1.000000	1.18614e-25	1.000000
rad50	8.05152e-26	1.000000	8.05152e-26	1.000000
rad39	1.59109e-26	1.000000	1.59109e-26	1.000000
rad34	1.45507e-26	1.000000	1.45507e-26	1.000000
rad54	7.66830e-27	1.000000	7.66830e-27	1.000000
rad41	1.40464e-27	1.000000	1.40464e-27	1.000000
rad62	8.39925e-28	1.000000	8.39925e-28	1.000000
rad52	7.21381e-28	1.000000	7.21381e-28	1.000000
rad51	3.23193e-28	1.000000	3.23193e-28	1.000000
rad55	1.02896e-28	1.000000	1.02896e-28	1.000000
rad47	5.17417e-29	1.000000	5.17417e-29	1.000000
rad61	1.04941e-29	1.000000	1.04941e-29	1.000000
rad42	1.02828e-30	1.000000	1.02828e-30	1.000000
rad68syn	1.32485e-31	1.000000	1.32485e-31	1.000000
rad68anti	9.78868e-32	1.000000	9.78868e-32	1.000000
rad53	3.34955e-32	1.000000	3.34955e-32	1.000000
rad65	1.11897e-32	1.000000	1.11897e-32	1.000000
rad40syn	1.84584e-33	1.000000	1.84584e-33	1.000000
rad40anti	1.35881e-33	1.000000	1.35881e-33	1.000000
PAH8+H	4.96193e-34	1.000000	4.96193e-34	1.000000
rad56	3.25408e-34	1.000000	3.25408e-34	1.000000
rad64	1.65347e-35	1.000000	1.65347e-35	1.000000
rad73	1.40936e-36	1.000000	1.40936e-36	1.000000
rad71	1.81827e-38	1.000000	1.81827e-38	1.000000

10000000.0 Pa, 220.000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	1.97009e-14 (1.00)	1.97009e-14 (1.00)		
Formation of rad19	1.96977e-14 (1.000)	1.96977e-14 (1.000)		
H-abstraction to cyc2enyl	3.19064e-18 (0.000162)	3.19064e-18 (0.000162)		
H-abstraction to cyclenyl	1.64627e-21 (8.36e-08)	1.64627e-21 (8.36e-08)		
species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.697882	0.697882	0.697882	0.697882
rad9	0.301879	0.999761	0.301879	0.999761
Benzene+cycloprop-2-enylidene	0.000161954	0.999923	0.000161954	0.999923

rad15	5.86248e-05	0.999982	5.86248e-05	0.999982
rad8	1.41342e-05	0.999996	1.41342e-05	0.999996
rad12	3.91219e-06	1.000000	3.91219e-06	1.000000
Indene+H	2.09352e-07	1.000000	2.09352e-07	1.000000
Benzene+cycloprop-1-enylidene	8.35632e-08	1.000000	8.35632e-08	1.000000
PhCHCH2+H	9.74495e-10	1.000000	9.74495e-10	1.000000
rad7	2.92606e-10	1.000000	2.92606e-10	1.000000
rad11	5.12241e-11	1.000000	5.12241e-11	1.000000
rad2	3.83977e-11	1.000000	3.83977e-11	1.000000
rad1	5.28692e-12	1.000000	5.28692e-12	1.000000
PhcycC3H3_A+H	4.20856e-12	1.000000	4.20856e-12	1.000000
rad26	3.81884e-12	1.000000	3.81884e-12	1.000000
rad21	2.95902e-12	1.000000	2.95902e-12	1.000000
rad18	2.76030e-12	1.000000	2.76030e-12	1.000000
rad6	2.72093e-12	1.000000	2.72093e-12	1.000000
rad20	6.02536e-13	1.000000	6.02536e-13	1.000000
Phenyl+cycC3H4	3.87552e-13	1.000000	0.00000	1.000000
rad5	2.66189e-13	1.000000	2.66189e-13	1.000000
rad22	2.47210e-13	1.000000	2.47210e-13	1.000000
rad45	6.14094e-14	1.000000	6.14094e-14	1.000000
PhcycC3H3_B+H	5.32033e-14	1.000000	5.32033e-14	1.000000
rad67	5.24816e-14	1.000000	5.24816e-14	1.000000
rad35	2.30180e-14	1.000000	2.30180e-14	1.000000
C2H2+PhCH2	6.83251e-15	1.000000	6.83251e-15	1.000000
rad36	6.46386e-15	1.000000	6.46386e-15	1.000000
rad10	5.68750e-15	1.000000	5.68750e-15	1.000000
rad24	4.77717e-15	1.000000	4.77717e-15	1.000000
rad3	1.55964e-15	1.000000	1.55964e-15	1.000000
rad4	1.01835e-15	1.000000	1.01835e-15	1.000000
PhCCCH3+H	6.68527e-16	1.000000	6.68527e-16	1.000000
Ph+MeAc	5.40635e-16	1.000000	5.40635e-16	1.000000
Ph+Allene	2.01179e-16	1.000000	2.01179e-16	1.000000
rad25	1.80911e-16	1.000000	1.80911e-16	1.000000
PhCCH+CH3	1.73244e-16	1.000000	1.73244e-16	1.000000
rad23	1.54983e-16	1.000000	1.54983e-16	1.000000
rad27	8.72637e-17	1.000000	8.72637e-17	1.000000
rad13	5.06886e-17	1.000000	5.06886e-17	1.000000
PhCH2CCH+H	4.24849e-17	1.000000	4.24849e-17	1.000000
rad30	1.10762e-17	1.000000	1.10762e-17	1.000000
rad33	9.19833e-19	1.000000	9.19833e-19	1.000000
rad37	2.20401e-19	1.000000	2.20401e-19	1.000000
rad28	1.00271e-19	1.000000	1.00271e-19	1.000000
rad60syn	5.03816e-20	1.000000	5.03816e-20	1.000000
PAH3+H	2.65974e-20	1.000000	2.65974e-20	1.000000
rad60anti	2.49280e-20	1.000000	2.49280e-20	1.000000
rad14	2.49248e-20	1.000000	2.49248e-20	1.000000
rad31	1.76067e-20	1.000000	1.76067e-20	1.000000
PAH7+H	8.12381e-21	1.000000	8.12381e-21	1.000000
rad59	5.20721e-21	1.000000	5.20721e-21	1.000000
rad19syn	3.07022e-21	1.000000	3.07022e-21	1.000000
rad38	1.28421e-21	1.000000	1.28421e-21	1.000000
PAH10+CH3	8.62344e-22	1.000000	8.62344e-22	1.000000
rad46	1.68184e-23	1.000000	1.68184e-23	1.000000
rad43	9.20091e-24	1.000000	9.20091e-24	1.000000
rad58	1.67137e-24	1.000000	1.67137e-24	1.000000
rad70	1.17007e-24	1.000000	1.17007e-24	1.000000
PAH9+H	6.28208e-25	1.000000	6.28208e-25	1.000000
PAH1+H	2.93065e-25	1.000000	2.93065e-25	1.000000
rad50	1.79152e-25	1.000000	1.79152e-25	1.000000
rad34	3.95174e-26	1.000000	3.95174e-26	1.000000
rad39	3.74528e-26	1.000000	3.74528e-26	1.000000
rad54	1.54806e-26	1.000000	1.54806e-26	1.000000
rad41	4.24513e-27	1.000000	4.24513e-27	1.000000
rad62	2.52989e-27	1.000000	2.52989e-27	1.000000
rad52	1.76906e-27	1.000000	1.76906e-27	1.000000
rad51	8.68048e-28	1.000000	8.68048e-28	1.000000
rad55	2.24654e-28	1.000000	2.24654e-28	1.000000
rad47	1.45287e-28	1.000000	1.45287e-28	1.000000
rad61	4.26193e-29	1.000000	4.26193e-29	1.000000
rad42	3.88049e-30	1.000000	3.88049e-30	1.000000
rad68syn	6.31543e-31	1.000000	6.31543e-31	1.000000
rad68anti	4.63610e-31	1.000000	4.63610e-31	1.000000
rad53	1.02401e-31	1.000000	1.02401e-31	1.000000
rad65	3.65267e-32	1.000000	3.65267e-32	1.000000
rad40syn	1.08427e-32	1.000000	1.08427e-32	1.000000
rad40anti	7.98521e-33	1.000000	7.98521e-33	1.000000
PAH8+H	3.21943e-33	1.000000	3.21943e-33	1.000000
rad56	1.32681e-33	1.000000	1.32681e-33	1.000000
rad64	7.72107e-35	1.000000	7.72107e-35	1.000000
rad73	9.11305e-36	1.000000	9.11305e-36	1.000000

rad71 | 1.33749e-37 1.000000 | 1.33749e-37 1.000000

10000000.0 Pa, 230.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.20761e-14 (1.00)	2.20761e-14 (1.00)
Formation of rad19	2.20710e-14 (1.000)	2.20710e-14 (1.000)
H-abstraction to cyc2enyl	5.13155e-18 (0.000232)	5.13155e-18 (0.000232)
H-abstraction to cyc1enyl	3.75316e-21 (1.70e-07)	3.75316e-21 (1.70e-07)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.681902	0.681902	0.681902	0.681902
rad9	0.317782	0.999684	0.317782	0.999684
Benzene+cycloprop-2-enylidene	0.000232448	0.999917	0.000232448	0.999917
rad15	6.69418e-05	0.999984	6.69418e-05	0.999984
rad8	1.15095e-05	0.999995	1.15095e-05	0.999995
rad12	3.98782e-06	0.999999	3.98782e-06	0.999999
Indene+H	2.62119e-07	1.000000	2.62119e-07	1.000000
Benzene+cycloprop-1-enylidene	1.70010e-07	1.000000	1.70010e-07	1.000000
PhCHCCH2+H	1.23142e-09	1.000000	1.23142e-09	1.000000
rad7	3.29100e-10	1.000000	3.29100e-10	1.000000
rad11	6.52008e-11	1.000000	6.52008e-11	1.000000
rad2	4.90715e-11	1.000000	4.90715e-11	1.000000
rad1	6.72557e-12	1.000000	6.72557e-12	1.000000
PhcycC3H3_A+H	6.65591e-12	1.000000	6.65591e-12	1.000000
rad26	4.99345e-12	1.000000	4.99345e-12	1.000000
rad21	3.82804e-12	1.000000	3.82804e-12	1.000000
rad18	3.71513e-12	1.000000	3.71513e-12	1.000000
rad6	3.38806e-12	1.000000	3.38806e-12	1.000000
rad20	8.40092e-13	1.000000	8.40092e-13	1.000000
Phenyl+cycC3H4	5.69916e-13	1.000000	0.000000	1.000000
rad22	3.51933e-13	1.000000	3.51933e-13	1.000000
rad5	3.08260e-13	1.000000	3.08260e-13	1.000000
PhcycC3H3_B+H	1.06774e-13	1.000000	1.06774e-13	1.000000
rad45	8.94013e-14	1.000000	8.94013e-14	1.000000
rad67	7.59964e-14	1.000000	7.59964e-14	1.000000
rad35	3.31344e-14	1.000000	3.31344e-14	1.000000
C2H2+PhCH2	1.11179e-14	1.000000	1.11179e-14	1.000000
rad36	9.35390e-15	1.000000	9.35390e-15	1.000000
rad10	8.37842e-15	1.000000	8.37842e-15	1.000000
rad24	6.06200e-15	1.000000	6.06200e-15	1.000000
rad3	2.32528e-15	1.000000	2.32528e-15	1.000000
rad4	1.51585e-15	1.000000	1.51585e-15	1.000000
PhCCCH3+H	1.05464e-15	1.000000	1.05464e-15	1.000000
Ph+MeAc	8.78590e-16	1.000000	8.78590e-16	1.000000
Ph+Allene	3.25426e-16	1.000000	3.25426e-16	1.000000
rad25	2.70874e-16	1.000000	2.70874e-16	1.000000
rad23	2.53792e-16	1.000000	2.53792e-16	1.000000
PhCCH+CH3	2.33480e-16	1.000000	2.33480e-16	1.000000
rad27	1.32124e-16	1.000000	1.32124e-16	1.000000
PhCH2CCH+H	7.18019e-17	1.000000	7.18019e-17	1.000000
rad13	7.02605e-17	1.000000	7.02605e-17	1.000000
rad30	1.79919e-17	1.000000	1.79919e-17	1.000000
rad33	1.25889e-18	1.000000	1.25889e-18	1.000000
rad37	3.78862e-19	1.000000	3.78862e-19	1.000000
rad28	1.73750e-19	1.000000	1.73750e-19	1.000000
rad60syn	8.79634e-20	1.000000	8.79634e-20	1.000000
PAH3+H	5.06865e-20	1.000000	5.06865e-20	1.000000
rad14	4.60249e-20	1.000000	4.60249e-20	1.000000
rad60anti	4.37995e-20	1.000000	4.37995e-20	1.000000
rad31	2.27250e-20	1.000000	2.27250e-20	1.000000
PAH7+H	1.56017e-20	1.000000	1.56017e-20	1.000000
rad59	9.78467e-21	1.000000	9.78467e-21	1.000000
rad19syn	5.78657e-21	1.000000	5.78657e-21	1.000000
rad38	2.46871e-21	1.000000	2.46871e-21	1.000000
PAH10+CH3	1.82905e-21	1.000000	1.82905e-21	1.000000
rad46	3.36851e-23	1.000000	3.36851e-23	1.000000
rad43	2.19085e-23	1.000000	2.19085e-23	1.000000
rad58	4.03210e-24	1.000000	4.03210e-24	1.000000
rad70	2.96712e-24	1.000000	2.96712e-24	1.000000
PAH9+H	1.40998e-24	1.000000	1.40998e-24	1.000000
PAH1+H	7.46315e-25	1.000000	7.46315e-25	1.000000
rad50	4.14694e-25	1.000000	4.14694e-25	1.000000
rad34	1.10741e-25	1.000000	1.10741e-25	1.000000
rad39	9.21011e-26	1.000000	9.21011e-26	1.000000
rad54	3.18704e-26	1.000000	3.18704e-26	1.000000
rad41	1.31348e-26	1.000000	1.31348e-26	1.000000
rad62	7.91887e-27	1.000000	7.91887e-27	1.000000

rad52	4.51482e-27	1.000000	4.51482e-27	1.000000
rad51	2.42130e-27	1.000000	2.42130e-27	1.000000
rad55	4.99312e-28	1.000000	4.99312e-28	1.000000
rad47	4.12456e-28	1.000000	4.12456e-28	1.000000
rad61	1.67367e-28	1.000000	1.67367e-28	1.000000
rad42	1.48132e-29	1.000000	1.48132e-29	1.000000
rad68syn	2.84186e-30	1.000000	2.84186e-30	1.000000
rad68anti	2.07546e-30	1.000000	2.07546e-30	1.000000
rad53	3.11170e-31	1.000000	3.11170e-31	1.000000
rad65	1.23262e-31	1.000000	1.23262e-31	1.000000
rad40syn	5.75120e-32	1.000000	5.75120e-32	1.000000
rad40anti	4.24103e-32	1.000000	4.24103e-32	1.000000
PAH8+H	1.84309e-32	1.000000	1.84309e-32	1.000000
rad56	5.15893e-33	1.000000	5.15893e-33	1.000000
rad64	3.46395e-34	1.000000	3.46395e-34	1.000000
rad73	5.28831e-35	1.000000	5.28831e-35	1.000000
rad71	8.58876e-37	1.000000	8.58876e-37	1.000000

10000000.0 Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.45462e-14 (1.00)	2.45462e-14 (1.00)
Formation of rad19	2.45383e-14 (1.000)	2.45383e-14 (1.000)
H-abstraction to cyc2enyl	7.92234e-18 (0.000323)	7.92234e-18 (0.000323)
H-abstraction to cyclenyl	7.97958e-21 (3.25e-07)	7.97958e-21 (3.25e-07)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.665396	0.665396	0.665396	0.665396
rad9	0.334191	0.999587	0.334191	0.999587
Benzene+cycloprop-2-enylidene	0.000322752	0.999910	0.000322752	0.999910
rad15	7.64640e-05	0.999986	7.64640e-05	0.999986
rad8	9.38336e-06	0.999996	9.38336e-06	0.999996
rad12	4.06536e-06	1.000000	4.06536e-06	1.000000
Indene+H	3.29225e-07	1.000000	3.29225e-07	1.000000
Benzene+cycloprop-1-enylidene	3.25084e-07	1.000000	3.25084e-07	1.000000
PhCHCCH2+H	1.56938e-09	1.000000	1.56938e-09	1.000000
rad7	3.71794e-10	1.000000	3.71794e-10	1.000000
rad11	8.37327e-11	1.000000	8.37327e-11	1.000000
rad2	6.32931e-11	1.000000	6.32931e-11	1.000000
PhcycC3H3_A+H	1.06558e-11	1.000000	1.06558e-11	1.000000
rad1	8.64344e-12	1.000000	8.64344e-12	1.000000
rad26	6.58238e-12	1.000000	6.58238e-12	1.000000
rad18	5.04587e-12	1.000000	5.04587e-12	1.000000
rad21	4.99956e-12	1.000000	4.99956e-12	1.000000
rad6	4.25150e-12	1.000000	4.25150e-12	1.000000
rad20	1.18632e-12	1.000000	1.18632e-12	1.000000
Phenyl+cycC3H4	8.35731e-13	1.000000	0.000000	1.000000
rad22	5.07781e-13	1.000000	5.07781e-13	1.000000
rad5	3.59460e-13	1.000000	3.59460e-13	1.000000
PhcycC3H3_B+H	2.14291e-13	1.000000	2.14291e-13	1.000000
rad45	1.31958e-13	1.000000	1.31958e-13	1.000000
rad67	1.11752e-13	1.000000	1.11752e-13	1.000000
rad35	4.84160e-14	1.000000	4.84160e-14	1.000000
C2H2+PhCH2	1.85659e-14	1.000000	1.85659e-14	1.000000
rad36	1.37346e-14	1.000000	1.37346e-14	1.000000
rad10	1.25638e-14	1.000000	1.25638e-14	1.000000
rad24	7.76521e-15	1.000000	7.76521e-15	1.000000
rad3	3.53176e-15	1.000000	3.53176e-15	1.000000
rad4	2.29929e-15	1.000000	2.29929e-15	1.000000
PhCCCH3+H	1.70471e-15	1.000000	1.70471e-15	1.000000
Ph+MeAc	1.46679e-15	1.000000	1.46679e-15	1.000000
Ph+Allene	5.40017e-16	1.000000	5.40017e-16	1.000000
rad23	4.24362e-16	1.000000	4.24362e-16	1.000000
rad25	4.13105e-16	1.000000	4.13105e-16	1.000000
PhCCH+CH3	3.20078e-16	1.000000	3.20078e-16	1.000000
rad27	2.03932e-16	1.000000	2.03932e-16	1.000000
PhCH2CCH+H	1.24878e-16	1.000000	1.24878e-16	1.000000
rad13	9.84688e-17	1.000000	9.84688e-17	1.000000
rad30	2.98911e-17	1.000000	2.98911e-17	1.000000
rad33	1.73718e-18	1.000000	1.73718e-18	1.000000
rad37	6.68716e-19	1.000000	6.68716e-19	1.000000
rad28	3.09338e-19	1.000000	3.09338e-19	1.000000
rad60syn	1.58026e-19	1.000000	1.58026e-19	1.000000
PAH3+H	9.99428e-20	1.000000	9.99428e-20	1.000000
rad14	8.77947e-20	1.000000	8.77947e-20	1.000000
rad60anti	7.92214e-20	1.000000	7.92214e-20	1.000000
PAH7+H	3.10258e-20	1.000000	3.10258e-20	1.000000
rad31	2.98835e-20	1.000000	2.98835e-20	1.000000

rad59	1.90035e-20	1.00000	1.90035e-20	1.00000
rad19syn	1.17987e-20	1.00000	1.17987e-20	1.00000
rad38	4.89989e-21	1.00000	4.89989e-21	1.00000
PAH10+CH3	4.01092e-21	1.00000	4.01092e-21	1.00000
rad46	6.98571e-23	1.00000	6.98571e-23	1.00000
rad43	5.40703e-23	1.00000	5.40703e-23	1.00000
rad58	1.00442e-23	1.00000	1.00442e-23	1.00000
rad70	7.76273e-24	1.00000	7.76273e-24	1.00000
PAH9+H	3.30160e-24	1.00000	3.30160e-24	1.00000
PAH1+H	1.94884e-24	1.00000	1.94884e-24	1.00000
rad50	9.97526e-25	1.00000	9.97526e-25	1.00000
rad34	3.17244e-25	1.00000	3.17244e-25	1.00000
rad39	2.35640e-25	1.00000	2.35640e-25	1.00000
rad54	6.69501e-26	1.00000	6.69501e-26	1.00000
rad41	4.11019e-26	1.00000	4.11019e-26	1.00000
rad62	2.53965e-26	1.00000	2.53965e-26	1.00000
rad52	1.19356e-26	1.00000	1.19356e-26	1.00000
rad51	6.95462e-27	1.00000	6.95462e-27	1.00000
rad47	1.17539e-27	1.00000	1.17539e-27	1.00000
rad55	1.12982e-27	1.00000	1.12982e-27	1.00000
rad61	6.28689e-28	1.00000	6.28689e-28	1.00000
rad42	5.60529e-29	1.00000	5.60529e-29	1.00000
rad68syn	1.19513e-29	1.00000	1.19513e-29	1.00000
rad68anti	8.69356e-30	1.00000	8.69356e-30	1.00000
rad53	9.37279e-31	1.00000	9.37279e-31	1.00000
rad65	4.21688e-31	1.00000	4.21688e-31	1.00000
rad40syn	2.75092e-31	1.00000	2.75092e-31	1.00000
rad40anti	2.03270e-31	1.00000	2.03270e-31	1.00000
PAH8+H	9.34690e-32	1.00000	9.34690e-32	1.00000
rad56	1.90818e-32	1.00000	1.90818e-32	1.00000
rad64	1.46728e-33	1.00000	1.46728e-33	1.00000
rad73	2.75256e-34	1.00000	2.75256e-34	1.00000
rad71	4.84579e-36	1.00000	4.84579e-36	1.00000

10000000.0 Pa, 250.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.71048e-14 (1.00)	2.71048e-14 (1.00)
Formation of rad19	2.70930e-14 (1.000)	2.70930e-14 (1.000)
H-abstraction to cyc2enyl	1.17991e-17 (0.000435)	1.17991e-17 (0.000435)
H-abstraction to cyclenyl	1.59554e-20 (5.89e-07)	1.59554e-20 (5.89e-07)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.648323	0.648323	0.648323	0.648323
rad9	0.351142	0.999465	0.351142	0.999465
Benzene+cycloprop-2-enylidene	0.000435312	0.999900	0.000435312	0.999900
rad15	8.74138e-05	0.999988	8.74138e-05	0.999988
rad8	7.65811e-06	0.999996	7.65811e-06	0.999996
rad12	4.14536e-06	1.000000	4.14536e-06	1.000000
Benzene+cycloprop-1-enylidene	5.88656e-07	1.000000	5.88656e-07	1.000000
Indene+H	4.15291e-07	1.000000	4.15291e-07	1.000000
PhCHCCH2+H	2.01980e-09	1.000000	2.01980e-09	1.000000
rad7	4.21812e-10	1.000000	4.21812e-10	1.000000
rad11	1.08635e-10	1.000000	1.08635e-10	1.000000
rad2	8.25028e-11	1.000000	8.25028e-11	1.000000
PhcycC3H3_A+H	1.72764e-11	1.000000	1.72764e-11	1.000000
rad1	1.12376e-11	1.000000	1.12376e-11	1.000000
rad26	8.75993e-12	1.000000	8.75993e-12	1.000000
rad18	6.92717e-12	1.000000	6.92717e-12	1.000000
rad21	6.59936e-12	1.000000	6.59936e-12	1.000000
rad6	5.37971e-12	1.000000	5.37971e-12	1.000000
rad20	1.69887e-12	1.000000	1.69887e-12	1.000000
Phenyl+cycC3H4	1.22157e-12	1.000000	0.000000	1.000000
rad22	7.43940e-13	1.000000	7.43940e-13	1.000000
PhcycC3H3_B+H	4.30291e-13	1.000000	4.30291e-13	1.000000
rad5	4.22605e-13	1.000000	4.22605e-13	1.000000
rad45	1.97876e-13	1.000000	1.97876e-13	1.000000
rad67	1.67238e-13	1.000000	1.67238e-13	1.000000
rad35	7.19676e-14	1.000000	7.19676e-14	1.000000
C2H2+PhCH2	3.18696e-14	1.000000	3.18696e-14	1.000000
rad36	2.05045e-14	1.000000	2.05045e-14	1.000000
rad10	1.92256e-14	1.000000	1.92256e-14	1.000000
rad24	1.00528e-14	1.000000	1.00528e-14	1.000000
rad3	5.47823e-15	1.000000	5.47823e-15	1.000000
rad4	3.56275e-15	1.000000	3.56275e-15	1.000000
PhCCCH3+H	2.83036e-15	1.000000	2.83036e-15	1.000000
Ph+MeAc	2.52130e-15	1.000000	2.52130e-15	1.000000
Ph+Allene	9.21362e-16	1.000000	9.21362e-16	1.000000

rad23	7.26438e-16	1.00000	7.26438e-16	1.00000
rad25	6.43134e-16	1.00000	6.43134e-16	1.00000
PhCCH+CH3	4.48551e-16	1.00000	4.48551e-16	1.00000
rad27	3.21578e-16	1.00000	3.21578e-16	1.00000
PhCH2CCH+H	2.23893e-16	1.00000	2.23893e-16	1.00000
rad13	1.39746e-16	1.00000	1.39746e-16	1.00000
rad30	5.09334e-17	1.00000	5.09334e-17	1.00000
rad33	2.41867e-18	1.00000	2.41867e-18	1.00000
rad37	1.21421e-18	1.00000	1.21421e-18	1.00000
rad28	5.66809e-19	1.00000	5.66809e-19	1.00000
rad60syn	2.92727e-19	1.00000	2.92727e-19	1.00000
PAH3+H	2.03898e-19	1.00000	2.03898e-19	1.00000
rad14	1.73213e-19	1.00000	1.73213e-19	1.00000
rad60anti	1.47800e-19	1.00000	1.47800e-19	1.00000
PAH7+H	6.38534e-20	1.00000	6.38534e-20	1.00000
rad31	4.01060e-20	1.00000	4.01060e-20	1.00000
rad59	3.81631e-20	1.00000	3.81631e-20	1.00000
rad19syn	2.59053e-20	1.00000	2.59053e-20	1.00000
rad38	1.00361e-20	1.00000	1.00361e-20	1.00000
PAH10+CH3	9.05442e-21	1.00000	9.05442e-21	1.00000
rad46	1.49898e-22	1.00000	1.49898e-22	1.00000
rad43	1.37090e-22	1.00000	1.37090e-22	1.00000
rad58	2.55958e-23	1.00000	2.55958e-23	1.00000
rad70	2.07021e-23	1.00000	2.07021e-23	1.00000
PAH9+H	8.02395e-24	1.00000	8.02395e-24	1.00000
PAH1+H	5.16049e-24	1.00000	5.16049e-24	1.00000
rad50	2.47604e-24	1.00000	2.47604e-24	1.00000
rad34	9.14769e-25	1.00000	9.14769e-25	1.00000
rad39	6.19999e-25	1.00000	6.19999e-25	1.00000
rad54	1.43494e-25	1.00000	1.43494e-25	1.00000
rad41	1.27857e-25	1.00000	1.27857e-25	1.00000
rad62	8.17797e-26	1.00000	8.17797e-26	1.00000
rad52	3.23134e-26	1.00000	3.23134e-26	1.00000
rad51	2.02579e-26	1.00000	2.02579e-26	1.00000
rad47	3.32648e-27	1.00000	3.32648e-27	1.00000
rad55	2.59929e-27	1.00000	2.59929e-27	1.00000
rad61	2.23280e-27	1.00000	2.23280e-27	1.00000
rad42	2.05861e-28	1.00000	2.05861e-28	1.00000
rad68syn	4.65584e-29	1.00000	4.65584e-29	1.00000
rad68anti	3.37645e-29	1.00000	3.37645e-29	1.00000
rad53	2.78089e-30	1.00000	2.78089e-30	1.00000
rad65	1.42842e-30	1.00000	1.42842e-30	1.00000
rad40syn	1.18608e-30	1.00000	1.18608e-30	1.00000
rad40anti	8.78716e-31	1.00000	8.78716e-31	1.00000
PAH8+H	4.21527e-31	1.00000	4.21527e-31	1.00000
rad56	6.68416e-32	1.00000	6.68416e-32	1.00000
rad64	5.78743e-33	1.00000	5.78743e-33	1.00000
rad73	1.28584e-33	1.00000	1.28584e-33	1.00000
rad71	2.41629e-35	1.00000	2.41629e-35	1.00000

10000000.0 Pa, 260.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.97464e-14 (1.00)	2.97464e-14 (1.00)
Formation of rad19	2.97293e-14 (0.999)	2.97293e-14 (0.999)
H-abstraction to cyc2enyl	1.70236e-17 (0.000572)	1.70236e-17 (0.000572)
H-abstraction to cyclenyl	3.02186e-20 (1.02e-06)	3.02186e-20 (1.02e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.630653	0.630653	0.630653	0.630653
rad9	0.368663	0.999316	0.368663	0.999316
Benzene+cycloprop-2-enylidene	0.000572291	0.999888	0.000572291	0.999888
rad15	0.000100062	0.999988	0.000100062	0.999988
rad8	6.25610e-06	0.999994	6.25610e-06	0.999994
rad12	4.22834e-06	0.999999	4.22834e-06	0.999999
Benzene+cycloprop-1-enylidene	1.01588e-06	1.000000	1.01588e-06	1.000000
Indene+H	5.26703e-07	1.00000	5.26703e-07	1.00000
PhCHCCH2+H	2.62849e-09	1.00000	2.62849e-09	1.00000
rad7	4.80473e-10	1.00000	4.80473e-10	1.00000
rad11	1.42570e-10	1.00000	1.42570e-10	1.00000
rad2	1.08827e-10	1.00000	1.08827e-10	1.00000
PhcycC3H3_A+H	2.83538e-11	1.00000	2.83538e-11	1.00000
rad1	1.48008e-11	1.00000	1.48008e-11	1.00000
rad26	1.17854e-11	1.00000	1.17854e-11	1.00000
rad18	9.62719e-12	1.00000	9.62719e-12	1.00000
rad21	8.81307e-12	1.00000	8.81307e-12	1.00000
rad6	6.86994e-12	1.00000	6.86994e-12	1.00000
rad20	2.46961e-12	1.00000	2.46961e-12	1.00000

Phenyl+cycC3H4	1.77900e-12	1.00000	0.00000	1.00000
rad22	1.10847e-12	1.00000	1.10847e-12	1.00000
PhcycC3H3_B+H	8.62644e-13	1.00000	8.62644e-13	1.00000
rad5	5.01772e-13	1.00000	5.01772e-13	1.00000
rad45	3.01929e-13	1.00000	3.01929e-13	1.00000
rad67	2.55152e-13	1.00000	2.55152e-13	1.00000
rad35	1.09019e-13	1.00000	1.09019e-13	1.00000
C2H2+PhCH2	5.62293e-14	1.00000	5.62293e-14	1.00000
rad36	3.11748e-14	1.00000	3.11748e-14	1.00000
rad10	3.00798e-14	1.00000	3.00798e-14	1.00000
rad24	1.31668e-14	1.00000	1.31668e-14	1.00000
rad3	8.69357e-15	1.00000	8.69357e-15	1.00000
rad4	5.64956e-15	1.00000	5.64956e-15	1.00000
PhCCCH3+H	4.83210e-15	1.00000	4.83210e-15	1.00000
Ph+MeAc	4.46355e-15	1.00000	4.46355e-15	1.00000
Ph+Allene	1.61684e-15	1.00000	1.61684e-15	1.00000
rad23	1.27461e-15	1.00000	1.27461e-15	1.00000
rad25	1.02353e-15	1.00000	1.02353e-15	1.00000
PhCCH+CH3	6.46772e-16	1.00000	6.46772e-16	1.00000
rad27	5.18745e-16	1.00000	5.18745e-16	1.00000
PhCH2CCH+H	4.13396e-16	1.00000	4.13396e-16	1.00000
rad13	2.01231e-16	1.00000	2.01231e-16	1.00000
rad30	8.91249e-17	1.00000	8.91249e-17	1.00000
rad33	3.40077e-18	1.00000	3.40077e-18	1.00000
rad37	2.26607e-18	1.00000	2.26607e-18	1.00000
rad28	1.06769e-18	1.00000	1.06769e-18	1.00000
rad60syn	5.58615e-19	1.00000	5.58615e-19	1.00000
PAH3+H	4.28308e-19	1.00000	4.28308e-19	1.00000
rad14	3.52494e-19	1.00000	3.52494e-19	1.00000
rad60anti	2.84093e-19	1.00000	2.84093e-19	1.00000
PAH7+H	1.35240e-19	1.00000	1.35240e-19	1.00000
rad59	7.89198e-20	1.00000	7.89198e-20	1.00000
rad19syn	6.09578e-20	1.00000	6.09578e-20	1.00000
rad31	5.50308e-20	1.00000	5.50308e-20	1.00000
rad38	2.11037e-20	1.00000	2.11037e-20	1.00000
PAH10+CH3	2.08308e-20	1.00000	2.08308e-20	1.00000
rad43	3.51761e-22	1.00000	3.51761e-22	1.00000
rad46	3.30812e-22	1.00000	3.30812e-22	1.00000
rad58	6.57241e-23	1.00000	6.57241e-23	1.00000
rad70	5.53082e-23	1.00000	5.53082e-23	1.00000
PAH9+H	1.99844e-23	1.00000	1.99844e-23	1.00000
PAH1+H	1.36367e-23	1.00000	1.36367e-23	1.00000
rad50	6.25629e-24	1.00000	6.25629e-24	1.00000
rad34	2.60505e-24	1.00000	2.60505e-24	1.00000
rad39	1.64739e-24	1.00000	1.64739e-24	1.00000
rad41	3.88029e-25	1.00000	3.88029e-25	1.00000
rad54	3.12979e-25	1.00000	3.12979e-25	1.00000
rad62	2.58672e-25	1.00000	2.58672e-25	1.00000
rad52	8.80603e-26	1.00000	8.80603e-26	1.00000
rad51	5.86934e-26	1.00000	5.86934e-26	1.00000
rad47	9.22952e-27	1.00000	9.22952e-27	1.00000
rad61	7.42103e-27	1.00000	7.42103e-27	1.00000
rad55	6.05211e-27	1.00000	6.05211e-27	1.00000
rad42	7.20588e-28	1.00000	7.20588e-28	1.00000
rad68syn	1.66909e-28	1.00000	1.66909e-28	1.00000
rad68anti	1.20766e-28	1.00000	1.20766e-28	1.00000
rad53	8.05188e-30	1.00000	8.05188e-30	1.00000
rad65	4.68462e-30	1.00000	4.68462e-30	1.00000
rad40syn	4.61238e-30	1.00000	4.61238e-30	1.00000
rad40anti	3.42773e-30	1.00000	3.42773e-30	1.00000
PAH8+H	1.69716e-30	1.00000	1.69716e-30	1.00000
rad56	2.20541e-31	1.00000	2.20541e-31	1.00000
rad64	2.10542e-32	1.00000	2.10542e-32	1.00000
rad73	5.39949e-33	1.00000	5.39949e-33	1.00000
rad71	1.07066e-34	1.00000	1.07066e-34	1.00000

10000000.0 Pa, 270.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.24655e-14 (1.00)	3.24655e-14 (1.00)
Formation of rad19	3.24415e-14 (0.999)	3.24415e-14 (0.999)
H-abstraction to cyc2enyl	2.38790e-17 (0.000736)	2.38790e-17 (0.000736)
H-abstraction to cyclenyl	5.45397e-20 (1.68e-06)	5.45397e-20 (1.68e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.612364	0.612364	0.612364	0.612364
rad9	0.386774	0.999138	0.386774	0.999138
Benzene+cycloprop-2-enylidene	0.000735519	0.999873	0.000735519	0.999873

rad15	0.000114734	0.999988	0.000114734	0.999988
rad8	5.11540e-06	0.999993	5.11540e-06	0.999993
rad12	4.31466e-06	0.999998	4.31466e-06	0.999998
Benzene+cycloprop-1-enylidene	1.67993e-06	0.999999	1.67993e-06	0.999999
Indene+H	6.72333e-07	1.000000	6.72333e-07	1.000000
PhCHCH2+H	3.46263e-09	1.000000	3.46263e-09	1.000000
rad7	5.49325e-10	1.000000	5.49325e-10	1.000000
rad11	1.89469e-10	1.000000	1.89469e-10	1.000000
rad2	1.45419e-10	1.000000	1.45419e-10	1.000000
PhcycC3H3_A+H	4.70056e-11	1.000000	4.70056e-11	1.000000
rad1	1.97706e-11	1.000000	1.97706e-11	1.000000
rad26	1.60471e-11	1.000000	1.60471e-11	1.000000
rad18	1.35600e-11	1.000000	1.35600e-11	1.000000
rad21	1.19152e-11	1.000000	1.19152e-11	1.000000
rad6	8.86269e-12	1.000000	8.86269e-12	1.000000
rad20	3.64499e-12	1.000000	3.64499e-12	1.000000
Phenyl+cycC3H4	2.58008e-12	1.000000	0.000000	1.000000
PhcycC3H3_B+H	1.71788e-12	1.000000	1.71788e-12	1.000000
rad22	1.68087e-12	1.000000	1.68087e-12	1.000000
rad5	6.03029e-13	1.000000	6.03029e-13	1.000000
rad45	4.68993e-13	1.000000	4.68993e-13	1.000000
rad67	3.97101e-13	1.000000	3.97101e-13	1.000000
rad35	1.68422e-13	1.000000	1.68422e-13	1.000000
C2H2+PhCH2	1.01636e-13	1.000000	1.01636e-13	1.000000
rad36	4.82944e-14	1.000000	4.82944e-14	1.000000
rad10	4.81396e-14	1.000000	4.81396e-14	1.000000
rad24	1.74598e-14	1.000000	1.74598e-14	1.000000
rad3	1.41157e-14	1.000000	1.41157e-14	1.000000
rad4	9.16920e-15	1.000000	9.16920e-15	1.000000
PhCCCH3+H	8.46655e-15	1.000000	8.46655e-15	1.000000
Ph+MeAc	8.11121e-15	1.000000	8.11121e-15	1.000000
Ph+Allene	2.90905e-15	1.000000	2.90905e-15	1.000000
rad23	2.28842e-15	1.000000	2.28842e-15	1.000000
rad25	1.66455e-15	1.000000	1.66455e-15	1.000000
PhCCH+CH3	9.66383e-16	1.000000	9.66383e-16	1.000000
rad27	8.55509e-16	1.000000	8.55509e-16	1.000000
PhCH2CCH+H	7.81861e-16	1.000000	7.81861e-16	1.000000
rad13	2.94656e-16	1.000000	2.94656e-16	1.000000
rad30	1.59853e-16	1.000000	1.59853e-16	1.000000
rad33	4.83415e-18	1.000000	4.83415e-18	1.000000
rad37	4.32488e-18	1.000000	4.32488e-18	1.000000
rad28	2.05613e-18	1.000000	2.05613e-18	1.000000
rad60syn	1.09202e-18	1.000000	1.09202e-18	1.000000
PAH3+H	9.16506e-19	1.000000	9.16506e-19	1.000000
rad14	7.33969e-19	1.000000	7.33969e-19	1.000000
rad60anti	5.59249e-19	1.000000	5.59249e-19	1.000000
PAH7+H	2.91410e-19	1.000000	2.91410e-19	1.000000
rad59	1.66420e-19	1.000000	1.66420e-19	1.000000
rad19syn	1.52975e-19	1.000000	1.52975e-19	1.000000
rad31	7.73253e-20	1.000000	7.73253e-20	1.000000
PAH10+CH3	4.81144e-20	1.000000	4.81144e-20	1.000000
rad38	4.50781e-20	1.000000	4.50781e-20	1.000000
rad43	8.96785e-22	1.000000	8.96785e-22	1.000000
rad46	7.42046e-22	1.000000	7.42046e-22	1.000000
rad58	1.66980e-22	1.000000	1.66980e-22	1.000000
rad70	1.45213e-22	1.000000	1.45213e-22	1.000000
PAH9+H	5.00783e-23	1.000000	5.00783e-23	1.000000
PAH1+H	3.53272e-23	1.000000	3.53272e-23	1.000000
rad50	1.58055e-23	1.000000	1.58055e-23	1.000000
rad34	7.19151e-24	1.000000	7.19151e-24	1.000000
rad39	4.32929e-24	1.000000	4.32929e-24	1.000000
rad41	1.12973e-24	1.000000	1.12973e-24	1.000000
rad62	7.88220e-25	1.000000	7.88220e-25	1.000000
rad54	6.90109e-25	1.000000	6.90109e-25	1.000000
rad52	2.36927e-25	1.000000	2.36927e-25	1.000000
rad51	1.65896e-25	1.000000	1.65896e-25	1.000000
rad47	2.47833e-26	1.000000	2.47833e-26	1.000000
rad61	2.29061e-26	1.000000	2.29061e-26	1.000000
rad55	1.41370e-26	1.000000	1.41370e-26	1.000000
rad42	2.37189e-27	1.000000	2.37189e-27	1.000000
rad68syn	5.48407e-28	1.000000	5.48407e-28	1.000000
rad68anti	3.96102e-28	1.000000	3.96102e-28	1.000000
rad53	2.25080e-29	1.000000	2.25080e-29	1.000000
rad40syn	1.62026e-29	1.000000	1.62026e-29	1.000000
rad65	1.46111e-29	1.000000	1.46111e-29	1.000000
rad40anti	1.20836e-29	1.000000	1.20836e-29	1.000000
PAH8+H	6.12526e-30	1.000000	6.12526e-30	1.000000
rad56	6.81820e-31	1.000000	6.81820e-31	1.000000
rad64	7.02435e-32	1.000000	7.02435e-32	1.000000
rad73	2.04305e-32	1.000000	2.04305e-32	1.000000

rad71 | 4.23771e-34 1.000000 | 4.23771e-34 1.000000

10000000.0 Pa, 280.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.52572e-14 (1.00)	3.52572e-14 (1.00)
Formation of rad19	3.52244e-14 (0.999)	3.52244e-14 (0.999)
H-abstraction to cyc2enyl	3.26639e-17 (0.000926)	3.26639e-17 (0.000926)
H-abstraction to cyclenyl	9.42926e-20 (2.67e-06)	9.42926e-20 (2.67e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.593446	0.593446	0.593446	0.593446
rad9	0.405484	0.998930	0.405484	0.998930
Benzene+cycloprop-2-enylidene	0.000926445	0.999856	0.000926445	0.999856
rad15	0.000131825	0.999988	0.000131825	0.999988
rad12	4.40451e-06	0.999993	4.40451e-06	0.999993
rad8	4.18633e-06	0.999997	4.18633e-06	0.999997
Benzene+cycloprop-1-enylidene	2.67442e-06	1.000000	2.67442e-06	1.000000
Indene+H	8.64490e-07	1.000000	8.64490e-07	1.000000
PhCHCCH2+H	4.62013e-09	1.000000	4.62013e-09	1.000000
rad7	6.30172e-10	1.000000	6.30172e-10	1.000000
rad11	2.55096e-10	1.000000	2.55096e-10	1.000000
rad2	1.96931e-10	1.000000	1.96931e-10	1.000000
PhcycC3H3_A+H	7.83720e-11	1.000000	7.83720e-11	1.000000
rad1	2.67981e-11	1.000000	2.67981e-11	1.000000
rad26	2.21214e-11	1.000000	2.21214e-11	1.000000
rad18	1.93611e-11	1.000000	1.93611e-11	1.000000
rad21	1.63075e-11	1.000000	1.63075e-11	1.000000
rad6	1.15630e-11	1.000000	1.15630e-11	1.000000
rad20	5.45558e-12	1.000000	5.45558e-12	1.000000
Phenyl+cycC3H4	3.72431e-12	1.000000	0.000000	1.000000
PhcycC3H3_B+H	3.37230e-12	1.000000	3.37230e-12	1.000000
rad22	2.59104e-12	1.000000	2.59104e-12	1.000000
rad45	7.40404e-13	1.000000	7.40404e-13	1.000000
rad5	7.35525e-13	1.000000	7.35525e-13	1.000000
rad67	6.29417e-13	1.000000	6.29417e-13	1.000000
rad35	2.64978e-13	1.000000	2.64978e-13	1.000000
C2H2+PhCH2	1.86814e-13	1.000000	1.86814e-13	1.000000
rad10	7.86295e-14	1.000000	7.86295e-14	1.000000
rad36	7.61096e-14	1.000000	7.61096e-14	1.000000
rad24	2.34392e-14	1.000000	2.34392e-14	1.000000
rad3	2.33848e-14	1.000000	2.33848e-14	1.000000
rad4	1.51889e-14	1.000000	1.51889e-14	1.000000
PhCCCH3+H	1.51334e-14	1.000000	1.51334e-14	1.000000
Ph+MeAc	1.50113e-14	1.000000	1.50113e-14	1.000000
Ph+Allene	5.32556e-15	1.000000	5.32556e-15	1.000000
rad23	4.18010e-15	1.000000	4.18010e-15	1.000000
rad25	2.75708e-15	1.000000	2.75708e-15	1.000000
PhCCH+CH3	1.50353e-15	1.000000	1.50353e-15	1.000000
PhCH2CCH+H	1.49942e-15	1.000000	1.49942e-15	1.000000
rad27	1.43719e-15	1.000000	1.43719e-15	1.000000
rad13	4.39427e-16	1.000000	4.39427e-16	1.000000
rad30	2.92070e-16	1.000000	2.92070e-16	1.000000
rad37	8.35890e-18	1.000000	8.35890e-18	1.000000
rad33	6.95293e-18	1.000000	6.95293e-18	1.000000
rad28	4.00681e-18	1.000000	4.00681e-18	1.000000
rad60syn	2.16360e-18	1.000000	2.16360e-18	1.000000
PAH3+H	1.96773e-18	1.000000	1.96773e-18	1.000000
rad14	1.54363e-18	1.000000	1.54363e-18	1.000000
rad60anti	1.11508e-18	1.000000	1.11508e-18	1.000000
PAH7+H	6.28894e-19	1.000000	6.28894e-19	1.000000
rad19syn	4.07303e-19	1.000000	4.07303e-19	1.000000
rad59	3.52726e-19	1.000000	3.52726e-19	1.000000
rad31	1.11377e-19	1.000000	1.11377e-19	1.000000
PAH10+CH3	1.09698e-19	1.000000	1.09698e-19	1.000000
rad38	9.63900e-20	1.000000	9.63900e-20	1.000000
rad43	2.23093e-21	1.000000	2.23093e-21	1.000000
rad46	1.66532e-21	1.000000	1.66532e-21	1.000000
rad58	4.12415e-22	1.000000	4.12415e-22	1.000000
rad70	3.68232e-22	1.000000	3.68232e-22	1.000000
PAH9+H	1.23776e-22	1.000000	1.23776e-22	1.000000
PAH1+H	8.82796e-23	1.000000	8.82796e-23	1.000000
rad50	3.91953e-23	1.000000	3.91953e-23	1.000000
rad34	1.89524e-23	1.000000	1.89524e-23	1.000000
rad39	1.10385e-23	1.000000	1.10385e-23	1.000000
rad41	3.11478e-24	1.000000	3.11478e-24	1.000000
rad62	2.28022e-24	1.000000	2.28022e-24	1.000000
rad54	1.52189e-24	1.000000	1.52189e-24	1.000000

rad52	6.18281e-25	1.00000	6.18281e-25	1.00000
rad51	4.50094e-25	1.00000	4.50094e-25	1.00000
rad61	6.53455e-26	1.00000	6.53455e-26	1.00000
rad47	6.37039e-26	1.00000	6.37039e-26	1.00000
rad55	3.27287e-26	1.00000	3.27287e-26	1.00000
rad42	7.27827e-27	1.00000	7.27827e-27	1.00000
rad68syn	1.64859e-27	1.00000	1.64859e-27	1.00000
rad68anti	1.18913e-27	1.00000	1.18913e-27	1.00000
rad53	6.01211e-29	1.00000	6.01211e-29	1.00000
rad40syn	5.15430e-29	1.00000	5.15430e-29	1.00000
rad65	4.28080e-29	1.00000	4.28080e-29	1.00000
rad40anti	3.85894e-29	1.00000	3.85894e-29	1.00000
PAH8+H	1.99028e-29	1.00000	1.99028e-29	1.00000
rad56	1.96665e-30	1.00000	1.96665e-30	1.00000
rad64	2.14377e-31	1.00000	2.14377e-31	1.00000
rad73	6.98744e-32	1.00000	6.98744e-32	1.00000
rad71	1.50598e-33	1.00000	1.50598e-33	1.00000

10000000.0 Pa, 290.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.81171e-14 (1.00)	3.81171e-14 (1.00)
Formation of rad19	3.80733e-14 (0.999)	3.80733e-14 (0.999)
H-abstraction to cyc2enyl	4.36868e-17 (0.00115)	4.36868e-17 (0.00115)
H-abstraction to cyclenyl	1.56861e-19 (4.12e-06)	1.56861e-19 (4.12e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.573904	0.573904	0.573904	0.573904
rad9	0.424785	0.998689	0.424785	0.998689
Benzene+cycloprop-2-enylidene	0.00114612	0.999835	0.00114612	0.999835
rad15	0.000151798	0.999987	0.000151798	0.999987
rad12	4.49799e-06	0.999991	4.49799e-06	0.999991
Benzene+cycloprop-1-enylidene	4.11523e-06	0.999995	4.11523e-06	0.999995
rad8	3.42902e-06	0.999999	3.42902e-06	0.999999
Indene+H	1.12004e-06	1.00000	1.12004e-06	1.00000
PhCHCCH2+H	6.24103e-09	1.00000	6.24103e-09	1.00000
rad7	7.25113e-10	1.00000	7.25113e-10	1.00000
rad11	3.47725e-10	1.00000	3.47725e-10	1.00000
rad2	2.70075e-10	1.00000	2.70075e-10	1.00000
PhcycC3H3_A+H	1.30536e-10	1.00000	1.30536e-10	1.00000
rad1	3.68336e-11	1.00000	3.68336e-11	1.00000
rad26	3.08480e-11	1.00000	3.08480e-11	1.00000
rad18	2.79846e-11	1.00000	2.79846e-11	1.00000
rad21	2.25631e-11	1.00000	2.25631e-11	1.00000
rad6	1.52697e-11	1.00000	1.52697e-11	1.00000
rad20	8.25360e-12	1.00000	8.25360e-12	1.00000
PhcycC3H3_B+H	6.46767e-12	1.00000	6.46767e-12	1.00000
Phenyl+cycC3H4	5.34711e-12	1.00000	0.00000	1.00000
rad22	4.04546e-12	1.00000	4.04546e-12	1.00000
rad45	1.18275e-12	1.00000	1.18275e-12	1.00000
rad67	1.01138e-12	1.00000	1.01138e-12	1.00000
rad5	9.12968e-13	1.00000	9.12968e-13	1.00000
rad35	4.22730e-13	1.00000	4.22730e-13	1.00000
C2H2+PhCH2	3.45355e-13	1.00000	3.45355e-13	1.00000
rad10	1.30335e-13	1.00000	1.30335e-13	1.00000
rad36	1.21489e-13	1.00000	1.21489e-13	1.00000
rad3	3.92759e-14	1.00000	3.92759e-14	1.00000
rad24	3.18146e-14	1.00000	3.18146e-14	1.00000
Ph+MeAc	2.79642e-14	1.00000	2.79642e-14	1.00000
PhCCCH3+H	2.73192e-14	1.00000	2.73192e-14	1.00000
rad4	2.55182e-14	1.00000	2.55182e-14	1.00000
Ph+Allene	9.80678e-15	1.00000	9.80678e-15	1.00000
rad23	7.69397e-15	1.00000	7.69397e-15	1.00000
rad25	4.61994e-15	1.00000	4.61994e-15	1.00000
PhCH2CCH+H	2.87661e-15	1.00000	2.87661e-15	1.00000
rad27	2.44202e-15	1.00000	2.44202e-15	1.00000
PhCCH+CH3	2.43313e-15	1.00000	2.43313e-15	1.00000
rad13	6.67289e-16	1.00000	6.67289e-16	1.00000
rad30	5.38060e-16	1.00000	5.38060e-16	1.00000
rad37	1.61478e-17	1.00000	1.61478e-17	1.00000
rad33	1.01174e-17	1.00000	1.01174e-17	1.00000
rad28	7.79557e-18	1.00000	7.79557e-18	1.00000
rad60syn	4.28397e-18	1.00000	4.28397e-18	1.00000
PAH3+H	4.16951e-18	1.00000	4.16951e-18	1.00000
rad14	3.22920e-18	1.00000	3.22920e-18	1.00000
rad60anti	2.21999e-18	1.00000	2.21999e-18	1.00000
PAH7+H	1.33693e-18	1.00000	1.33693e-18	1.00000
rad19syn	1.14434e-18	1.00000	1.14434e-18	1.00000

rad59	7.39382e-19	1.00000	7.39382e-19	1.00000
PAH10+CH3	2.43014e-19	1.00000	2.43014e-19	1.00000
rad38	2.03107e-19	1.00000	2.03107e-19	1.00000
rad31	1.64425e-19	1.00000	1.64425e-19	1.00000
rad43	5.33553e-21	1.00000	5.33553e-21	1.00000
rad46	3.67859e-21	1.00000	3.67859e-21	1.00000
rad58	9.76131e-22	1.00000	9.76131e-22	1.00000
rad70	8.89839e-22	1.00000	8.89839e-22	1.00000
PAH9+H	2.96537e-22	1.00000	2.96537e-22	1.00000
PAH1+H	2.10132e-22	1.00000	2.10132e-22	1.00000
rad50	9.39289e-23	1.00000	9.39289e-23	1.00000
rad34	4.71616e-23	1.00000	4.71616e-23	1.00000
rad39	2.69030e-23	1.00000	2.69030e-23	1.00000
rad41	8.06296e-24	1.00000	8.06296e-24	1.00000
rad62	6.20242e-24	1.00000	6.20242e-24	1.00000
rad54	3.31323e-24	1.00000	3.31323e-24	1.00000
rad52	1.54359e-24	1.00000	1.54359e-24	1.00000
rad51	1.15866e-24	1.00000	1.15866e-24	1.00000
rad61	1.71909e-25	1.00000	1.71909e-25	1.00000
rad47	1.55505e-25	1.00000	1.55505e-25	1.00000
rad55	7.41105e-26	1.00000	7.41105e-26	1.00000
rad42	2.07238e-26	1.00000	2.07238e-26	1.00000
rad68syn	4.53533e-27	1.00000	4.53533e-27	1.00000
rad68anti	3.26790e-27	1.00000	3.26790e-27	1.00000
rad53	1.52168e-28	1.00000	1.52168e-28	1.00000
rad40syn	1.48974e-28	1.00000	1.48974e-28	1.00000
rad65	1.16957e-28	1.00000	1.16957e-28	1.00000
rad40anti	1.12005e-28	1.00000	1.12005e-28	1.00000
PAH8+H	5.84957e-29	1.00000	5.84957e-29	1.00000
rad56	5.27787e-30	1.00000	5.27787e-30	1.00000
rad64	5.98405e-31	1.00000	5.98405e-31	1.00000
rad73	2.16817e-31	1.00000	2.16817e-31	1.00000
rad71	4.83020e-33	1.00000	4.83020e-33	1.00000

10000000.0 Pa, 300.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.34809e-14 (1.00)	5.34809e-14 (1.00)
Formation of rad19	5.34010e-14 (0.999)	5.34010e-14 (0.999)
H-abstraction to cyc2enyl	7.95823e-17 (0.00149)	7.95823e-17 (0.00149)
H-abstraction to cyclenyl	3.44981e-19 (6.45e-06)	3.44981e-19 (6.45e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.506290	0.506290	0.506290	0.506290
rad19anti	0.491852	0.998142	0.491852	0.998142
Benzene+cycloprop-2-enylidene	0.00148805	0.999630	0.00148805	0.999630
rad15	0.000348117	0.999978	0.000348117	0.999978
Indene+H	7.95408e-06	0.999986	7.95408e-06	0.999986
Benzene+cycloprop-1-enylidene	6.45054e-06	0.999993	6.45054e-06	0.999993
rad12	4.97057e-06	0.999998	4.97057e-06	0.999998
rad8	2.39656e-06	1.000000	2.39656e-06	1.000000
PhCHCCH2+H	7.11810e-08	1.00000	7.11810e-08	1.00000
PhcycC3H3_A+H	5.76274e-09	1.00000	5.76274e-09	1.00000
rad11	4.63023e-09	1.00000	4.63023e-09	1.00000
rad2	3.70230e-09	1.00000	3.70230e-09	1.00000
PhcycC3H3_B+H	1.15392e-09	1.00000	1.15392e-09	1.00000
rad7	8.72540e-10	1.00000	8.72540e-10	1.00000
rad18	5.64107e-10	1.00000	5.64107e-10	1.00000
rad26	4.99750e-10	1.00000	4.99750e-10	1.00000
rad1	4.92395e-10	1.00000	4.92395e-10	1.00000
rad6	3.16361e-10	1.00000	3.16361e-10	1.00000
rad21	2.80618e-10	1.00000	2.80618e-10	1.00000
rad22	2.19666e-10	1.00000	2.19666e-10	1.00000
rad20	1.90329e-10	1.00000	1.90329e-10	1.00000
C2H2+PhCH2	1.35136e-10	1.00000	1.35136e-10	1.00000
rad67	9.35149e-11	1.00000	9.35149e-11	1.00000
rad45	8.47398e-11	1.00000	8.47398e-11	1.00000
rad35	3.54516e-11	1.00000	3.54516e-11	1.00000
Ph+MeAc	2.30387e-11	1.00000	2.30387e-11	1.00000
rad10	1.91969e-11	1.00000	1.91969e-11	1.00000
rad5	1.47955e-11	1.00000	1.47955e-11	1.00000
PhCCCH3+H	1.43578e-11	1.00000	1.43578e-11	1.00000
Phenyl+cycC3H4	8.62884e-12	1.00000	0.00000	1.00000
Ph+Allene	7.00385e-12	1.00000	7.00385e-12	1.00000
rad3	5.42715e-12	1.00000	5.42715e-12	1.00000
rad36	4.94453e-12	1.00000	4.94453e-12	1.00000
PhCH2CCH+H	4.64222e-12	1.00000	4.64222e-12	1.00000
PhCCH+CH3	4.36713e-12	1.00000	4.36713e-12	1.00000

rad23	4.26766e-12	1.00000	4.26766e-12	1.00000
rad4	3.49920e-12	1.00000	3.49920e-12	1.00000
rad25	5.70444e-13	1.00000	5.70444e-13	1.00000
rad24	3.61880e-13	1.00000	3.61880e-13	1.00000
rad30	3.09145e-13	1.00000	3.09145e-13	1.00000
rad27	2.91393e-13	1.00000	2.91393e-13	1.00000
rad13	8.01836e-14	1.00000	8.01836e-14	1.00000
PAH3+H	2.82508e-14	1.00000	2.82508e-14	1.00000
rad37	2.61488e-14	1.00000	2.61488e-14	1.00000
rad28	1.40842e-14	1.00000	1.40842e-14	1.00000
PAH7+H	9.82886e-15	1.00000	9.82886e-15	1.00000
rad60syn	7.87812e-15	1.00000	7.87812e-15	1.00000
rad14	7.18664e-15	1.00000	7.18664e-15	1.00000
rad19syn	5.88244e-15	1.00000	5.88244e-15	1.00000
PAH10+CH3	4.96612e-15	1.00000	4.96612e-15	1.00000
rad60anti	4.48260e-15	1.00000	4.48260e-15	1.00000
rad59	3.74210e-15	1.00000	3.74210e-15	1.00000
rad38	1.42117e-15	1.00000	1.42117e-15	1.00000
rad33	6.68928e-16	1.00000	6.68928e-16	1.00000
rad43	3.15935e-16	1.00000	3.15935e-16	1.00000
rad70	1.05479e-16	1.00000	1.05479e-16	1.00000
PAH9+H	7.65072e-17	1.00000	7.65072e-17	1.00000
rad46	6.03448e-17	1.00000	6.03448e-17	1.00000
rad58	5.41051e-17	1.00000	5.41051e-17	1.00000
PAH1+H	2.76296e-17	1.00000	2.76296e-17	1.00000
rad34	1.41591e-17	1.00000	1.41591e-17	1.00000
rad39	1.23807e-17	1.00000	1.23807e-17	1.00000
rad50	1.14331e-17	1.00000	1.14331e-17	1.00000
rad62	1.00227e-17	1.00000	1.00227e-17	1.00000
rad41	5.15605e-18	1.00000	5.15605e-18	1.00000
rad31	3.81664e-18	1.00000	3.81664e-18	1.00000
rad54	1.93945e-18	1.00000	1.93945e-18	1.00000
rad51	1.02295e-18	1.00000	1.02295e-18	1.00000
rad52	5.49804e-19	1.00000	5.49804e-19	1.00000
rad61	5.44660e-19	1.00000	5.44660e-19	1.00000
rad42	2.45500e-19	1.00000	2.45500e-19	1.00000
PAH8+H	1.45894e-19	1.00000	1.45894e-19	1.00000
rad68syn	1.15450e-19	1.00000	1.15450e-19	1.00000
rad55	9.81856e-20	1.00000	9.81856e-20	1.00000
rad68anti	7.74387e-20	1.00000	7.74387e-20	1.00000
rad40syn	4.92463e-20	1.00000	4.92463e-20	1.00000
rad40anti	3.95443e-20	1.00000	3.95443e-20	1.00000
rad53	6.29316e-21	1.00000	6.29316e-21	1.00000
rad65	4.69690e-21	1.00000	4.69690e-21	1.00000
rad56	2.96136e-21	1.00000	2.96136e-21	1.00000
rad47	2.52851e-21	1.00000	2.52851e-21	1.00000
rad73	1.14785e-21	1.00000	1.14785e-21	1.00000
rad71	6.63104e-22	1.00000	6.63104e-22	1.00000
rad64	4.78783e-22	1.00000	4.78783e-22	1.00000
rad72	2.79964e-24	1.00000	2.79964e-24	1.00000

10000000.0 Pa, 310.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.92544e-14 (1.00)	5.92544e-14 (1.00)
Formation of rad19	5.91462e-14 (0.998)	5.91462e-14 (0.998)
H-abstraction to cyc2enyl	1.07628e-16 (0.00182)	1.07628e-16 (0.00182)
H-abstraction to cyclenyl	5.62537e-19 (9.49e-06)	5.62537e-19 (9.49e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.533017	0.533017	0.533017	0.533017
rad9	0.464946	0.997963	0.464946	0.997963
Benzene+cycloprop-2-enylidene	0.00181637	0.999779	0.00181637	0.999779
rad15	0.000202510	0.999981	0.000202510	0.999981
Benzene+cycloprop-1-enylidene	9.49359e-06	0.999991	9.49359e-06	0.999991
rad12	4.69445e-06	0.999996	4.69445e-06	0.999996
rad8	2.30679e-06	0.999998	2.30679e-06	0.999998
Indene+H	1.91702e-06	1.000000	1.91702e-06	1.000000
PhCHCCH2+H	1.16998e-08	1.000000	1.16998e-08	1.000000
rad7	9.67127e-10	1.000000	9.67127e-10	1.000000
rad11	6.63086e-10	1.000000	6.63086e-10	1.000000
rad2	5.21269e-10	1.000000	5.21269e-10	1.000000
PhcycC3H3_A+H	3.49101e-10	1.000000	3.49101e-10	1.000000
rad1	7.17300e-11	1.000000	7.17300e-11	1.000000
rad26	6.13252e-11	1.000000	6.13252e-11	1.000000
rad18	5.97056e-11	1.000000	5.97056e-11	1.000000
rad21	4.40065e-11	1.000000	4.40065e-11	1.000000
rad6	2.75676e-11	1.000000	2.75676e-11	1.000000

PhcycC3H3_B+H	2.14561e-11	1.000000	2.14561e-11	1.000000
rad20	1.90504e-11	1.000000	1.90504e-11	1.000000
Phenyl+cycC3H4	1.08073e-11	1.000000	0.000000	1.000000
rad22	9.97119e-12	1.000000	9.97119e-12	1.000000
rad45	3.03272e-12	1.000000	3.03272e-12	1.000000
rad67	2.63459e-12	1.000000	2.63459e-12	1.000000
rad5	1.48980e-12	1.000000	1.48980e-12	1.000000
C2H2+PhCH2	1.14136e-12	1.000000	1.14136e-12	1.000000
rad35	1.08753e-12	1.000000	1.08753e-12	1.000000
rad10	3.60704e-13	1.000000	3.60704e-13	1.000000
rad36	3.12048e-13	1.000000	3.12048e-13	1.000000
rad3	1.11026e-13	1.000000	1.11026e-13	1.000000
Ph+MeAc	9.38749e-14	1.000000	9.38749e-14	1.000000
PhCCCH3+H	8.72756e-14	1.000000	8.72756e-14	1.000000
rad4	7.22756e-14	1.000000	7.22756e-14	1.000000
rad24	5.97577e-14	1.000000	5.97577e-14	1.000000
Ph+Allene	3.21178e-14	1.000000	3.21178e-14	1.000000
rad23	2.54196e-14	1.000000	2.54196e-14	1.000000
rad25	1.29124e-14	1.000000	1.29124e-14	1.000000
PhCH2CCH+H	1.00311e-14	1.000000	1.00311e-14	1.000000
rad27	7.00729e-15	1.000000	7.00729e-15	1.000000
PhCCH+CH3	6.87442e-15	1.000000	6.87442e-15	1.000000
rad30	1.77953e-15	1.000000	1.77953e-15	1.000000
rad13	1.59884e-15	1.000000	1.59884e-15	1.000000
rad37	5.70170e-17	1.000000	5.70170e-17	1.000000
rad28	2.78168e-17	1.000000	2.78168e-17	1.000000
rad33	2.19694e-17	1.000000	2.19694e-17	1.000000
PAH3+H	1.70225e-17	1.000000	1.70225e-17	1.000000
rad60syn	1.58412e-17	1.000000	1.58412e-17	1.000000
rad14	1.31478e-17	1.000000	1.31478e-17	1.000000
rad19syn	1.03678e-17	1.000000	1.03678e-17	1.000000
rad60anti	8.27634e-18	1.000000	8.27634e-18	1.000000
PAH7+H	5.46724e-18	1.000000	5.46724e-18	1.000000
rad59	2.97165e-18	1.000000	2.97165e-18	1.000000
PAH10+CH3	1.04499e-18	1.000000	1.04499e-18	1.000000
rad38	8.18675e-19	1.000000	8.18675e-19	1.000000
rad31	3.82155e-19	1.000000	3.82155e-19	1.000000
rad43	2.61003e-20	1.000000	2.61003e-20	1.000000
rad46	1.62380e-20	1.000000	1.62380e-20	1.000000
rad58	4.64017e-21	1.000000	4.64017e-21	1.000000
rad70	4.35563e-21	1.000000	4.35563e-21	1.000000
PAH9+H	1.47845e-21	1.000000	1.47845e-21	1.000000
PAH1+H	9.98384e-22	1.000000	9.98384e-22	1.000000
rad50	4.67099e-22	1.000000	4.67099e-22	1.000000
rad34	2.40194e-22	1.000000	2.40194e-22	1.000000
rad39	1.34664e-22	1.000000	1.34664e-22	1.000000
rad41	4.39990e-23	1.000000	4.39990e-23	1.000000
rad62	3.74725e-23	1.000000	3.74725e-23	1.000000
rad54	1.43845e-23	1.000000	1.43845e-23	1.000000
rad52	8.15384e-24	1.000000	8.15384e-24	1.000000
rad51	6.39716e-24	1.000000	6.39716e-24	1.000000
rad61	9.34343e-25	1.000000	9.34343e-25	1.000000
rad47	7.80879e-25	1.000000	7.80879e-25	1.000000
rad55	3.39972e-25	1.000000	3.39972e-25	1.000000
rad42	1.33697e-25	1.000000	1.33697e-25	1.000000
rad68syn	2.65260e-26	1.000000	2.65260e-26	1.000000
rad68anti	1.90843e-26	1.000000	1.90843e-26	1.000000
rad40syn	9.48981e-28	1.000000	9.48981e-28	1.000000
rad53	8.12506e-28	1.000000	8.12506e-28	1.000000
rad40anti	7.20108e-28	1.000000	7.20108e-28	1.000000
rad65	7.00561e-28	1.000000	7.00561e-28	1.000000
PAH8+H	3.81631e-28	1.000000	3.81631e-28	1.000000
rad56	3.05290e-29	1.000000	3.05290e-29	1.000000
rad64	3.59578e-30	1.000000	3.59578e-30	1.000000
rad73	1.58643e-30	1.000000	1.58643e-30	1.000000
rad71	3.73131e-32	1.000000	3.73131e-32	1.000000

10000000.0 Pa, 400.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.29463e-13 (1.00)	1.29463e-13 (1.00)
Formation of rad19	1.28526e-13 (0.993)	1.28526e-13 (0.993)
H-abstraction to cyc2enyl	9.19357e-16 (0.00710)	9.19357e-16 (0.00710)
H-abstraction to cyclenyl	1.69485e-17 (0.000131)	1.69485e-17 (0.000131)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.773622	0.773622	0.773622	0.773622
rad19anti	0.217103	0.990726	0.217103	0.990726

Benzene+cycloprop-2-enylidene	0.00710133	0.997827	0.00710133	0.997827
rad15	0.00170449	0.999531	0.00170449	0.999531
Indene+H	0.000316068	0.999848	0.000316068	0.999848
Benzene+cycloprop-1-enylidene	0.000130914	0.999978	0.000130914	0.999978
PhCHCCH2+H	1.05414e-05	0.999989	1.05414e-05	0.999989
rad12	7.14669e-06	0.999996	7.14669e-06	0.999996
PhcycC3H3_A+H	1.40155e-06	0.999998	1.40155e-06	0.999998
PhcycC3H3_B+H	6.72051e-07	0.999998	6.72051e-07	0.999998
rad8	5.63492e-07	0.999999	5.63492e-07	0.999999
rad11	4.24329e-07	0.999999	4.24329e-07	0.999999
rad2	3.91287e-07	1.000000	3.91287e-07	1.000000
rad6	2.54529e-07	1.000000	2.54529e-07	1.000000
C2H2+PhCH2	1.63806e-07	1.000000	1.63806e-07	1.000000
Ph+MeAc	1.08024e-07	1.000000	1.08024e-07	1.000000
rad26	8.20395e-08	1.000000	8.20395e-08	1.000000
rad67	6.94915e-08	1.000000	6.94915e-08	1.000000
rad1	6.10900e-08	1.000000	6.10900e-08	1.000000
rad22	6.02600e-08	1.000000	6.02600e-08	1.000000
PhCCCH3+H	5.16287e-08	1.000000	5.16287e-08	1.000000
rad45	4.67705e-08	1.000000	4.67705e-08	1.000000
Ph+Allene	3.65755e-08	1.000000	3.65755e-08	1.000000
rad18	3.30811e-08	1.000000	3.30811e-08	1.000000
PhCH2CCH+H	3.24254e-08	1.000000	3.24254e-08	1.000000
rad35	2.51259e-08	1.000000	2.51259e-08	1.000000
PhCCH+CH3	2.41648e-08	1.000000	2.41648e-08	1.000000
rad10	2.31053e-08	1.000000	2.31053e-08	1.000000
rad21	1.41638e-08	1.000000	1.41638e-08	1.000000
rad23	1.36001e-08	1.000000	1.36001e-08	1.000000
rad20	1.30535e-08	1.000000	1.30535e-08	1.000000
rad7	5.02441e-09	1.000000	5.02441e-09	1.000000
rad5	3.70995e-09	1.000000	3.70995e-09	1.000000
rad36	2.66680e-09	1.000000	2.66680e-09	1.000000
rad3	2.30727e-09	1.000000	2.30727e-09	1.000000
rad4	1.54929e-09	1.000000	1.54929e-09	1.000000
rad30	6.46024e-10	1.000000	6.46024e-10	1.000000
rad37	3.36185e-10	1.000000	3.36185e-10	1.000000
PAH3+H	2.63173e-10	1.000000	2.63173e-10	1.000000
Phenyl+cycC3H4	2.55189e-10	1.000000	0.000000	1.000000
PAH10+CH3	2.52808e-10	1.000000	2.52808e-10	1.000000
rad25	1.87365e-10	1.000000	1.87365e-10	1.000000
rad28	1.63447e-10	1.000000	1.63447e-10	1.000000
PAH7+H	1.46024e-10	1.000000	1.46024e-10	1.000000
rad19syn	1.26767e-10	1.000000	1.26767e-10	1.000000
rad27	9.29560e-11	1.000000	9.29560e-11	1.000000
rad13	7.28516e-11	1.000000	7.28516e-11	1.000000
rad38	5.36988e-11	1.000000	5.36988e-11	1.000000
rad60syn	3.60531e-11	1.000000	3.60531e-11	1.000000
rad59	2.94989e-11	1.000000	2.94989e-11	1.000000
PAH9+H	2.65744e-11	1.000000	2.65744e-11	1.000000
rad60anti	2.16273e-11	1.000000	2.16273e-11	1.000000
rad24	1.68004e-11	1.000000	1.68004e-11	1.000000
rad14	8.67191e-12	1.000000	8.67191e-12	1.000000
rad43	7.78173e-12	1.000000	7.78173e-12	1.000000
rad46	6.09192e-12	1.000000	6.09192e-12	1.000000
rad39	5.30526e-12	1.000000	5.30526e-12	1.000000
rad50	4.05954e-12	1.000000	4.05954e-12	1.000000
rad70	3.88851e-12	1.000000	3.88851e-12	1.000000
PAH1+H	2.95841e-12	1.000000	2.95841e-12	1.000000
rad58	1.36429e-12	1.000000	1.36429e-12	1.000000
rad51	9.68325e-13	1.000000	9.68325e-13	1.000000
rad34	7.54759e-13	1.000000	7.54759e-13	1.000000
rad33	6.56998e-13	1.000000	6.56998e-13	1.000000
rad54	5.29087e-13	1.000000	5.29087e-13	1.000000
rad62	3.70831e-13	1.000000	3.70831e-13	1.000000
rad52	3.19233e-13	1.000000	3.19233e-13	1.000000
rad41	2.97811e-13	1.000000	2.97811e-13	1.000000
rad61	1.62156e-13	1.000000	1.62156e-13	1.000000
PAH8+H	6.86350e-14	1.000000	6.86350e-14	1.000000
rad55	3.47376e-14	1.000000	3.47376e-14	1.000000
rad68syn	2.28457e-14	1.000000	2.28457e-14	1.000000
rad71	1.81662e-14	1.000000	1.81662e-14	1.000000
rad65	1.76419e-14	1.000000	1.76419e-14	1.000000
rad42	1.69638e-14	1.000000	1.69638e-14	1.000000
rad68anti	1.50550e-14	1.000000	1.50550e-14	1.000000
rad40syn	1.48820e-14	1.000000	1.48820e-14	1.000000
rad73	1.47879e-14	1.000000	1.47879e-14	1.000000
rad40anti	1.20157e-14	1.000000	1.20157e-14	1.000000
rad53	5.98797e-15	1.000000	5.98797e-15	1.000000
rad56	4.86885e-15	1.000000	4.86885e-15	1.000000
rad31	4.41704e-15	1.000000	4.41704e-15	1.000000

rad64	2.00372e-15	1.00000	2.00372e-15	1.00000
rad72	4.76900e-16	1.00000	4.76900e-16	1.00000
rad47	1.23055e-16	1.00000	1.23055e-16	1.00000

10000000.0 Pa, 500.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.52837e-13 (1.00)	2.52837e-13 (1.00)
Formation of rad19	2.47941e-13 (0.981)	2.47941e-13 (0.981)
H-abstraction to cyc2enyl	4.69058e-15 (0.0186)	4.69058e-15 (0.0186)
H-abstraction to cyc1enyl	2.05381e-16 (0.000812)	2.05381e-16 (0.000812)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.923690	0.923690	0.923690	0.923690
rad19anti	0.0424678	0.966158	0.0424678	0.966158
Benzene+cycloprop-2-enylidene	0.0185518	0.984710	0.0185518	0.984710
Indene+H	0.00797187	0.992682	0.00797187	0.992682
rad15	0.00464362	0.997325	0.00464362	0.997325
PhCHCCH2+H	0.00138643	0.998712	0.00138643	0.998712
Benzene+cycloprop-1-enylidene	0.000812306	0.999524	0.000812306	0.999524
PhcycC3H3_A+H	0.000112634	0.999637	0.000112634	0.999637
PhcycC3H3_B+H	9.58549e-05	0.999733	9.58549e-05	0.999733
C2H2+PhCH2	4.06321e-05	0.999773	4.06321e-05	0.999773
Ph+MeAc	4.06168e-05	0.999814	4.06168e-05	0.999814
rad6	3.56991e-05	0.999850	3.56991e-05	0.999850
Ph+Allene	2.33662e-05	0.999873	2.33662e-05	0.999873
PhCH2CCH+H	2.29893e-05	0.999896	2.29893e-05	0.999896
rad67	1.66025e-05	0.999913	1.66025e-05	0.999913
PhCCCH3+H	1.62668e-05	0.999929	1.62668e-05	0.999929
rad12	1.16850e-05	0.999941	1.16850e-05	0.999941
PhCCH+CH3	8.80078e-06	0.999949	8.80078e-06	0.999949
rad2	8.74163e-06	0.999958	8.74163e-06	0.999958
rad11	8.64645e-06	0.999967	8.64645e-06	0.999967
rad45	7.25879e-06	0.999974	7.25879e-06	0.999974
rad26	6.52650e-06	0.999981	6.52650e-06	0.999981
rad35	5.94386e-06	0.999986	5.94386e-06	0.999986
rad23	3.12291e-06	0.999990	3.12291e-06	0.999990
rad10	2.21410e-06	0.999992	2.21410e-06	0.999992
rad22	1.78793e-06	0.999994	1.78793e-06	0.999994
rad1	1.67131e-06	0.999995	1.67131e-06	0.999995
PAH10+CH3	9.33755e-07	0.999996	9.33755e-07	0.999996
rad37	5.57036e-07	0.999997	5.57036e-07	0.999997
rad36	4.45839e-07	0.999997	4.45839e-07	0.999997
rad19syn	3.14785e-07	0.999998	3.14785e-07	0.999998
rad7	3.04137e-07	0.999998	3.04137e-07	0.999998
rad18	2.95127e-07	0.999998	2.95127e-07	0.999998
PAH7+H	2.94966e-07	0.999998	2.94966e-07	0.999998
PAH3+H	2.89593e-07	0.999999	2.89593e-07	0.999999
rad8	2.49303e-07	0.999999	2.49303e-07	0.999999
rad30	2.32798e-07	0.999999	2.32798e-07	0.999999
rad38	1.81865e-07	0.999999	1.81865e-07	0.999999
rad21	1.78786e-07	1.000000	1.78786e-07	1.000000
PAH9+H	1.76599e-07	1.000000	1.76599e-07	1.000000
rad20	1.64680e-07	1.000000	1.64680e-07	1.000000
rad28	1.12032e-07	1.000000	1.12032e-07	1.000000
rad5	7.62595e-08	1.000000	7.62595e-08	1.000000
rad3	6.67370e-08	1.000000	6.67370e-08	1.000000
rad4	4.67502e-08	1.000000	4.67502e-08	1.000000
rad39	4.09944e-08	1.000000	4.09944e-08	1.000000
rad50	3.54223e-08	1.000000	3.54223e-08	1.000000
rad46	3.26606e-08	1.000000	3.26606e-08	1.000000
rad59	2.80756e-08	1.000000	2.80756e-08	1.000000
rad60syn	2.35597e-08	1.000000	2.35597e-08	1.000000
PAH1+H	1.59631e-08	1.000000	1.59631e-08	1.000000
rad60anti	1.46792e-08	1.000000	1.46792e-08	1.000000
rad51	1.13554e-08	1.000000	1.13554e-08	1.000000
rad13	8.48036e-09	1.000000	8.48036e-09	1.000000
rad43	7.61841e-09	1.000000	7.61841e-09	1.000000
Phenyl+cycC3H4	7.60657e-09	1.000000	0.000000	1.000000
rad70	6.48838e-09	1.000000	6.48838e-09	1.000000
rad25	4.89083e-09	1.000000	4.89083e-09	1.000000
rad54	3.95466e-09	1.000000	3.95466e-09	1.000000
rad52	3.21840e-09	1.000000	3.21840e-09	1.000000
rad58	2.84816e-09	1.000000	2.84816e-09	1.000000
rad27	2.26333e-09	1.000000	2.26333e-09	1.000000
rad34	1.62194e-09	1.000000	1.62194e-09	1.000000
rad61	1.47533e-09	1.000000	1.47533e-09	1.000000
PAH8+H	5.42173e-10	1.000000	5.42173e-10	1.000000

rad41	5.30998e-10	1.00000	5.30998e-10	1.00000
rad71	4.23036e-10	1.00000	4.23036e-10	1.00000
rad62	3.50306e-10	1.00000	3.50306e-10	1.00000
rad73	3.03167e-10	1.00000	3.03167e-10	1.00000
rad14	3.00808e-10	1.00000	3.00808e-10	1.00000
rad55	2.99117e-10	1.00000	2.99117e-10	1.00000
rad65	2.72235e-10	1.00000	2.72235e-10	1.00000
rad24	2.70292e-10	1.00000	2.70292e-10	1.00000
rad68syn	1.11616e-10	1.00000	1.11616e-10	1.00000
rad56	9.45956e-11	1.00000	9.45956e-11	1.00000
rad33	9.05057e-11	1.00000	9.05057e-11	1.00000
rad53	8.88153e-11	1.00000	8.88153e-11	1.00000
rad40syn	8.73762e-11	1.00000	8.73762e-11	1.00000
rad68anti	7.27496e-11	1.00000	7.27496e-11	1.00000
rad40anti	7.01233e-11	1.00000	7.01233e-11	1.00000
rad64	4.41789e-11	1.00000	4.41789e-11	1.00000
rad42	2.68656e-11	1.00000	2.68656e-11	1.00000
rad72	1.40656e-11	1.00000	1.40656e-11	1.00000
rad47	6.69628e-12	1.00000	6.69628e-12	1.00000
rad31	3.72012e-12	1.00000	3.72012e-12	1.00000

10000000.0 Pa, 600.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.35570e-13 (1.00)	4.35570e-13 (1.00)
Formation of rad19	4.18892e-13 (0.962)	4.18891e-13 (0.962)
H-abstraction to cyc2enyl	1.54751e-14 (0.0355)	1.54751e-14 (0.0355)
H-abstraction to cyclenyl	1.20343e-15 (0.00276)	1.20343e-15 (0.00276)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.826761	0.826761	0.826762	0.826762
Indene+H	0.0718784	0.898639	0.0718785	0.898640
Benzene+cycloprop-2-enylidene	0.0355285	0.934168	0.0355285	0.934169
PhCHCCH2+H	0.0351564	0.969324	0.0351564	0.969325
rad19anti	0.0111440	0.980468	0.0111440	0.980469
rad15	0.00586041	0.986328	0.00586042	0.986329
Benzene+cycloprop-1-enylidene	0.00276289	0.989091	0.00276289	0.989092
PhcycC3H3_B+H	0.00217256	0.991264	0.00217256	0.991265
PhcycC3H3_A+H	0.00199829	0.993262	0.00199829	0.993263
Ph+MeAc	0.00120948	0.994472	0.00120948	0.994473
C2H2+PhCH2	0.00117021	0.995642	0.00117022	0.995643
Ph+Allene	0.000926046	0.996568	0.000926047	0.996569
PhCH2CCH+H	0.000904613	0.997472	0.000904614	0.997474
rad67	0.000487523	0.997960	0.000487523	0.997961
rad6	0.000476349	0.998436	0.000476350	0.998437
PhCCCH3+H	0.000439869	0.998876	0.000439869	0.998877
PhCCH+CH3	0.000289795	0.999166	0.000289795	0.999167
rad45	0.000197255	0.999363	0.000197255	0.999364
rad35	0.000174889	0.999538	0.000174889	0.999539
rad26	6.27863e-05	0.999601	6.27863e-05	0.999602
PAH10+CH3	6.02400e-05	0.999661	6.02401e-05	0.999662
rad23	5.66613e-05	0.999718	5.66613e-05	0.999719
rad2	4.86325e-05	0.999766	4.86326e-05	0.999768
rad11	2.96781e-05	0.999796	2.96781e-05	0.999797
rad12	2.74300e-05	0.999824	2.74299e-05	0.999825
rad37	2.68554e-05	0.999850	2.68554e-05	0.999852
rad19syn	2.05989e-05	0.999871	2.05989e-05	0.999872
rad10	1.88876e-05	0.999890	1.88876e-05	0.999891
PAH7+H	1.68291e-05	0.999907	1.68291e-05	0.999908
PAH3+H	1.48829e-05	0.999922	1.48829e-05	0.999923
rad36	1.39897e-05	0.999936	1.39897e-05	0.999937
rad1	1.04530e-05	0.999946	1.04530e-05	0.999947
rad38	8.92696e-06	0.999955	8.92697e-06	0.999956
rad30	7.80499e-06	0.999963	7.80500e-06	0.999964
PAH9+H	7.78978e-06	0.999971	7.78978e-06	0.999972
rad22	6.90162e-06	0.999978	6.90162e-06	0.999979
rad7	4.31053e-06	0.999982	4.31053e-06	0.999983
rad39	2.35243e-06	0.999984	2.35243e-06	0.999985
rad28	2.25954e-06	0.999986	2.25955e-06	0.999988
rad50	1.51749e-06	0.999988	1.51749e-06	0.999989
rad59	1.36510e-06	0.999989	1.36510e-06	0.999990
rad46	1.33578e-06	0.999991	1.33578e-06	0.999992
PAH1+H	1.20122e-06	0.999992	1.20122e-06	0.999993
rad60syn	1.00269e-06	0.999993	1.00269e-06	0.999994
Phenyl+cycC3H4	7.80222e-07	0.999994	0.00000	0.999994
rad60anti	6.33584e-07	0.999994	6.33585e-07	0.999995
rad18	6.23998e-07	0.999995	6.23998e-07	0.999995
rad21	5.64217e-07	0.999995	5.64218e-07	0.999996

rad20	4.96917e-07	0.999996	4.96918e-07	0.999996
rad51	4.96065e-07	0.999996	4.96065e-07	0.999997
rad3	4.02051e-07	0.999997	4.02051e-07	0.999997
rad70	3.41457e-07	0.999997	3.41457e-07	0.999997
rad43	3.36868e-07	0.999998	3.36868e-07	0.999998
rad54	3.19233e-07	0.999998	3.19233e-07	0.999998
rad4	2.89695e-07	0.999998	2.89695e-07	0.999998
rad8	2.79962e-07	0.999998	2.79962e-07	0.999999
rad5	2.08682e-07	0.999999	2.08682e-07	0.999999
rad58	1.78751e-07	0.999999	1.78751e-07	0.999999
rad52	1.38713e-07	0.999999	1.38713e-07	0.999999
rad61	1.24914e-07	0.999999	1.24914e-07	0.999999
rad13	1.09016e-07	0.999999	1.09016e-07	0.999999
rad34	9.33661e-08	0.999999	9.33662e-08	1.000000
PAH8+H	4.67582e-08	0.999999	4.67582e-08	1.000000
rad41	2.95171e-08	0.999999	2.95170e-08	1.000000
rad55	2.51492e-08	0.999999	2.51492e-08	1.000000
rad71	1.76399e-08	0.999999	1.76399e-08	1.000000
rad25	1.76100e-08	0.999999	1.76100e-08	1.000000
rad62	1.59140e-08	0.999999	1.59140e-08	1.000000
rad65	1.33426e-08	0.999999	1.33426e-08	1.000000
rad73	1.27013e-08	0.999999	1.27013e-08	1.000000
rad47	1.14109e-08	0.999999	1.14110e-08	1.000000
rad56	9.88213e-09	0.999999	9.88223e-09	1.000000
rad27	8.72699e-09	0.999999	8.72700e-09	1.000000
rad53	8.67396e-09	0.999999	8.67397e-09	1.000000
rad68syn	8.28955e-09	0.999999	8.28956e-09	1.000000
rad40syn	6.99104e-09	1.000000	6.99104e-09	1.000000
rad40anti	5.63441e-09	1.000000	5.63441e-09	1.000000
rad68anti	5.38589e-09	1.000000	5.38590e-09	1.000000
rad64	4.01670e-09	1.000000	4.01670e-09	1.000000
rad24	2.68142e-09	1.000000	2.68143e-09	1.000000
rad42	1.48875e-09	1.000000	1.48875e-09	1.000000
rad33	1.36784e-09	1.000000	1.36784e-09	1.000000
rad14	1.32176e-09	1.000000	1.32176e-09	1.000000
rad31	8.95112e-10	1.000000	8.95113e-10	1.000000
rad72	5.87003e-10	1.000000	5.87003e-10	1.000000

10000000.0 Pa, 700.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.91694e-13 (1.00)	6.91677e-13 (1.00)
Formation of rad19	6.47922e-13 (0.937)	6.47906e-13 (0.937)
H-abstraction to cyc2enyl	3.91858e-14 (0.0567)	3.91858e-14 (0.0567)
H-abstraction to cyclenyl	4.58543e-15 (0.00663)	4.58531e-15 (0.00663)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.579497	0.579497	0.579511	0.579511
Indene+H	0.180548	0.760045	0.180552	0.760063
PhCHCCH2+H	0.130886	0.890931	0.130889	0.890952
Benzene+cycloprop-2-enylidene	0.0566520	0.947583	0.0566533	0.947606
Benzene+cycloprop-1-enylidene	0.00662927	0.954212	0.00662926	0.954235
PhcycC3H3_B+H	0.00631670	0.960529	0.00631685	0.960552
PhcycC3H3_A+H	0.00551488	0.966044	0.00551502	0.966067
Ph+MeAc	0.00461347	0.970657	0.00461358	0.970680
C2H2+PhCH2	0.00448626	0.975144	0.00448637	0.975167
rad19anti	0.00444220	0.979586	0.00444231	0.979609
rad15	0.00391430	0.983500	0.00391439	0.983523
Ph+Allene	0.00390318	0.987403	0.00390326	0.987427
PhCH2CCH+H	0.00377477	0.991178	0.00377486	0.991201
rad67	0.00188443	0.993062	0.00188448	0.993086
PhCCCH3+H	0.00162504	0.994687	0.00162508	0.994711
PhCCH+CH3	0.00117175	0.995859	0.00117178	0.995883
rad6	0.00111561	0.996975	0.00111564	0.996998
rad45	0.000794994	0.997770	0.000795013	0.997793
rad35	0.000676509	0.998446	0.000676524	0.998470
PAH10+CH3	0.000286539	0.998733	0.000286546	0.998756
rad23	0.000185579	0.998918	0.000185583	0.998942
rad2	0.000144627	0.999063	0.000144630	0.999087
rad37	0.000114866	0.999178	0.000114869	0.999202
rad26	0.000112314	0.999290	0.000112317	0.999314
rad19syn	9.88501e-05	0.999389	9.88518e-05	0.999413
rad12	8.97803e-05	0.999479	8.97824e-05	0.999503
PAH7+H	7.69870e-05	0.999556	7.69888e-05	0.999580
rad36	6.96091e-05	0.999626	6.96107e-05	0.999649
PAH3+H	6.82082e-05	0.999694	6.82098e-05	0.999717
rad38	3.72659e-05	0.999731	3.72666e-05	0.999755
rad11	3.61031e-05	0.999767	3.61040e-05	0.999791

rad10	3.49621e-05	0.999802	3.49629e-05	0.999826
rad1	3.36859e-05	0.999836	3.36867e-05	0.999859
rad30	3.13543e-05	0.999867	3.13551e-05	0.999891
PAH9+H	2.96218e-05	0.999897	2.96225e-05	0.999920
Phenyl+cycC3H4	2.33597e-05	0.999920	0.00000	0.999920
rad39	1.03073e-05	0.999930	1.03075e-05	0.999931
rad7	9.98280e-06	0.999940	9.98307e-06	0.999941
rad22	8.96069e-06	0.999949	8.96090e-06	0.999950
rad59	6.14959e-06	0.999955	6.14973e-06	0.999956
PAH1+H	6.03378e-06	0.999962	6.03392e-06	0.999962
rad28	5.55381e-06	0.999967	5.55394e-06	0.999967
rad50	5.47393e-06	0.999973	5.47406e-06	0.999973
rad46	4.79636e-06	0.999977	4.79647e-06	0.999978
rad60syn	4.33985e-06	0.999982	4.33995e-06	0.999982
rad60anti	2.75405e-06	0.999984	2.75411e-06	0.999985
rad51	1.79029e-06	0.999986	1.79034e-06	0.999986
rad54	1.65728e-06	0.999988	1.65732e-06	0.999988
rad70	1.55608e-06	0.999989	1.55611e-06	0.999990
rad43	1.43777e-06	0.999991	1.43781e-06	0.999991
rad3	1.03073e-06	0.999992	1.03075e-06	0.999992
rad21	8.84743e-07	0.999993	8.84764e-07	0.999993
rad58	8.68588e-07	0.999994	8.68609e-07	0.999994
rad8	7.85490e-07	0.999994	7.85509e-07	0.999995
rad4	7.78880e-07	0.999995	7.78897e-07	0.999995
rad20	6.92991e-07	0.999996	6.93007e-07	0.999996
rad61	6.51569e-07	0.999997	6.51585e-07	0.999997
rad18	6.02868e-07	0.999997	6.02883e-07	0.999997
rad52	4.99500e-07	0.999998	4.99512e-07	0.999998
rad34	4.37647e-07	0.999998	4.37657e-07	0.999998
rad13	2.75121e-07	0.999998	2.75127e-07	0.999999
PAH8+H	2.44933e-07	0.999999	2.44938e-07	0.999999
rad5	1.95515e-07	0.999999	1.95519e-07	0.999999
rad47	1.68855e-07	0.999999	1.68859e-07	0.999999
rad41	1.34377e-07	0.999999	1.34381e-07	0.999999
rad55	1.32432e-07	0.999999	1.32436e-07	1.000000
rad62	6.92365e-08	0.999999	6.92381e-08	1.000000
rad71	5.80538e-08	0.999999	5.80551e-08	1.000000
rad56	5.61252e-08	0.999999	5.61265e-08	1.000000
rad65	5.24588e-08	0.999999	5.24600e-08	1.000000
rad53	4.81310e-08	1.000000	4.81322e-08	1.000000
rad68syn	4.20020e-08	1.000000	4.20030e-08	1.000000
rad73	4.19787e-08	1.000000	4.19796e-08	1.000000
rad40syn	3.56901e-08	1.000000	3.56910e-08	1.000000
rad31	3.51509e-08	1.000000	3.51518e-08	1.000000
rad40anti	2.87057e-08	1.000000	2.87064e-08	1.000000
rad68anti	2.72632e-08	1.000000	2.72638e-08	1.000000
rad24	2.46612e-08	1.000000	2.46617e-08	1.000000
rad25	2.30554e-08	1.000000	2.30559e-08	1.000000
rad64	2.14414e-08	1.000000	2.14419e-08	1.000000
rad27	1.64814e-08	1.000000	1.64817e-08	1.000000
rad42	6.82493e-09	1.000000	6.82509e-09	1.000000
rad33	5.11373e-09	1.000000	5.11386e-09	1.000000
rad14	2.57215e-09	1.000000	2.57222e-09	1.000000
rad72	1.93780e-09	1.000000	1.93784e-09	1.000000

10000000.0 Pa, 800.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.03759e-12 (1.00)	1.03750e-12 (1.00)
Formation of rad19	9.41065e-13 (0.907)	9.40982e-13 (0.907)
H-abstraction to cyc2enyl	8.32953e-14 (0.0803)	8.32953e-14 (0.0803)
H-abstraction to cyclenyl	1.32261e-14 (0.0127)	1.32249e-14 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.489123	0.489123	0.489163	0.489163
Indene+H	0.196848	0.685972	0.196864	0.686027
PhCHCCH2+H	0.167210	0.853181	0.167223	0.853250
Benzene+cycloprop-2-enylidene	0.0802780	0.933459	0.0802845	0.933534
Benzene+cycloprop-1-enylidene	0.0127470	0.946206	0.0127469	0.946281
PhcycC3H3_B+H	0.00824331	0.954450	0.00824397	0.954525
PhcycC3H3_A+H	0.00708552	0.961535	0.00708609	0.961611
Ph+MeAc	0.00590125	0.967436	0.00590173	0.967513
C2H2+PhCH2	0.00579047	0.973227	0.00579094	0.973304
Ph+Allene	0.00520886	0.978436	0.00520928	0.978513
PhCH2CCH+H	0.00501199	0.983448	0.00501239	0.983526
rad19anti	0.00327524	0.986723	0.00327551	0.986801
rad67	0.00243891	0.989162	0.00243911	0.989240
PhCCCH3+H	0.00205726	0.991219	0.00205742	0.991298

rad15	0.00187191	0.993091	0.00187206	0.993170
PhCCH+CH3	0.00152883	0.994620	0.00152896	0.994699
rad6	0.00110737	0.995727	0.00110745	0.995806
rad45	0.00104527	0.996773	0.00104535	0.996851
rad35	0.000875959	0.997649	0.000876030	0.997727
PAH10+CH3	0.000391434	0.998040	0.000391466	0.998119
rad12	0.000383060	0.998423	0.000383091	0.998502
rad2	0.000225168	0.998648	0.000225187	0.998727
rad23	0.000212462	0.998861	0.000212479	0.998940
rad37	0.000150688	0.999011	0.000150700	0.999090
rad19syn	0.000149943	0.999161	0.000149955	0.999240
rad36	0.000110353	0.999272	0.000110362	0.999351
PAH7+H	0.000104853	0.999377	0.000104861	0.999456
rad26	9.47825e-05	0.999471	9.47900e-05	0.999550
PAH3+H	9.38266e-05	0.999565	9.38341e-05	0.999644
Phenyl+cycC3H4	7.95124e-05	0.999645	0.000000	0.999644
rad1	6.12630e-05	0.999706	6.12679e-05	0.999705
rad38	4.92295e-05	0.999755	4.92334e-05	0.999755
rad30	4.11286e-05	0.999796	4.11319e-05	0.999796
PAH9+H	3.86275e-05	0.999835	3.86306e-05	0.999834
rad10	3.40163e-05	0.999869	3.40189e-05	0.999868
rad11	2.83227e-05	0.999897	2.83249e-05	0.999897
rad39	1.38817e-05	0.999911	1.38828e-05	0.999911
rad7	1.00541e-05	0.999921	1.00549e-05	0.999921
PAH1+H	8.42427e-06	0.999930	8.42496e-06	0.999929
rad59	8.40704e-06	0.999938	8.40772e-06	0.999938
rad22	8.11423e-06	0.999946	8.11489e-06	0.999946
rad50	7.05558e-06	0.999953	7.05615e-06	0.999953
rad46	6.12302e-06	0.999959	6.12352e-06	0.999959
rad60syn	5.84877e-06	0.999965	5.84925e-06	0.999965
rad8	5.53335e-06	0.999971	5.53380e-06	0.999970
rad28	5.48664e-06	0.999976	5.48708e-06	0.999976
rad60anti	3.71731e-06	0.999980	3.71761e-06	0.999979
rad54	2.38747e-06	0.999982	2.38766e-06	0.999982
rad51	2.32343e-06	0.999985	2.32363e-06	0.999984
rad70	2.12957e-06	0.999987	2.12974e-06	0.999986
rad43	1.88572e-06	0.999989	1.88587e-06	0.999988
rad21	1.65996e-06	0.999990	1.66010e-06	0.999990
rad3	1.34689e-06	0.999992	1.34699e-06	0.999991
rad58	1.21984e-06	0.999993	1.21994e-06	0.999992
rad4	1.08353e-06	0.999994	1.08361e-06	0.999993
rad20	1.01684e-06	0.999995	1.01692e-06	0.999995
rad61	9.21088e-07	0.999996	9.21163e-07	0.999995
rad52	6.45950e-07	0.999997	6.46002e-07	0.999996
rad34	6.04997e-07	0.999997	6.05045e-07	0.999997
rad18	4.76529e-07	0.999998	4.76568e-07	0.999997
rad13	3.74235e-07	0.999998	3.74266e-07	0.999998
PAH8+H	3.48233e-07	0.999998	3.48261e-07	0.999998
rad47	3.36579e-07	0.999999	3.36606e-07	0.999998
rad55	1.91928e-07	0.999999	1.91943e-07	0.999998
rad41	1.79483e-07	0.999999	1.79497e-07	0.999999
rad24	1.73093e-07	0.999999	1.73108e-07	0.999999
rad31	1.41180e-07	0.999999	1.41191e-07	0.999999
rad5	1.25315e-07	0.999999	1.25325e-07	0.999999
rad62	9.21360e-08	1.000000	9.21435e-08	0.999999
rad56	8.39930e-08	1.000000	8.39997e-08	0.999999
rad71	7.44091e-08	1.000000	7.44151e-08	0.999999
rad53	7.13189e-08	1.000000	7.13246e-08	0.999999
rad65	7.02468e-08	1.000000	7.02524e-08	0.999999
rad68syn	5.96862e-08	1.000000	5.96911e-08	0.999999
rad73	5.35735e-08	1.000000	5.35778e-08	1.000000
rad40syn	5.00968e-08	1.000000	5.01008e-08	1.000000
rad40anti	4.01251e-08	1.000000	4.01284e-08	1.000000
rad68anti	3.87287e-08	1.000000	3.87317e-08	1.000000
rad64	3.09258e-08	1.000000	3.09283e-08	1.000000
rad27	2.72843e-08	1.000000	2.72865e-08	1.000000
rad25	2.44184e-08	1.000000	2.44204e-08	1.000000
rad33	1.50294e-08	1.000000	1.50306e-08	1.000000
rad42	9.21940e-09	1.000000	9.22015e-09	1.000000
rad14	3.31065e-09	1.000000	3.31092e-09	1.000000
rad72	2.51224e-09	1.000000	2.51244e-09	1.000000

1000000.0 Pa, 900.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.49199e-12 (1.00)	1.49183e-12 (1.00)
Formation of rad19	1.30395e-12 (0.874)	1.30379e-12 (0.874)
H-abstraction to cyc2enyl	1.56554e-13 (0.105)	1.56554e-13 (0.105)
H-abstraction to cyclenyl	3.14892e-14 (0.0211)	3.14853e-14 (0.0211)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.558885	0.558885	0.558947	0.558947
Indene+H	0.143604	0.702489	0.143620	0.702567
PhCHCCH2+H	0.125665	0.828154	0.125679	0.828246
Benzene+cycloprop-2-enylidene	0.104929	0.933083	0.104941	0.933187
Benzene+cycloprop-1-enylidene	0.0211054	0.954188	0.0211052	0.954292
PhcycC3H3_B+H	0.00826734	0.962456	0.00826826	0.962560
PhcycC3H3_A+H	0.00707103	0.969527	0.00707182	0.969632
Ph+MeAc	0.00442916	0.973956	0.00442965	0.974062
C2H2+PhCH2	0.00436103	0.978317	0.00436151	0.978423
Ph+Allene	0.00397280	0.982290	0.00397325	0.982397
PhCH2CCH+H	0.00379179	0.986082	0.00379222	0.986189
rad19anti	0.00281200	0.988894	0.00281231	0.989001
rad67	0.00183932	0.990733	0.00183952	0.990841
rad12	0.00165902	0.992392	0.00165920	0.992500
PhCCCH3+H	0.00153852	0.993931	0.00153869	0.994039
PhCCH+CH3	0.00112978	0.995060	0.00112991	0.995169
rad15	0.00112084	0.996181	0.00112097	0.996290
rad45	0.000805327	0.996986	0.000805416	0.997095
rad6	0.000751117	0.997738	0.000751201	0.997846
rad35	0.000660777	0.998398	0.000660850	0.998507
PAH10+CH3	0.000291720	0.998690	0.000291752	0.998799
rad2	0.000177820	0.998868	0.000177839	0.998977
rad19syn	0.000154527	0.999022	0.000154544	0.999131
rad23	0.000137740	0.999160	0.000137754	0.999269
rad37	0.000110990	0.999271	0.000111003	0.999380
Phenyl+cycC3H4	0.000108115	0.999379	0.000000	0.999380
rad36	8.53647e-05	0.999465	8.53742e-05	0.999465
PAH7+H	7.95760e-05	0.999544	7.95849e-05	0.999545
PAH3+H	7.16562e-05	0.999616	7.16641e-05	0.999617
rad26	6.02360e-05	0.999676	6.02427e-05	0.999677
rad1	5.66447e-05	0.999733	5.66510e-05	0.999733
rad8	4.05299e-05	0.999773	4.05344e-05	0.999774
rad38	3.69590e-05	0.999810	3.69631e-05	0.999811
rad30	3.10739e-05	0.999841	3.10774e-05	0.999842
PAH9+H	2.98664e-05	0.999871	2.98698e-05	0.999872
rad10	2.24967e-05	0.999894	2.24992e-05	0.999894
rad11	2.13456e-05	0.999915	2.13480e-05	0.999916
rad39	1.06025e-05	0.999926	1.06037e-05	0.999926
rad22	9.03898e-06	0.999935	9.03992e-06	0.999935
rad7	7.23559e-06	0.999942	7.23640e-06	0.999943
rad59	6.41042e-06	0.999948	6.41113e-06	0.999949
PAH1+H	6.36098e-06	0.999955	6.36168e-06	0.999955
rad21	6.20914e-06	0.999961	6.20983e-06	0.999962
rad50	5.52093e-06	0.999966	5.52154e-06	0.999967
rad46	4.74137e-06	0.999971	4.74189e-06	0.999972
rad60syn	4.44474e-06	0.999976	4.44523e-06	0.999976
rad28	3.62349e-06	0.999979	3.62389e-06	0.999980
rad60anti	2.82594e-06	0.999982	2.82625e-06	0.999983
rad20	2.80726e-06	0.999985	2.80758e-06	0.999986
rad54	1.88891e-06	0.999987	1.88912e-06	0.999987
rad51	1.82098e-06	0.999989	1.82118e-06	0.999989
rad70	1.61566e-06	0.999990	1.61584e-06	0.999991
rad43	1.41767e-06	0.999992	1.41782e-06	0.999992
rad3	1.07853e-06	0.999993	1.07864e-06	0.999993
rad24	1.02525e-06	0.999994	1.02536e-06	0.999994
rad58	9.36751e-07	0.999995	9.36852e-07	0.999995
rad4	8.74166e-07	0.999996	8.74260e-07	0.999996
rad61	6.94754e-07	0.999996	6.94832e-07	0.999997
rad18	5.38063e-07	0.999997	5.38122e-07	0.999997
rad13	5.12444e-07	0.999997	5.12501e-07	0.999998
rad52	5.04659e-07	0.999998	5.04714e-07	0.999998
rad34	4.59992e-07	0.999998	4.60044e-07	0.999999
rad47	2.84601e-07	0.999999	2.84632e-07	0.999999
PAH8+H	2.67292e-07	0.999999	2.67321e-07	0.999999
rad55	1.52216e-07	0.999999	1.52233e-07	1.000000
rad31	1.47021e-07	0.999999	1.47037e-07	1.000000
rad41	1.35639e-07	0.999999	1.35655e-07	1.000000
rad5	8.81848e-08	0.999999	8.81942e-08	1.000000
rad62	7.03727e-08	0.999999	7.03805e-08	1.000000
rad56	6.75765e-08	0.999999	6.75840e-08	1.000000
rad71	5.98164e-08	0.999999	5.98230e-08	1.000000
rad53	5.71130e-08	1.000000	5.71193e-08	1.000000
rad65	5.52652e-08	1.000000	5.52713e-08	1.000000
rad33	5.06336e-08	1.000000	5.06392e-08	1.000000
rad68syn	4.56871e-08	1.000000	4.56921e-08	1.000000
rad73	4.28167e-08	1.000000	4.28214e-08	1.000000
rad27	3.89538e-08	1.000000	3.89581e-08	1.000000

rad40syn	3.83352e-08	1.000000	3.83394e-08	1.000000
rad25	3.77798e-08	1.000000	3.77839e-08	1.000000
rad40anti	3.06914e-08	1.000000	3.06948e-08	1.000000
rad68anti	2.96423e-08	1.000000	2.96456e-08	1.000000
rad64	2.39616e-08	1.000000	2.39642e-08	1.000000
rad42	7.08225e-09	1.000000	7.08304e-09	1.000000
rad14	3.27115e-09	1.000000	3.27151e-09	1.000000
rad72	2.04119e-09	1.000000	2.04142e-09	1.000000

10000000.0 Pa, 1000.00000 K

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Rate constant          | True (fraction)          Effective (fraction)
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Total                  | 2.07591e-12 (1.00   ) 2.07565e-12 (1.00   )
Formation of rad19    | 1.74189e-12 (0.839  ) 1.74164e-12 (0.839  )
H-abstraction to cyc2enyl | 2.68753e-13 (0.129  ) 2.68753e-13 (0.129  )
H-abstraction to cyclenyl | 6.52627e-14 (0.0314 ) 6.52535e-14 (0.0314 )

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species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.605831	0.605831	0.605905	0.605905
Benzene+cycloprop-2-enylidene	0.129463	0.735294	0.129479	0.735384
Indene+H	0.102841	0.838135	0.102854	0.838238
PhCHCCH2+H	0.0910330	0.929168	0.0910439	0.929282
Benzene+cycloprop-1-enylidene	0.0314382	0.960606	0.0314376	0.960720
PhcycC3H3_B+H	0.00764899	0.968255	0.00764993	0.968370
PhcycC3H3_A+H	0.00653695	0.974792	0.00653776	0.974908
rad12	0.00362396	0.978416	0.00362441	0.978532
Ph+MeAc	0.00320559	0.981621	0.00320599	0.981738
C2H2+PhCH2	0.00314926	0.984771	0.00314965	0.984888
Ph+Allene	0.00289745	0.987668	0.00289780	0.987786
PhCH2CCH+H	0.00274457	0.990413	0.00274491	0.990530
rad19anti	0.00244291	0.992856	0.00244321	0.992974
rad67	0.00133496	0.994191	0.00133513	0.994309
PhCCCH3+H	0.00111042	0.995301	0.00111055	0.995419
rad15	0.000900705	0.996202	0.000900815	0.996320
PhCCH+CH3	0.000801427	0.997003	0.000801525	0.997122
rad45	0.000586303	0.997589	0.000586376	0.997708
rad6	0.000510969	0.998100	0.000511032	0.998219
rad35	0.000479681	0.998580	0.000479740	0.998699
PAH10+CH3	0.000207741	0.998788	0.000207766	0.998907
rad8	0.000181354	0.998969	0.000181377	0.999088
rad19syn	0.000144364	0.999114	0.000144381	0.999232
rad2	0.000130584	0.999244	0.000130600	0.999363
Phenyl+cycC3H4	0.000118811	0.999363	0.000000	0.999363
rad23	9.14139e-05	0.999454	9.14248e-05	0.999454
rad37	7.81801e-05	0.999533	7.81897e-05	0.999533
rad36	5.99549e-05	0.999593	5.99624e-05	0.999593
PAH7+H	5.72014e-05	0.999650	5.72085e-05	0.999650
PAH3+H	5.22595e-05	0.999702	5.22659e-05	0.999702
rad1	4.21715e-05	0.999744	4.21768e-05	0.999744
rad26	3.86111e-05	0.999783	3.86159e-05	0.999783
rad21	3.00076e-05	0.999813	3.00113e-05	0.999813
rad38	2.66366e-05	0.999839	2.66399e-05	0.999839
rad30	2.25183e-05	0.999862	2.25211e-05	0.999862
rad11	2.24987e-05	0.999884	2.25014e-05	0.999884
PAH9+H	2.21496e-05	0.999907	2.21523e-05	0.999907
rad10	1.51495e-05	0.999922	1.51514e-05	0.999922
rad22	1.50277e-05	0.999937	1.50296e-05	0.999937
rad20	9.98225e-06	0.999947	9.98350e-06	0.999947
rad39	7.70053e-06	0.999954	7.70148e-06	0.999954
rad7	5.84052e-06	0.999960	5.84125e-06	0.999960
rad59	4.67000e-06	0.999965	4.67057e-06	0.999965
PAH1+H	4.58145e-06	0.999970	4.58201e-06	0.999970
rad50	4.14658e-06	0.999974	4.14709e-06	0.999974
rad24	3.65681e-06	0.999977	3.65726e-06	0.999977
rad46	3.54033e-06	0.999981	3.54076e-06	0.999981
rad60syn	3.23103e-06	0.999984	3.23143e-06	0.999984
rad28	2.37236e-06	0.999986	2.37265e-06	0.999987
rad60anti	2.05471e-06	0.999989	2.05497e-06	0.999989
rad54	1.39732e-06	0.999990	1.39749e-06	0.999990
rad51	1.36786e-06	0.999991	1.36802e-06	0.999991
rad70	1.15912e-06	0.999992	1.15926e-06	0.999993
rad13	1.04581e-06	0.999994	1.04594e-06	0.999994
rad43	1.02103e-06	0.999995	1.02116e-06	0.999995
rad18	9.39757e-07	0.999995	9.39874e-07	0.999996
rad3	7.85080e-07	0.999996	7.85176e-07	0.999996
rad58	6.85966e-07	0.999997	6.86050e-07	0.999997
rad4	6.20439e-07	0.999998	6.20516e-07	0.999998
rad61	5.00532e-07	0.999998	5.00593e-07	0.999998

rad52	3.78441e-07	0.999998	3.78488e-07	0.999998
rad34	3.30201e-07	0.999999	3.30242e-07	0.999999
rad47	2.09107e-07	0.999999	2.09132e-07	0.999999
rad33	1.94683e-07	0.999999	1.94708e-07	0.999999
PAH8+H	1.93630e-07	0.999999	1.93654e-07	0.999999
rad55	1.12799e-07	0.999999	1.12813e-07	1.000000
rad31	1.12601e-07	1.000000	1.12615e-07	1.000000
rad25	1.06512e-07	1.000000	1.06525e-07	1.000000
rad41	9.80193e-08	1.000000	9.80318e-08	1.000000
rad27	7.60865e-08	1.000000	7.60958e-08	1.000000
rad5	7.00079e-08	1.000000	7.00165e-08	1.000000
rad62	5.12437e-08	1.000000	5.12500e-08	1.000000
rad56	5.06404e-08	1.000000	5.06467e-08	1.000000
rad71	4.59584e-08	1.000000	4.59641e-08	1.000000
rad53	4.26399e-08	1.000000	4.26452e-08	1.000000
rad65	4.13726e-08	1.000000	4.13777e-08	1.000000
rad68syn	3.28886e-08	1.000000	3.28926e-08	1.000000
rad73	3.27671e-08	1.000000	3.27712e-08	1.000000
rad40syn	2.77646e-08	1.000000	2.77680e-08	1.000000
rad40anti	2.22560e-08	1.000000	2.22587e-08	1.000000
rad68anti	2.13374e-08	1.000000	2.13401e-08	1.000000
rad64	1.75805e-08	1.000000	1.75827e-08	1.000000
rad42	5.17684e-09	1.000000	5.17749e-09	1.000000
rad14	4.58180e-09	1.000000	4.58237e-09	1.000000
rad72	1.57874e-09	1.000000	1.57893e-09	1.000000

10000000.0 Pa, 1100.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.81236e-12 (1.00)	2.81195e-12 (1.00)
Formation of rad19	2.25993e-12 (0.804)	2.25954e-12 (0.804)
H-abstraction to cyc2enyl	4.30538e-13 (0.153)	4.30538e-13 (0.153)
H-abstraction to cyclenyl	1.21896e-13 (0.0433)	1.21875e-13 (0.0433)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.606287	0.606287	0.606376	0.606376
Benzene+cycloprop-2-enylidene	0.153088	0.759374	0.153110	0.759486
Indene+H	0.0844005	0.843775	0.0844127	0.843899
PhCHCCH2+H	0.0766595	0.920434	0.0766707	0.920569
Benzene+cycloprop-1-enylidene	0.0433429	0.963777	0.0433418	0.963911
PhcycC3H3_B+H	0.00689674	0.970674	0.00689775	0.970809
PhcycC3H3_A+H	0.00590507	0.976579	0.00590594	0.976715
rad12	0.00465892	0.981238	0.00465960	0.981374
Ph+MeAc	0.00270250	0.983940	0.00270289	0.984077
C2H2+PhCH2	0.00261944	0.986560	0.00261982	0.986697
Ph+Allene	0.00244709	0.989007	0.00244744	0.989145
PhCH2CCH+H	0.00230285	0.991310	0.00230319	0.991448
rad19anti	0.00210905	0.993419	0.00210935	0.993557
rad67	0.00112525	0.994544	0.00112542	0.994683
rad15	0.000956336	0.995500	0.000956479	0.995639
PhCCCH3+H	0.000933185	0.996434	0.000933321	0.996572
PhCCH+CH3	0.000672036	0.997106	0.000672134	0.997245
rad45	0.000483494	0.997589	0.000483566	0.997728
rad8	0.000407955	0.997997	0.000408014	0.998136
rad35	0.000404391	0.998402	0.000404450	0.998541
rad6	0.000403906	0.998805	0.000403965	0.998945
PAH10+CH3	0.000175451	0.998981	0.000175476	0.999120
Phenyl+cycC3H4	0.000139292	0.999120	0.000000	0.999120
rad19syn	0.000129942	0.999250	0.000129962	0.999250
rad2	0.000107314	0.999357	0.000107331	0.999357
rad21	8.97121e-05	0.999447	8.97250e-05	0.999447
rad23	7.34754e-05	0.999521	7.34862e-05	0.999521
rad37	6.52387e-05	0.999586	6.52482e-05	0.999586
rad36	4.83945e-05	0.999634	4.84016e-05	0.999634
PAH7+H	4.77497e-05	0.999682	4.77567e-05	0.999682
PAH3+H	4.41467e-05	0.999726	4.41531e-05	0.999726
rad11	3.63147e-05	0.999762	3.63200e-05	0.999762
rad1	3.36596e-05	0.999796	3.36645e-05	0.999796
rad26	2.83616e-05	0.999825	2.83657e-05	0.999824
rad22	2.30774e-05	0.999848	2.30807e-05	0.999848
rad20	2.30598e-05	0.999871	2.30631e-05	0.999871
rad38	2.25978e-05	0.999893	2.26012e-05	0.999893
PAH9+H	1.90215e-05	0.999912	1.90243e-05	0.999912
rad30	1.89005e-05	0.999931	1.89033e-05	0.999931
rad10	1.45129e-05	0.999946	1.45151e-05	0.999946
rad7	6.88701e-06	0.999953	6.88802e-06	0.999952
rad39	6.51287e-06	0.999959	6.51382e-06	0.999959
rad24	6.22313e-06	0.999965	6.22404e-06	0.999965

rad59	3.94086e-06	0.999969	3.94144e-06	0.999969
PAH1+H	3.88756e-06	0.999973	3.88813e-06	0.999973
rad50	3.59098e-06	0.999977	3.59151e-06	0.999977
rad46	3.05777e-06	0.999980	3.05822e-06	0.999980
rad13	2.81266e-06	0.999983	2.81308e-06	0.999983
rad60syn	2.72076e-06	0.999985	2.72116e-06	0.999985
rad18	1.88731e-06	0.999987	1.88759e-06	0.999987
rad28	1.81857e-06	0.999989	1.81884e-06	0.999989
rad60anti	1.73059e-06	0.999991	1.73084e-06	0.999991
rad51	1.18533e-06	0.999992	1.18550e-06	0.999992
rad54	1.17238e-06	0.999993	1.17255e-06	0.999993
rad70	9.47424e-07	0.999994	9.47568e-07	0.999994
rad43	8.39465e-07	0.999995	8.39587e-07	0.999995
rad3	6.31688e-07	0.999996	6.31780e-07	0.999996
rad33	5.91112e-07	0.999996	5.91199e-07	0.999996
rad58	5.81656e-07	0.999997	5.81741e-07	0.999997
rad4	4.90449e-07	0.999997	4.90521e-07	0.999997
rad61	4.27574e-07	0.999998	4.27637e-07	0.999998
rad25	3.92761e-07	0.999998	3.92818e-07	0.999998
rad52	3.27684e-07	0.999998	3.27731e-07	0.999998
rad34	2.69770e-07	0.999999	2.69810e-07	0.999999
rad27	2.10321e-07	0.999999	2.10352e-07	0.999999
rad47	1.71810e-07	0.999999	1.71836e-07	0.999999
PAH8+H	1.59138e-07	0.999999	1.59161e-07	0.999999
rad55	9.47730e-08	0.999999	9.47865e-08	0.999999
rad31	9.19179e-08	0.999999	9.19315e-08	0.999999
rad41	8.06567e-08	0.999999	8.06682e-08	0.999999
rad5	5.90249e-08	0.999999	5.90336e-08	0.999999
rad56	4.29498e-08	1.000000	4.29562e-08	0.999999
rad62	4.24797e-08	1.000000	4.24860e-08	0.999999
rad71	4.05070e-08	1.000000	4.05130e-08	1.000000
rad53	3.60494e-08	1.000000	3.60547e-08	1.000000
rad65	3.57212e-08	1.000000	3.57265e-08	1.000000
rad73	2.88015e-08	1.000000	2.88057e-08	1.000000
rad68syn	2.68812e-08	1.000000	2.68852e-08	1.000000
rad40syn	2.28280e-08	1.000000	2.28313e-08	1.000000
rad40anti	1.83223e-08	1.000000	1.83251e-08	1.000000
rad68anti	1.74396e-08	1.000000	1.74422e-08	1.000000
rad64	1.50574e-08	1.000000	1.50596e-08	1.000000
rad14	9.92529e-09	1.000000	9.92671e-09	1.000000
rad42	4.29465e-09	1.000000	4.29529e-09	1.000000
rad72	1.39746e-09	1.000000	1.39767e-09	1.000000

1000000.0 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.72623e-12 (1.00)	3.72545e-12 (1.00)
Formation of rad19	2.86288e-12 (0.768)	2.86215e-12 (0.768)
H-abstraction to cyc2enyl	6.53266e-13 (0.175)	6.53266e-13 (0.175)
H-abstraction to cyc1enyl	2.10085e-13 (0.0564)	2.10032e-13 (0.0564)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.586970	0.586970	0.587094	0.587094
Benzene+cycloprop-2-enylidene	0.175315	0.762285	0.175352	0.762447
Indene+H	0.0760843	0.838370	0.0761004	0.838547
PhCHCCH2+H	0.0707745	0.909144	0.0707895	0.909337
Benzene+cycloprop-1-enylidene	0.0563801	0.965524	0.0563775	0.965714
PhcycC3H3_B+H	0.00618080	0.971705	0.00618211	0.971896
PhcycC3H3_A+H	0.00531755	0.977023	0.00531867	0.977215
rad12	0.00489455	0.981917	0.00489558	0.982110
Ph+MeAc	0.00249775	0.984415	0.00249828	0.984609
C2H2+PhCH2	0.00238110	0.986796	0.00238160	0.986990
Ph+Allene	0.00225120	0.989047	0.00225168	0.989242
PhCH2CCH+H	0.00210474	0.991152	0.00210518	0.991347
rad19anti	0.00180990	0.992962	0.00181029	0.993157
rad15	0.00143987	0.994402	0.00144018	0.994598
rad67	0.00103501	0.995437	0.00103524	0.995633
PhCCCH3+H	0.000860286	0.996297	0.000860470	0.996493
PhCCH+CH3	0.000622367	0.996919	0.000622498	0.997116
rad8	0.000613365	0.997533	0.000613494	0.997729
rad45	0.000432871	0.997966	0.000432963	0.998162
rad35	0.000372011	0.998338	0.000372089	0.998534
rad6	0.000356224	0.998694	0.000356300	0.998891
Phenyl+cycC3H4	0.000196793	0.998891	0.000000	0.998891
PAH10+CH3	0.000162880	0.999054	0.000162914	0.999054
rad21	0.000151483	0.999205	0.000151515	0.999205
rad19syn	0.000115292	0.999320	0.000115316	0.999320
rad2	9.44101e-05	0.999415	9.44296e-05	0.999415

rad11	7.91853e-05	0.999494	7.92017e-05	0.999494
rad23	6.40444e-05	0.999558	6.40580e-05	0.999558
rad37	6.01178e-05	0.999618	6.01305e-05	0.999618
PAH7+H	4.36601e-05	0.999662	4.36693e-05	0.999662
rad36	4.28948e-05	0.999705	4.29039e-05	0.999705
PAH3+H	4.02715e-05	0.999745	4.02799e-05	0.999745
rad20	3.32072e-05	0.999778	3.32142e-05	0.999778
rad1	2.90086e-05	0.999807	2.90146e-05	0.999807
rad22	2.51654e-05	0.999832	2.51707e-05	0.999833
rad26	2.42122e-05	0.999857	2.42173e-05	0.999857
rad10	2.14966e-05	0.999878	2.15011e-05	0.999878
rad38	2.10793e-05	0.999899	2.10837e-05	0.999899
PAH9+H	1.79561e-05	0.999917	1.79599e-05	0.999917
rad30	1.72237e-05	0.999934	1.72274e-05	0.999935
rad7	1.18152e-05	0.999946	1.18177e-05	0.999946
rad24	7.37094e-06	0.999953	7.37250e-06	0.999954
rad13	7.07600e-06	0.999961	7.07750e-06	0.999961
rad39	6.04119e-06	0.999967	6.04246e-06	0.999967
rad18	4.04736e-06	0.999971	4.04822e-06	0.999971
PAH1+H	3.60731e-06	0.999974	3.60807e-06	0.999974
rad59	3.59386e-06	0.999978	3.59462e-06	0.999978
rad50	3.39946e-06	0.999981	3.40017e-06	0.999981
rad46	2.89107e-06	0.999984	2.89168e-06	0.999984
rad60syn	2.48005e-06	0.999987	2.48058e-06	0.999987
rad28	1.58152e-06	0.999988	1.58186e-06	0.999988
rad60anti	1.57754e-06	0.999990	1.57787e-06	0.999990
rad25	1.14039e-06	0.999991	1.14063e-06	0.999991
rad51	1.12303e-06	0.999992	1.12327e-06	0.999992
rad33	1.09752e-06	0.999993	1.09774e-06	0.999993
rad54	1.07439e-06	0.999994	1.07462e-06	0.999994
rad70	8.29592e-07	0.999995	8.29770e-07	0.999995
rad43	7.43009e-07	0.999996	7.43165e-07	0.999996
rad3	5.50384e-07	0.999996	5.50500e-07	0.999997
rad58	5.31227e-07	0.999997	5.31339e-07	0.999997
rad27	5.18244e-07	0.999997	5.18353e-07	0.999998
rad4	4.23658e-07	0.999998	4.23747e-07	0.999998
rad61	3.99598e-07	0.999998	3.99682e-07	0.999998
rad52	3.10346e-07	0.999999	3.10411e-07	0.999999
rad34	2.35937e-07	0.999999	2.35987e-07	0.999999
rad47	1.53198e-07	0.999999	1.53230e-07	0.999999
PAH8+H	1.40033e-07	0.999999	1.40062e-07	0.999999
rad55	8.69344e-08	0.999999	8.69528e-08	0.999999
rad31	8.03439e-08	0.999999	8.03611e-08	0.999999
rad41	7.13800e-08	0.999999	7.13951e-08	1.000000
rad5	5.82670e-08	0.999999	5.82793e-08	1.000000
rad56	3.96541e-08	0.999999	3.96625e-08	1.000000
rad71	3.88974e-08	0.999999	3.89057e-08	1.000000
rad62	3.76124e-08	0.999999	3.76203e-08	1.000000
rad65	3.38171e-08	1.000000	3.38242e-08	1.000000
rad53	3.32101e-08	1.000000	3.32172e-08	1.000000
rad73	2.75998e-08	1.000000	2.76056e-08	1.000000
rad68syn	2.34842e-08	1.000000	2.34892e-08	1.000000
rad14	2.33609e-08	1.000000	2.33658e-08	1.000000
rad40syn	2.01156e-08	1.000000	2.01198e-08	1.000000
rad40anti	1.61770e-08	1.000000	1.61804e-08	1.000000
rad68anti	1.52357e-08	1.000000	1.52389e-08	1.000000
rad64	1.40578e-08	1.000000	1.40608e-08	1.000000
rad42	3.79784e-09	1.000000	3.79864e-09	1.000000
rad72	1.34605e-09	1.000000	1.34634e-09	1.000000

1000000.0 Pa, 1300.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.84401e-12 (1.00)	4.84228e-12 (1.00)
Formation of rad19	3.55537e-12 (0.734)	3.55379e-12 (0.734)
H-abstraction to cyc2enyl	9.48893e-13 (0.196)	9.48893e-13 (0.196)
H-abstraction to cyclenyl	3.39740e-13 (0.0701)	3.39589e-13 (0.0701)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.560034	0.560034	0.560234	0.560234
Benzene+cycloprop-2-enylidene	0.195890	0.755924	0.195960	0.756195
Indene+H	0.0717710	0.827695	0.0717966	0.827991
Benzene+cycloprop-1-enylidene	0.0701362	0.897831	0.0701301	0.898121
PhCHCCH2+H	0.0679737	0.965805	0.0679980	0.966119
PhcycC3H3_B+H	0.00559524	0.971400	0.00559724	0.971717
PhcycC3H3_A+H	0.00485334	0.976253	0.00485508	0.976572
rad12	0.00479995	0.981053	0.00480166	0.981373
rad15	0.00279527	0.983848	0.00279627	0.984170

Ph+MeAc	0.00239668	0.986245	0.00239754	0.986567
C2H2+PhCH2	0.00225795	0.988503	0.00225876	0.988826
Ph+Allene	0.00213292	0.990636	0.00213368	0.990960
PhCH2CCH+H	0.00197766	0.992614	0.00197837	0.992938
rad19anti	0.00154703	0.994161	0.00154758	0.994485
rad67	0.000981565	0.995142	0.000981912	0.995467
PhCCCH3+H	0.000823893	0.995966	0.000824188	0.996292
rad8	0.000776126	0.996742	0.000776403	0.997068
PhCCH+CH3	0.000599475	0.997342	0.000599689	0.997668
rad45	0.000403809	0.997746	0.000403953	0.998072
rad35	0.000352849	0.998098	0.000352975	0.998425
Phenyl+cycC3H4	0.000326276	0.998425	0.000000	0.998425
rad6	0.000325914	0.998751	0.000326031	0.998751
rad11	0.000188876	0.998939	0.000188943	0.998940
rad21	0.000186122	0.999126	0.000186188	0.999126
PAH10+CH3	0.000155472	0.999281	0.000155529	0.999281
rad19syn	0.000101887	0.999383	0.000101924	0.999383
rad2	8.57751e-05	0.999469	8.58058e-05	0.999469
rad37	5.72365e-05	0.999526	5.72570e-05	0.999526
rad23	5.70093e-05	0.999583	5.70298e-05	0.999583
PAH7+H	4.14980e-05	0.999624	4.15128e-05	0.999625
rad10	4.11394e-05	0.999666	4.11541e-05	0.999666
rad36	3.98300e-05	0.999705	3.98443e-05	0.999706
rad20	3.80623e-05	0.999743	3.80759e-05	0.999744
PAH3+H	3.73944e-05	0.999781	3.74078e-05	0.999781
rad1	2.60800e-05	0.999807	2.60893e-05	0.999807
rad26	2.50656e-05	0.999832	2.50746e-05	0.999832
rad22	2.40303e-05	0.999856	2.40389e-05	0.999856
rad7	2.40064e-05	0.999880	2.40150e-05	0.999881
rad38	2.03512e-05	0.999900	2.03585e-05	0.999901
PAH9+H	1.77419e-05	0.999918	1.77483e-05	0.999919
rad30	1.60521e-05	0.999934	1.60578e-05	0.999935
rad13	1.26219e-05	0.999947	1.26264e-05	0.999947
rad18	1.01580e-05	0.999957	1.01616e-05	0.999957
rad24	7.58980e-06	0.999965	7.59252e-06	0.999965
rad39	5.81512e-06	0.999970	5.81720e-06	0.999971
PAH1+H	3.44419e-06	0.999974	3.44542e-06	0.999974
rad50	3.35361e-06	0.999977	3.35480e-06	0.999978
rad59	3.33788e-06	0.999980	3.33908e-06	0.999981
rad46	2.85035e-06	0.999983	2.85137e-06	0.999984
rad60syn	2.30540e-06	0.999986	2.30622e-06	0.999986
rad25	2.01546e-06	0.999988	2.01618e-06	0.999988
rad60anti	1.46629e-06	0.999989	1.46681e-06	0.999990
rad28	1.45305e-06	0.999991	1.45357e-06	0.999991
rad33	1.41554e-06	0.999992	1.41604e-06	0.999993
rad51	1.10879e-06	0.999993	1.10919e-06	0.999994
rad54	1.03579e-06	0.999994	1.03616e-06	0.999995
rad27	8.52342e-07	0.999995	8.52649e-07	0.999996
rad70	7.54796e-07	0.999996	7.55061e-07	0.999996
rad43	6.89626e-07	0.999996	6.89873e-07	0.999997
rad3	4.96840e-07	0.999997	4.97018e-07	0.999997
rad58	4.93052e-07	0.999997	4.93228e-07	0.999998
rad61	3.82182e-07	0.999998	3.82319e-07	0.999998
rad4	3.80935e-07	0.999998	3.81072e-07	0.999999
rad52	3.06353e-07	0.999999	3.06463e-07	0.999999
rad34	2.14594e-07	0.999999	2.14671e-07	0.999999
rad47	1.42420e-07	0.999999	1.42471e-07	0.999999
PAH8+H	1.28879e-07	0.999999	1.28925e-07	1.000000
rad55	8.38925e-08	0.999999	8.39226e-08	1.000000
rad5	7.53651e-08	0.999999	7.53916e-08	1.000000
rad31	7.26734e-08	0.999999	7.26994e-08	1.000000
rad41	6.63464e-08	0.999999	6.63701e-08	1.000000
rad14	4.10782e-08	0.999999	4.10929e-08	1.000000
rad71	3.88374e-08	0.999999	3.88513e-08	1.000000
rad56	3.84759e-08	0.999999	3.84897e-08	1.000000
rad62	3.45768e-08	0.999999	3.45892e-08	1.000000
rad65	3.34396e-08	0.999999	3.34516e-08	1.000000
rad53	3.21683e-08	1.000000	3.21798e-08	1.000000
rad73	2.75112e-08	1.000000	2.75211e-08	1.000000
rad68syn	2.13747e-08	1.000000	2.13824e-08	1.000000
rad40syn	1.85581e-08	1.000000	1.85647e-08	1.000000
rad40anti	1.49687e-08	1.000000	1.49741e-08	1.000000
rad68anti	1.38668e-08	1.000000	1.38718e-08	1.000000
rad64	1.35414e-08	1.000000	1.35462e-08	1.000000
rad42	3.49281e-09	1.000000	3.49406e-09	1.000000
rad72	1.34719e-09	1.000000	1.34766e-09	1.000000

10000000.0 Pa, 1400.00000 K

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Rate constant | True (fraction) Effective (fraction)

Total	6.19360e-12 (1.00)	6.18961e-12 (1.00)
Formation of rad19	4.34185e-12 (0.701)	4.33829e-12 (0.701)
H-abstraction to cyc2enyl	1.32990e-12 (0.215)	1.32990e-12 (0.215)
H-abstraction to cyclenyl	5.21850e-13 (0.0843)	5.21423e-13 (0.0842)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.530123	0.530123	0.530464	0.530464
Benzene+cycloprop-2-enylidene	0.214721	0.744844	0.214859	0.745324
Benzene+cycloprop-1-enylidene	0.0842564	0.829101	0.0842416	0.829565
Indene+H	0.0685385	0.897639	0.0685826	0.898148
PhCHCCH2+H	0.0662522	0.963891	0.0662947	0.964443
rad15	0.00575152	0.969643	0.00575522	0.970198
PhcycC3H3_B+H	0.00521784	0.974861	0.00522120	0.975419
rad12	0.00458635	0.979447	0.00458930	0.980008
PhcycC3H3_A+H	0.00457423	0.984021	0.00457717	0.984585
Ph+MeAc	0.00232749	0.986349	0.00232898	0.986914
C2H2+PhCH2	0.00217711	0.988526	0.00217851	0.989093
Ph+Allene	0.00202023	0.990546	0.00202153	0.991114
PhCH2CCH+H	0.00186751	0.992413	0.00186871	0.992983
rad19anti	0.00131941	0.993733	0.00132026	0.994303
rad67	0.000934035	0.994667	0.000934635	0.995238
rad8	0.000879902	0.995547	0.000880469	0.996119
PhCCCH3+H	0.000798731	0.996346	0.000799242	0.996918
PhCCH+CH3	0.000584027	0.996930	0.000584403	0.997502
Phenyl+cycC3H4	0.000574256	0.997504	0.000000	0.997502
rad45	0.000381899	0.997886	0.000382146	0.997884
rad11	0.000360835	0.998247	0.000361067	0.998245
rad35	0.000335836	0.998582	0.000336052	0.998581
rad6	0.000310659	0.998893	0.000310859	0.998892
rad21	0.000197020	0.999090	0.000197147	0.999089
PAH10+CH3	0.000147316	0.999237	0.000147410	0.999237
rad19syn	9.01143e-05	0.999327	9.01721e-05	0.999327
rad2	7.88538e-05	0.999406	7.89044e-05	0.999406
rad10	7.42789e-05	0.999481	7.43261e-05	0.999480
rad37	5.42537e-05	0.999535	5.42886e-05	0.999535
rad23	5.36119e-05	0.999588	5.36465e-05	0.999588
rad7	4.59750e-05	0.999634	4.60046e-05	0.999634
PAH7+H	3.94662e-05	0.999674	3.94917e-05	0.999674
rad20	3.91929e-05	0.999713	3.92181e-05	0.999713
rad36	3.75822e-05	0.999751	3.76063e-05	0.999751
PAH3+H	3.47283e-05	0.999785	3.47506e-05	0.999785
rad26	3.35359e-05	0.999819	3.35575e-05	0.999819
rad22	2.49223e-05	0.999844	2.49383e-05	0.999844
rad1	2.38647e-05	0.999868	2.38800e-05	0.999868
rad18	2.22141e-05	0.999890	2.22283e-05	0.999890
rad38	1.96648e-05	0.999910	1.96775e-05	0.999910
PAH9+H	1.77851e-05	0.999927	1.77966e-05	0.999927
rad13	1.56486e-05	0.999943	1.56587e-05	0.999943
rad30	1.49457e-05	0.999958	1.49553e-05	0.999958
rad24	7.39186e-06	0.999965	7.39666e-06	0.999965
rad39	5.57945e-06	0.999971	5.58304e-06	0.999971
rad50	3.34597e-06	0.999974	3.34813e-06	0.999974
PAH1+H	3.27143e-06	0.999978	3.27353e-06	0.999978
rad59	3.10005e-06	0.999981	3.10205e-06	0.999981
rad46	2.84296e-06	0.999984	2.84479e-06	0.999984
rad25	2.50988e-06	0.999986	2.51150e-06	0.999986
rad60syn	2.14216e-06	0.999988	2.14355e-06	0.999988
rad33	1.45885e-06	0.999990	1.45979e-06	0.999990
rad28	1.45512e-06	0.999991	1.45606e-06	0.999991
rad60anti	1.36237e-06	0.999992	1.36325e-06	0.999992
rad51	1.10710e-06	0.999994	1.10781e-06	0.999994
rad27	1.04852e-06	0.999995	1.04920e-06	0.999995
rad54	9.94828e-07	0.999996	9.95473e-07	0.999996
rad70	7.05404e-07	0.999996	7.05854e-07	0.999996
rad43	6.59323e-07	0.999997	6.59748e-07	0.999997
rad58	4.57984e-07	0.999997	4.58279e-07	0.999997
rad3	4.48978e-07	0.999998	4.49268e-07	0.999998
rad61	3.61861e-07	0.999998	3.62094e-07	0.999998
rad4	3.43379e-07	0.999999	3.43600e-07	0.999999
rad52	3.05857e-07	0.999999	3.06055e-07	0.999999
rad34	2.00744e-07	0.999999	2.00873e-07	0.999999
rad5	1.36833e-07	0.999999	1.36921e-07	0.999999
rad47	1.34291e-07	0.999999	1.34378e-07	0.999999
PAH8+H	1.22351e-07	1.000000	1.22430e-07	0.999999
rad55	8.07045e-08	1.000000	8.07569e-08	1.000000
rad31	6.65980e-08	1.000000	6.66409e-08	1.000000
rad41	6.35745e-08	1.000000	6.36154e-08	1.000000
rad14	5.30589e-08	1.000000	5.30930e-08	1.000000

rad71	3.91567e-08	1.000000	3.91819e-08	1.000000
rad56	3.73027e-08	1.000000	3.73267e-08	1.000000
rad65	3.35274e-08	1.000000	3.35490e-08	1.000000
rad62	3.26322e-08	1.000000	3.26533e-08	1.000000
rad53	3.11169e-08	1.000000	3.11369e-08	1.000000
rad73	2.76983e-08	1.000000	2.77161e-08	1.000000
rad68syn	2.00600e-08	1.000000	2.00729e-08	1.000000
rad40syn	1.76562e-08	1.000000	1.76676e-08	1.000000
rad40anti	1.42821e-08	1.000000	1.42913e-08	1.000000
rad68anti	1.30133e-08	1.000000	1.30217e-08	1.000000
rad64	1.29606e-08	1.000000	1.29690e-08	1.000000
rad42	3.30523e-09	1.000000	3.30735e-09	1.000000
rad72	1.36092e-09	1.000000	1.36179e-09	1.000000

10000000.0 Pa, 1500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.80417e-12 (1.00)	7.79531e-12 (1.00)
Formation of rad19	5.22661e-12 (0.670)	5.21888e-12 (0.669)
H-abstraction to cyc2enyl	1.80920e-12 (0.232)	1.80920e-12 (0.232)
H-abstraction to cyclenyl	7.68359e-13 (0.0985)	7.67223e-13 (0.0984)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.499220	0.499220	0.499788	0.499788
Benzene+cycloprop-2-enylidene	0.231825	0.731045	0.232088	0.731876
Benzene+cycloprop-1-enylidene	0.0984549	0.829500	0.0984211	0.830298
Indene+H	0.0654974	0.894997	0.0655718	0.895869
PhCHCCH2+H	0.0649164	0.959914	0.0649902	0.960860
rad15	0.0100671	0.969981	0.0100785	0.970938
PhcycC3H3_B+H	0.00511848	0.975099	0.00512429	0.976062
PhcycC3H3_A+H	0.00452971	0.979629	0.00453485	0.980597
rad12	0.00433509	0.983964	0.00434001	0.984937
Ph+MeAc	0.00226991	0.986234	0.00227249	0.987210
C2H2+PhCH2	0.00211570	0.988350	0.00211811	0.989328
Ph+Allene	0.00189832	0.990248	0.00190047	0.991228
PhCH2CCH+H	0.00177926	0.992027	0.00178129	0.993010
rad19anti	0.00112457	0.993152	0.00112585	0.994135
Phenyl+cycC3H4	0.000990108	0.994142	0.000000	0.994135
rad8	0.000928145	0.995070	0.000929206	0.995065
rad67	0.000890594	0.995961	0.000891607	0.995956
PhCCH3+H	0.000779940	0.996739	0.000778825	0.996735
PhCCH+CH3	0.000569746	0.997308	0.000570394	0.997305
rad11	0.000508865	0.997817	0.000509444	0.997815
rad45	0.000360940	0.998178	0.000361350	0.998176
rad6	0.000343603	0.998522	0.000343994	0.998520
rad35	0.000320298	0.998842	0.000320662	0.998841
rad21	0.000194826	0.999037	0.000195047	0.999036
PAH10+CH3	0.000135462	0.999172	0.000135616	0.999172
rad10	0.000104277	0.999277	0.000104396	0.999276
rad19syn	7.99365e-05	0.999357	8.00275e-05	0.999356
rad2	7.29191e-05	0.999429	7.30019e-05	0.999429
rad7	7.04104e-05	0.999500	7.04900e-05	0.999500
rad23	5.82133e-05	0.999558	5.82795e-05	0.999558
rad26	5.61765e-05	0.999614	5.62404e-05	0.999614
rad37	4.99810e-05	0.999664	5.00378e-05	0.999664
rad20	3.82909e-05	0.999703	3.83344e-05	0.999702
PAH7+H	3.65616e-05	0.999739	3.66031e-05	0.999739
rad36	3.54721e-05	0.999775	3.55124e-05	0.999775
rad18	3.43413e-05	0.999809	3.43803e-05	0.999809
PAH3+H	3.26560e-05	0.999842	3.26932e-05	0.999842
rad22	2.98338e-05	0.999871	2.98678e-05	0.999871
rad1	2.20282e-05	0.999893	2.20532e-05	0.999894
rad38	1.86524e-05	0.999912	1.86736e-05	0.999912
PAH9+H	1.77460e-05	0.999930	1.77661e-05	0.999930
rad13	1.53560e-05	0.999945	1.53734e-05	0.999945
rad30	1.40338e-05	0.999959	1.40497e-05	0.999959
rad24	7.02711e-06	0.999966	7.03507e-06	0.999966
rad39	5.18947e-06	0.999971	5.19537e-06	0.999972
rad50	3.32671e-06	0.999975	3.33049e-06	0.999975
PAH1+H	3.01801e-06	0.999978	3.02144e-06	0.999978
rad59	2.91409e-06	0.999981	2.91740e-06	0.999981
rad46	2.82596e-06	0.999984	2.82917e-06	0.999984
rad25	2.63860e-06	0.999986	2.64160e-06	0.999986
rad60syn	2.01250e-06	0.999988	2.01479e-06	0.999988
rad28	1.78037e-06	0.999990	1.78240e-06	0.999990
rad33	1.30530e-06	0.999991	1.30679e-06	0.999991
rad60anti	1.27998e-06	0.999993	1.28144e-06	0.999993
rad27	1.11347e-06	0.999994	1.11474e-06	0.999994

rad51	1.10148e-06	0.999995	1.10273e-06	0.999995
rad54	9.07518e-07	0.999996	9.08545e-07	0.999996
rad70	6.72506e-07	0.999996	6.73266e-07	0.999997
rad43	6.37593e-07	0.999997	6.38318e-07	0.999997
rad58	4.31211e-07	0.999997	4.31701e-07	0.999998
rad3	4.03341e-07	0.999998	4.03800e-07	0.999998
rad5	3.40979e-07	0.999998	3.41367e-07	0.999998
rad61	3.32298e-07	0.999998	3.32676e-07	0.999999
rad4	3.07771e-07	0.999999	3.08121e-07	0.999999
rad52	3.04284e-07	0.999999	3.04630e-07	0.999999
rad34	1.91654e-07	0.999999	1.91871e-07	0.999999
rad47	1.26620e-07	0.999999	1.26764e-07	1.000000
PAH8+H	1.18079e-07	1.000000	1.18213e-07	1.000000
rad55	7.37469e-08	1.000000	7.38307e-08	1.000000
rad41	6.15867e-08	1.000000	6.16567e-08	1.000000
rad31	6.14560e-08	1.000000	6.15259e-08	1.000000
rad14	5.69921e-08	1.000000	5.70569e-08	1.000000
rad71	3.92974e-08	1.000000	3.93421e-08	1.000000
rad56	3.43688e-08	1.000000	3.44078e-08	1.000000
rad65	3.35308e-08	1.000000	3.35689e-08	1.000000
rad62	3.08964e-08	1.000000	3.09315e-08	1.000000
rad53	2.86006e-08	1.000000	2.86332e-08	1.000000
rad73	2.77635e-08	1.000000	2.77950e-08	1.000000
rad68syn	1.92263e-08	1.000000	1.92482e-08	1.000000
rad40syn	1.70530e-08	1.000000	1.70723e-08	1.000000
rad40anti	1.38147e-08	1.000000	1.38304e-08	1.000000
rad68anti	1.24719e-08	1.000000	1.24861e-08	1.000000
rad64	1.18961e-08	1.000000	1.19096e-08	1.000000
rad42	3.13824e-09	1.000000	3.14180e-09	1.000000
rad72	1.36812e-09	1.000000	1.36967e-09	1.000000

1000000.00 Pa, 40.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.24819e-18 (1.00)	2.24819e-18 (1.00)
Formation of rad19	2.24819e-18 (1.00)	2.24819e-18 (1.00)
H-abstraction to cyc2enyl	1.72361e-40 (7.67e-23)	1.72361e-40 (7.67e-23)
H-abstraction to cyc1enyl	2.48792e-59 (1.11e-41)	2.48792e-59 (1.11e-41)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.609228	0.609228	0.609228	0.609228
rad9	0.390676	0.999904	0.390676	0.999904
rad15	9.32197e-05	0.999997	9.32197e-05	0.999997
rad12	2.31717e-06	1.000000	2.31717e-06	1.000000
rad8	4.57762e-07	1.000000	4.57762e-07	1.000000
Indene+H	3.84564e-07	1.000000	3.84564e-07	1.000000
PhCHCCH2+H	6.40856e-10	1.000000	6.40856e-10	1.000000
rad7	7.52765e-11	1.000000	7.52765e-11	1.000000
rad11	3.14329e-11	1.000000	3.14329e-11	1.000000
rad2	2.30278e-11	1.000000	2.30278e-11	1.000000
rad1	2.69251e-12	1.000000	2.69251e-12	1.000000
rad26	2.59954e-12	1.000000	2.59954e-12	1.000000
rad18	2.58025e-12	1.000000	2.58025e-12	1.000000
rad21	1.21509e-12	1.000000	1.21509e-12	1.000000
rad6	8.19670e-13	1.000000	8.19670e-13	1.000000
rad20	3.04135e-13	1.000000	3.04135e-13	1.000000
rad22	1.30947e-13	1.000000	1.30947e-13	1.000000
rad5	9.72050e-14	1.000000	9.72050e-14	1.000000
PhcycC3H3_A+H	3.25577e-14	1.000000	3.25577e-14	1.000000
rad45	2.98620e-14	1.000000	2.98620e-14	1.000000
rad67	2.65805e-14	1.000000	2.65805e-14	1.000000
rad35	1.23194e-14	1.000000	1.23194e-14	1.000000
rad36	2.73680e-15	1.000000	2.73680e-15	1.000000
rad10	2.65838e-15	1.000000	2.65838e-15	1.000000
C2H2+PhCH2	2.38385e-15	1.000000	2.38385e-15	1.000000
rad24	1.18003e-15	1.000000	1.18003e-15	1.000000
rad3	6.71151e-16	1.000000	6.71151e-16	1.000000
rad4	4.17749e-16	1.000000	4.17749e-16	1.000000
PhCCCH3+H	1.67834e-16	1.000000	1.67834e-16	1.000000
Phenyl+cycC3H4	1.16100e-16	1.000000	0.000000	1.000000
Ph+MeAc	9.98569e-17	1.000000	9.98569e-17	1.000000
rad23	7.90622e-17	1.000000	7.90622e-17	1.000000
rad25	6.94627e-17	1.000000	6.94627e-17	1.000000
PhCCH+CH3	4.60824e-17	1.000000	4.60824e-17	1.000000
Ph+Allene	4.13990e-17	1.000000	4.13990e-17	1.000000
rad27	3.06732e-17	1.000000	3.06732e-17	1.000000
rad13	1.24985e-17	1.000000	1.24985e-17	1.000000
PhCH2CCH+H	5.95638e-18	1.000000	5.95638e-18	1.000000

rad30	5.71508e-18	1.00000	5.71508e-18	1.00000
rad33	1.88665e-19	1.00000	1.88665e-19	1.00000
rad37	4.14882e-20	1.00000	4.14882e-20	1.00000
PhcycC3H3_B+H	1.83728e-20	1.00000	1.83728e-20	1.00000
rad28	1.67181e-20	1.00000	1.67181e-20	1.00000
rad60syn	1.42610e-20	1.00000	1.42610e-20	1.00000
rad60anti	6.68299e-21	1.00000	6.68299e-21	1.00000
rad14	4.72106e-21	1.00000	4.72106e-21	1.00000
PAH3+H	3.53682e-21	1.00000	3.53682e-21	1.00000
rad31	3.15496e-21	1.00000	3.15496e-21	1.00000
rad59	7.74206e-22	1.00000	7.74206e-22	1.00000
PAH7+H	7.48174e-22	1.00000	7.48174e-22	1.00000
rad38	1.13327e-22	1.00000	1.13327e-22	1.00000
Benzene+cycloprop-2-enylidene	7.66665e-23	1.00000	7.66665e-23	1.00000
PAH10+CH3	2.18055e-23	1.00000	2.18055e-23	1.00000
rad46	2.13209e-24	1.00000	2.13209e-24	1.00000
rad43	1.41413e-25	1.00000	1.41413e-25	1.00000
PAH9+H	7.61311e-26	1.00000	7.61311e-26	1.00000
rad58	1.55745e-26	1.00000	1.55745e-26	1.00000
rad70	7.30283e-27	1.00000	7.30283e-27	1.00000
rad50	6.55690e-27	1.00000	6.55690e-27	1.00000
rad39	9.91844e-28	1.00000	9.91844e-28	1.00000
PAH1+H	5.58499e-28	1.00000	5.58499e-28	1.00000
rad19syn	2.67716e-28	1.00000	2.67716e-28	1.00000
rad54	1.72205e-28	1.00000	1.72205e-28	1.00000
rad34	4.84662e-29	1.00000	4.84662e-29	1.00000
rad52	2.61974e-29	1.00000	2.61974e-29	1.00000
rad62	7.54753e-30	1.00000	7.54753e-30	1.00000
rad51	4.52525e-30	1.00000	4.52525e-30	1.00000
rad55	8.20840e-31	1.00000	8.20840e-31	1.00000
rad41	6.91011e-31	1.00000	6.91011e-31	1.00000
rad47	8.26971e-32	1.00000	8.26971e-32	1.00000
rad42	1.87491e-34	1.00000	1.87491e-34	1.00000
rad65	5.20112e-35	1.00000	5.20112e-35	1.00000
rad53	1.16686e-38	1.00000	1.16686e-38	1.00000
rad61	3.86453e-39	1.00000	3.86453e-39	1.00000
Benzene+cycloprop-1-enylidene	1.10663e-41	1.00000	1.10663e-41	1.00000
rad68syn	1.29711e-42	1.00000	1.29711e-42	1.00000
rad68anti	1.05604e-42	1.00000	1.05604e-42	1.00000
rad64	4.44239e-43	1.00000	4.44239e-43	1.00000
rad56	2.23116e-45	1.00000	2.23116e-45	1.00000
rad40syn	5.67201e-48	1.00000	5.67201e-48	1.00000
rad40anti	4.36383e-48	1.00000	4.36383e-48	1.00000
rad73	2.17676e-50	1.00000	2.17676e-50	1.00000
PAH8+H	1.34924e-50	1.00000	1.34924e-50	1.00000
rad71	1.33882e-55	1.00000	1.33882e-55	1.00000

1000000.00 Pa, 50.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.72707e-17 (1.00)	1.72707e-17 (1.00)
Formation of rad19	1.72707e-17 (1.00)	1.72707e-17 (1.00)
H-abstraction to cyc2enyl	5.49905e-35 (3.18e-18)	5.49905e-35 (3.18e-18)
H-abstraction to cyc1enyl	4.93090e-50 (2.86e-33)	4.93090e-50 (2.86e-33)

species	PYtrue	Cumul	PYeffective	Cumul
rad19anti	0.522788	0.522788	0.522788	0.522788
rad9	0.477057	0.999845	0.477057	0.999845
rad15	0.000151956	0.999997	0.000151956	0.999997
rad12	2.03045e-06	0.999999	2.03045e-06	0.999999
Indene+H	8.43007e-07	1.000000	8.43007e-07	1.000000
rad8	5.09505e-08	1.000000	5.09505e-08	1.000000
PhCHCCH2+H	1.10517e-09	1.000000	1.10517e-09	1.000000
rad7	7.87851e-11	1.000000	7.87851e-11	1.000000
rad11	5.43277e-11	1.000000	5.43277e-11	1.000000
rad2	4.00379e-11	1.000000	4.00379e-11	1.000000
rad18	5.73559e-12	1.000000	5.73559e-12	1.000000
rad26	4.85409e-12	1.000000	4.85409e-12	1.000000
rad1	4.43399e-12	1.000000	4.43399e-12	1.000000
rad21	1.95105e-12	1.000000	1.95105e-12	1.000000
rad6	1.23857e-12	1.000000	1.23857e-12	1.000000
rad20	6.35476e-13	1.000000	6.35476e-13	1.000000
rad22	2.91930e-13	1.000000	2.91930e-13	1.000000
rad5	1.13775e-13	1.000000	1.13775e-13	1.000000
rad45	6.74773e-14	1.000000	6.74773e-14	1.000000
rad67	6.11511e-14	1.000000	6.11511e-14	1.000000
PhcycC3H3_A+H	5.01459e-14	1.000000	5.01459e-14	1.000000
rad35	2.82919e-14	1.000000	2.82919e-14	1.000000

C2H2+PhCH2	6.72504e-15	1.000000	6.72504e-15	1.000000
rad10	6.18359e-15	1.000000	6.18359e-15	1.000000
rad36	5.88024e-15	1.000000	5.88024e-15	1.000000
rad3	1.57398e-15	1.000000	1.57398e-15	1.000000
rad24	1.49905e-15	1.000000	1.49905e-15	1.000000
rad4	9.63474e-16	1.000000	9.63474e-16	1.000000
PhCCCH3+H	3.92958e-16	1.000000	3.92958e-16	1.000000
rad23	2.43333e-16	1.000000	2.43333e-16	1.000000
Phenyl+cycC3H4	2.34401e-16	1.000000	0.00000	1.000000
Ph+MeAc	2.33170e-16	1.000000	2.33170e-16	1.000000
rad25	1.60435e-16	1.000000	1.60435e-16	1.000000
Ph+Allene	9.80851e-17	1.000000	9.80851e-17	1.000000
PhCCH+CH3	7.42049e-17	1.000000	7.42049e-17	1.000000
rad27	7.09579e-17	1.000000	7.09579e-17	1.000000
rad13	2.35224e-17	1.000000	2.35224e-17	1.000000
rad30	1.72980e-17	1.000000	1.72980e-17	1.000000
PhCH2CCH+H	1.42483e-17	1.000000	1.42483e-17	1.000000
Benzene+cycloprop-2-enylidene	3.18404e-18	1.000000	3.18404e-18	1.000000
rad33	3.22186e-19	1.000000	3.22186e-19	1.000000
rad37	1.09754e-19	1.000000	1.09754e-19	1.000000
PhcycC3H3_B+H	5.11918e-20	1.000000	5.11918e-20	1.000000
rad60syn	4.38535e-20	1.000000	4.38535e-20	1.000000
rad28	4.38522e-20	1.000000	4.38522e-20	1.000000
rad60anti	2.05792e-20	1.000000	2.05792e-20	1.000000
rad14	1.48699e-20	1.000000	1.48699e-20	1.000000
PAH3+H	1.10780e-20	1.000000	1.10780e-20	1.000000
rad31	4.19995e-21	1.000000	4.19995e-21	1.000000
rad59	2.41918e-21	1.000000	2.41918e-21	1.000000
PAH7+H	2.17495e-21	1.000000	2.17495e-21	1.000000
rad38	3.35072e-22	1.000000	3.35072e-22	1.000000
PAH10+CH3	6.12524e-23	1.000000	6.12524e-23	1.000000
rad46	7.20509e-24	1.000000	7.20509e-24	1.000000
rad43	4.71104e-25	1.000000	4.71104e-25	1.000000
PAH9+H	3.26241e-25	1.000000	3.26241e-25	1.000000
rad58	5.22688e-26	1.000000	5.22688e-26	1.000000
rad70	2.47363e-26	1.000000	2.47363e-26	1.000000
rad50	2.31171e-26	1.000000	2.31171e-26	1.000000
rad39	3.61434e-27	1.000000	3.61434e-27	1.000000
PAH1+H	1.70724e-27	1.000000	1.70724e-27	1.000000
rad54	4.47703e-28	1.000000	4.47703e-28	1.000000
rad34	1.72580e-28	1.000000	1.72580e-28	1.000000
rad52	9.66565e-29	1.000000	9.66565e-29	1.000000
rad62	3.44913e-29	1.000000	3.44913e-29	1.000000
rad19syn	2.20322e-29	1.000000	2.20322e-29	1.000000
rad51	1.72447e-29	1.000000	1.72447e-29	1.000000
rad41	2.70058e-30	1.000000	2.70058e-30	1.000000
rad55	2.20010e-30	1.000000	2.20010e-30	1.000000
rad47	3.26513e-31	1.000000	3.26513e-31	1.000000
Benzene+cycloprop-1-enylidene	2.85507e-33	1.000000	2.85507e-33	1.000000
rad42	9.84584e-34	1.000000	9.84584e-34	1.000000
rad65	2.46103e-34	1.000000	2.46103e-34	1.000000
rad53	5.41027e-38	1.000000	5.41027e-38	1.000000
rad61	2.19759e-38	1.000000	2.19759e-38	1.000000
rad68syn	9.95165e-42	1.000000	9.95165e-42	1.000000
rad68anti	8.09234e-42	1.000000	8.09234e-42	1.000000
rad64	2.76961e-42	1.000000	2.76961e-42	1.000000
rad56	1.72150e-44	1.000000	1.72150e-44	1.000000
rad40syn	5.80255e-47	1.000000	5.80255e-47	1.000000
rad40anti	4.47008e-47	1.000000	4.47008e-47	1.000000
rad73	2.59550e-49	1.000000	2.59550e-49	1.000000
PAH8+H	1.55070e-49	1.000000	1.55070e-49	1.000000
rad71	1.96060e-54	1.000000	1.96060e-54	1.000000

1000000.00 Pa, 60.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.93738e-17 (1.00)	6.93738e-17 (1.00)
Formation of rad19	6.93738e-17 (1.000)	6.93738e-17 (1.000)
H-abstraction to cyc2enyl	2.50609e-31 (3.61e-15)	2.50609e-31 (3.61e-15)
H-abstraction to cyclenyl	7.62015e-44 (1.10e-27)	7.62015e-44 (1.10e-27)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.548967	0.548967	0.548967	0.548967
rad19anti	0.450811	0.999778	0.450811	0.999778
rad15	0.000218771	0.999997	0.000218771	0.999997
rad12	1.81032e-06	0.999999	1.81032e-06	0.999999
Indene+H	1.53106e-06	1.00000	1.53106e-06	1.00000
rad8	7.26416e-09	1.00000	7.26416e-09	1.00000

PhCHCCH2+H	1.68604e-09	1.00000	1.68604e-09	1.00000
rad11	8.30518e-11	1.00000	8.30518e-11	1.00000
rad7	8.27449e-11	1.00000	8.27449e-11	1.00000
rad2	6.15334e-11	1.00000	6.15334e-11	1.00000
rad18	1.05787e-11	1.00000	1.05787e-11	1.00000
rad26	7.79720e-12	1.00000	7.79720e-12	1.00000
rad1	6.55372e-12	1.00000	6.55372e-12	1.00000
rad21	2.79550e-12	1.00000	2.79550e-12	1.00000
rad6	1.77318e-12	1.00000	1.77318e-12	1.00000
rad20	1.11743e-12	1.00000	1.11743e-12	1.00000
rad22	5.42967e-13	1.00000	5.42967e-13	1.00000
rad5	1.29192e-13	1.00000	1.29192e-13	1.00000
rad45	1.26022e-13	1.00000	1.26022e-13	1.00000
rad67	1.16907e-13	1.00000	1.16907e-13	1.00000
PhcycC3H3_A+H	7.40071e-14	1.00000	7.40071e-14	1.00000
rad35	5.39841e-14	1.00000	5.39841e-14	1.00000
C2H2+PhCH2	1.52237e-14	1.00000	1.52237e-14	1.00000
rad10	1.19447e-14	1.00000	1.19447e-14	1.00000
rad36	1.05923e-14	1.00000	1.05923e-14	1.00000
Benzene+cycloprop-2-enylidene	3.61245e-15	1.00000	3.61245e-15	1.00000
rad3	3.06118e-15	1.00000	3.06118e-15	1.00000
rad4	1.85119e-15	1.00000	1.85119e-15	1.00000
rad24	1.77765e-15	1.00000	1.77765e-15	1.00000
PhCCCH3+H	7.68061e-16	1.00000	7.68061e-16	1.00000
rad23	5.78993e-16	1.00000	5.78993e-16	1.00000
Ph+MeAc	4.56624e-16	1.00000	4.56624e-16	1.00000
Phenyl+cycC3H4	4.40306e-16	1.00000	0.00000	1.00000
rad25	3.08091e-16	1.00000	3.08091e-16	1.00000
Ph+Allene	1.93566e-16	1.00000	1.93566e-16	1.00000
rad27	1.36416e-16	1.00000	1.36416e-16	1.00000
PhCCH+CH3	1.08615e-16	1.00000	1.08615e-16	1.00000
rad30	4.08537e-17	1.00000	4.08537e-17	1.00000
rad13	3.95737e-17	1.00000	3.95737e-17	1.00000
PhCH2CCH+H	2.84210e-17	1.00000	2.84210e-17	1.00000
rad33	4.95479e-19	1.00000	4.95479e-19	1.00000
rad37	2.33320e-19	1.00000	2.33320e-19	1.00000
PhcycC3H3_B+H	1.55403e-19	1.00000	1.55403e-19	1.00000
rad60syn	1.05399e-19	1.00000	1.05399e-19	1.00000
rad28	9.27494e-20	1.00000	9.27494e-20	1.00000
rad60anti	4.95371e-20	1.00000	4.95371e-20	1.00000
rad14	3.65573e-20	1.00000	3.65573e-20	1.00000
PAH3+H	2.71782e-20	1.00000	2.71782e-20	1.00000
rad59	5.91915e-21	1.00000	5.91915e-21	1.00000
rad31	5.39207e-21	1.00000	5.39207e-21	1.00000
PAH7+H	5.06379e-21	1.00000	5.06379e-21	1.00000
rad38	7.83864e-22	1.00000	7.83864e-22	1.00000
PAH10+CH3	1.38621e-22	1.00000	1.38621e-22	1.00000
rad46	1.85072e-23	1.00000	1.85072e-23	1.00000
rad43	1.23415e-24	1.00000	1.23415e-24	1.00000
PAH9+H	1.01576e-24	1.00000	1.01576e-24	1.00000
rad58	1.38650e-25	1.00000	1.38650e-25	1.00000
rad70	6.62891e-26	1.00000	6.62891e-26	1.00000
rad50	6.19203e-26	1.00000	6.19203e-26	1.00000
rad39	9.97373e-27	1.00000	9.97373e-27	1.00000
PAH1+H	4.23763e-27	1.00000	4.23763e-27	1.00000
Benzene+cycloprop-1-enylidene	1.09842e-27	1.00000	1.09842e-27	1.00000
rad54	9.85540e-28	1.00000	9.85540e-28	1.00000
rad34	4.89596e-28	1.00000	4.89596e-28	1.00000
rad52	2.69311e-28	1.00000	2.69311e-28	1.00000
rad62	1.16818e-28	1.00000	1.16818e-28	1.00000
rad51	4.96852e-29	1.00000	4.96852e-29	1.00000
rad41	8.46414e-30	1.00000	8.46414e-30	1.00000
rad55	5.01244e-30	1.00000	5.01244e-30	1.00000
rad19syn	4.46143e-30	1.00000	4.46143e-30	1.00000
rad47	9.85295e-31	1.00000	9.85295e-31	1.00000
rad42	3.90585e-33	1.00000	3.90585e-33	1.00000
rad65	8.58295e-34	1.00000	8.58295e-34	1.00000
rad53	2.35816e-37	1.00000	2.35816e-37	1.00000
rad61	1.22157e-37	1.00000	1.22157e-37	1.00000
rad68syn	7.37600e-41	1.00000	7.37600e-41	1.00000
rad68anti	5.98845e-41	1.00000	5.98845e-41	1.00000
rad64	1.48304e-41	1.00000	1.48304e-41	1.00000
rad56	1.27870e-43	1.00000	1.27870e-43	1.00000
rad40syn	6.14317e-46	1.00000	6.14317e-46	1.00000
rad40anti	4.73773e-46	1.00000	4.73773e-46	1.00000
rad73	2.91844e-48	1.00000	2.91844e-48	1.00000
PAH8+H	1.92589e-48	1.00000	1.92589e-48	1.00000
rad71	2.94082e-53	1.00000	2.94082e-53	1.00000

1000000.00 Pa, 70.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.91520e-16 (1.00)	1.91520e-16 (1.00)
Formation of rad19	1.91520e-16 (1.000)	1.91520e-16 (1.000)
H-abstraction to cyc2enyl	1.01125e-28 (5.28e-13)	1.01125e-28 (5.28e-13)
H-abstraction to cyclenyl	1.97822e-39 (1.03e-23)	1.97822e-39 (1.03e-23)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.609457	0.609457	0.609457	0.609457
rad19anti	0.390247	0.999704	0.390247	0.999704
rad15	0.000291861	0.999996	0.000291861	0.999996
Indene+H	2.47709e-06	0.999998	2.47709e-06	0.999998
rad12	1.63800e-06	1.000000	1.63800e-06	1.000000
PhCHCCH2+H	2.38666e-09	1.000000	2.38666e-09	1.000000
rad8	1.26321e-09	1.000000	1.26321e-09	1.000000
rad11	1.17798e-10	1.000000	1.17798e-10	1.000000
rad2	8.77038e-11	1.000000	8.77038e-11	1.000000
rad7	8.71447e-11	1.000000	8.71447e-11	1.000000
rad18	1.74006e-11	1.000000	1.74006e-11	1.000000
rad26	1.14511e-11	1.000000	1.14511e-11	1.000000
rad1	9.06684e-12	1.000000	9.06684e-12	1.000000
rad21	3.74393e-12	1.000000	3.74393e-12	1.000000
rad6	2.45314e-12	1.000000	2.45314e-12	1.000000
rad20	1.76615e-12	1.000000	1.76615e-12	1.000000
rad22	9.04676e-13	1.000000	9.04676e-13	1.000000
Benzene+cycloprop-2-enylidene	5.28015e-13	1.000000	5.28015e-13	1.000000
rad45	2.09986e-13	1.000000	2.09986e-13	1.000000
rad67	1.99592e-13	1.000000	1.99592e-13	1.000000
rad5	1.44597e-13	1.000000	1.44597e-13	1.000000
PhcycC3H3_A+H	1.06504e-13	1.000000	1.06504e-13	1.000000
rad35	9.19779e-14	1.000000	9.19779e-14	1.000000
C2H2+PhCH2	2.99705e-14	1.000000	2.99705e-14	1.000000
rad10	2.05999e-14	1.000000	2.05999e-14	1.000000
rad36	1.71695e-14	1.000000	1.71695e-14	1.000000
rad3	5.31135e-15	1.000000	5.31135e-15	1.000000
rad4	3.18189e-15	1.000000	3.18189e-15	1.000000
rad24	2.03393e-15	1.000000	2.03393e-15	1.000000
PhCCCH3+H	1.34467e-15	1.000000	1.34467e-15	1.000000
rad23	1.17882e-15	1.000000	1.17882e-15	1.000000
Ph+MeAc	8.03126e-16	1.000000	8.03126e-16	1.000000
Phenyl+cycC3H4	7.77764e-16	1.000000	0.000000	1.000000
rad25	5.28589e-16	1.000000	5.28589e-16	1.000000
Ph+Allene	3.41843e-16	1.000000	3.41843e-16	1.000000
rad27	2.34263e-16	1.000000	2.34263e-16	1.000000
PhCCH+CH3	1.50788e-16	1.000000	1.50788e-16	1.000000
rad30	8.29013e-17	1.000000	8.29013e-17	1.000000
rad13	6.21533e-17	1.000000	6.21533e-17	1.000000
PhCH2CCH+H	5.07811e-17	1.000000	5.07811e-17	1.000000
rad33	7.16136e-19	1.000000	7.16136e-19	1.000000
PhcycC3H3_B+H	5.09050e-19	1.000000	5.09050e-19	1.000000
rad37	4.35290e-19	1.000000	4.35290e-19	1.000000
rad60syn	2.17962e-19	1.000000	2.17962e-19	1.000000
rad28	1.72524e-19	1.000000	1.72524e-19	1.000000
rad60anti	1.02613e-19	1.000000	1.02613e-19	1.000000
rad14	7.73141e-20	1.000000	7.73141e-20	1.000000
PAH3+H	5.74779e-20	1.000000	5.74779e-20	1.000000
rad59	1.24811e-20	1.000000	1.24811e-20	1.000000
PAH7+H	1.03156e-20	1.000000	1.03156e-20	1.000000
rad31	6.75283e-21	1.000000	6.75283e-21	1.000000
rad38	1.59218e-21	1.000000	1.59218e-21	1.000000
PAH10+CH3	2.76133e-22	1.000000	2.76133e-22	1.000000
rad46	4.03383e-23	1.000000	4.03383e-23	1.000000
Benzene+cycloprop-1-enylidene	1.03290e-23	1.000000	1.03290e-23	1.000000
rad43	2.79957e-24	1.000000	2.79957e-24	1.000000
PAH9+H	2.60562e-24	1.000000	2.60562e-24	1.000000
rad58	3.19479e-25	1.000000	3.19479e-25	1.000000
rad70	1.54477e-25	1.000000	1.54477e-25	1.000000
rad50	1.40808e-25	1.000000	1.40808e-25	1.000000
rad39	2.33231e-26	1.000000	2.33231e-26	1.000000
PAH1+H	9.32035e-27	1.000000	9.32035e-27	1.000000
rad54	1.96841e-27	1.000000	1.96841e-27	1.000000
rad34	1.21462e-27	1.000000	1.21462e-27	1.000000
rad52	6.35606e-28	1.000000	6.35606e-28	1.000000
rad62	3.31052e-28	1.000000	3.31052e-28	1.000000
rad51	1.21452e-28	1.000000	1.21452e-28	1.000000
rad41	2.33150e-29	1.000000	2.33150e-29	1.000000
rad55	1.03990e-29	1.000000	1.03990e-29	1.000000
rad47	2.53515e-30	1.000000	2.53515e-30	1.000000

rad19syn	1.95173e-30	1.000000	1.95173e-30	1.000000
rad42	1.31619e-32	1.000000	1.31619e-32	1.000000
rad65	2.49630e-33	1.000000	2.49630e-33	1.000000
rad53	1.01273e-36	1.000000	1.01273e-36	1.000000
rad61	6.99064e-37	1.000000	6.99064e-37	1.000000
rad68syn	5.61298e-40	1.000000	5.61298e-40	1.000000
rad68anti	4.54847e-40	1.000000	4.54847e-40	1.000000
rad64	7.44797e-41	1.000000	7.44797e-41	1.000000
rad56	9.66780e-43	1.000000	9.66780e-43	1.000000
rad40syn	7.02165e-45	1.000000	7.02165e-45	1.000000
rad40anti	5.41999e-45	1.000000	5.41999e-45	1.000000
rad73	3.36008e-47	1.000000	3.36008e-47	1.000000
PAH8+H	2.68142e-47	1.000000	2.68142e-47	1.000000
rad71	4.82745e-52	1.000000	4.82745e-52	1.000000

1000000.00 Pa, 80.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.17084e-16 (1.00)	4.17084e-16 (1.00)
Formation of rad19	4.17084e-16 (1.000)	4.17084e-16 (1.000)
H-abstraction to cyc2enyl	8.98751e-27 (2.15e-11)	8.98751e-27 (2.15e-11)
H-abstraction to cyclenyl	4.00120e-36 (9.59e-21)	4.00120e-36 (9.59e-21)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.660766	0.660766	0.660766	0.660766
rad19anti	0.338859	0.999625	0.338859	0.999625
rad15	0.000369965	0.999995	0.000369965	0.999995
Indene+H	3.70819e-06	0.999999	3.70819e-06	0.999999
rad12	1.49932e-06	1.00000	1.49932e-06	1.00000
PhCHCCH2+H	3.21424e-09	1.00000	3.21424e-09	1.00000
rad8	2.58608e-10	1.00000	2.58608e-10	1.00000
rad11	1.58962e-10	1.00000	1.58962e-10	1.00000
rad2	1.18896e-10	1.00000	1.18896e-10	1.00000
rad7	9.20148e-11	1.00000	9.20148e-11	1.00000
rad18	2.65094e-11	1.00000	2.65094e-11	1.00000
Benzene+cycloprop-2-enylidene	2.15484e-11	1.00000	2.15484e-11	1.00000
rad26	1.58614e-11	1.00000	1.58614e-11	1.00000
rad1	1.20041e-11	1.00000	1.20041e-11	1.00000
rad21	4.80131e-12	1.00000	4.80131e-12	1.00000
rad6	3.31360e-12	1.00000	3.31360e-12	1.00000
rad20	2.59969e-12	1.00000	2.59969e-12	1.00000
rad22	1.40164e-12	1.00000	1.40164e-12	1.00000
rad45	3.24692e-13	1.00000	3.24692e-13	1.00000
rad67	3.16054e-13	1.00000	3.16054e-13	1.00000
rad5	1.60746e-13	1.00000	1.60746e-13	1.00000
PhcycC3H3_A+H	1.50919e-13	1.00000	1.50919e-13	1.00000
rad35	1.45334e-13	1.00000	1.45334e-13	1.00000
C2H2+PhCH2	5.36786e-14	1.00000	5.36786e-14	1.00000
rad10	3.29502e-14	1.00000	3.29502e-14	1.00000
rad36	2.59729e-14	1.00000	2.59729e-14	1.00000
rad3	8.54359e-15	1.00000	8.54359e-15	1.00000
rad4	5.07973e-15	1.00000	5.07973e-15	1.00000
rad24	2.28017e-15	1.00000	2.28017e-15	1.00000
PhCCCH3+H	2.18885e-15	1.00000	2.18885e-15	1.00000
rad23	2.16522e-15	1.00000	2.16522e-15	1.00000
Ph+MeAc	1.31581e-15	1.00000	1.31581e-15	1.00000
Phenyl+cycC3H4	1.30842e-15	1.00000	0.00000	1.00000
rad25	8.41488e-16	1.00000	8.41488e-16	1.00000
Ph+Allene	5.61117e-16	1.00000	5.61117e-16	1.00000
rad27	3.73257e-16	1.00000	3.73257e-16	1.00000
PhCCH+CH3	2.02982e-16	1.00000	2.02982e-16	1.00000
rad30	1.52051e-16	1.00000	1.52051e-16	1.00000
rad13	9.31929e-17	1.00000	9.31929e-17	1.00000
PhCH2CCH+H	8.44103e-17	1.00000	8.44103e-17	1.00000
PhcycC3H3_B+H	1.74189e-18	1.00000	1.74189e-18	1.00000
rad33	9.94089e-19	1.00000	9.94089e-19	1.00000
rad37	7.45990e-19	1.00000	7.45990e-19	1.00000
rad60syn	4.07967e-19	1.00000	4.07967e-19	1.00000
rad28	2.95242e-19	1.00000	2.95242e-19	1.00000
rad60anti	1.92410e-19	1.00000	1.92410e-19	1.00000
rad14	1.48048e-19	1.00000	1.48048e-19	1.00000
PAH3+H	1.10224e-19	1.00000	1.10224e-19	1.00000
rad59	2.38572e-20	1.00000	2.38572e-20	1.00000
PAH7+H	1.92593e-20	1.00000	1.92593e-20	1.00000
Benzene+cycloprop-1-enylidene	9.59328e-21	1.00000	9.59328e-21	1.00000
rad31	8.31157e-21	1.00000	8.31157e-21	1.00000
rad38	2.94829e-21	1.00000	2.94829e-21	1.00000
PAH10+CH3	5.07071e-22	1.00000	5.07071e-22	1.00000

rad46	7.90024e-23	1.00000	7.90024e-23	1.00000
PAH9+H	5.88423e-24	1.00000	5.88423e-24	1.00000
rad43	5.78744e-24	1.00000	5.78744e-24	1.00000
rad58	6.72373e-25	1.00000	6.72373e-25	1.00000
rad70	3.29215e-25	1.00000	3.29215e-25	1.00000
rad50	2.88091e-25	1.00000	2.88091e-25	1.00000
rad39	4.90242e-26	1.00000	4.90242e-26	1.00000
PAH1+H	1.90184e-26	1.00000	1.90184e-26	1.00000
rad54	3.70071e-27	1.00000	3.70071e-27	1.00000
rad34	2.76967e-27	1.00000	2.76967e-27	1.00000
rad52	1.34907e-27	1.00000	1.34907e-27	1.00000
rad62	8.37268e-28	1.00000	8.37268e-28	1.00000
rad51	2.67525e-28	1.00000	2.67525e-28	1.00000
rad41	5.92619e-29	1.00000	5.92619e-29	1.00000
rad55	2.03844e-29	1.00000	2.03844e-29	1.00000
rad47	5.88741e-30	1.00000	5.88741e-30	1.00000
rad19syn	1.43904e-30	1.00000	1.43904e-30	1.00000
rad42	4.01041e-32	1.00000	4.01041e-32	1.00000
rad65	6.46839e-33	1.00000	6.46839e-33	1.00000
rad53	4.31810e-36	1.00000	4.31810e-36	1.00000
rad61	4.21378e-36	1.00000	4.21378e-36	1.00000
rad68syn	4.51451e-39	1.00000	4.51451e-39	1.00000
rad68anti	3.65033e-39	1.00000	3.65033e-39	1.00000
rad64	3.65190e-40	1.00000	3.65190e-40	1.00000
rad56	7.70073e-42	1.00000	7.70073e-42	1.00000
rad40syn	8.80231e-44	1.00000	8.80231e-44	1.00000
rad40anti	6.79889e-44	1.00000	6.79889e-44	1.00000
PAH8+H	4.22935e-46	1.00000	4.22935e-46	1.00000
rad73	4.10817e-46	1.00000	4.10817e-46	1.00000
rad71	8.87878e-51	1.00000	8.87878e-51	1.00000

1000000.00 Pa, 90.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.74016e-16 (1.00)	7.74016e-16 (1.00)
Formation of rad19	7.74016e-16 (1.000)	7.74016e-16 (1.000)
H-abstraction to cyc2enyl	2.91736e-25 (3.77e-10)	2.91736e-25 (3.77e-10)
H-abstraction to cyc1enyl	1.47814e-33 (1.91e-18)	1.47814e-33 (1.91e-18)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.704576	0.704576	0.704576	0.704576
rad19anti	0.294966	0.999542	0.294966	0.999542
rad15	0.000452177	0.999994	0.000452177	0.999994
Indene+H	5.25218e-06	0.999999	5.25218e-06	0.999999
rad12	1.38498e-06	1.00000	1.38498e-06	1.00000
PhCHCCH2+H	4.17979e-09	1.00000	4.17979e-09	1.00000
Benzene+cycloprop-2-enylidene	3.76912e-10	1.00000	3.76912e-10	1.00000
rad11	2.07135e-10	1.00000	2.07135e-10	1.00000
rad2	1.55609e-10	1.00000	1.55609e-10	1.00000
rad7	9.74046e-11	1.00000	9.74046e-11	1.00000
rad8	6.07045e-11	1.00000	6.07045e-11	1.00000
rad18	3.82476e-11	1.00000	3.82476e-11	1.00000
rad26	2.10969e-11	1.00000	2.10969e-11	1.00000
rad1	1.54110e-11	1.00000	1.54110e-11	1.00000
rad21	5.97966e-12	1.00000	5.97966e-12	1.00000
rad6	4.39724e-12	1.00000	4.39724e-12	1.00000
rad20	3.63974e-12	1.00000	3.63974e-12	1.00000
rad22	2.06413e-12	1.00000	2.06413e-12	1.00000
rad45	4.76676e-13	1.00000	4.76676e-13	1.00000
rad67	4.74697e-13	1.00000	4.74697e-13	1.00000
rad35	2.17789e-13	1.00000	2.17789e-13	1.00000
PhcycC3H3_A+H	2.11833e-13	1.00000	2.11833e-13	1.00000
rad5	1.78248e-13	1.00000	1.78248e-13	1.00000
C2H2+PhCH2	8.99091e-14	1.00000	8.99091e-14	1.00000
rad10	4.99980e-14	1.00000	4.99980e-14	1.00000
rad36	3.74536e-14	1.00000	3.74536e-14	1.00000
rad3	1.30338e-14	1.00000	1.30338e-14	1.00000
rad4	7.70133e-15	1.00000	7.70133e-15	1.00000
rad23	3.70108e-15	1.00000	3.70108e-15	1.00000
PhCCCH3+H	3.38719e-15	1.00000	3.38719e-15	1.00000
rad24	2.52566e-15	1.00000	2.52566e-15	1.00000
Phenyl+cycC3H4	2.11934e-15	1.00000	0.00000	1.00000
Ph+MeAc	2.05241e-15	1.00000	2.05241e-15	1.00000
rad25	1.27111e-15	1.00000	1.27111e-15	1.00000
Ph+Allene	8.75559e-16	1.00000	8.75559e-16	1.00000
rad27	5.64318e-16	1.00000	5.64318e-16	1.00000
PhCCH+CH3	2.68423e-16	1.00000	2.68423e-16	1.00000
rad30	2.59731e-16	1.00000	2.59731e-16	1.00000

rad13	1.35169e-16	1.00000	1.35169e-16	1.00000
PhCH2CCH+H	1.33509e-16	1.00000	1.33509e-16	1.00000
PhcycC3H3_B+H	5.87142e-18	1.00000	5.87142e-18	1.00000
Benzene+cycloprop-1-enylidene	1.90970e-18	1.00000	1.90970e-18	1.00000
rad33	1.34185e-18	1.00000	1.34185e-18	1.00000
rad37	1.20619e-18	1.00000	1.20619e-18	1.00000
rad60syn	7.12195e-19	1.00000	7.12195e-19	1.00000
rad28	4.77255e-19	1.00000	4.77255e-19	1.00000
rad60anti	3.36544e-19	1.00000	3.36544e-19	1.00000
rad14	2.64606e-19	1.00000	2.64606e-19	1.00000
PAH3+H	1.97513e-19	1.00000	1.97513e-19	1.00000
rad59	4.26002e-20	1.00000	4.26002e-20	1.00000
PAH7+H	3.38717e-20	1.00000	3.38717e-20	1.00000
rad31	1.01058e-20	1.00000	1.01058e-20	1.00000
rad38	5.12281e-21	1.00000	5.12281e-21	1.00000
PAH10+CH3	8.82137e-22	1.00000	8.82137e-22	1.00000
rad46	1.43782e-22	1.00000	1.43782e-22	1.00000
PAH9+H	1.21676e-23	1.00000	1.21676e-23	1.00000
rad43	1.12421e-23	1.00000	1.12421e-23	1.00000
rad58	1.33199e-24	1.00000	1.33199e-24	1.00000
rad70	6.61392e-25	1.00000	6.61392e-25	1.00000
rad50	5.48799e-25	1.00000	5.48799e-25	1.00000
rad39	9.59159e-26	1.00000	9.59159e-26	1.00000
PAH1+H	3.70020e-26	1.00000	3.70020e-26	1.00000
rad54	6.69585e-27	1.00000	6.69585e-27	1.00000
rad34	5.98226e-27	1.00000	5.98226e-27	1.00000
rad52	2.66770e-27	1.00000	2.66770e-27	1.00000
rad62	1.96458e-27	1.00000	1.96458e-27	1.00000
rad51	5.50311e-28	1.00000	5.50311e-28	1.00000
rad41	1.43136e-28	1.00000	1.43136e-28	1.00000
rad55	3.86103e-29	1.00000	3.86103e-29	1.00000
rad47	1.27555e-29	1.00000	1.27555e-29	1.00000
rad19syn	1.43159e-30	1.00000	1.43159e-30	1.00000
rad42	1.14743e-31	1.00000	1.14743e-31	1.00000
rad65	1.55416e-32	1.00000	1.55416e-32	1.00000
rad61	2.69224e-35	1.00000	2.69224e-35	1.00000
rad53	1.79978e-35	1.00000	1.79978e-35	1.00000
rad68syn	3.88796e-38	1.00000	3.88796e-38	1.00000
rad68anti	3.13585e-38	1.00000	3.13585e-38	1.00000
rad64	1.77397e-39	1.00000	1.77397e-39	1.00000
rad56	6.63237e-41	1.00000	6.63237e-41	1.00000
rad40syn	1.21688e-42	1.00000	1.21688e-42	1.00000
rad40anti	9.40328e-43	1.00000	9.40328e-43	1.00000
PAH8+H	7.56149e-45	1.00000	7.56149e-45	1.00000
rad73	5.42526e-45	1.00000	5.42526e-45	1.00000
rad71	1.84160e-49	1.00000	1.84160e-49	1.00000

1000000.00 Pa, 100.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.28255e-15 (1.00)	1.28255e-15 (1.00)
Formation of rad19	1.28255e-15 (1.000)	1.28255e-15 (1.000)
H-abstraction to cyc2enyl	4.68359e-24 (3.65e-09)	4.68359e-24 (3.65e-09)
H-abstraction to cyclenyl	1.66242e-31 (1.30e-16)	1.66242e-31 (1.30e-16)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.742183	0.742183	0.742183	0.742183
rad19anti	0.257271	0.999454	0.257271	0.999454
rad15	0.000537844	0.999992	0.000537844	0.999992
Indene+H	7.13904e-06	0.999999	7.13904e-06	0.999999
rad12	1.28880e-06	1.00000	1.28880e-06	1.00000
PhCHCCH2+H	5.29827e-09	1.00000	5.29827e-09	1.00000
Benzene+cycloprop-2-enylidene	3.65179e-09	1.00000	3.65179e-09	1.00000
rad11	2.63110e-10	1.00000	2.63110e-10	1.00000
rad2	1.98508e-10	1.00000	1.98508e-10	1.00000
rad7	1.03379e-10	1.00000	1.03379e-10	1.00000
rad18	5.30081e-11	1.00000	5.30081e-11	1.00000
rad26	2.72505e-11	1.00000	2.72505e-11	1.00000
rad1	1.93479e-11	1.00000	1.93479e-11	1.00000
rad8	1.60116e-11	1.00000	1.60116e-11	1.00000
rad21	7.29715e-12	1.00000	7.29715e-12	1.00000
rad6	5.75696e-12	1.00000	5.75696e-12	1.00000
rad20	4.91310e-12	1.00000	4.91310e-12	1.00000
rad22	2.93009e-12	1.00000	2.93009e-12	1.00000
rad67	6.86036e-13	1.00000	6.86036e-13	1.00000
rad45	6.74149e-13	1.00000	6.74149e-13	1.00000
rad35	3.13997e-13	1.00000	3.13997e-13	1.00000
PhcycC3H3_A+H	2.95695e-13	1.00000	2.95695e-13	1.00000

rad5	1.97681e-13	1.00000	1.97681e-13	1.00000
C2H2+PhCH2	1.43395e-13	1.00000	1.43395e-13	1.00000
rad10	7.30213e-14	1.00000	7.30213e-14	1.00000
rad36	5.21842e-14	1.00000	5.21842e-14	1.00000
rad3	1.91359e-14	1.00000	1.91359e-14	1.00000
rad4	1.12479e-14	1.00000	1.12479e-14	1.00000
rad23	6.00548e-15	1.00000	6.00548e-15	1.00000
PhCCCH3+H	5.05522e-15	1.00000	5.05522e-15	1.00000
Phenyl+cycC3H4	3.33570e-15	1.00000	0.00000	1.00000
Ph+MeAc	3.09144e-15	1.00000	3.09144e-15	1.00000
rad24	2.77817e-15	1.00000	2.77817e-15	1.00000
rad25	1.84826e-15	1.00000	1.84826e-15	1.00000
Ph+Allene	1.31781e-15	1.00000	1.31781e-15	1.00000
rad27	8.21321e-16	1.00000	8.21321e-16	1.00000
rad30	4.21228e-16	1.00000	4.21228e-16	1.00000
PhCCH+CH3	3.51691e-16	1.00000	3.51691e-16	1.00000
PhCH2CCH+H	2.03897e-16	1.00000	2.03897e-16	1.00000
rad13	1.91275e-16	1.00000	1.91275e-16	1.00000
Benzene+cycloprop-1-enylidene	1.29619e-16	1.00000	1.29619e-16	1.00000
PhcycC3H3_B+H	1.85734e-17	1.00000	1.85734e-17	1.00000
rad37	1.87172e-18	1.00000	1.87172e-18	1.00000
rad33	1.77511e-18	1.00000	1.77511e-18	1.00000
rad60syn	1.18222e-18	1.00000	1.18222e-18	1.00000
rad28	7.41140e-19	1.00000	7.41140e-19	1.00000
rad60anti	5.59814e-19	1.00000	5.59814e-19	1.00000
rad14	4.50171e-19	1.00000	4.50171e-19	1.00000
PAH3+H	3.37228e-19	1.00000	3.37228e-19	1.00000
rad59	7.24561e-20	1.00000	7.24561e-20	1.00000
PAH7+H	5.71246e-20	1.00000	5.71246e-20	1.00000
rad31	1.21832e-20	1.00000	1.21832e-20	1.00000
rad38	8.50958e-21	1.00000	8.50958e-21	1.00000
PAH10+CH3	1.47982e-21	1.00000	1.47982e-21	1.00000
rad46	2.48470e-22	1.00000	2.48470e-22	1.00000
PAH9+H	2.36328e-23	1.00000	2.36328e-23	1.00000
rad43	2.09369e-23	1.00000	2.09369e-23	1.00000
rad58	2.53345e-24	1.00000	2.53345e-24	1.00000
rad70	1.27795e-24	1.00000	1.27795e-24	1.00000
rad50	9.95179e-25	1.00000	9.95179e-25	1.00000
rad39	1.78685e-25	1.00000	1.78685e-25	1.00000
PAH1+H	6.98851e-26	1.00000	6.98851e-26	1.00000
rad34	1.24866e-26	1.00000	1.24866e-26	1.00000
rad54	1.18331e-26	1.00000	1.18331e-26	1.00000
rad52	5.02872e-27	1.00000	5.02872e-27	1.00000
rad62	4.38827e-27	1.00000	4.38827e-27	1.00000
rad51	1.08208e-27	1.00000	1.08208e-27	1.00000
rad41	3.34992e-28	1.00000	3.34992e-28	1.00000
rad55	7.17428e-29	1.00000	7.17428e-29	1.00000
rad47	2.63253e-29	1.00000	2.63253e-29	1.00000
rad19syn	1.71375e-30	1.00000	1.71375e-30	1.00000
rad42	3.16154e-31	1.00000	3.16154e-31	1.00000
rad65	3.55614e-32	1.00000	3.55614e-32	1.00000
rad61	1.79570e-34	1.00000	1.79570e-34	1.00000
rad53	7.21030e-35	1.00000	7.21030e-35	1.00000
rad68syn	3.56309e-37	1.00000	3.56309e-37	1.00000
rad68anti	2.86547e-37	1.00000	2.86547e-37	1.00000
rad64	8.52541e-39	1.00000	8.52541e-39	1.00000
rad56	6.22174e-40	1.00000	6.22174e-40	1.00000
rad40syn	1.84537e-41	1.00000	1.84537e-41	1.00000
rad40anti	1.42625e-41	1.00000	1.42625e-41	1.00000
PAH8+H	1.52003e-43	1.00000	1.52003e-43	1.00000
rad73	7.74073e-44	1.00000	7.74073e-44	1.00000
rad71	4.28439e-48	1.00000	4.28439e-48	1.00000

1000000.00 Pa, 110.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.95524e-15 (1.00)	1.95524e-15 (1.00)
Formation of rad19	1.95524e-15 (1.000)	1.95524e-15 (1.000)
H-abstraction to cyc2enyl	4.50936e-23 (2.31e-08)	4.50936e-23 (2.31e-08)
H-abstraction to cyclenyl	7.87782e-30 (4.03e-15)	7.87782e-30 (4.03e-15)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.774605	0.774605	0.774605	0.774605
rad19anti	0.224758	0.999363	0.224758	0.999363
rad15	0.000626494	0.999989	0.000626494	0.999989
Indene+H	9.40231e-06	0.999999	9.40231e-06	0.999999
rad12	1.20657e-06	1.00000	1.20657e-06	1.00000
Benzene+cycloprop-2-enylidene	2.30629e-08	1.00000	2.30629e-08	1.00000

PhCHCCH2+H	6.58914e-09	1.00000	6.58914e-09	1.00000
rad11	3.27915e-10	1.00000	3.27915e-10	1.00000
rad2	2.48450e-10	1.00000	2.48450e-10	1.00000
rad7	1.10020e-10	1.00000	1.10020e-10	1.00000
rad18	7.12523e-11	1.00000	7.12523e-11	1.00000
rad26	3.44439e-11	1.00000	3.44439e-11	1.00000
rad1	2.38932e-11	1.00000	2.38932e-11	1.00000
rad21	8.77822e-12	1.00000	8.77822e-12	1.00000
rad6	7.45954e-12	1.00000	7.45954e-12	1.00000
rad20	6.45326e-12	1.00000	6.45326e-12	1.00000
rad8	4.67098e-12	1.00000	4.67098e-12	1.00000
rad22	4.04782e-12	1.00000	4.04782e-12	1.00000
rad67	9.63448e-13	1.00000	9.63448e-13	1.00000
rad45	9.27588e-13	1.00000	9.27588e-13	1.00000
rad35	4.39854e-13	1.00000	4.39854e-13	1.00000
PhcycC3H3_A+H	4.11699e-13	1.00000	4.11699e-13	1.00000
C2H2+PhCH2	2.20508e-13	1.00000	2.20508e-13	1.00000
rad5	2.19669e-13	1.00000	2.19669e-13	1.00000
rad10	1.03677e-13	1.00000	1.03677e-13	1.00000
rad36	7.09008e-14	1.00000	7.09008e-14	1.00000
rad3	2.73119e-14	1.00000	2.73119e-14	1.00000
rad4	1.59823e-14	1.00000	1.59823e-14	1.00000
rad23	9.37660e-15	1.00000	9.37660e-15	1.00000
PhCCCH3+H	7.34950e-15	1.00000	7.34950e-15	1.00000
Phenyl+cycC3H4	5.14020e-15	1.00000	0.00000	1.00000
Ph+MeAc	4.54145e-15	1.00000	4.54145e-15	1.00000
Benzene+cycloprop-1-enylidene	4.02908e-15	1.00000	4.02908e-15	1.00000
rad24	3.04487e-15	1.00000	3.04487e-15	1.00000
rad25	2.61260e-15	1.00000	2.61260e-15	1.00000
Ph+Allene	1.93267e-15	1.00000	1.93267e-15	1.00000
rad27	1.16217e-15	1.00000	1.16217e-15	1.00000
rad30	6.57203e-16	1.00000	6.57203e-16	1.00000
PhCCH+CH3	4.59345e-16	1.00000	4.59345e-16	1.00000
PhCH2CCH+H	3.03762e-16	1.00000	3.03762e-16	1.00000
rad13	2.65672e-16	1.00000	2.65672e-16	1.00000
PhcycC3H3_B+H	5.40562e-17	1.00000	5.40562e-17	1.00000
rad37	2.82034e-18	1.00000	2.82034e-18	1.00000
rad33	2.31380e-18	1.00000	2.31380e-18	1.00000
rad60syn	1.89114e-18	1.00000	1.89114e-18	1.00000
rad28	1.11860e-18	1.00000	1.11860e-18	1.00000
rad60anti	8.97506e-19	1.00000	8.97506e-19	1.00000
rad14	7.39015e-19	1.00000	7.39015e-19	1.00000
PAH3+H	5.56083e-19	1.00000	5.56083e-19	1.00000
rad59	1.18981e-19	1.00000	1.18981e-19	1.00000
PAH7+H	9.35426e-20	1.00000	9.35426e-20	1.00000
rad31	1.46043e-20	1.00000	1.46043e-20	1.00000
rad38	1.36899e-20	1.00000	1.36899e-20	1.00000
PAH10+CH3	2.42374e-21	1.00000	2.42374e-21	1.00000
rad46	4.13812e-22	1.00000	4.13812e-22	1.00000
PAH9+H	4.38849e-23	1.00000	4.38849e-23	1.00000
rad43	3.79210e-23	1.00000	3.79210e-23	1.00000
rad58	4.69192e-24	1.00000	4.69192e-24	1.00000
rad70	2.40924e-24	1.00000	2.40924e-24	1.00000
rad50	1.74465e-24	1.00000	1.74465e-24	1.00000
rad39	3.22068e-25	1.00000	3.22068e-25	1.00000
PAH1+H	1.29777e-25	1.00000	1.29777e-25	1.00000
rad34	2.55507e-26	1.00000	2.55507e-26	1.00000
rad54	2.06468e-26	1.00000	2.06468e-26	1.00000
rad62	9.50555e-27	1.00000	9.50555e-27	1.00000
rad52	9.18292e-27	1.00000	9.18292e-27	1.00000
rad51	2.06765e-27	1.00000	2.06765e-27	1.00000
rad41	7.70333e-28	1.00000	7.70333e-28	1.00000
rad55	1.32244e-28	1.00000	1.32244e-28	1.00000
rad47	5.24762e-29	1.00000	5.24762e-29	1.00000
rad19syn	2.34440e-30	1.00000	2.34440e-30	1.00000
rad42	8.54231e-31	1.00000	8.54231e-31	1.00000
rad65	7.89992e-32	1.00000	7.89992e-32	1.00000
rad61	1.20187e-33	1.00000	1.20187e-33	1.00000
rad53	2.75862e-34	1.00000	2.75862e-34	1.00000
rad68syn	3.35530e-36	1.00000	3.35530e-36	1.00000
rad68anti	2.68902e-36	1.00000	2.68902e-36	1.00000
rad64	4.01979e-38	1.00000	4.01979e-38	1.00000
rad56	6.10720e-39	1.00000	6.10720e-39	1.00000
rad40syn	2.98790e-40	1.00000	2.98790e-40	1.00000
rad40anti	2.30869e-40	1.00000	2.30869e-40	1.00000
PAH8+H	3.34888e-42	1.00000	3.34888e-42	1.00000
rad73	1.16333e-42	1.00000	1.16333e-42	1.00000
rad71	1.09121e-46	1.00000	1.09121e-46	1.00000

1000000.00 Pa, 120.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.79817e-15 (1.00)	2.79817e-15 (1.00)
Formation of rad19	2.79817e-15 (1.000)	2.79817e-15 (1.000)
H-abstraction to cyc2enyl	2.96039e-22 (1.06e-07)	2.96039e-22 (1.06e-07)
H-abstraction to cyclenyl	1.95323e-28 (6.98e-14)	1.95323e-28 (6.98e-14)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.802653	0.802653	0.802653	0.802653
rad19anti	0.196616	0.999269	0.196616	0.999269
rad15	0.000717793	0.999987	0.000717793	0.999987
Indene+H	1.20804e-05	0.999999	1.20804e-05	0.999999
rad12	1.13536e-06	1.000000	1.13536e-06	1.000000
Benzene+cycloprop-2-enylidene	1.05797e-07	1.000000	1.05797e-07	1.000000
PhCHCCH2+H	8.07724e-09	1.000000	8.07724e-09	1.000000
rad11	4.02860e-10	1.000000	4.02860e-10	1.000000
rad2	3.06528e-10	1.000000	3.06528e-10	1.000000
rad7	1.17428e-10	1.000000	1.17428e-10	1.000000
rad18	9.35308e-11	1.000000	9.35308e-11	1.000000
rad26	4.28327e-11	1.000000	4.28327e-11	1.000000
rad1	2.91470e-11	1.000000	2.91470e-11	1.000000
rad21	1.04544e-11	1.000000	1.04544e-11	1.000000
rad6	9.59051e-12	1.000000	9.59051e-12	1.000000
rad20	8.30238e-12	1.000000	8.30238e-12	1.000000
rad22	5.47949e-12	1.000000	5.47949e-12	1.000000
rad8	1.48819e-12	1.000000	1.48819e-12	1.000000
rad67	1.32420e-12	1.000000	1.32420e-12	1.000000
rad45	1.25054e-12	1.000000	1.25054e-12	1.000000
rad35	6.02936e-13	1.000000	6.02936e-13	1.000000
PhcycC3H3_A+H	5.73050e-13	1.000000	5.73050e-13	1.000000
C2H2+PhCH2	3.29944e-13	1.000000	3.29944e-13	1.000000
rad5	2.44944e-13	1.000000	2.44944e-13	1.000000
rad10	1.44146e-13	1.000000	1.44146e-13	1.000000
rad36	9.45599e-14	1.000000	9.45599e-14	1.000000
Benzene+cycloprop-1-enylidene	6.98038e-14	1.000000	6.98038e-14	1.000000
rad3	3.81730e-14	1.000000	3.81730e-14	1.000000
rad4	2.22528e-14	1.000000	2.22528e-14	1.000000
rad23	1.42256e-14	1.000000	1.42256e-14	1.000000
PhCCCH3+H	1.04854e-14	1.000000	1.04854e-14	1.000000
Phenyl+cycC3H4	7.80208e-15	1.000000	0.000000	1.000000
Ph+MeAc	6.55472e-15	1.000000	6.55472e-15	1.000000
rad25	3.61583e-15	1.000000	3.61583e-15	1.000000
rad24	3.33287e-15	1.000000	3.33287e-15	1.000000
Ph+Allene	2.78251e-15	1.000000	2.78251e-15	1.000000
rad27	1.61027e-15	1.000000	1.61027e-15	1.000000
rad30	9.95903e-16	1.000000	9.95903e-16	1.000000
PhCCH+CH3	6.00920e-16	1.000000	6.00920e-16	1.000000
PhCH2CCH+H	4.44809e-16	1.000000	4.44809e-16	1.000000
rad13	3.63846e-16	1.000000	3.63846e-16	1.000000
PhcycC3H3_B+H	1.44785e-16	1.000000	1.44785e-16	1.000000
rad37	4.16210e-18	1.000000	4.16210e-18	1.000000
rad33	2.98350e-18	1.000000	2.98350e-18	1.000000
rad60syn	2.94373e-18	1.000000	2.94373e-18	1.000000
rad28	1.65488e-18	1.000000	1.65488e-18	1.000000
rad60anti	1.40041e-18	1.000000	1.40041e-18	1.000000
rad14	1.18242e-18	1.000000	1.18242e-18	1.000000
PAH3+H	8.94490e-19	1.000000	8.94490e-19	1.000000
rad59	1.90515e-19	1.000000	1.90515e-19	1.000000
PAH7+H	1.50114e-19	1.000000	1.50114e-19	1.000000
rad38	2.15346e-20	1.000000	2.15346e-20	1.000000
rad31	1.74470e-20	1.000000	1.74470e-20	1.000000
PAH10+CH3	3.91201e-21	1.000000	3.91201e-21	1.000000
rad46	6.71457e-22	1.000000	6.71457e-22	1.000000
PAH9+H	7.89368e-23	1.000000	7.89368e-23	1.000000
rad43	6.75182e-23	1.000000	6.75182e-23	1.000000
rad58	8.55053e-24	1.000000	8.55053e-24	1.000000
rad70	4.47997e-24	1.000000	4.47997e-24	1.000000
rad50	2.99103e-24	1.000000	2.99103e-24	1.000000
rad39	5.68444e-25	1.000000	5.68444e-25	1.000000
PAH1+H	2.39229e-25	1.000000	2.39229e-25	1.000000
rad34	5.18128e-26	1.000000	5.18128e-26	1.000000
rad54	3.58708e-26	1.000000	3.58708e-26	1.000000
rad62	2.02513e-26	1.000000	2.02513e-26	1.000000
rad52	1.64411e-26	1.000000	1.64411e-26	1.000000
rad51	3.88729e-27	1.000000	3.88729e-27	1.000000
rad41	1.75840e-27	1.000000	1.75840e-27	1.000000
rad55	2.43944e-28	1.000000	2.43944e-28	1.000000
rad47	1.01989e-28	1.000000	1.01989e-28	1.000000

rad19syn	3.57288e-30	1.00000	3.57288e-30	1.00000
rad42	2.29369e-30	1.00000	2.29369e-30	1.00000
rad65	1.72919e-31	1.00000	1.72919e-31	1.00000
rad61	7.69916e-33	1.00000	7.69916e-33	1.00000
rad53	1.01052e-33	1.00000	1.01052e-33	1.00000
rad68syn	3.06875e-35	1.00000	3.06875e-35	1.00000
rad68anti	2.44918e-35	1.00000	2.44918e-35	1.00000
rad64	1.84544e-37	1.00000	1.84544e-37	1.00000
rad56	5.80685e-38	1.00000	5.80685e-38	1.00000
rad40syn	4.88251e-39	1.00000	4.88251e-39	1.00000
rad40anti	3.76908e-39	1.00000	3.76908e-39	1.00000
PAH8+H	7.69263e-41	1.00000	7.69263e-41	1.00000
rad73	1.74555e-41	1.00000	1.74555e-41	1.00000
rad71	2.89932e-45	1.00000	2.89932e-45	1.00000

1000000.00 Pa, 130.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.81236e-15 (1.00)	3.81236e-15 (1.00)
Formation of rad19	3.81236e-15 (1.000)	3.81236e-15 (1.000)
H-abstraction to cyc2enyl	1.44825e-21 (3.80e-07)	1.44825e-21 (3.80e-07)
H-abstraction to cyclenyl	2.94348e-27 (7.72e-13)	2.94348e-27 (7.72e-13)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.826984	0.826984	0.826984	0.826984
rad19anti	0.172188	0.999172	0.172188	0.999172
rad15	0.000811511	0.999983	0.000811511	0.999983
Indene+H	1.52183e-05	0.999998	1.52183e-05	0.999998
rad12	1.07300e-06	0.999999	1.07300e-06	0.999999
Benzene+cycloprop-2-enylidene	3.79882e-07	1.000000	3.79882e-07	1.000000
PhCHCCH2+H	9.79397e-09	1.000000	9.79397e-09	1.000000
rad11	4.89596e-10	1.000000	4.89596e-10	1.000000
rad2	3.74123e-10	1.000000	3.74123e-10	1.000000
rad7	1.25729e-10	1.000000	1.25729e-10	1.000000
rad18	1.20508e-10	1.000000	1.20508e-10	1.000000
rad26	5.26144e-11	1.000000	5.26144e-11	1.000000
rad1	3.52361e-11	1.000000	3.52361e-11	1.000000
rad21	1.23653e-11	1.000000	1.23653e-11	1.000000
rad6	1.22607e-11	1.000000	1.22607e-11	1.000000
rad20	1.05135e-11	1.000000	1.05135e-11	1.000000
rad22	7.30597e-12	1.000000	7.30597e-12	1.000000
rad67	1.79083e-12	1.000000	1.79083e-12	1.000000
rad45	1.66069e-12	1.000000	1.66069e-12	1.000000
rad35	8.13093e-13	1.000000	8.13093e-13	1.000000
PhcycC3H3_A+H	7.98817e-13	1.000000	7.98817e-13	1.000000
Benzene+cycloprop-1-enylidene	7.72089e-13	1.000000	7.72089e-13	1.000000
rad8	5.12553e-13	1.000000	5.12553e-13	1.000000
C2H2+PhCH2	4.83707e-13	1.000000	4.83707e-13	1.000000
rad5	2.74410e-13	1.000000	2.74410e-13	1.000000
rad10	1.97333e-13	1.000000	1.97333e-13	1.000000
rad36	1.24415e-13	1.000000	1.24415e-13	1.000000
rad3	5.25389e-14	1.000000	5.25389e-14	1.000000
rad4	3.05266e-14	1.000000	3.05266e-14	1.000000
rad23	2.11261e-14	1.000000	2.11261e-14	1.000000
PhCCH3+H	1.47632e-14	1.000000	1.47632e-14	1.000000
Phenyl+cycC3H4	1.17201e-14	1.000000	0.000000	1.000000
Ph+MeAc	9.34797e-15	1.000000	9.34797e-15	1.000000
rad25	4.92617e-15	1.000000	4.92617e-15	1.000000
Ph+Allene	3.95540e-15	1.000000	3.95540e-15	1.000000
rad24	3.64974e-15	1.000000	3.64974e-15	1.000000
rad27	2.19658e-15	1.000000	2.19658e-15	1.000000
rad30	1.47638e-15	1.000000	1.47638e-15	1.000000
PhCCH+CH3	7.90508e-16	1.000000	7.90508e-16	1.000000
PhCH2CCH+H	6.44010e-16	1.000000	6.44010e-16	1.000000
rad13	4.93105e-16	1.000000	4.93105e-16	1.000000
PhcycC3H3_B+H	3.60049e-16	1.000000	3.60049e-16	1.000000
rad37	6.05498e-18	1.000000	6.05498e-18	1.000000
rad60syn	4.49201e-18	1.000000	4.49201e-18	1.000000
rad33	3.81735e-18	1.000000	3.81735e-18	1.000000
rad28	2.41549e-18	1.000000	2.41549e-18	1.000000
rad60anti	2.14251e-18	1.000000	2.14251e-18	1.000000
rad14	1.85809e-18	1.000000	1.85809e-18	1.000000
PAH3+H	1.41438e-18	1.000000	1.41438e-18	1.000000
rad59	2.99743e-19	1.000000	2.99743e-19	1.000000
PAH7+H	2.37790e-19	1.000000	2.37790e-19	1.000000
rad38	3.33684e-20	1.000000	3.33684e-20	1.000000
rad31	2.08119e-20	1.000000	2.08119e-20	1.000000
PAH10+CH3	6.26766e-21	1.000000	6.26766e-21	1.000000

rad46	1.07040e-21	1.000000	1.07040e-21	1.000000
PAH9+H	1.38934e-22	1.000000	1.38934e-22	1.000000
rad43	1.19179e-22	1.000000	1.19179e-22	1.000000
rad58	1.54592e-23	1.000000	1.54592e-23	1.000000
rad70	8.28673e-24	1.000000	8.28673e-24	1.000000
rad50	5.05973e-24	1.000000	5.05973e-24	1.000000
rad39	9.91811e-25	1.000000	9.91811e-25	1.000000
PAH1+H	4.40972e-25	1.000000	4.40972e-25	1.000000
rad34	1.04978e-25	1.000000	1.04978e-25	1.000000
rad54	6.24808e-26	1.000000	6.24808e-26	1.000000
rad62	4.29095e-26	1.000000	4.29095e-26	1.000000
rad52	2.91337e-26	1.000000	2.91337e-26	1.000000
rad51	7.26069e-27	1.000000	7.26069e-27	1.000000
rad41	4.01377e-27	1.000000	4.01377e-27	1.000000
rad55	4.53474e-28	1.000000	4.53474e-28	1.000000
rad47	1.94492e-28	1.000000	1.94492e-28	1.000000
rad42	6.17900e-30	1.000000	6.17900e-30	1.000000
rad19syn	5.97957e-30	1.000000	5.97957e-30	1.000000
rad65	3.77303e-31	1.000000	3.77303e-31	1.000000
rad61	4.56303e-32	1.000000	4.56303e-32	1.000000
rad53	3.56711e-33	1.000000	3.56711e-33	1.000000
rad68syn	2.58941e-34	1.000000	2.58941e-34	1.000000
rad68anti	2.05647e-34	1.000000	2.05647e-34	1.000000
rad64	8.21890e-37	1.000000	8.21890e-37	1.000000
rad56	5.02135e-37	1.000000	5.02135e-37	1.000000
rad40syn	7.48718e-38	1.000000	7.48718e-38	1.000000
rad40anti	5.77021e-38	1.000000	5.77021e-38	1.000000
PAH8+H	1.69713e-39	1.000000	1.69713e-39	1.000000
rad73	2.45342e-40	1.000000	2.45342e-40	1.000000
rad71	7.41275e-44	1.000000	7.41275e-44	1.000000

1000000.00 Pa, 140.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.99515e-15 (1.00)	4.99515e-15 (1.00)
Formation of rad19	4.99514e-15 (1.000)	4.99514e-15 (1.000)
H-abstraction to cyc2enyl	5.62488e-21 (1.13e-06)	5.62488e-21 (1.13e-06)
H-abstraction to cyc1enyl	3.00047e-26 (6.01e-12)	3.00047e-26 (6.01e-12)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.848135	0.848135	0.848135	0.848135
rad19anti	0.150936	0.999071	0.150936	0.999071
rad15	0.000907504	0.999978	0.000907504	0.999978
Indene+H	1.88688e-05	0.999997	1.88688e-05	0.999997
Benzene+cycloprop-2-enylidene	1.12607e-06	0.999998	1.12607e-06	0.999998
rad12	1.01790e-06	0.999999	1.01790e-06	0.999999
PhCHCCH2+H	1.17788e-08	0.999999	1.17788e-08	0.999999
rad11	5.90198e-10	0.999999	5.90198e-10	0.999999
rad2	4.52976e-10	0.999999	4.52976e-10	0.999999
rad18	1.52992e-10	0.999999	1.52992e-10	0.999999
rad7	1.35072e-10	0.999999	1.35072e-10	0.999999
rad26	6.40385e-11	0.999999	6.40385e-11	0.999999
rad1	4.23212e-11	0.999999	4.23212e-11	0.999999
rad6	1.56152e-11	0.999999	1.56152e-11	0.999999
rad21	1.45609e-11	0.999999	1.45609e-11	0.999999
rad20	1.31534e-11	0.999999	1.31534e-11	0.999999
rad22	9.63322e-12	0.999999	9.63322e-12	0.999999
Benzene+cycloprop-1-enylidene	6.00677e-12	0.999999	6.00677e-12	0.999999
rad67	2.39304e-12	0.999999	2.39304e-12	0.999999
rad45	2.18135e-12	0.999999	2.18135e-12	0.999999
PhcycC3H3_A+H	1.11661e-12	0.999999	1.11661e-12	0.999999
rad35	1.08325e-12	0.999999	1.08325e-12	0.999999
C2H2+PhCH2	6.98549e-13	0.999999	6.98549e-13	0.999999
rad5	3.09213e-13	0.999999	3.09213e-13	0.999999
rad10	2.67154e-13	0.999999	2.67154e-13	0.999999
rad8	1.89228e-13	0.999999	1.89228e-13	0.999999
rad36	1.62123e-13	0.999999	1.62123e-13	0.999999
rad3	7.15203e-14	0.999999	7.15203e-14	0.999999
rad4	4.14374e-14	0.999999	4.14374e-14	0.999999
rad23	3.08886e-14	0.999999	3.08886e-14	0.999999
PhCCCH3+H	2.06070e-14	0.999999	2.06070e-14	0.999999
Phenyl+cycC3H4	1.74858e-14	0.999999	0.00000	0.999999
Ph+MeAc	1.32335e-14	0.999999	1.32335e-14	0.999999
rad25	6.63431e-15	0.999999	6.63431e-15	0.999999
Ph+Allene	5.57727e-15	0.999999	5.57727e-15	0.999999
rad24	4.00385e-15	0.999999	4.00385e-15	0.999999
rad27	2.96237e-15	0.999999	2.96237e-15	0.999999
rad30	2.15319e-15	0.999999	2.15319e-15	0.999999

PhCCH+CH3	1.04929e-15	0.999999	1.04929e-15	0.999999
PhCH2CCH+H	9.26296e-16	0.999999	9.26296e-16	0.999999
PhcycC3H3_B+H	8.40358e-16	0.999999	8.40358e-16	0.999999
rad13	6.63276e-16	0.999999	6.63276e-16	0.999999
rad37	8.72882e-18	0.999999	8.72882e-18	0.999999
rad60syn	6.75908e-18	0.999999	6.75908e-18	0.999999
rad33	4.85871e-18	0.999999	4.85871e-18	0.999999
rad28	3.49665e-18	0.999999	3.49665e-18	0.999999
rad60anti	3.23286e-18	0.999999	3.23286e-18	0.999999
rad14	2.88534e-18	0.999999	2.88534e-18	0.999999
PAH3+H	2.21190e-18	0.999999	2.21190e-18	0.999999
rad59	4.66190e-19	0.999999	4.66190e-19	0.999999
PAH7+H	3.73984e-19	0.999999	3.73984e-19	0.999999
rad38	5.12349e-20	0.999999	5.12349e-20	0.999999
rad31	2.48300e-20	0.999999	2.48300e-20	0.999999
PAH10+CH3	1.00260e-20	0.999999	1.00260e-20	0.999999
rad46	1.68762e-21	0.999999	1.68762e-21	0.999999
PAH9+H	2.41225e-22	0.999999	2.41225e-22	0.999999
rad43	2.09959e-22	0.999999	2.09959e-22	0.999999
rad58	2.79056e-23	0.999999	2.79056e-23	0.999999
rad70	1.53489e-23	0.999999	1.53489e-23	0.999999
rad50	8.50640e-24	0.999999	8.50640e-24	0.999999
rad39	1.72395e-24	0.999999	1.72395e-24	0.999999
PAH1+H	8.17278e-25	0.999999	8.17278e-25	0.999999
rad34	2.13795e-25	0.999999	2.13795e-25	0.999999
rad54	1.09724e-25	0.999999	1.09724e-25	0.999999
rad62	9.12180e-26	0.999999	9.12180e-26	0.999999
rad52	5.14803e-26	0.999999	5.14803e-26	0.999999
rad51	1.35769e-26	0.999999	1.35769e-26	0.999999
rad41	9.20731e-27	0.999999	9.20731e-27	0.999999
rad55	8.54102e-28	0.999999	8.54102e-28	0.999999
rad47	3.65413e-28	0.999999	3.65413e-28	0.999999
rad42	1.68061e-29	0.999999	1.68061e-29	0.999999
rad19syn	1.08912e-29	0.999999	1.08912e-29	0.999999
rad65	8.28139e-31	0.999999	8.28139e-31	0.999999
rad61	2.46591e-31	0.999999	2.46591e-31	0.999999
rad53	1.22171e-32	0.999999	1.22171e-32	0.999999
rad68syn	1.95837e-33	0.999999	1.95837e-33	0.999999
rad68anti	1.54637e-33	0.999999	1.54637e-33	0.999999
rad56	3.84558e-36	0.999999	3.84558e-36	0.999999
rad64	3.55063e-36	0.999999	3.55063e-36	0.999999
rad40syn	1.01782e-36	0.999999	1.01782e-36	0.999999
rad40anti	7.82576e-37	0.999999	7.82576e-37	0.999999
PAH8+H	3.34004e-38	0.999999	3.34004e-38	0.999999
rad73	3.08143e-39	0.999999	3.08143e-39	0.999999
rad71	1.69355e-42	0.999999	1.69355e-42	0.999999

1000000.00 Pa, 150.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.34137e-15 (1.00)	6.34137e-15 (1.00)
Formation of rad19	6.34135e-15 (1.000)	6.34135e-15 (1.000)
H-abstraction to cyc2enyl	1.81685e-20 (2.87e-06)	1.81685e-20 (2.87e-06)
H-abstraction to cyc1enyl	2.23765e-25 (3.53e-11)	2.23765e-25 (3.53e-11)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.866550	0.866550	0.866550	0.866550
rad19anti	0.132418	0.998967	0.132418	0.998967
rad15	0.00100569	0.999973	0.00100569	0.999973
Indene+H	2.30943e-05	0.999996	2.30943e-05	0.999996
Benzene+cycloprop-2-enylidene	2.86508e-06	0.999999	2.86508e-06	0.999999
rad12	9.68848e-07	1.000000	9.68848e-07	1.000000
PhCHCCH2+H	1.40810e-08	1.000000	1.40810e-08	1.000000
rad11	7.07262e-10	1.000000	7.07262e-10	1.000000
rad2	5.45276e-10	1.000000	5.45276e-10	1.000000
rad18	1.91963e-10	1.000000	1.91963e-10	1.000000
rad7	1.45637e-10	1.000000	1.45637e-10	1.000000
rad26	7.74188e-11	1.000000	7.74188e-11	1.000000
rad1	5.06048e-11	1.000000	5.06048e-11	1.000000
Benzene+cycloprop-1-enylidene	3.52865e-11	1.000000	3.52865e-11	1.000000
rad6	1.98450e-11	1.000000	1.98450e-11	1.000000
rad21	1.71032e-11	1.000000	1.71032e-11	1.000000
rad20	1.63056e-11	1.000000	1.63056e-11	1.000000
rad22	1.26010e-11	1.000000	1.26010e-11	1.000000
rad67	3.17028e-12	1.000000	3.17028e-12	1.000000
rad45	2.84336e-12	1.000000	2.84336e-12	1.000000
PhcycC3H3_A+H	1.56644e-12	1.000000	1.56644e-12	1.000000
rad35	1.43051e-12	1.000000	1.43051e-12	1.000000

C2H2+PhCH2	9.98053e-13	1.000000	9.98053e-13	1.000000
rad10	3.58931e-13	1.000000	3.58931e-13	1.000000
rad5	3.50834e-13	1.000000	3.50834e-13	1.000000
rad36	2.09882e-13	1.000000	2.09882e-13	1.000000
rad3	9.66363e-14	1.000000	9.66363e-14	1.000000
rad8	7.43634e-14	1.000000	7.43634e-14	1.000000
rad4	5.58524e-14	1.000000	5.58524e-14	1.000000
rad23	4.46688e-14	1.000000	4.46688e-14	1.000000
PhCCCH3+H	2.86216e-14	1.000000	2.86216e-14	1.000000
Phenyl+cycC3H4	2.59757e-14	1.000000	0.000000	1.000000
Ph+MeAc	1.86667e-14	1.000000	1.86667e-14	1.000000
rad25	8.86166e-15	1.000000	8.86166e-15	1.000000
Ph+Allene	7.83008e-15	1.000000	7.83008e-15	1.000000
rad24	4.40474e-15	1.000000	4.40474e-15	1.000000
rad27	3.96297e-15	1.000000	3.96297e-15	1.000000
rad30	3.10326e-15	1.000000	3.10326e-15	1.000000
PhcycC3H3_B+H	1.85970e-15	1.000000	1.85970e-15	1.000000
PhCCH+CH3	1.40963e-15	1.000000	1.40963e-15	1.000000
PhCH2CCH+H	1.32874e-15	1.000000	1.32874e-15	1.000000
rad13	8.87669e-16	1.000000	8.87669e-16	1.000000
rad37	1.25220e-17	1.000000	1.25220e-17	1.000000
rad60syn	1.00758e-17	1.000000	1.00758e-17	1.000000
rad33	6.16456e-18	1.000000	6.16456e-18	1.000000
rad28	5.04136e-18	1.000000	5.04136e-18	1.000000
rad60anti	4.83385e-18	1.000000	4.83385e-18	1.000000
rad14	4.44952e-18	1.000000	4.44952e-18	1.000000
PAH3+H	3.43804e-18	1.000000	3.43804e-18	1.000000
rad59	7.20273e-19	1.000000	7.20273e-19	1.000000
PAH7+H	5.86749e-19	1.000000	5.86749e-19	1.000000
rad38	7.83302e-20	1.000000	7.83302e-20	1.000000
rad31	2.96728e-20	1.000000	2.96728e-20	1.000000
PAH10+CH3	1.60879e-20	1.000000	1.60879e-20	1.000000
rad46	2.64572e-21	1.000000	2.64572e-21	1.000000
PAH9+H	4.15920e-22	1.000000	4.15920e-22	1.000000
rad43	3.71125e-22	1.000000	3.71125e-22	1.000000
rad58	5.05348e-23	1.000000	5.05348e-23	1.000000
rad70	2.86103e-23	1.000000	2.86103e-23	1.000000
rad50	1.42959e-23	1.000000	1.42959e-23	1.000000
rad39	3.00418e-24	1.000000	3.00418e-24	1.000000
PAH1+H	1.52893e-24	1.000000	1.52893e-24	1.000000
rad34	4.39431e-25	1.000000	4.39431e-25	1.000000
rad62	1.95854e-25	1.000000	1.95854e-25	1.000000
rad54	1.95129e-25	1.000000	1.95129e-25	1.000000
rad52	9.12609e-26	1.000000	9.12609e-26	1.000000
rad51	2.55680e-26	1.000000	2.55680e-26	1.000000
rad41	2.12870e-26	1.000000	2.12870e-26	1.000000
rad55	1.63628e-27	1.000000	1.63628e-27	1.000000
rad47	6.78040e-28	1.000000	6.78040e-28	1.000000
rad42	4.63126e-29	1.000000	4.63126e-29	1.000000
rad19syn	2.14579e-29	1.000000	2.14579e-29	1.000000
rad65	1.84086e-30	1.000000	1.84086e-30	1.000000
rad61	1.21455e-30	1.000000	1.21455e-30	1.000000
rad53	4.08318e-32	1.000000	4.08318e-32	1.000000
rad68syn	1.31728e-32	1.000000	1.31728e-32	1.000000
rad68anti	1.03329e-32	1.000000	1.03329e-32	1.000000
rad56	2.60696e-35	1.000000	2.60696e-35	1.000000
rad64	1.49082e-35	1.000000	1.49082e-35	1.000000
rad40syn	1.19148e-35	1.000000	1.19148e-35	1.000000
rad40anti	9.13403e-36	1.000000	9.13403e-36	1.000000
PAH8+H	5.59157e-37	1.000000	5.59157e-37	1.000000
rad73	3.38114e-38	1.000000	3.38114e-38	1.000000
rad71	3.29021e-41	1.000000	3.29021e-41	1.000000

1000000.00 Pa, 160.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.84423e-15 (1.00)	7.84423e-15 (1.00)
Formation of rad19	7.84418e-15 (1.000)	7.84418e-15 (1.000)
H-abstraction to cyc2enyl	5.05321e-20 (6.44e-06)	5.05321e-20 (6.44e-06)
H-abstraction to cyc1enyl	1.29479e-24 (1.65e-10)	1.29479e-24 (1.65e-10)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.882596	0.882596	0.882596	0.882596
rad19anti	0.116262	0.998859	0.116262	0.998859
rad15	0.00110601	0.999965	0.00110601	0.999965
Indene+H	2.79689e-05	0.999993	2.79689e-05	0.999993
Benzene+cycloprop-2-enylidene	6.44194e-06	0.999999	6.44194e-06	0.999999
rad12	9.24901e-07	1.000000	9.24901e-07	1.000000

PhCHCCH2+H	1.67622e-08	1.000000	1.67622e-08	1.000000
rad11	8.44022e-10	1.000000	8.44022e-10	1.000000
rad2	6.53767e-10	1.000000	6.53767e-10	1.000000
rad18	2.38619e-10	1.000000	2.38619e-10	1.000000
Benzene+cycloprop-1-enylidene	1.65062e-10	1.000000	1.65062e-10	1.000000
rad7	1.57636e-10	1.000000	1.57636e-10	1.000000
rad26	9.31487e-11	1.000000	9.31487e-11	1.000000
rad1	6.03424e-11	1.000000	6.03424e-11	1.000000
rad6	2.52036e-11	1.000000	2.52036e-11	1.000000
rad20	2.00744e-11	1.000000	2.00744e-11	1.000000
rad21	2.00688e-11	1.000000	2.00688e-11	1.000000
rad22	1.63940e-11	1.000000	1.63940e-11	1.000000
rad67	4.17521e-12	1.000000	4.17521e-12	1.000000
rad45	3.68780e-12	1.000000	3.68780e-12	1.000000
PhcycC3H3_A+H	2.20633e-12	1.000000	2.20633e-12	1.000000
rad35	1.87756e-12	1.000000	1.87756e-12	1.000000
C2H2+PhCH2	1.41565e-12	1.000000	1.41565e-12	1.000000
rad10	4.79959e-13	1.000000	4.79959e-13	1.000000
rad5	4.01208e-13	1.000000	4.01208e-13	1.000000
rad36	2.70627e-13	1.000000	2.70627e-13	1.000000
rad3	1.29981e-13	1.000000	1.29981e-13	1.000000
rad4	7.49683e-14	1.000000	7.49683e-14	1.000000
rad23	6.41312e-14	1.000000	6.41312e-14	1.000000
PhCCCH3+H	3.96790e-14	1.000000	3.96790e-14	1.000000
Phenyl+cycC3H4	3.84866e-14	1.000000	0.000000	1.000000
rad8	3.09246e-14	1.000000	3.09246e-14	1.000000
Ph+MeAc	2.63185e-14	1.000000	2.63185e-14	1.000000
rad25	1.17714e-14	1.000000	1.17714e-14	1.000000
Ph+Allene	1.09793e-14	1.000000	1.09793e-14	1.000000
rad27	5.27294e-15	1.000000	5.27294e-15	1.000000
rad24	4.86351e-15	1.000000	4.86351e-15	1.000000
rad30	4.43594e-15	1.000000	4.43594e-15	1.000000
PhcycC3H3_B+H	3.93600e-15	1.000000	3.93600e-15	1.000000
PhCCH+CH3	1.92175e-15	1.000000	1.92175e-15	1.000000
PhCH2CCH+H	1.90701e-15	1.000000	1.90701e-15	1.000000
rad13	1.18441e-15	1.000000	1.18441e-15	1.000000
rad37	1.79376e-17	1.000000	1.79376e-17	1.000000
rad60syn	1.49372e-17	1.000000	1.49372e-17	1.000000
rad33	7.81018e-18	1.000000	7.81018e-18	1.000000
rad28	7.26464e-18	1.000000	7.26464e-18	1.000000
rad60anti	7.18957e-18	1.000000	7.18957e-18	1.000000
rad14	6.84179e-18	1.000000	6.84179e-18	1.000000
PAH3+H	5.33254e-18	1.000000	5.33254e-18	1.000000
rad59	1.10985e-18	1.000000	1.10985e-18	1.000000
PAH7+H	9.21852e-19	1.000000	9.21852e-19	1.000000
rad38	1.19715e-19	1.000000	1.19715e-19	1.000000
rad31	3.55666e-20	1.000000	3.55666e-20	1.000000
PAH10+CH3	2.59897e-20	1.000000	2.59897e-20	1.000000
rad46	4.14266e-21	1.000000	4.14266e-21	1.000000
PAH9+H	7.16056e-22	1.000000	7.16056e-22	1.000000
rad43	6.60854e-22	1.000000	6.60854e-22	1.000000
rad58	9.21232e-23	1.000000	9.21232e-23	1.000000
rad70	5.38565e-23	1.000000	5.38565e-23	1.000000
rad50	2.41304e-23	1.000000	2.41304e-23	1.000000
rad39	5.27565e-24	1.000000	5.27565e-24	1.000000
PAH1+H	2.89436e-24	1.000000	2.89436e-24	1.000000
rad34	9.13648e-25	1.000000	9.13648e-25	1.000000
rad62	4.26734e-25	1.000000	4.26734e-25	1.000000
rad54	3.52564e-25	1.000000	3.52564e-25	1.000000
rad52	1.63070e-25	1.000000	1.63070e-25	1.000000
rad41	4.96627e-26	1.000000	4.96627e-26	1.000000
rad51	4.87070e-26	1.000000	4.87070e-26	1.000000
rad55	3.19623e-27	1.000000	3.19623e-27	1.000000
rad47	1.24416e-27	1.000000	1.24416e-27	1.000000
rad42	1.29467e-28	1.000000	1.29467e-28	1.000000
rad19syn	4.55295e-29	1.000000	4.55295e-29	1.000000
rad61	5.48903e-30	1.000000	5.48903e-30	1.000000
rad65	4.16336e-30	1.000000	4.16336e-30	1.000000
rad53	1.33752e-31	1.000000	1.33752e-31	1.000000
rad68syn	7.91942e-32	1.000000	7.91942e-32	1.000000
rad68anti	6.16642e-32	1.000000	6.16642e-32	1.000000
rad56	1.58196e-34	1.000000	1.58196e-34	1.000000
rad40syn	1.19430e-34	1.000000	1.19430e-34	1.000000
rad40anti	9.12509e-35	1.000000	9.12509e-35	1.000000
rad64	6.10030e-35	1.000000	6.10030e-35	1.000000
PAH8+H	7.82173e-36	1.000000	7.82173e-36	1.000000
rad73	3.23026e-37	1.000000	3.23026e-37	1.000000
rad71	5.32115e-40	1.000000	5.32115e-40	1.000000

1000000.00 Pa, 170.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	9.49598e-15 (1.00)	9.49598e-15 (1.00)
Formation of rad19	9.49586e-15 (1.000)	9.49586e-15 (1.000)
H-abstraction to cyc2enyl	1.24279e-19 (1.31e-05)	1.24279e-19 (1.31e-05)
H-abstraction to cyclenyl	6.08025e-24 (6.40e-10)	6.08025e-24 (6.40e-10)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.896585	0.896585	0.896585	0.896585
rad19anti	0.102159	0.998744	0.102159	0.998744
rad15	0.00120848	0.999952	0.00120848	0.999952
Indene+H	3.35802e-05	0.999986	3.35802e-05	0.999986
Benzene+cycloprop-2-enylidene	1.30875e-05	0.999999	1.30875e-05	0.999999
rad12	8.85311e-07	1.000000	8.85311e-07	1.000000
PhCHCCH2+H	1.98989e-08	1.000000	1.98989e-08	1.000000
rad11	1.00450e-09	1.000000	1.00450e-09	1.000000
rad2	7.81884e-10	1.000000	7.81884e-10	1.000000
Benzene+cycloprop-1-enylidene	6.40297e-10	1.000000	6.40297e-10	1.000000
rad18	2.94408e-10	1.000000	2.94408e-10	1.000000
rad7	1.71317e-10	1.000000	1.71317e-10	1.000000
rad26	1.11722e-10	1.000000	1.11722e-10	1.000000
rad1	7.18560e-11	1.000000	7.18560e-11	1.000000
rad6	3.20285e-11	1.000000	3.20285e-11	1.000000
rad20	2.45896e-11	1.000000	2.45896e-11	1.000000
rad21	2.35527e-11	1.000000	2.35527e-11	1.000000
rad22	2.12582e-11	1.000000	2.12582e-11	1.000000
rad67	5.47845e-12	1.000000	5.47845e-12	1.000000
rad45	4.76950e-12	1.000000	4.76950e-12	1.000000
PhcycC3H3_A+H	3.12029e-12	1.000000	3.12029e-12	1.000000
rad35	2.45474e-12	1.000000	2.45474e-12	1.000000
C2H2+PhCH2	1.99899e-12	1.000000	1.99899e-12	1.000000
rad10	6.40302e-13	1.000000	6.40302e-13	1.000000
rad5	4.62882e-13	1.000000	4.62882e-13	1.000000
rad36	3.48286e-13	1.000000	3.48286e-13	1.000000
rad3	1.74459e-13	1.000000	1.74459e-13	1.000000
rad4	1.00447e-13	1.000000	1.00447e-13	1.000000
rad23	9.16912e-14	1.000000	9.16912e-14	1.000000
Phenyl+cycC3H4	5.69302e-14	1.000000	0.000000	1.000000
PhCCH3+H	5.50467e-14	1.000000	5.50467e-14	1.000000
Ph+MeAc	3.71871e-14	1.000000	3.71871e-14	1.000000
rad25	1.55836e-14	1.000000	1.55836e-14	1.000000
Ph+Allene	1.54159e-14	1.000000	1.54159e-14	1.000000
rad8	1.35414e-14	1.000000	1.35414e-14	1.000000
PhcycC3H3_B+H	8.02360e-15	1.000000	8.02360e-15	1.000000
rad27	6.99298e-15	1.000000	6.99298e-15	1.000000
rad30	6.30759e-15	1.000000	6.30759e-15	1.000000
rad24	5.39320e-15	1.000000	5.39320e-15	1.000000
PhCH2CCH+H	2.74564e-15	1.000000	2.74564e-15	1.000000
PhCCH+CH3	2.66490e-15	1.000000	2.66490e-15	1.000000
rad13	1.57832e-15	1.000000	1.57832e-15	1.000000
rad37	2.57316e-17	1.000000	2.57316e-17	1.000000
rad60syn	2.20902e-17	1.000000	2.20902e-17	1.000000
rad60anti	1.06700e-17	1.000000	1.06700e-17	1.000000
rad14	1.05243e-17	1.000000	1.05243e-17	1.000000
rad28	1.04933e-17	1.000000	1.04933e-17	1.000000
rad33	9.89529e-18	1.000000	9.89529e-18	1.000000
PAH3+H	8.27968e-18	1.000000	8.27968e-18	1.000000
rad59	1.71093e-18	1.000000	1.71093e-18	1.000000
PAH7+H	1.45479e-18	1.000000	1.45479e-18	1.000000
rad38	1.83498e-19	1.000000	1.83498e-19	1.000000
rad31	4.28114e-20	1.000000	4.28114e-20	1.000000
PAH10+CH3	4.23871e-20	1.000000	4.23871e-20	1.000000
rad46	6.50204e-21	1.000000	6.50204e-21	1.000000
PAH9+H	1.23645e-21	1.000000	1.23645e-21	1.000000
rad43	1.18884e-21	1.000000	1.18884e-21	1.000000
rad58	1.69423e-22	1.000000	1.69423e-22	1.000000
rad70	1.02599e-22	1.000000	1.02599e-22	1.000000
rad50	4.10602e-23	1.000000	4.10602e-23	1.000000
rad39	9.37416e-24	1.000000	9.37416e-24	1.000000
PAH1+H	5.55183e-24	1.000000	5.55183e-24	1.000000
rad34	1.92319e-24	1.000000	1.92319e-24	1.000000
rad62	9.46256e-25	1.000000	9.46256e-25	1.000000
rad54	6.48588e-25	1.000000	6.48588e-25	1.000000
rad52	2.94735e-25	1.000000	2.94735e-25	1.000000
rad41	1.16911e-25	1.000000	1.16911e-25	1.000000
rad51	9.41420e-26	1.000000	9.41420e-26	1.000000
rad55	6.37255e-27	1.000000	6.37255e-27	1.000000
rad47	2.25894e-27	1.000000	2.25894e-27	1.000000

rad42	3.66996e-28	1.000000	3.66996e-28	1.000000
rad19syn	1.03690e-28	1.000000	1.03690e-28	1.000000
rad61	2.29778e-29	1.000000	2.29778e-29	1.000000
rad65	9.60539e-30	1.000000	9.60539e-30	1.000000
rad53	4.30769e-31	1.000000	4.30769e-31	1.000000
rad68syn	4.30024e-31	1.000000	4.30024e-31	1.000000
rad68anti	3.32181e-31	1.000000	3.32181e-31	1.000000
rad40syn	1.03210e-33	1.000000	1.03210e-33	1.000000
rad56	8.71724e-34	1.000000	8.71724e-34	1.000000
rad40anti	7.85865e-34	1.000000	7.85865e-34	1.000000
rad64	2.43921e-34	1.000000	2.43921e-34	1.000000
PAH8+H	9.12419e-35	1.000000	9.12419e-35	1.000000
rad73	2.70453e-36	1.000000	2.70453e-36	1.000000
rad71	7.10924e-39	1.000000	7.10924e-39	1.000000

1000000.00 Pa, 180.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.12884e-14 (1.00)	1.12884e-14 (1.00)
Formation of rad19	1.12881e-14 (1.000)	1.12881e-14 (1.000)
H-abstraction to cyc2enyl	2.75916e-19 (2.44e-05)	2.75916e-19 (2.44e-05)
H-abstraction to cyclenyl	2.39955e-23 (2.13e-09)	2.39955e-23 (2.13e-09)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.908777	0.908777	0.908777	0.908777
rad19anti	0.0898445	0.998621	0.0898445	0.998621
rad15	0.00131308	0.999934	0.00131308	0.999934
Indene+H	4.00310e-05	0.999974	4.00310e-05	0.999974
Benzene+cycloprop-2-enylidene	2.44424e-05	0.999999	2.44424e-05	0.999999
rad12	8.49482e-07	1.000000	8.49482e-07	1.000000
PhCHCCH2+H	2.35862e-08	1.000000	2.35862e-08	1.000000
Benzene+cycloprop-1-enylidene	2.12567e-09	1.000000	2.12567e-09	1.000000
rad11	1.19367e-09	1.000000	1.19367e-09	1.000000
rad2	9.33926e-10	1.000000	9.33926e-10	1.000000
rad18	3.61079e-10	1.000000	3.61079e-10	1.000000
rad7	1.86972e-10	1.000000	1.86972e-10	1.000000
rad26	1.33752e-10	1.000000	1.33752e-10	1.000000
rad1	8.55514e-11	1.000000	8.55514e-11	1.000000
rad6	4.07714e-11	1.000000	4.07714e-11	1.000000
rad20	3.00112e-11	1.000000	3.00112e-11	1.000000
rad21	2.76719e-11	1.000000	2.76719e-11	1.000000
rad22	2.75209e-11	1.000000	2.75209e-11	1.000000
rad67	7.17502e-12	1.000000	7.17502e-12	1.000000
rad45	6.16197e-12	1.000000	6.16197e-12	1.000000
PhcycC3H3_A+H	4.42987e-12	1.000000	4.42987e-12	1.000000
rad35	3.20266e-12	1.000000	3.20266e-12	1.000000
C2H2+PhCH2	2.81637e-12	1.000000	2.81637e-12	1.000000
rad10	8.53931e-13	1.000000	8.53931e-13	1.000000
rad5	5.39233e-13	1.000000	5.39233e-13	1.000000
rad36	4.48143e-13	1.000000	4.48143e-13	1.000000
rad3	2.34125e-13	1.000000	2.34125e-13	1.000000
rad4	1.34608e-13	1.000000	1.34608e-13	1.000000
rad23	1.30881e-13	1.000000	1.30881e-13	1.000000
Phenyl+cycC3H4	8.41162e-14	1.000000	0.000000	1.000000
PhCCCH3+H	7.65830e-14	1.000000	7.65830e-14	1.000000
Ph+MeAc	5.27714e-14	1.000000	5.27714e-14	1.000000
Ph+Allene	2.17201e-14	1.000000	2.17201e-14	1.000000
rad25	2.05951e-14	1.000000	2.05951e-14	1.000000
PhcycC3H3_B+H	1.58434e-14	1.000000	1.58434e-14	1.000000
rad27	9.25929e-15	1.000000	9.25929e-15	1.000000
rad30	8.94312e-15	1.000000	8.94312e-15	1.000000
rad8	6.21731e-15	1.000000	6.21731e-15	1.000000
rad24	6.00925e-15	1.000000	6.00925e-15	1.000000
PhCH2CCH+H	3.97403e-15	1.000000	3.97403e-15	1.000000
PhCCH+CH3	3.76592e-15	1.000000	3.76592e-15	1.000000
rad13	2.10345e-15	1.000000	2.10345e-15	1.000000
rad37	3.70493e-17	1.000000	3.70493e-17	1.000000
rad60syn	3.26692e-17	1.000000	3.26692e-17	1.000000
rad14	1.62372e-17	1.000000	1.62372e-17	1.000000
rad60anti	1.58393e-17	1.000000	1.58393e-17	1.000000
rad28	1.52286e-17	1.000000	1.52286e-17	1.000000
PAH3+H	1.29008e-17	1.000000	1.29008e-17	1.000000
rad33	1.25526e-17	1.000000	1.25526e-17	1.000000
rad59	2.64523e-18	1.000000	2.64523e-18	1.000000
PAH7+H	2.31141e-18	1.000000	2.31141e-18	1.000000
rad38	2.82811e-19	1.000000	2.82811e-19	1.000000
PAH10+CH3	6.99241e-20	1.000000	6.99241e-20	1.000000
rad31	5.18093e-20	1.000000	5.18093e-20	1.000000

rad46	1.02591e-20	1.000000	1.02591e-20	1.000000
rad43	2.16444e-21	1.000000	2.16444e-21	1.000000
PAH9+H	2.14911e-21	1.000000	2.14911e-21	1.000000
rad58	3.14681e-22	1.000000	3.14681e-22	1.000000
rad70	1.97983e-22	1.000000	1.97983e-22	1.000000
rad50	7.06292e-23	1.000000	7.06292e-23	1.000000
rad39	1.69046e-23	1.000000	1.69046e-23	1.000000
PAH1+H	1.07943e-23	1.000000	1.07943e-23	1.000000
rad34	4.09718e-24	1.000000	4.09718e-24	1.000000
rad62	2.13816e-24	1.000000	2.13816e-24	1.000000
rad54	1.21614e-24	1.000000	1.21614e-24	1.000000
rad52	5.40150e-25	1.000000	5.40150e-25	1.000000
rad41	2.77468e-25	1.000000	2.77468e-25	1.000000
rad51	1.84941e-25	1.000000	1.84941e-25	1.000000
rad55	1.29670e-26	1.000000	1.29670e-26	1.000000
rad47	4.05918e-27	1.000000	4.05918e-27	1.000000
rad42	1.05327e-27	1.000000	1.05327e-27	1.000000
rad19syn	2.52778e-28	1.000000	2.52778e-28	1.000000
rad61	8.99596e-29	1.000000	8.99596e-29	1.000000
rad65	2.26285e-29	1.000000	2.26285e-29	1.000000
rad68syn	2.13413e-30	1.000000	2.13413e-30	1.000000
rad68anti	1.63495e-30	1.000000	1.63495e-30	1.000000
rad53	1.36708e-30	1.000000	1.36708e-30	1.000000
rad40syn	7.78526e-33	1.000000	7.78526e-33	1.000000
rad40anti	5.90888e-33	1.000000	5.90888e-33	1.000000
rad56	4.42239e-33	1.000000	4.42239e-33	1.000000
rad64	9.55243e-34	1.000000	9.55243e-34	1.000000
PAH8+H	8.97168e-34	1.000000	8.97168e-34	1.000000
rad73	2.00571e-35	1.000000	2.00571e-35	1.000000
rad71	7.92146e-38	1.000000	7.92146e-38	1.000000

1000000.00 Pa, 190.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.32132e-14 (1.00)	1.32132e-14 (1.00)
Formation of rad19	1.32126e-14 (1.000)	1.32126e-14 (1.000)
H-abstraction to cyc2enyl	5.62053e-19 (4.25e-05)	5.62053e-19 (4.25e-05)
H-abstraction to cyc1enyl	8.18073e-23 (6.19e-09)	8.18073e-23 (6.19e-09)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.919393	0.919393	0.919393	0.919393
rad19anti	0.0790965	0.998489	0.0790965	0.998489
rad15	0.00141981	0.999909	0.00141981	0.999909
Indene+H	4.74426e-05	0.999957	4.74426e-05	0.999957
Benzene+cycloprop-2-enylidene	4.25373e-05	0.999999	4.25373e-05	0.999999
rad12	8.16929e-07	1.00000	8.16929e-07	1.00000
PhCHCCH2+H	2.79422e-08	1.00000	2.79422e-08	1.00000
Benzene+cycloprop-1-enylidene	6.19133e-09	1.00000	6.19133e-09	1.00000
rad11	1.41772e-09	1.00000	1.41772e-09	1.00000
rad2	1.11526e-09	1.00000	1.11526e-09	1.00000
rad18	4.40731e-10	1.00000	4.40731e-10	1.00000
rad7	2.04940e-10	1.00000	2.04940e-10	1.00000
rad26	1.60011e-10	1.00000	1.60011e-10	1.00000
rad1	1.01941e-10	1.00000	1.01941e-10	1.00000
rad6	5.20390e-11	1.00000	5.20390e-11	1.00000
rad20	3.65366e-11	1.00000	3.65366e-11	1.00000
rad22	3.56188e-11	1.00000	3.56188e-11	1.00000
rad21	3.25700e-11	1.00000	3.25700e-11	1.00000
rad67	9.39321e-12	1.00000	9.39321e-12	1.00000
rad45	7.96395e-12	1.00000	7.96395e-12	1.00000
PhcycC3H3_A+H	6.31050e-12	1.00000	6.31050e-12	1.00000
rad35	4.17590e-12	1.00000	4.17590e-12	1.00000
C2H2+PhCH2	3.96590e-12	1.00000	3.96590e-12	1.00000
rad10	1.14036e-12	1.00000	1.14036e-12	1.00000
rad5	6.34769e-13	1.00000	6.34769e-13	1.00000
rad36	5.77318e-13	1.00000	5.77318e-13	1.00000
rad3	3.14671e-13	1.00000	3.14671e-13	1.00000
rad23	1.86895e-13	1.00000	1.86895e-13	1.00000
rad4	1.80714e-13	1.00000	1.80714e-13	1.00000
Phenyl+cycC3H4	1.24157e-13	1.00000	0.00000	1.00000
PhCCCH3+H	1.07035e-13	1.00000	1.07035e-13	1.00000
Ph+MeAc	7.53420e-14	1.00000	7.53420e-14	1.00000
Ph+Allene	3.07596e-14	1.00000	3.07596e-14	1.00000
PhcycC3H3_B+H	3.04405e-14	1.00000	3.04405e-14	1.00000
rad25	2.72071e-14	1.00000	2.72071e-14	1.00000
rad30	1.26674e-14	1.00000	1.26674e-14	1.00000
rad27	1.22563e-14	1.00000	1.22563e-14	1.00000
rad24	6.73001e-15	1.00000	6.73001e-15	1.00000

PhCH2CCH+H	5.79207e-15	1.00000	5.79207e-15	1.00000
PhCCH+CH3	5.43091e-15	1.00000	5.43091e-15	1.00000
rad8	2.98235e-15	1.00000	2.98235e-15	1.00000
rad13	2.80675e-15	1.00000	2.80675e-15	1.00000
rad37	5.36414e-17	1.00000	5.36414e-17	1.00000
rad60syn	4.84078e-17	1.00000	4.84078e-17	1.00000
rad14	2.51758e-17	1.00000	2.51758e-17	1.00000
rad60anti	2.35645e-17	1.00000	2.35645e-17	1.00000
rad28	2.22478e-17	1.00000	2.22478e-17	1.00000
PAH3+H	2.02078e-17	1.00000	2.02078e-17	1.00000
rad33	1.59588e-17	1.00000	1.59588e-17	1.00000
rad59	4.10904e-18	1.00000	4.10904e-18	1.00000
PAH7+H	3.70333e-18	1.00000	3.70333e-18	1.00000
rad38	4.39152e-19	1.00000	4.39152e-19	1.00000
PAH10+CH3	1.16811e-19	1.00000	1.16811e-19	1.00000
rad31	6.31023e-20	1.00000	6.31023e-20	1.00000
rad46	1.63098e-20	1.00000	1.63098e-20	1.00000
rad43	3.99146e-21	1.00000	3.99146e-21	1.00000
PAH9+H	3.77041e-21	1.00000	3.77041e-21	1.00000
rad58	5.90400e-22	1.00000	5.90400e-22	1.00000
rad70	3.86970e-22	1.00000	3.86970e-22	1.00000
rad50	1.23057e-22	1.00000	1.23057e-22	1.00000
rad39	3.10020e-23	1.00000	3.10020e-23	1.00000
PAH1+H	2.12661e-23	1.00000	2.12661e-23	1.00000
rad34	8.82426e-24	1.00000	8.82426e-24	1.00000
rad62	4.92304e-24	1.00000	4.92304e-24	1.00000
rad54	2.32466e-24	1.00000	2.32466e-24	1.00000
rad52	1.00520e-24	1.00000	1.00520e-24	1.00000
rad41	6.62985e-25	1.00000	6.62985e-25	1.00000
rad51	3.69535e-25	1.00000	3.69535e-25	1.00000
rad55	2.69030e-26	1.00000	2.69030e-26	1.00000
rad47	7.22018e-27	1.00000	7.22018e-27	1.00000
rad42	3.05397e-27	1.00000	3.05397e-27	1.00000
rad19syn	6.58073e-28	1.00000	6.58073e-28	1.00000
rad61	3.32316e-28	1.00000	3.32316e-28	1.00000
rad65	5.44165e-29	1.00000	5.44165e-29	1.00000
rad68syn	9.78746e-30	1.00000	9.78746e-30	1.00000
rad68anti	7.43611e-30	1.00000	7.43611e-30	1.00000
rad53	4.28151e-30	1.00000	4.28151e-30	1.00000
rad40syn	5.19002e-32	1.00000	5.19002e-32	1.00000
rad40anti	3.92877e-32	1.00000	3.92877e-32	1.00000
rad56	2.08934e-32	1.00000	2.08934e-32	1.00000
PAH8+H	7.52381e-33	1.00000	7.52381e-33	1.00000
rad64	3.66962e-33	1.00000	3.66962e-33	1.00000
rad73	1.33120e-34	1.00000	1.33120e-34	1.00000
rad71	7.44071e-37	1.00000	7.44071e-37	1.00000

1000000.00 Pa, 200.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.52621e-14 (1.00)	1.52621e-14 (1.00)
Formation of rad19	1.52610e-14 (1.000)	1.52610e-14 (1.000)
H-abstraction to cyc2enyl	1.06427e-18 (6.97e-05)	1.06427e-18 (6.97e-05)
H-abstraction to cyc1enyl	2.46309e-22 (1.61e-08)	2.46309e-22 (1.61e-08)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.928622	0.928622	0.928622	0.928622
rad19anti	0.0697224	0.998345	0.0697224	0.998345
rad15	0.00152865	0.999873	0.00152865	0.999873
Benzene+cycloprop-2-enylidene	6.97330e-05	0.999943	6.97330e-05	0.999943
Indene+H	5.59565e-05	0.999999	5.59565e-05	0.999999
rad12	7.87256e-07	1.000000	7.87256e-07	1.000000
PhCHCCH2+H	3.31133e-08	1.000000	3.31133e-08	1.000000
Benzene+cycloprop-1-enylidene	1.61386e-08	1.000000	1.61386e-08	1.000000
rad11	1.68430e-09	1.000000	1.68430e-09	1.000000
rad2	1.33263e-09	1.000000	1.33263e-09	1.000000
rad18	5.35864e-10	1.000000	5.35864e-10	1.000000
rad7	2.25611e-10	1.000000	2.25611e-10	1.000000
rad26	1.91462e-10	1.000000	1.91462e-10	1.000000
rad1	1.21673e-10	1.000000	1.21673e-10	1.000000
rad6	6.66497e-11	1.000000	6.66497e-11	1.000000
rad22	4.61359e-11	1.000000	4.61359e-11	1.000000
rad20	4.44071e-11	1.000000	4.44071e-11	1.000000
rad21	3.84227e-11	1.000000	3.84227e-11	1.000000
rad67	1.23065e-11	1.000000	1.23065e-11	1.000000
rad45	1.03084e-11	1.000000	1.03084e-11	1.000000
PhcycC3H3_A+H	9.01490e-12	1.000000	9.01490e-12	1.000000
C2H2+PhCH2	5.58906e-12	1.000000	5.58906e-12	1.000000

rad35	5.44792e-12	1.000000	5.44792e-12	1.000000
rad10	1.52699e-12	1.000000	1.52699e-12	1.000000
rad5	7.55533e-13	1.000000	7.55533e-13	1.000000
rad36	7.45445e-13	1.000000	7.45445e-13	1.000000
rad3	4.24120e-13	1.000000	4.24120e-13	1.000000
rad23	2.67425e-13	1.000000	2.67425e-13	1.000000
rad4	2.43373e-13	1.000000	2.43373e-13	1.000000
Phenyl+cycC3H4	1.83045e-13	1.000000	0.000000	1.000000
PhCCCH3+H	1.50498e-13	1.000000	1.50498e-13	1.000000
Ph+MeAc	1.08369e-13	1.000000	1.08369e-13	1.000000
PhcycC3H3_B+H	5.71148e-14	1.000000	5.71148e-14	1.000000
Ph+Allene	4.38417e-14	1.000000	4.38417e-14	1.000000
rad25	3.59616e-14	1.000000	3.59616e-14	1.000000
rad30	1.79512e-14	1.000000	1.79512e-14	1.000000
rad27	1.62334e-14	1.000000	1.62334e-14	1.000000
PhCH2CCH+H	8.51101e-15	1.000000	8.51101e-15	1.000000
PhCCH+CH3	7.99948e-15	1.000000	7.99948e-15	1.000000
rad24	7.57725e-15	1.000000	7.57725e-15	1.000000
rad13	3.75310e-15	1.000000	3.75310e-15	1.000000
rad8	1.49004e-15	1.000000	1.49004e-15	1.000000
rad37	7.82052e-17	1.000000	7.82052e-17	1.000000
rad60syn	7.19691e-17	1.000000	7.19691e-17	1.000000
rad14	3.92849e-17	1.000000	3.92849e-17	1.000000
rad60anti	3.51831e-17	1.000000	3.51831e-17	1.000000
rad28	3.27659e-17	1.000000	3.27659e-17	1.000000
PAH3+H	3.18604e-17	1.000000	3.18604e-17	1.000000
rad33	2.03509e-17	1.000000	2.03509e-17	1.000000
rad59	6.42090e-18	1.000000	6.42090e-18	1.000000
PAH7+H	5.98943e-18	1.000000	5.98943e-18	1.000000
rad38	6.88058e-19	1.000000	6.88058e-19	1.000000
PAH10+CH3	1.97712e-19	1.000000	1.97712e-19	1.000000
rad31	7.74293e-20	1.000000	7.74293e-20	1.000000
rad46	2.61692e-20	1.000000	2.61692e-20	1.000000
rad43	7.45623e-21	1.000000	7.45623e-21	1.000000
PAH9+H	6.69035e-21	1.000000	6.69035e-21	1.000000
rad58	1.11837e-21	1.000000	1.11837e-21	1.000000
rad70	7.65495e-22	1.000000	7.65495e-22	1.000000
rad50	2.17431e-22	1.000000	2.17431e-22	1.000000
rad39	5.78920e-23	1.000000	5.78920e-23	1.000000
PAH1+H	4.24215e-23	1.000000	4.24215e-23	1.000000
rad34	1.91827e-23	1.000000	1.91827e-23	1.000000
rad62	1.15381e-23	1.000000	1.15381e-23	1.000000
rad54	4.52754e-24	1.000000	4.52754e-24	1.000000
rad52	1.90077e-24	1.000000	1.90077e-24	1.000000
rad41	1.59235e-24	1.000000	1.59235e-24	1.000000
rad51	7.50939e-25	1.000000	7.50939e-25	1.000000
rad55	5.68250e-26	1.000000	5.68250e-26	1.000000
rad47	1.27162e-26	1.000000	1.27162e-26	1.000000
rad42	8.92314e-27	1.000000	8.92314e-27	1.000000
rad19syn	1.82551e-27	1.000000	1.82551e-27	1.000000
rad61	1.16700e-27	1.000000	1.16700e-27	1.000000
rad65	1.33412e-28	1.000000	1.33412e-28	1.000000
rad68syn	4.18608e-29	1.000000	4.18608e-29	1.000000
rad68anti	3.15489e-29	1.000000	3.15489e-29	1.000000
rad53	1.32444e-29	1.000000	1.32444e-29	1.000000
rad40syn	3.09020e-31	1.000000	3.09020e-31	1.000000
rad40anti	2.33506e-31	1.000000	2.33506e-31	1.000000
rad56	9.27032e-32	1.000000	9.27032e-32	1.000000
PAH8+H	5.44281e-32	1.000000	5.44281e-32	1.000000
rad64	1.38328e-32	1.000000	1.38328e-32	1.000000
rad73	7.97281e-34	1.000000	7.97281e-34	1.000000
rad71	5.95918e-36	1.000000	5.95918e-36	1.000000

1000000.00 Pa, 210.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.74272e-14 (1.00)	1.74272e-14 (1.00)
Formation of rad19	1.74253e-14 (1.000)	1.74253e-14 (1.000)
H-abstraction to cyc2enyl	1.89310e-18 (0.000109)	1.89310e-18 (0.000109)
H-abstraction to cyclenyl	6.66714e-22 (3.83e-08)	6.66714e-22 (3.83e-08)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.936629	0.936629	0.936629	0.936629
rad19anti	0.0615564	0.998186	0.0615564	0.998186
rad15	0.00163957	0.999825	0.00163957	0.999825
Benzene+cycloprop-2-enylidene	0.000108629	0.999934	0.000108629	0.999934
Indene+H	6.57377e-05	1.000000	6.57377e-05	1.000000
rad12	7.60134e-07	1.000000	7.60134e-07	1.000000

PhCCCH2+H	3.92816e-08	1.00000	3.92816e-08	1.00000
Benzene+cycloprop-1-enylidene	3.82571e-08	1.00000	3.82571e-08	1.00000
rad11	2.00288e-09	1.00000	2.00288e-09	1.00000
rad2	1.59442e-09	1.00000	1.59442e-09	1.00000
rad18	6.49430e-10	1.00000	6.49430e-10	1.00000
rad7	2.49438e-10	1.00000	2.49438e-10	1.00000
rad26	2.29306e-10	1.00000	2.29306e-10	1.00000
rad1	1.45566e-10	1.00000	1.45566e-10	1.00000
rad6	8.57115e-11	1.00000	8.57115e-11	1.00000
rad22	5.98531e-11	1.00000	5.98531e-11	1.00000
rad20	5.39167e-11	1.00000	5.39167e-11	1.00000
rad21	4.54443e-11	1.00000	4.54443e-11	1.00000
rad67	1.61505e-11	1.00000	1.61505e-11	1.00000
rad45	1.33748e-11	1.00000	1.33748e-11	1.00000
PhcycC3H3_A+H	1.29062e-11	1.00000	1.29062e-11	1.00000
C2H2+PhCH2	7.89027e-12	1.00000	7.89027e-12	1.00000
rad35	7.11792e-12	1.00000	7.11792e-12	1.00000
rad10	2.05255e-12	1.00000	2.05255e-12	1.00000
rad36	9.65588e-13	1.00000	9.65588e-13	1.00000
rad5	9.09675e-13	1.00000	9.09675e-13	1.00000
rad3	5.73848e-13	1.00000	5.73848e-13	1.00000
rad23	3.83916e-13	1.00000	3.83916e-13	1.00000
rad4	3.29126e-13	1.00000	3.29126e-13	1.00000
Phenyl+cycC3H4	2.69476e-13	1.00000	0.00000	1.00000
PhCCCH3+H	2.13116e-13	1.00000	2.13116e-13	1.00000
Ph+MeAc	1.57201e-13	1.00000	1.57201e-13	1.00000
PhcycC3H3_B+H	1.04953e-13	1.00000	1.04953e-13	1.00000
Ph+Allene	6.29507e-14	1.00000	6.29507e-14	1.00000
rad25	4.75895e-14	1.00000	4.75895e-14	1.00000
rad30	2.54794e-14	1.00000	2.54794e-14	1.00000
rad27	2.15280e-14	1.00000	2.15280e-14	1.00000
PhCH2CCH+H	1.26193e-14	1.00000	1.26193e-14	1.00000
PhCCH+CH3	1.20388e-14	1.00000	1.20388e-14	1.00000
rad24	8.57686e-15	1.00000	8.57686e-15	1.00000
rad13	5.03239e-15	1.00000	5.03239e-15	1.00000
rad8	7.73350e-16	1.00000	7.73350e-16	1.00000
rad37	1.14931e-16	1.00000	1.14931e-16	1.00000
rad60syn	1.07461e-16	1.00000	1.07461e-16	1.00000
rad14	6.17483e-17	1.00000	6.17483e-17	1.00000
rad60anti	5.27696e-17	1.00000	5.27696e-17	1.00000
PAH3+H	5.05949e-17	1.00000	5.05949e-17	1.00000
rad28	4.87017e-17	1.00000	4.87017e-17	1.00000
rad33	2.60465e-17	1.00000	2.60465e-17	1.00000
rad59	1.01006e-17	1.00000	1.01006e-17	1.00000
PAH7+H	9.78263e-18	1.00000	9.78263e-18	1.00000
rad38	1.08884e-18	1.00000	1.08884e-18	1.00000
PAH10+CH3	3.39071e-19	1.00000	3.39071e-19	1.00000
rad31	9.58066e-20	1.00000	9.58066e-20	1.00000
rad46	4.24282e-20	1.00000	4.24282e-20	1.00000
rad43	1.41024e-20	1.00000	1.41024e-20	1.00000
PAH9+H	1.20236e-20	1.00000	1.20236e-20	1.00000
rad58	2.13686e-21	1.00000	2.13686e-21	1.00000
rad70	1.53063e-21	1.00000	1.53063e-21	1.00000
rad50	3.89850e-22	1.00000	3.89850e-22	1.00000
rad39	1.10132e-22	1.00000	1.10132e-22	1.00000
PAH1+H	8.55964e-23	1.00000	8.55964e-23	1.00000
rad34	4.20118e-23	1.00000	4.20118e-23	1.00000
rad62	2.74764e-23	1.00000	2.74764e-23	1.00000
rad54	8.97524e-24	1.00000	8.97524e-24	1.00000
rad41	3.83790e-24	1.00000	3.83790e-24	1.00000
rad52	3.65222e-24	1.00000	3.65222e-24	1.00000
rad51	1.55092e-24	1.00000	1.55092e-24	1.00000
rad55	1.21972e-25	1.00000	1.21972e-25	1.00000
rad42	2.61952e-26	1.00000	2.61952e-26	1.00000
rad47	2.21861e-26	1.00000	2.21861e-26	1.00000
rad19syn	5.38418e-27	1.00000	5.38418e-27	1.00000
rad61	3.91858e-27	1.00000	3.91858e-27	1.00000
rad65	3.32814e-28	1.00000	3.32814e-28	1.00000
rad68syn	1.68085e-28	1.00000	1.68085e-28	1.00000
rad68anti	1.25725e-28	1.00000	1.25725e-28	1.00000
rad53	4.04678e-29	1.00000	4.04678e-29	1.00000
rad40syn	1.65665e-30	1.00000	1.65665e-30	1.00000
rad40anti	1.25081e-30	1.00000	1.25081e-30	1.00000
rad56	3.88239e-31	1.00000	3.88239e-31	1.00000
PAH8+H	3.43171e-31	1.00000	3.43171e-31	1.00000
rad64	5.10848e-32	1.00000	5.10848e-32	1.00000
rad73	4.33410e-33	1.00000	4.33410e-33	1.00000
rad71	4.11518e-35	1.00000	4.11518e-35	1.00000

1000000.00 Pa, 220.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.97009e-14 (1.00)	1.97009e-14 (1.00)
Formation of rad19	1.96977e-14 (1.000)	1.96977e-14 (1.000)
H-abstraction to cyc2enyl	3.19064e-18 (0.000162)	3.19064e-18 (0.000162)
H-abstraction to cyclenyl	1.64627e-21 (8.36e-08)	1.64627e-21 (8.36e-08)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.943554	0.943554	0.943554	0.943554
rad19anti	0.0544539	0.998008	0.0544539	0.998008
rad15	0.00175249	0.999760	0.00175249	0.999760
Benzene+cycloprop-2-enylidene	0.000161954	0.999922	0.000161954	0.999922
Indene+H	7.69777e-05	0.999999	7.69777e-05	0.999999
rad12	7.35293e-07	1.00000	7.35293e-07	1.00000
Benzene+cycloprop-1-enylidene	8.35632e-08	1.00000	8.35632e-08	1.00000
PhCHCCH2+H	4.66736e-08	1.00000	4.66736e-08	1.00000
rad11	2.38516e-09	1.00000	2.38516e-09	1.00000
rad2	1.91117e-09	1.00000	1.91117e-09	1.00000
rad18	7.84894e-10	1.00000	7.84894e-10	1.00000
rad7	2.76941e-10	1.00000	2.76941e-10	1.00000
rad26	2.75053e-10	1.00000	2.75053e-10	1.00000
rad1	1.74666e-10	1.00000	1.74666e-10	1.00000
rad6	1.10730e-10	1.00000	1.10730e-10	1.00000
rad22	7.78157e-11	1.00000	7.78157e-11	1.00000
rad20	6.54213e-11	1.00000	6.54213e-11	1.00000
rad21	5.38946e-11	1.00000	5.38946e-11	1.00000
rad67	2.12453e-11	1.00000	2.12453e-11	1.00000
PhcycC3H3_A+H	1.85047e-11	1.00000	1.85047e-11	1.00000
rad45	1.74059e-11	1.00000	1.74059e-11	1.00000
C2H2+PhCH2	1.11654e-11	1.00000	1.11654e-11	1.00000
rad35	9.32003e-12	1.00000	9.32003e-12	1.00000
rad10	2.77198e-12	1.00000	2.77198e-12	1.00000
rad36	1.25552e-12	1.00000	1.25552e-12	1.00000
rad5	1.10823e-12	1.00000	1.10823e-12	1.00000
rad3	7.80047e-13	1.00000	7.80047e-13	1.00000
rad23	5.53488e-13	1.00000	5.53488e-13	1.00000
rad4	4.47308e-13	1.00000	4.47308e-13	1.00000
Phenyl+cycC3H4	3.95996e-13	1.00000	0.00000	1.00000
PhCCCH3+H	3.04196e-13	1.00000	3.04196e-13	1.00000
Ph+MeAc	2.30154e-13	1.00000	2.30154e-13	1.00000
PhcycC3H3_B+H	1.89323e-13	1.00000	1.89323e-13	1.00000
Ph+Allene	9.11171e-14	1.00000	9.11171e-14	1.00000
rad25	6.30759e-14	1.00000	6.30759e-14	1.00000
rad30	3.62498e-14	1.00000	3.62498e-14	1.00000
rad27	2.85956e-14	1.00000	2.85956e-14	1.00000
PhCH2CCH+H	1.88896e-14	1.00000	1.88896e-14	1.00000
PhCCH+CH3	1.85083e-14	1.00000	1.85083e-14	1.00000
rad24	9.75952e-15	1.00000	9.75952e-15	1.00000
rad13	6.76950e-15	1.00000	6.76950e-15	1.00000
rad8	4.16033e-16	1.00000	4.16033e-16	1.00000
rad37	1.70373e-16	1.00000	1.70373e-16	1.00000
rad60syn	1.61250e-16	1.00000	1.61250e-16	1.00000
rad14	9.78068e-17	1.00000	9.78068e-17	1.00000
PAH3+H	8.09470e-17	1.00000	8.09470e-17	1.00000
rad60anti	7.95527e-17	1.00000	7.95527e-17	1.00000
rad28	7.31117e-17	1.00000	7.31117e-17	1.00000
rad33	3.34735e-17	1.00000	3.34735e-17	1.00000
PAH7+H	1.61364e-17	1.00000	1.61364e-17	1.00000
rad59	1.59999e-17	1.00000	1.59999e-17	1.00000
rad38	1.74142e-18	1.00000	1.74142e-18	1.00000
PAH10+CH3	5.88982e-19	1.00000	5.88982e-19	1.00000
rad31	1.19648e-19	1.00000	1.19648e-19	1.00000
rad46	6.95627e-20	1.00000	6.95627e-20	1.00000
rad43	2.69813e-20	1.00000	2.69813e-20	1.00000
PAH9+H	2.19025e-20	1.00000	2.19025e-20	1.00000
rad58	4.11304e-21	1.00000	4.11304e-21	1.00000
rad70	3.08868e-21	1.00000	3.08868e-21	1.00000
rad50	7.09405e-22	1.00000	7.09405e-22	1.00000
rad39	2.13424e-22	1.00000	2.13424e-22	1.00000
PAH1+H	1.74501e-22	1.00000	1.74501e-22	1.00000
rad34	9.25123e-23	1.00000	9.25123e-23	1.00000
rad62	6.63222e-23	1.00000	6.63222e-23	1.00000
rad54	1.80843e-23	1.00000	1.80843e-23	1.00000
rad41	9.26615e-24	1.00000	9.26615e-24	1.00000
rad52	7.12742e-24	1.00000	7.12742e-24	1.00000
rad51	3.25187e-24	1.00000	3.25187e-24	1.00000
rad55	2.65498e-25	1.00000	2.65498e-25	1.00000
rad42	7.69839e-26	1.00000	7.69839e-26	1.00000

rad47	3.83763e-26	1.00000	3.83763e-26	1.00000
rad19syn	1.68451e-26	1.00000	1.68451e-26	1.00000
rad61	1.26301e-26	1.00000	1.26301e-26	1.00000
rad65	8.42513e-28	1.00000	8.42513e-28	1.00000
rad68syn	6.36193e-28	1.00000	6.36193e-28	1.00000
rad68anti	4.72613e-28	1.00000	4.72613e-28	1.00000
rad53	1.21984e-28	1.00000	1.21984e-28	1.00000
rad40syn	8.04450e-30	1.00000	8.04450e-30	1.00000
rad40anti	6.07510e-30	1.00000	6.07510e-30	1.00000
PAH8+H	1.90371e-30	1.00000	1.90371e-30	1.00000
rad56	1.53751e-30	1.00000	1.53751e-30	1.00000
rad64	1.84095e-31	1.00000	1.84095e-31	1.00000
rad73	2.14703e-32	1.00000	2.14703e-32	1.00000
rad71	2.47723e-34	1.00000	2.47723e-34	1.00000

1000000.00 Pa, 230.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.20761e-14 (1.00)	2.20761e-14 (1.00)
Formation of rad19	2.20710e-14 (1.000)	2.20710e-14 (1.000)
H-abstraction to cyc2enyl	5.13155e-18 (0.000232)	5.13155e-18 (0.000232)
H-abstraction to cyclenyl	3.75316e-21 (1.70e-07)	3.75316e-21 (1.70e-07)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.949521	0.949521	0.949521	0.949521
rad19anti	0.0482887	0.997810	0.0482887	0.997810
rad15	0.00186729	0.999677	0.00186729	0.999677
Benzene+cycloprop-2-enylidene	0.000232448	0.999909	0.000232448	0.999909
Indene+H	8.98986e-05	0.999999	8.98986e-05	0.999999
rad12	7.12503e-07	1.00000	7.12503e-07	1.00000
Benzene+cycloprop-1-enylidene	1.70010e-07	1.00000	1.70010e-07	1.00000
PhCHCCH2+H	5.55716e-08	1.00000	5.55716e-08	1.00000
rad11	2.84567e-09	1.00000	2.84567e-09	1.00000
rad2	2.29613e-09	1.00000	2.29613e-09	1.00000
rad18	9.46266e-10	1.00000	9.46266e-10	1.00000
rad26	3.30593e-10	1.00000	3.30593e-10	1.00000
rad7	3.08715e-10	1.00000	3.08715e-10	1.00000
rad1	2.10298e-10	1.00000	2.10298e-10	1.00000
rad6	1.43760e-10	1.00000	1.43760e-10	1.00000
rad22	1.01422e-10	1.00000	1.01422e-10	1.00000
rad20	7.93491e-11	1.00000	7.93491e-11	1.00000
rad21	6.40873e-11	1.00000	6.40873e-11	1.00000
rad67	2.80268e-11	1.00000	2.80268e-11	1.00000
PhcycC3H3_A+H	2.65543e-11	1.00000	2.65543e-11	1.00000
rad45	2.27302e-11	1.00000	2.27302e-11	1.00000
C2H2+PhCH2	1.58434e-11	1.00000	1.58434e-11	1.00000
rad35	1.22361e-11	1.00000	1.22361e-11	1.00000
rad10	3.76387e-12	1.00000	3.76387e-12	1.00000
rad36	1.63946e-12	1.00000	1.63946e-12	1.00000
rad5	1.36623e-12	1.00000	1.36623e-12	1.00000
rad3	1.06587e-12	1.00000	1.06587e-12	1.00000
rad23	8.01867e-13	1.00000	8.01867e-13	1.00000
rad4	6.11297e-13	1.00000	6.11297e-13	1.00000
Phenyl+cycC3H4	5.80617e-13	1.00000	0.00000	1.00000
PhCCCH3+H	4.37929e-13	1.00000	4.37929e-13	1.00000
Ph+MeAc	3.40261e-13	1.00000	3.40261e-13	1.00000
PhcycC3H3_B+H	3.35900e-13	1.00000	3.35900e-13	1.00000
Ph+Allene	1.33003e-13	1.00000	1.33003e-13	1.00000
rad25	8.37444e-14	1.00000	8.37444e-14	1.00000
rad30	5.17196e-14	1.00000	5.17196e-14	1.00000
rad27	3.80500e-14	1.00000	3.80500e-14	1.00000
PhCCH+CH3	2.90505e-14	1.00000	2.90505e-14	1.00000
PhCH2CCH+H	2.85523e-14	1.00000	2.85523e-14	1.00000
rad24	1.11615e-14	1.00000	1.11615e-14	1.00000
rad13	9.13841e-15	1.00000	9.13841e-15	1.00000
rad37	2.54877e-16	1.00000	2.54877e-16	1.00000
rad60syn	2.43221e-16	1.00000	2.43221e-16	1.00000
rad8	2.31544e-16	1.00000	2.31544e-16	1.00000
rad14	1.56125e-16	1.00000	1.56125e-16	1.00000
PAH3+H	1.30463e-16	1.00000	1.30463e-16	1.00000
rad60anti	1.20576e-16	1.00000	1.20576e-16	1.00000
rad28	1.10909e-16	1.00000	1.10909e-16	1.00000
rad33	4.32106e-17	1.00000	4.32106e-17	1.00000
PAH7+H	2.68710e-17	1.00000	2.68710e-17	1.00000
rad59	2.55205e-17	1.00000	2.55205e-17	1.00000
rad38	2.81558e-18	1.00000	2.81558e-18	1.00000
PAH10+CH3	1.03559e-18	1.00000	1.03559e-18	1.00000
rad31	1.50942e-19	1.00000	1.50942e-19	1.00000

rad46	1.15381e-19	1.00000	1.15381e-19	1.00000
rad43	5.21560e-20	1.00000	5.21560e-20	1.00000
PAH9+H	4.04526e-20	1.00000	4.04526e-20	1.00000
rad58	7.96354e-21	1.00000	7.96354e-21	1.00000
rad70	6.27841e-21	1.00000	6.27841e-21	1.00000
rad50	1.30975e-21	1.00000	1.30975e-21	1.00000
rad39	4.21036e-22	1.00000	4.21036e-22	1.00000
PAH1+H	3.58938e-22	1.00000	3.58938e-22	1.00000
rad34	2.04379e-22	1.00000	2.04379e-22	1.00000
rad62	1.61755e-22	1.00000	1.61755e-22	1.00000
rad54	3.69712e-23	1.00000	3.69712e-23	1.00000
rad41	2.23634e-23	1.00000	2.23634e-23	1.00000
rad52	1.41145e-23	1.00000	1.41145e-23	1.00000
rad51	6.91136e-24	1.00000	6.91136e-24	1.00000
rad55	5.84642e-25	1.00000	5.84642e-25	1.00000
rad42	2.25431e-25	1.00000	2.25431e-25	1.00000
rad47	6.58818e-26	1.00000	6.58818e-26	1.00000
rad19syn	5.57631e-26	1.00000	5.57631e-26	1.00000
rad61	3.91443e-26	1.00000	3.91443e-26	1.00000
rad68syn	2.27368e-27	1.00000	2.27368e-27	1.00000
rad65	2.15618e-27	1.00000	2.15618e-27	1.00000
rad68anti	1.67888e-27	1.00000	1.67888e-27	1.00000
rad53	3.61734e-28	1.00000	3.61734e-28	1.00000
rad40syn	3.55468e-29	1.00000	3.55468e-29	1.00000
rad40anti	2.68755e-29	1.00000	2.68755e-29	1.00000
PAH8+H	9.37323e-30	1.00000	9.37323e-30	1.00000
rad56	5.75408e-30	1.00000	5.75408e-30	1.00000
rad64	6.43467e-31	1.00000	6.43467e-31	1.00000
rad73	9.72134e-32	1.00000	9.72134e-32	1.00000
rad71	1.31352e-33	1.00000	1.31352e-33	1.00000

1000000.00 Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.45462e-14 (1.00)	2.45462e-14 (1.00)
Formation of rad19	2.45383e-14 (1.000)	2.45383e-14 (1.000)
H-abstraction to cyc2enyl	7.92234e-18 (0.000323)	7.92234e-18 (0.000323)
H-abstraction to cyc1enyl	7.97958e-21 (3.25e-07)	7.97958e-21 (3.25e-07)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.954638	0.954638	0.954638	0.954638
rad19anti	0.0429493	0.997588	0.0429493	0.997588
rad15	0.00198380	0.999572	0.00198380	0.999572
Benzene+cycloprop-2-enylidene	0.000322752	0.999894	0.000322752	0.999894
Indene+H	0.000104756	0.999999	0.000104756	0.999999
rad12	6.91574e-07	1.000000	6.91574e-07	1.000000
Benzene+cycloprop-1-enylidene	3.25084e-07	1.000000	3.25084e-07	1.000000
PhCHCCH2+H	6.63281e-08	1.000000	6.63281e-08	1.000000
rad11	3.40238e-09	1.000000	3.40238e-09	1.000000
rad2	2.76593e-09	1.000000	2.76593e-09	1.000000
rad18	1.13815e-09	1.000000	1.13815e-09	1.000000
rad26	3.98306e-10	1.000000	3.98306e-10	1.000000
rad7	3.45439e-10	1.000000	3.45439e-10	1.000000
rad1	2.54164e-10	1.000000	2.54164e-10	1.000000
rad6	1.87614e-10	1.000000	1.87614e-10	1.000000
rad22	1.32546e-10	1.000000	1.32546e-10	1.000000
rad20	9.62121e-11	1.000000	9.62121e-11	1.000000
rad21	7.63987e-11	1.000000	7.63987e-11	1.000000
PhcycC3H3_A+H	3.81151e-11	1.000000	3.81151e-11	1.000000
rad67	3.70900e-11	1.000000	3.70900e-11	1.000000
rad45	2.97938e-11	1.000000	2.97938e-11	1.000000
C2H2+PhCH2	2.25465e-11	1.000000	2.25465e-11	1.000000
rad35	1.61131e-11	1.000000	1.61131e-11	1.000000
rad10	5.14108e-12	1.000000	5.14108e-12	1.000000
rad36	2.15053e-12	1.000000	2.15053e-12	1.000000
rad5	1.70419e-12	1.000000	1.70419e-12	1.000000
rad3	1.46454e-12	1.000000	1.46454e-12	1.000000
rad23	1.16788e-12	1.000000	1.16788e-12	1.000000
Phenyl+cycC3H4	8.49043e-13	1.000000	0.000000	1.000000
rad4	8.40354e-13	1.000000	8.40354e-13	1.000000
PhCCCH3+H	6.36139e-13	1.000000	6.36139e-13	1.000000
PhcycC3H3_B+H	5.87063e-13	1.000000	5.87063e-13	1.000000
Ph+MeAc	5.08125e-13	1.000000	5.08125e-13	1.000000
Ph+Allene	1.95823e-13	1.000000	1.95823e-13	1.000000
rad25	1.11369e-13	1.000000	1.11369e-13	1.000000
rad30	7.40192e-14	1.000000	7.40192e-14	1.000000
rad27	5.07163e-14	1.000000	5.07163e-14	1.000000
PhCCH+CH3	4.65082e-14	1.000000	4.65082e-14	1.000000

PhCH2CCH+H	4.35795e-14	1.00000	4.35795e-14	1.00000
rad24	1.28254e-14	1.00000	1.28254e-14	1.00000
rad13	1.23821e-14	1.00000	1.23821e-14	1.00000
rad37	3.84864e-16	1.00000	3.84864e-16	1.00000
rad60syn	3.68779e-16	1.00000	3.68779e-16	1.00000
rad14	2.51063e-16	1.00000	2.51063e-16	1.00000
PAH3+H	2.11736e-16	1.00000	2.11736e-16	1.00000
rad60anti	1.83733e-16	1.00000	1.83733e-16	1.00000
rad28	1.70060e-16	1.00000	1.70060e-16	1.00000
rad8	1.33110e-16	1.00000	1.33110e-16	1.00000
rad33	5.60430e-17	1.00000	5.60430e-17	1.00000
PAH7+H	4.51438e-17	1.00000	4.51438e-17	1.00000
rad59	4.09741e-17	1.00000	4.09741e-17	1.00000
rad38	4.60217e-18	1.00000	4.60217e-18	1.00000
PAH10+CH3	1.84135e-18	1.00000	1.84135e-18	1.00000
rad46	1.93628e-19	1.00000	1.93628e-19	1.00000
rad31	1.92520e-19	1.00000	1.92520e-19	1.00000
rad43	1.01705e-19	1.00000	1.01705e-19	1.00000
PAH9+H	7.57310e-20	1.00000	7.57310e-20	1.00000
rad58	1.54831e-20	1.00000	1.54831e-20	1.00000
rad70	1.28280e-20	1.00000	1.28280e-20	1.00000
rad50	2.45166e-21	1.00000	2.45166e-21	1.00000
rad39	8.44364e-22	1.00000	8.44364e-22	1.00000
PAH1+H	7.43616e-22	1.00000	7.43616e-22	1.00000
rad34	4.51801e-22	1.00000	4.51801e-22	1.00000
rad62	3.96971e-22	1.00000	3.96971e-22	1.00000
rad54	7.65111e-23	1.00000	7.65111e-23	1.00000
rad41	5.38033e-23	1.00000	5.38033e-23	1.00000
rad52	2.83223e-23	1.00000	2.83223e-23	1.00000
rad51	1.48569e-23	1.00000	1.48569e-23	1.00000
rad55	1.29838e-24	1.00000	1.29838e-24	1.00000
rad42	6.53831e-25	1.00000	6.53831e-25	1.00000
rad19syn	1.94769e-25	1.00000	1.94769e-25	1.00000
rad61	1.16635e-25	1.00000	1.16635e-25	1.00000
rad47	1.12401e-25	1.00000	1.12401e-25	1.00000
rad68syn	7.67252e-27	1.00000	7.67252e-27	1.00000
rad68anti	5.63603e-27	1.00000	5.63603e-27	1.00000
rad65	5.54944e-27	1.00000	5.54944e-27	1.00000
rad53	1.05056e-27	1.00000	1.05056e-27	1.00000
rad40syn	1.43494e-28	1.00000	1.43494e-28	1.00000
rad40anti	1.08704e-28	1.00000	1.08704e-28	1.00000
PAH8+H	4.12945e-29	1.00000	4.12945e-29	1.00000
rad56	2.03099e-29	1.00000	2.03099e-29	1.00000
rad64	2.16576e-30	1.00000	2.16576e-30	1.00000
rad73	4.03390e-31	1.00000	4.03390e-31	1.00000
rad71	6.19462e-33	1.00000	6.19462e-33	1.00000

1000000.00 Pa, 250.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.71048e-14 (1.00)	2.71048e-14 (1.00)
Formation of rad19	2.70930e-14 (1.000)	2.70930e-14 (1.000)
H-abstraction to cyc2enyl	1.17991e-17 (0.000435)	1.17991e-17 (0.000435)
H-abstraction to cyc1enyl	1.59554e-20 (5.89e-07)	1.59554e-20 (5.89e-07)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.959002	0.959002	0.959002	0.959002
rad19anti	0.0383376	0.997339	0.0383376	0.997339
rad15	0.00210180	0.999441	0.00210180	0.999441
Benzene+cycloprop-2-enylidene	0.000435312	0.999876	0.000435312	0.999876
Indene+H	0.000121846	0.999998	0.000121846	0.999998
rad12	6.72346e-07	0.999999	6.72346e-07	0.999999
Benzene+cycloprop-1-enylidene	5.88656e-07	1.000000	5.88656e-07	1.000000
PhCHCCH2+H	7.93846e-08	1.000000	7.93846e-08	1.000000
rad11	4.07756e-09	1.000000	4.07756e-09	1.000000
rad2	3.34152e-09	1.000000	3.34152e-09	1.000000
rad18	1.36576e-09	1.000000	1.36576e-09	1.000000
rad26	4.81190e-10	1.000000	4.81190e-10	1.000000
rad7	3.87887e-10	1.000000	3.87887e-10	1.000000
rad1	3.08443e-10	1.000000	3.08443e-10	1.000000
rad6	2.46163e-10	1.000000	2.46163e-10	1.000000
rad22	1.73688e-10	1.000000	1.73688e-10	1.000000
rad20	1.16617e-10	1.000000	1.16617e-10	1.000000
rad21	9.12767e-11	1.000000	9.12767e-11	1.000000
PhcycC3H3_A+H	5.46926e-11	1.000000	5.46926e-11	1.000000
rad67	4.92489e-11	1.000000	4.92489e-11	1.000000
rad45	3.92018e-11	1.000000	3.92018e-11	1.000000
C2H2+PhCH2	3.21774e-11	1.000000	3.21774e-11	1.000000

rad35	2.12870e-11	1.000000	2.12870e-11	1.000000
rad10	7.06667e-12	1.000000	7.06667e-12	1.000000
rad36	2.83408e-12	1.000000	2.83408e-12	1.000000
rad5	2.15024e-12	1.000000	2.15024e-12	1.000000
rad3	2.02390e-12	1.000000	2.02390e-12	1.000000
rad23	1.71033e-12	1.000000	1.71033e-12	1.000000
Phenyl+cycC3H4	1.23771e-12	1.000000	0.000000	1.000000
rad4	1.16231e-12	1.000000	1.16231e-12	1.000000
PhcycC3H3_B+H	1.01193e-12	1.000000	1.01193e-12	1.000000
PhCCCH3+H	9.32611e-13	1.000000	9.32611e-13	1.000000
Ph+MeAc	7.66545e-13	1.000000	7.66545e-13	1.000000
Ph+Allene	2.90801e-13	1.000000	2.90801e-13	1.000000
rad25	1.48319e-13	1.000000	1.48319e-13	1.000000
rad30	1.06266e-13	1.000000	1.06266e-13	1.000000
PhCCH+CH3	7.58421e-14	1.000000	7.58421e-14	1.000000
rad27	6.76996e-14	1.000000	6.76996e-14	1.000000
PhCH2CCH+H	6.71499e-14	1.000000	6.71499e-14	1.000000
rad13	1.68409e-14	1.000000	1.68409e-14	1.000000
rad24	1.48009e-14	1.000000	1.48009e-14	1.000000
rad37	5.86578e-16	1.000000	5.86578e-16	1.000000
rad60syn	5.61940e-16	1.000000	5.61940e-16	1.000000
rad14	4.06451e-16	1.000000	4.06451e-16	1.000000
PAH3+H	3.45799e-16	1.000000	3.45799e-16	1.000000
rad60anti	2.81400e-16	1.000000	2.81400e-16	1.000000
rad28	2.63576e-16	1.000000	2.63576e-16	1.000000
rad8	7.89410e-17	1.000000	7.89410e-17	1.000000
PAH7+H	7.64403e-17	1.000000	7.64403e-17	1.000000
rad33	7.30393e-17	1.000000	7.30393e-17	1.000000
rad59	6.61777e-17	1.000000	6.61777e-17	1.000000
rad38	7.60236e-18	1.000000	7.60236e-18	1.000000
PAH10+CH3	3.30653e-18	1.000000	3.30653e-18	1.000000
rad46	3.28670e-19	1.000000	3.28670e-19	1.000000
rad31	2.48465e-19	1.000000	2.48465e-19	1.000000
rad43	1.99666e-19	1.000000	1.99666e-19	1.000000
PAH9+H	1.43565e-19	1.000000	1.43565e-19	1.000000
rad58	3.01651e-20	1.000000	3.01651e-20	1.000000
rad70	2.62738e-20	1.000000	2.62738e-20	1.000000
rad50	4.64655e-21	1.000000	4.64655e-21	1.000000
rad39	1.71710e-21	1.000000	1.71710e-21	1.000000
PAH1+H	1.54761e-21	1.000000	1.54761e-21	1.000000
rad34	9.96076e-22	1.000000	9.96076e-22	1.000000
rad62	9.75101e-22	1.000000	9.75101e-22	1.000000
rad54	1.59769e-22	1.000000	1.59769e-22	1.000000
rad41	1.28557e-22	1.000000	1.28557e-22	1.000000
rad52	5.74601e-23	1.000000	5.74601e-23	1.000000
rad51	3.21998e-23	1.000000	3.21998e-23	1.000000
rad55	2.89601e-24	1.000000	2.89601e-24	1.000000
rad42	1.86515e-24	1.000000	1.86515e-24	1.000000
rad19syn	7.15505e-25	1.000000	7.15505e-25	1.000000
rad61	3.33530e-25	1.000000	3.33530e-25	1.000000
rad47	1.90871e-25	1.000000	1.90871e-25	1.000000
rad68syn	2.44223e-26	1.000000	2.44223e-26	1.000000
rad68anti	1.78618e-26	1.000000	1.78618e-26	1.000000
rad65	1.42659e-26	1.000000	1.42659e-26	1.000000
rad53	2.97104e-27	1.000000	2.97104e-27	1.000000
rad40syn	5.31063e-28	1.000000	5.31063e-28	1.000000
rad40anti	4.03382e-28	1.000000	4.03382e-28	1.000000
PAH8+H	1.64000e-28	1.000000	1.64000e-28	1.000000
rad56	6.74548e-29	1.000000	6.74548e-29	1.000000
rad64	6.96962e-30	1.000000	6.96962e-30	1.000000
rad73	1.53823e-30	1.000000	1.53823e-30	1.000000
rad71	2.62137e-32	1.000000	2.62137e-32	1.000000

1000000.00 Pa, 260.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.97464e-14 (1.00)	2.97464e-14 (1.00)
Formation of rad19	2.97293e-14 (0.999)	2.97293e-14 (0.999)
H-abstraction to cyc2enyl	1.70236e-17 (0.000572)	1.70236e-17 (0.000572)
H-abstraction to cyclenyl	3.02186e-20 (1.02e-06)	3.02186e-20 (1.02e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.962697	0.962697	0.962697	0.962697
rad19anti	0.0343663	0.997063	0.0343663	0.997063
rad15	0.00222104	0.999284	0.00222104	0.999284
Benzene+cycloprop-2-enylidene	0.000572291	0.999856	0.000572291	0.999856
Indene+H	0.000141506	0.999998	0.000141506	0.999998
Benzene+cycloprop-1-enylidene	1.01588e-06	0.999999	1.01588e-06	0.999999

rad12	6.54683e-07	1.000000	6.54683e-07	1.000000
PhCHCCH2+H	9.52955e-08	1.000000	9.52955e-08	1.000000
rad11	4.89889e-09	1.000000	4.89889e-09	1.000000
rad2	4.04939e-09	1.000000	4.04939e-09	1.000000
rad18	1.63492e-09	1.000000	1.63492e-09	1.000000
rad26	5.83032e-10	1.000000	5.83032e-10	1.000000
rad7	4.36926e-10	1.000000	4.36926e-10	1.000000
rad1	3.75947e-10	1.000000	3.75947e-10	1.000000
rad6	3.24738e-10	1.000000	3.24738e-10	1.000000
rad22	2.28185e-10	1.000000	2.28185e-10	1.000000
rad20	1.41278e-10	1.000000	1.41278e-10	1.000000
rad21	1.09250e-10	1.000000	1.09250e-10	1.000000
PhcycC3H3_A+H	7.84166e-11	1.000000	7.84166e-11	1.000000
rad67	6.56174e-11	1.000000	6.56174e-11	1.000000
rad45	5.17766e-11	1.000000	5.17766e-11	1.000000
C2H2+PhCH2	4.60443e-11	1.000000	4.60443e-11	1.000000
rad35	2.82153e-11	1.000000	2.82153e-11	1.000000
rad10	9.77731e-12	1.000000	9.77731e-12	1.000000
rad36	3.75226e-12	1.000000	3.75226e-12	1.000000
rad3	2.81298e-12	1.000000	2.81298e-12	1.000000
rad5	2.74309e-12	1.000000	2.74309e-12	1.000000
rad23	2.51847e-12	1.000000	2.51847e-12	1.000000
Phenyl+cycC3H4	1.79786e-12	1.000000	0.00000	1.000000
PhcycC3H3_B+H	1.72173e-12	1.000000	1.72173e-12	1.000000
rad4	1.61747e-12	1.000000	1.61747e-12	1.000000
PhCCCH3+H	1.37995e-12	1.000000	1.37995e-12	1.000000
Ph+MeAc	1.16802e-12	1.000000	1.16802e-12	1.000000
Ph+Allene	4.35461e-13	1.000000	4.35461e-13	1.000000
rad25	1.97743e-13	1.000000	1.97743e-13	1.000000
rad30	1.53017e-13	1.000000	1.53017e-13	1.000000
PhCCH+CH3	1.25754e-13	1.000000	1.25754e-13	1.000000
PhCH2CCH+H	1.04400e-13	1.000000	1.04400e-13	1.000000
rad27	9.04750e-14	1.000000	9.04750e-14	1.000000
rad13	2.29915e-14	1.000000	2.29915e-14	1.000000
rad24	1.71461e-14	1.000000	1.71461e-14	1.000000
rad37	9.02117e-16	1.000000	9.02117e-16	1.000000
rad60syn	8.60138e-16	1.000000	8.60138e-16	1.000000
rad14	6.61744e-16	1.000000	6.61744e-16	1.000000
PAH3+H	5.67723e-16	1.000000	5.67723e-16	1.000000
rad60anti	4.32965e-16	1.000000	4.32965e-16	1.000000
rad28	4.12815e-16	1.000000	4.12815e-16	1.000000
PAH7+H	1.30273e-16	1.000000	1.30273e-16	1.000000
rad59	1.07423e-16	1.000000	1.07423e-16	1.000000
rad33	9.56595e-17	1.000000	9.56595e-17	1.000000
rad8	4.82485e-17	1.000000	4.82485e-17	1.000000
rad38	1.26824e-17	1.000000	1.26824e-17	1.000000
PAH10+CH3	5.98446e-18	1.000000	5.98446e-18	1.000000
rad46	5.63863e-19	1.000000	5.63863e-19	1.000000
rad43	3.93539e-19	1.000000	3.93539e-19	1.000000
rad31	3.24739e-19	1.000000	3.24739e-19	1.000000
PAH9+H	2.75057e-19	1.000000	2.75057e-19	1.000000
rad58	5.87341e-20	1.000000	5.87341e-20	1.000000
rad70	5.37577e-20	1.000000	5.37577e-20	1.000000
rad50	8.89699e-21	1.000000	8.89699e-21	1.000000
rad39	3.52704e-21	1.000000	3.52704e-21	1.000000
PAH1+H	3.22368e-21	1.000000	3.22368e-21	1.000000
rad62	2.38191e-21	1.000000	2.38191e-21	1.000000
rad34	2.18097e-21	1.000000	2.18097e-21	1.000000
rad54	3.35164e-22	1.000000	3.35164e-22	1.000000
rad41	3.03632e-22	1.000000	3.03632e-22	1.000000
rad52	1.17475e-22	1.000000	1.17475e-22	1.000000
rad51	7.00531e-23	1.000000	7.00531e-23	1.000000
rad55	6.45263e-24	1.000000	6.45263e-24	1.000000
rad42	5.19428e-24	1.000000	5.19428e-24	1.000000
rad19syn	2.75469e-24	1.000000	2.75469e-24	1.000000
rad61	9.12930e-25	1.000000	9.12930e-25	1.000000
rad47	3.23149e-25	1.000000	3.23149e-25	1.000000
rad68syn	7.32381e-26	1.000000	7.32381e-26	1.000000
rad68anti	5.33706e-26	1.000000	5.33706e-26	1.000000
rad65	3.63347e-26	1.000000	3.63347e-26	1.000000
rad53	8.13154e-27	1.000000	8.13154e-27	1.000000
rad40syn	1.80821e-27	1.000000	1.80821e-27	1.000000
rad40anti	1.37791e-27	1.000000	1.37791e-27	1.000000
PAH8+H	5.91153e-28	1.000000	5.91153e-28	1.000000
rad56	2.10410e-28	1.000000	2.10410e-28	1.000000
rad64	2.13162e-29	1.000000	2.13162e-29	1.000000
rad73	5.40586e-30	1.000000	5.40586e-30	1.000000
rad71	1.00325e-31	1.000000	1.00325e-31	1.000000

1000000.00 Pa, 270.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.24655e-14 (1.00)	3.24655e-14 (1.00)
Formation of rad19	3.24415e-14 (0.999)	3.24415e-14 (0.999)
H-abstraction to cyc2enyl	2.38790e-17 (0.000736)	2.38790e-17 (0.000736)
H-abstraction to cyclenyl	5.45397e-20 (1.68e-06)	5.45397e-20 (1.68e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.965798	0.965798	0.965798	0.965798
rad19anti	0.0309581	0.996757	0.0309581	0.996757
rad15	0.00234115	0.999098	0.00234115	0.999098
Benzene+cycloprop-2-enylidene	0.000735519	0.999833	0.000735519	0.999833
Indene+H	0.000164125	0.999997	0.000164125	0.999997
Benzene+cycloprop-1-enylidene	1.67993e-06	0.999999	1.67993e-06	0.999999
rad12	6.38473e-07	1.000000	6.38473e-07	1.000000
PhCHCCH2+H	1.14758e-07	1.000000	1.14758e-07	1.000000
rad11	5.90062e-09	1.000000	5.90062e-09	1.000000
rad2	4.92297e-09	1.000000	4.92297e-09	1.000000
rad18	1.95203e-09	1.000000	1.95203e-09	1.000000
rad26	7.08623e-10	1.000000	7.08623e-10	1.000000
rad7	4.93537e-10	1.000000	4.93537e-10	1.000000
rad1	4.60302e-10	1.000000	4.60302e-10	1.000000
rad6	4.30708e-10	1.000000	4.30708e-10	1.000000
rad22	3.00472e-10	1.000000	3.00472e-10	1.000000
rad20	1.71024e-10	1.000000	1.71024e-10	1.000000
rad21	1.30937e-10	1.000000	1.30937e-10	1.000000
PhcycC3H3_A+H	1.12280e-10	1.000000	1.12280e-10	1.000000
rad67	8.77195e-11	1.000000	8.77195e-11	1.000000
rad45	6.86328e-11	1.000000	6.86328e-11	1.000000
C2H2+PhCH2	6.60383e-11	1.000000	6.60383e-11	1.000000
rad35	3.75210e-11	1.000000	3.75210e-11	1.000000
rad10	1.36176e-11	1.000000	1.36176e-11	1.000000
rad36	4.99021e-12	1.000000	4.99021e-12	1.000000
rad3	3.93129e-12	1.000000	3.93129e-12	1.000000
rad23	3.72772e-12	1.000000	3.72772e-12	1.000000
rad5	3.53591e-12	1.000000	3.53591e-12	1.000000
PhcycC3H3_B+H	2.89257e-12	1.000000	2.89257e-12	1.000000
Phenyl+cycC3H4	2.60088e-12	1.000000	0.00000	1.000000
rad4	2.26424e-12	1.000000	2.26424e-12	1.000000
PhCCCH3+H	2.06027e-12	1.000000	2.06027e-12	1.000000
Ph+MeAc	1.79678e-12	1.000000	1.79678e-12	1.000000
Ph+Allene	6.57158e-13	1.000000	6.57158e-13	1.000000
rad25	2.63797e-13	1.000000	2.63797e-13	1.000000
rad30	2.20920e-13	1.000000	2.20920e-13	1.000000
PhCCH+CH3	2.11502e-13	1.000000	2.11502e-13	1.000000
PhCH2CCH+H	1.63617e-13	1.000000	1.63617e-13	1.000000
rad27	1.21000e-13	1.000000	1.21000e-13	1.000000
rad13	3.15032e-14	1.000000	3.15032e-14	1.000000
rad24	1.99275e-14	1.000000	1.99275e-14	1.000000
rad37	1.39901e-15	1.000000	1.39901e-15	1.000000
rad60syn	1.32150e-15	1.000000	1.32150e-15	1.000000
rad14	1.08189e-15	1.000000	1.08189e-15	1.000000
PAH3+H	9.35627e-16	1.000000	9.35627e-16	1.000000
rad60anti	6.68679e-16	1.000000	6.68679e-16	1.000000
rad28	6.52872e-16	1.000000	6.52872e-16	1.000000
PAH7+H	2.23028e-16	1.000000	2.23028e-16	1.000000
rad59	1.75021e-16	1.000000	1.75021e-16	1.000000
rad33	1.25899e-16	1.000000	1.25899e-16	1.000000
rad8	3.03708e-17	1.000000	3.03708e-17	1.000000
rad38	2.13364e-17	1.000000	2.13364e-17	1.000000
PAH10+CH3	1.08853e-17	1.000000	1.08853e-17	1.000000
rad46	9.76263e-19	1.000000	9.76263e-19	1.000000
rad43	7.75898e-19	1.000000	7.75898e-19	1.000000
PAH9+H	5.30886e-19	1.000000	5.30886e-19	1.000000
rad31	4.30170e-19	1.000000	4.30170e-19	1.000000
rad58	1.13900e-19	1.000000	1.13900e-19	1.000000
rad70	1.09400e-19	1.000000	1.09400e-19	1.000000
rad50	1.71532e-20	1.000000	1.71532e-20	1.000000
rad39	7.27750e-21	1.000000	7.27750e-21	1.000000
PAH1+H	6.68796e-21	1.000000	6.68796e-21	1.000000
rad62	5.74476e-21	1.000000	5.74476e-21	1.000000
rad34	4.71875e-21	1.000000	4.71875e-21	1.000000
rad41	7.04969e-22	1.000000	7.04969e-22	1.000000
rad54	7.02361e-22	1.000000	7.02361e-22	1.000000
rad52	2.40925e-22	1.000000	2.40925e-22	1.000000
rad51	1.52126e-22	1.000000	1.52126e-22	1.000000
rad55	1.42689e-23	1.000000	1.42689e-23	1.000000
rad42	1.40223e-23	1.000000	1.40223e-23	1.000000

rad19syn	1.10704e-23	1.000000	1.10704e-23	1.000000
rad61	2.38504e-24	1.000000	2.38504e-24	1.000000
rad47	5.46365e-25	1.000000	5.46365e-25	1.000000
rad68syn	2.06699e-25	1.000000	2.06699e-25	1.000000
rad68anti	1.50179e-25	1.000000	1.50179e-25	1.000000
rad65	9.09091e-26	1.000000	9.09091e-26	1.000000
rad53	2.14127e-26	1.000000	2.14127e-26	1.000000
rad40syn	5.68350e-27	1.000000	5.68350e-27	1.000000
rad40anti	4.34690e-27	1.000000	4.34690e-27	1.000000
PAH8+H	1.94590e-27	1.000000	1.94590e-27	1.000000
rad56	6.15697e-28	1.000000	6.15697e-28	1.000000
rad64	6.16843e-29	1.000000	6.16843e-29	1.000000
rad73	1.75615e-29	1.000000	1.75615e-29	1.000000
rad71	3.49706e-31	1.000000	3.49706e-31	1.000000

1000000.00 Pa, 280.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.52572e-14 (1.00)	3.52572e-14 (1.00)
Formation of rad19	3.52244e-14 (0.999)	3.52244e-14 (0.999)
H-abstraction to cyc2enyl	3.26639e-17 (0.000926)	3.26639e-17 (0.000926)
H-abstraction to cyclenyl	9.42926e-20 (2.67e-06)	9.42926e-20 (2.67e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.968373	0.968373	0.968373	0.968373
rad19anti	0.0280443	0.996418	0.0280443	0.996418
rad15	0.00246178	0.998880	0.00246178	0.998880
Benzene+cycloprop-2-enylidene	0.000926445	0.999806	0.000926445	0.999806
Indene+H	0.000190148	0.999996	0.000190148	0.999996
Benzene+cycloprop-1-enylidene	2.67442e-06	0.999999	2.67442e-06	0.999999
rad12	6.23620e-07	0.999999	6.23620e-07	0.999999
PhCHCCH2+H	1.38650e-07	1.000000	1.38650e-07	1.000000
rad11	7.12512e-09	1.000000	7.12512e-09	1.000000
rad2	6.00451e-09	1.000000	6.00451e-09	1.000000
rad18	2.32396e-09	1.000000	2.32396e-09	1.000000
rad26	8.64031e-10	1.000000	8.64031e-10	1.000000
rad6	5.74248e-10	1.000000	5.74248e-10	1.000000
rad1	5.66197e-10	1.000000	5.66197e-10	1.000000
rad7	5.58804e-10	1.000000	5.58804e-10	1.000000
rad22	3.96413e-10	1.000000	3.96413e-10	1.000000
rad20	2.06808e-10	1.000000	2.06808e-10	1.000000
PhcycC3H3_A+H	1.60447e-10	1.000000	1.60447e-10	1.000000
rad21	1.57052e-10	1.000000	1.57052e-10	1.000000
rad67	1.17636e-10	1.000000	1.17636e-10	1.000000
C2H2+PhCH2	9.48750e-11	1.000000	9.48750e-11	1.000000
rad45	9.12766e-11	1.000000	9.12766e-11	1.000000
rad35	5.00505e-11	1.000000	5.00505e-11	1.000000
rad10	1.90888e-11	1.000000	1.90888e-11	1.000000
rad36	6.66431e-12	1.000000	6.66431e-12	1.000000
rad23	5.54280e-12	1.000000	5.54280e-12	1.000000
rad3	5.52184e-12	1.000000	5.52184e-12	1.000000
PhcycC3H3_B+H	4.79749e-12	1.000000	4.79749e-12	1.000000
rad5	4.60170e-12	1.000000	4.60170e-12	1.000000
Phenyl+cycC3H4	3.74512e-12	1.000000	0.000000	1.000000
rad4	3.18695e-12	1.000000	3.18695e-12	1.000000
PhCCCH3+H	3.10160e-12	1.000000	3.10160e-12	1.000000
Ph+MeAc	2.78747e-12	1.000000	2.78747e-12	1.000000
Ph+Allene	9.98389e-13	1.000000	9.98389e-13	1.000000
PhCCH+CH3	3.59645e-13	1.000000	3.59645e-13	1.000000
rad25	3.51924e-13	1.000000	3.51924e-13	1.000000
rad30	3.19607e-13	1.000000	3.19607e-13	1.000000
PhCH2CCH+H	2.58085e-13	1.000000	2.58085e-13	1.000000
rad27	1.61849e-13	1.000000	1.61849e-13	1.000000
rad13	4.33108e-14	1.000000	4.33108e-14	1.000000
rad24	2.32209e-14	1.000000	2.32209e-14	1.000000
rad37	2.18496e-15	1.000000	2.18496e-15	1.000000
rad60syn	2.03556e-15	1.000000	2.03556e-15	1.000000
rad14	1.77261e-15	1.000000	1.77261e-15	1.000000
PAH3+H	1.54466e-15	1.000000	1.54466e-15	1.000000
rad28	1.04111e-15	1.000000	1.04111e-15	1.000000
rad60anti	1.03536e-15	1.000000	1.03536e-15	1.000000
PAH7+H	3.82543e-16	1.000000	3.82543e-16	1.000000
rad59	2.85676e-16	1.000000	2.85676e-16	1.000000
rad33	1.66484e-16	1.000000	1.66484e-16	1.000000
rad38	3.61189e-17	1.000000	3.61189e-17	1.000000
PAH10+CH3	1.98198e-17	1.000000	1.98198e-17	1.000000
rad8	1.96820e-17	1.000000	1.96820e-17	1.000000
rad46	1.70173e-18	1.000000	1.70173e-18	1.000000

rad43	1.52320e-18	1.000000	1.52320e-18	1.000000
PAH9+H	1.02757e-18	1.000000	1.02757e-18	1.000000
rad31	5.78004e-19	1.000000	5.78004e-19	1.000000
rad70	2.20312e-19	1.000000	2.20312e-19	1.000000
rad58	2.19075e-19	1.000000	2.19075e-19	1.000000
rad50	3.31485e-20	1.000000	3.31485e-20	1.000000
rad39	1.49810e-20	1.000000	1.49810e-20	1.000000
PAH1+H	1.37384e-20	1.000000	1.37384e-20	1.000000
rad62	1.35811e-20	1.000000	1.35811e-20	1.000000
rad34	1.00323e-20	1.000000	1.00323e-20	1.000000
rad41	1.59974e-21	1.000000	1.59974e-21	1.000000
rad54	1.46058e-21	1.000000	1.46058e-21	1.000000
rad52	4.92843e-22	1.000000	4.92843e-22	1.000000
rad51	3.27597e-22	1.000000	3.27597e-22	1.000000
rad19syn	4.62335e-23	1.000000	4.62335e-23	1.000000
rad42	3.64688e-23	1.000000	3.64688e-23	1.000000
rad55	3.10946e-23	1.000000	3.10946e-23	1.000000
rad61	5.93174e-24	1.000000	5.93174e-24	1.000000
rad47	9.23926e-25	1.000000	9.23926e-25	1.000000
rad68syn	5.48713e-25	1.000000	5.48713e-25	1.000000
rad68anti	3.97706e-25	1.000000	3.97706e-25	1.000000
rad65	2.21642e-25	1.000000	2.21642e-25	1.000000
rad53	5.39843e-26	1.000000	5.39843e-26	1.000000
rad40syn	1.65460e-26	1.000000	1.65460e-26	1.000000
rad40anti	1.27060e-26	1.000000	1.27060e-26	1.000000
PAH8+H	5.88187e-27	1.000000	5.88187e-27	1.000000
rad56	1.68952e-27	1.000000	1.68952e-27	1.000000
rad64	1.68411e-28	1.000000	1.68411e-28	1.000000
rad73	5.28984e-29	1.000000	5.28984e-29	1.000000
rad71	1.11705e-30	1.000000	1.11705e-30	1.000000

1000000.00 Pa, 290.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.81171e-14 (1.00)	3.81171e-14 (1.00)
Formation of rad19	3.80733e-14 (0.999)	3.80733e-14 (0.999)
H-abstraction to cyc2enyl	4.36868e-17 (0.00115)	4.36868e-17 (0.00115)
H-abstraction to cyc1enyl	1.56861e-19 (4.12e-06)	1.56861e-19 (4.12e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.970482	0.970482	0.970482	0.970482
rad19anti	0.0255642	0.996047	0.0255642	0.996047
rad15	0.00258246	0.998629	0.00258246	0.998629
Benzene+cycloprop-2-enylidene	0.00114612	0.999775	0.00114612	0.999775
Indene+H	0.000220082	0.999995	0.000220082	0.999995
Benzene+cycloprop-1-enylidene	4.11523e-06	0.999999	4.11523e-06	0.999999
rad12	6.10044e-07	1.000000	6.10044e-07	1.000000
PhCHCCH2+H	1.68072e-07	1.000000	1.68072e-07	1.000000
rad11	8.62455e-09	1.000000	8.62455e-09	1.000000
rad2	7.34713e-09	1.000000	7.34713e-09	1.000000
rad18	2.75793e-09	1.000000	2.75793e-09	1.000000
rad26	1.05690e-09	1.000000	1.05690e-09	1.000000
rad6	7.69332e-10	1.000000	7.69332e-10	1.000000
rad1	6.99680e-10	1.000000	6.99680e-10	1.000000
rad7	6.33927e-10	1.000000	6.33927e-10	1.000000
rad22	5.23683e-10	1.000000	5.23683e-10	1.000000
rad20	2.49705e-10	1.000000	2.49705e-10	1.000000
PhcycC3H3_A+H	2.28624e-10	1.000000	2.28624e-10	1.000000
rad21	1.88405e-10	1.000000	1.88405e-10	1.000000
rad67	1.58184e-10	1.000000	1.58184e-10	1.000000
C2H2+PhCH2	1.36413e-10	1.000000	1.36413e-10	1.000000
rad45	1.21727e-10	1.000000	1.21727e-10	1.000000
rad35	6.69451e-11	1.000000	6.69451e-11	1.000000
rad10	2.69170e-11	1.000000	2.69170e-11	1.000000
rad36	8.93252e-12	1.000000	8.93252e-12	1.000000
rad23	8.27035e-12	1.000000	8.27035e-12	1.000000
PhcycC3H3_B+H	7.84870e-12	1.000000	7.84870e-12	1.000000
rad3	7.78827e-12	1.000000	7.78827e-12	1.000000
rad5	6.03976e-12	1.000000	6.03976e-12	1.000000
Phenyl+cycC3H4	5.36400e-12	1.000000	0.000000	1.000000
PhCCCH3+H	4.70176e-12	1.000000	4.70176e-12	1.000000
rad4	4.50643e-12	1.000000	4.50643e-12	1.000000
Ph+MeAc	4.35327e-12	1.000000	4.35327e-12	1.000000
Ph+Allene	1.52439e-12	1.000000	1.52439e-12	1.000000
PhCCH+CH3	6.15716e-13	1.000000	6.15716e-13	1.000000
rad25	4.69157e-13	1.000000	4.69157e-13	1.000000
rad30	4.62897e-13	1.000000	4.62897e-13	1.000000
PhCH2CCH+H	4.08771e-13	1.000000	4.08771e-13	1.000000

rad27	2.16380e-13	1.00000	2.16380e-13	1.00000
rad13	5.97114e-14	1.00000	5.97114e-14	1.00000
rad24	2.71115e-14	1.00000	2.71115e-14	1.00000
rad37	3.42955e-15	1.00000	3.42955e-15	1.00000
rad60syn	3.13827e-15	1.00000	3.13827e-15	1.00000
rad14	2.90300e-15	1.00000	2.90300e-15	1.00000
PAH3+H	2.54767e-15	1.00000	2.54767e-15	1.00000
rad28	1.67011e-15	1.00000	1.67011e-15	1.00000
rad60anti	1.60440e-15	1.00000	1.60440e-15	1.00000
PAH7+H	6.55120e-16	1.00000	6.55120e-16	1.00000
rad59	4.65964e-16	1.00000	4.65964e-16	1.00000
rad33	2.21113e-16	1.00000	2.21113e-16	1.00000
rad38	6.13259e-17	1.00000	6.13259e-17	1.00000
PAH10+CH3	3.59466e-17	1.00000	3.59466e-17	1.00000
rad8	1.31327e-17	1.00000	1.31327e-17	1.00000
rad46	2.97599e-18	1.00000	2.97599e-18	1.00000
rad43	2.96174e-18	1.00000	2.96174e-18	1.00000
PAH9+H	1.98332e-18	1.00000	1.98332e-18	1.00000
rad31	7.88365e-19	1.00000	7.88365e-19	1.00000
rad70	4.36611e-19	1.00000	4.36611e-19	1.00000
rad58	4.15940e-19	1.00000	4.15940e-19	1.00000
rad50	6.38522e-20	1.00000	6.38522e-20	1.00000
rad62	3.12617e-20	1.00000	3.12617e-20	1.00000
rad39	3.05367e-20	1.00000	3.05367e-20	1.00000
PAH1+H	2.77680e-20	1.00000	2.77680e-20	1.00000
rad34	2.08409e-20	1.00000	2.08409e-20	1.00000
rad41	3.52855e-21	1.00000	3.52855e-21	1.00000
rad54	2.99305e-21	1.00000	2.99305e-21	1.00000
rad52	9.99179e-22	1.00000	9.99179e-22	1.00000
rad51	6.94838e-22	1.00000	6.94838e-22	1.00000
rad19syn	1.99681e-22	1.00000	1.99681e-22	1.00000
rad42	9.09378e-23	1.00000	9.09378e-23	1.00000
rad55	6.63125e-23	1.00000	6.63125e-23	1.00000
rad61	1.40166e-23	1.00000	1.40166e-23	1.00000
rad47	1.56453e-24	1.00000	1.56453e-24	1.00000
rad68syn	1.37013e-24	1.00000	1.37013e-24	1.00000
rad68anti	9.91101e-25	1.00000	9.91101e-25	1.00000
rad65	5.22944e-25	1.00000	5.22944e-25	1.00000
rad53	1.29821e-25	1.00000	1.29821e-25	1.00000
rad40syn	4.47616e-26	1.00000	4.47616e-26	1.00000
rad40anti	3.45222e-26	1.00000	3.45222e-26	1.00000
PAH8+H	1.64083e-26	1.00000	1.64083e-26	1.00000
rad56	4.34927e-27	1.00000	4.34927e-27	1.00000
rad64	4.33195e-28	1.00000	4.33195e-28	1.00000
rad73	1.48193e-28	1.00000	1.48193e-28	1.00000
rad71	3.28764e-30	1.00000	3.28764e-30	1.00000

1000000.00 Pa, 300.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.34809e-14 (1.00)	5.34809e-14 (1.00)
Formation of rad19	5.34010e-14 (0.999)	5.34010e-14 (0.999)
H-abstraction to cyc2enyl	7.95823e-17 (0.00149)	7.95823e-17 (0.00149)
H-abstraction to cyc1enyl	3.44981e-19 (6.45e-06)	3.44981e-19 (6.45e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.968088	0.968088	0.968088	0.968088
rad19anti	0.0268310	0.994919	0.0268310	0.994919
rad15	0.00308509	0.998004	0.00308509	0.998004
Benzene+cycloprop-2-enylidene	0.00148805	0.999492	0.00148805	0.999492
Indene+H	0.000499726	0.999992	0.000499726	0.999992
Benzene+cycloprop-1-enylidene	6.45054e-06	0.999998	6.45054e-06	0.999998
rad12	6.02517e-07	0.999999	6.02517e-07	0.999999
PhCHCCH2+H	5.11567e-07	1.000000	5.11567e-07	1.000000
rad11	2.64397e-08	1.000000	2.64397e-08	1.000000
rad2	2.45991e-08	1.000000	2.45991e-08	1.000000
rad18	6.12450e-09	1.000000	6.12450e-09	1.000000
rad6	6.05332e-09	1.000000	6.05332e-09	1.000000
rad26	3.73334e-09	1.000000	3.73334e-09	1.000000
rad22	2.88121e-09	1.000000	2.88121e-09	1.000000
rad1	2.25790e-09	1.000000	2.25790e-09	1.000000
C2H2+PhCH2	1.59460e-09	1.000000	1.59460e-09	1.000000
rad67	1.14751e-09	1.000000	1.14751e-09	1.000000
PhcycC3H3_A+H	9.79029e-10	1.000000	9.79029e-10	1.000000
rad45	7.72858e-10	1.000000	7.72858e-10	1.000000
rad7	7.10251e-10	1.000000	7.10251e-10	1.000000
rad20	5.88312e-10	1.000000	5.88312e-10	1.000000
rad21	4.60483e-10	1.000000	4.60483e-10	1.000000

rad35	4.58329e-10	1.000000	4.58329e-10	1.000000
rad10	2.99568e-10	1.000000	2.99568e-10	1.000000
Ph+MeAc	1.42736e-10	1.000000	1.42736e-10	1.000000
rad23	1.42615e-10	1.000000	1.42615e-10	1.000000
PhCCCH3+H	1.14996e-10	1.000000	1.14996e-10	1.000000
PhcycC3H3_B+H	7.65174e-11	1.000000	7.65174e-11	1.000000
rad3	7.36770e-11	1.000000	7.36770e-11	1.000000
PhCCH+CH3	4.72086e-11	1.000000	4.72086e-11	1.000000
rad4	4.14976e-11	1.000000	4.14976e-11	1.000000
rad5	3.58756e-11	1.000000	3.58756e-11	1.000000
Ph+Allene	3.33664e-11	1.000000	3.33664e-11	1.000000
rad36	2.94615e-11	1.000000	2.94615e-11	1.000000
PhCH2CCH+H	1.63794e-11	1.000000	1.63794e-11	1.000000
Phenyl+cycC3H4	8.25122e-12	1.000000	0.000000	1.000000
rad30	5.67624e-12	1.000000	5.67624e-12	1.000000
rad25	2.64203e-12	1.000000	2.64203e-12	1.000000
rad27	1.13939e-12	1.000000	1.13939e-12	1.000000
rad13	4.89639e-13	1.000000	4.89639e-13	1.000000
rad37	1.37128e-13	1.000000	1.37128e-13	1.000000
PAH3+H	1.19552e-13	1.000000	1.19552e-13	1.000000
rad28	8.57997e-14	1.000000	8.57997e-14	1.000000
rad14	7.37505e-14	1.000000	7.37505e-14	1.000000
rad60syn	6.90476e-14	1.000000	6.90476e-14	1.000000
rad24	6.59995e-14	1.000000	6.59995e-14	1.000000
PAH7+H	4.33740e-14	1.000000	4.33740e-14	1.000000
rad60anti	3.71988e-14	1.000000	3.71988e-14	1.000000
rad59	1.82042e-14	1.000000	1.82042e-14	1.000000
PAH10+CH3	7.42166e-15	1.000000	7.42166e-15	1.000000
rad38	5.54666e-15	1.000000	5.54666e-15	1.000000
rad8	2.39868e-15	1.000000	2.39868e-15	1.000000
rad33	1.68525e-15	1.000000	1.68525e-15	1.000000
PAH9+H	1.17727e-15	1.000000	1.17727e-15	1.000000
rad43	8.40624e-16	1.000000	8.40624e-16	1.000000
rad46	4.11479e-16	1.000000	4.11479e-16	1.000000
rad70	1.52627e-16	1.000000	1.52627e-16	1.000000
rad58	6.86909e-17	1.000000	6.86909e-17	1.000000
rad62	5.29389e-17	1.000000	5.29389e-17	1.000000
rad39	4.70269e-17	1.000000	4.70269e-17	1.000000
rad50	3.50289e-17	1.000000	3.50289e-17	1.000000
PAH1+H	2.03588e-17	1.000000	2.03588e-17	1.000000
rad19syn	1.85609e-17	1.000000	1.85609e-17	1.000000
rad34	1.36637e-17	1.000000	1.36637e-17	1.000000
rad31	6.15755e-18	1.000000	6.15755e-18	1.000000
rad41	5.47617e-18	1.000000	5.47617e-18	1.000000
rad54	4.55382e-18	1.000000	4.55382e-18	1.000000
rad51	1.66177e-18	1.000000	1.66177e-18	1.000000
rad52	1.21259e-18	1.000000	1.21259e-18	1.000000
rad42	6.04369e-19	1.000000	6.04369e-19	1.000000
rad55	1.72105e-19	1.000000	1.72105e-19	1.000000
rad61	1.30380e-19	1.000000	1.30380e-19	1.000000
rad68syn	2.34661e-20	1.000000	2.34661e-20	1.000000
rad68anti	1.60649e-20	1.000000	1.60649e-20	1.000000
PAH8+H	1.37133e-20	1.000000	1.37133e-20	1.000000
rad65	1.23817e-20	1.000000	1.23817e-20	1.000000
rad40syn	7.72466e-21	1.000000	7.72466e-21	1.000000
rad40anti	6.47140e-21	1.000000	6.47140e-21	1.000000
rad53	3.80854e-21	1.000000	3.80854e-21	1.000000
rad56	9.52142e-22	1.000000	9.52142e-22	1.000000
rad73	3.86132e-22	1.000000	3.86132e-22	1.000000
rad64	1.91849e-22	1.000000	1.91849e-22	1.000000
rad71	1.52641e-22	1.000000	1.52641e-22	1.000000
rad47	9.39751e-23	1.000000	9.39751e-23	1.000000
rad72	2.53365e-25	1.000000	2.53365e-25	1.000000

1000000.00 Pa, 310.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.92544e-14 (1.00)	5.92544e-14 (1.00)
Formation of rad19	5.91462e-14 (0.998)	5.91462e-14 (0.998)
H-abstraction to cyc2enyl	1.07628e-16 (0.00182)	1.07628e-16 (0.00182)
H-abstraction to cyclenyl	5.62537e-19 (9.49e-06)	5.62537e-19 (9.49e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.973366	0.973366	0.973366	0.973366
rad19anti	0.0216923	0.995058	0.0216923	0.995058
rad15	0.00282156	0.997879	0.00282156	0.997879
Benzene+cycloprop-2-enylidene	0.00181637	0.999696	0.00181637	0.999696
Indene+H	0.000293989	0.999990	0.000293989	0.999990

Benzene+cycloprop-1-enylidene	9.49359e-06	0.999999	9.49359e-06	0.999999
rad12	5.86402e-07	1.000000	5.86402e-07	1.000000
PhCHCCH2+H	2.49264e-07	1.000000	2.49264e-07	1.000000
rad11	1.27126e-08	1.000000	1.27126e-08	1.000000
rad2	1.10937e-08	1.000000	1.10937e-08	1.000000
rad18	3.84050e-09	1.000000	3.84050e-09	1.000000
rad26	1.59533e-09	1.000000	1.59533e-09	1.000000
rad6	1.39631e-09	1.000000	1.39631e-09	1.000000
rad1	1.08235e-09	1.000000	1.08235e-09	1.000000
rad22	9.14325e-10	1.000000	9.14325e-10	1.000000
rad7	8.18913e-10	1.000000	8.18913e-10	1.000000
PhcycC3H3_A+H	4.57825e-10	1.000000	4.57825e-10	1.000000
rad20	3.61635e-10	1.000000	3.61635e-10	1.000000
rad67	2.87414e-10	1.000000	2.87414e-10	1.000000
C2H2+PhCH2	2.81083e-10	1.000000	2.81083e-10	1.000000
rad21	2.70463e-10	1.000000	2.70463e-10	1.000000
rad45	2.17475e-10	1.000000	2.17475e-10	1.000000
rad35	1.20370e-10	1.000000	1.20370e-10	1.000000
rad10	5.42120e-11	1.000000	5.42120e-11	1.000000
PhcycC3H3_B+H	2.00320e-11	1.000000	2.00320e-11	1.000000
rad23	1.84685e-11	1.000000	1.84685e-11	1.000000
rad36	1.61636e-11	1.000000	1.61636e-11	1.000000
rad3	1.55947e-11	1.000000	1.55947e-11	1.000000
PhCCCH3+H	1.09276e-11	1.000000	1.09276e-11	1.000000
Phenyl+cycC3H4	1.07903e-11	1.000000	0.000000	1.000000
Ph+MeAc	1.07050e-11	1.000000	1.07050e-11	1.000000
rad5	1.06062e-11	1.000000	1.06062e-11	1.000000
rad4	9.08237e-12	1.000000	9.08237e-12	1.000000
Ph+Allene	3.56842e-12	1.000000	3.56842e-12	1.000000
PhCCH+CH3	1.80372e-12	1.000000	1.80372e-12	1.000000
PhCH2CCH+H	1.02411e-12	1.000000	1.02411e-12	1.000000
rad30	9.68442e-13	1.000000	9.68442e-13	1.000000
rad25	8.28715e-13	1.000000	8.28715e-13	1.000000
rad27	3.84685e-13	1.000000	3.84685e-13	1.000000
rad13	1.13977e-13	1.000000	1.13977e-13	1.000000
rad24	3.70593e-14	1.000000	3.70593e-14	1.000000
rad37	8.46813e-15	1.000000	8.46813e-15	1.000000
rad14	7.67260e-15	1.000000	7.67260e-15	1.000000
rad60syn	7.40682e-15	1.000000	7.40682e-15	1.000000
PAH3+H	6.81199e-15	1.000000	6.81199e-15	1.000000
rad28	4.31265e-15	1.000000	4.31265e-15	1.000000
rad60anti	3.82323e-15	1.000000	3.82323e-15	1.000000
PAH7+H	1.87978e-15	1.000000	1.87978e-15	1.000000
rad59	1.22052e-15	1.000000	1.22052e-15	1.000000
rad33	3.93861e-16	1.000000	3.93861e-16	1.000000
rad38	1.75295e-16	1.000000	1.75295e-16	1.000000
PAH10+CH3	1.14268e-16	1.000000	1.14268e-16	1.000000
rad43	1.06421e-17	1.000000	1.06421e-17	1.000000
rad46	9.02276e-18	1.000000	9.02276e-18	1.000000
PAH9+H	7.14258e-18	1.000000	7.14258e-18	1.000000
rad8	6.40213e-18	1.000000	6.40213e-18	1.000000
rad70	1.59951e-18	1.000000	1.59951e-18	1.000000
rad31	1.53726e-18	1.000000	1.53726e-18	1.000000
rad58	1.41396e-18	1.000000	1.41396e-18	1.000000
rad50	2.28960e-19	1.000000	2.28960e-19	1.000000
rad62	1.49673e-19	1.000000	1.49673e-19	1.000000
rad39	1.19683e-19	1.000000	1.19683e-19	1.000000
PAH1+H	1.05528e-19	1.000000	1.05528e-19	1.000000
rad34	8.22355e-20	1.000000	8.22355e-20	1.000000
rad41	1.54805e-20	1.000000	1.54805e-20	1.000000
rad54	1.17194e-20	1.000000	1.17194e-20	1.000000
rad19syn	4.03150e-21	1.000000	4.03150e-21	1.000000
rad52	3.89738e-21	1.000000	3.89738e-21	1.000000
rad51	2.91314e-21	1.000000	2.91314e-21	1.000000
rad42	4.92144e-22	1.000000	4.92144e-22	1.000000
rad55	2.75994e-22	1.000000	2.75994e-22	1.000000
rad61	6.68385e-23	1.000000	6.68385e-23	1.000000
rad68syn	7.12866e-24	1.000000	7.12866e-24	1.000000
rad68anti	5.14131e-24	1.000000	5.14131e-24	1.000000
rad47	4.51475e-24	1.000000	4.51475e-24	1.000000
rad65	2.58623e-24	1.000000	2.58623e-24	1.000000
rad53	6.45781e-25	1.000000	6.45781e-25	1.000000
rad40syn	2.66258e-25	1.000000	2.66258e-25	1.000000
rad40anti	2.07264e-25	1.000000	2.07264e-25	1.000000
PAH8+H	1.02196e-25	1.000000	1.02196e-25	1.000000
rad56	2.38998e-26	1.000000	2.38998e-26	1.000000
rad64	2.39630e-27	1.000000	2.39630e-27	1.000000
rad73	9.46881e-28	1.000000	9.46881e-28	1.000000
rad71	2.26988e-29	1.000000	2.26988e-29	1.000000

1000000.00 Pa, 400.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.29463e-13 (1.00)	1.29463e-13 (1.00)
Formation of rad19	1.28526e-13 (0.993)	1.28526e-13 (0.993)
H-abstraction to cyc2enyl	9.19357e-16 (0.00710)	9.19357e-16 (0.00710)
H-abstraction to cyclenyl	1.69485e-17 (0.000131)	1.69485e-17 (0.000131)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.973770	0.973770	0.973770	0.973770
rad19anti	0.0126688	0.986439	0.0126688	0.986439
Benzene+cycloprop-2-enylidene	0.00710133	0.993540	0.00710133	0.993540
rad15	0.00403433	0.997575	0.00403433	0.997575
Indene+H	0.00228419	0.999859	0.00228419	0.999859
Benzene+cycloprop-1-enylidene	0.000130914	0.999990	0.000130914	0.999990
PhCHCCH2+H	8.06725e-06	0.999998	8.06725e-06	0.999998
rad12	6.55032e-07	0.999998	6.55032e-07	0.999998
rad2	3.07722e-07	0.999999	3.07722e-07	0.999999
rad6	2.83457e-07	0.999999	2.83457e-07	0.999999
rad11	2.21270e-07	0.999999	2.21270e-07	0.999999
C2H2+PhCH2	9.21227e-08	0.999999	9.21227e-08	0.999999
rad26	6.26939e-08	0.999999	6.26939e-08	0.999999
Ph+MeAc	5.01331e-08	0.999999	5.01331e-08	0.999999
PhcycC3H3_A+H	4.76867e-08	1.000000	4.76867e-08	1.000000
rad67	4.46058e-08	1.000000	4.46058e-08	1.000000
rad22	4.23266e-08	1.000000	4.23266e-08	1.000000
rad1	3.40197e-08	1.000000	3.40197e-08	1.000000
PhCCCH3+H	2.96940e-08	1.000000	2.96940e-08	1.000000
rad45	2.34434e-08	1.000000	2.34434e-08	1.000000
rad10	2.11849e-08	1.000000	2.11849e-08	1.000000
rad18	1.89784e-08	1.000000	1.89784e-08	1.000000
rad35	1.67664e-08	1.000000	1.67664e-08	1.000000
PhCCH+CH3	1.61133e-08	1.000000	1.61133e-08	1.000000
rad23	1.47843e-08	1.000000	1.47843e-08	1.000000
PhcycC3H3_B+H	1.15354e-08	1.000000	1.15354e-08	1.000000
Ph+Allene	9.53840e-09	1.000000	9.53840e-09	1.000000
PhCH2CCH+H	6.54820e-09	1.000000	6.54820e-09	1.000000
rad7	3.07571e-09	1.000000	3.07571e-09	1.000000
rad20	2.70494e-09	1.000000	2.70494e-09	1.000000
rad3	2.26286e-09	1.000000	2.26286e-09	1.000000
rad21	2.17860e-09	1.000000	2.17860e-09	1.000000
rad4	1.33421e-09	1.000000	1.33421e-09	1.000000
rad36	9.74734e-10	1.000000	9.74734e-10	1.000000
rad5	9.50340e-10	1.000000	9.50340e-10	1.000000
rad30	3.57878e-10	1.000000	3.57878e-10	1.000000
Phenyl+cycC3H4	2.25486e-10	1.000000	0.000000	1.000000
rad37	1.13903e-10	1.000000	1.13903e-10	1.000000
rad28	6.79276e-11	1.000000	6.79276e-11	1.000000
PAH3+H	3.86118e-11	1.000000	3.86118e-11	1.000000
rad25	3.40089e-11	1.000000	3.40089e-11	1.000000
PAH10+CH3	3.15191e-11	1.000000	3.15191e-11	1.000000
PAH7+H	2.97209e-11	1.000000	2.97209e-11	1.000000
rad13	2.01198e-11	1.000000	2.01198e-11	1.000000
rad27	1.85267e-11	1.000000	1.85267e-11	1.000000
rad38	1.41673e-11	1.000000	1.41673e-11	1.000000
PAH9+H	1.30728e-11	1.000000	1.30728e-11	1.000000
rad60syn	9.90333e-12	1.000000	9.90333e-12	1.000000
rad60anti	5.66828e-12	1.000000	5.66828e-12	1.000000
rad59	5.01634e-12	1.000000	5.01634e-12	1.000000
rad14	3.77066e-12	1.000000	3.77066e-12	1.000000
rad19syn	2.55606e-12	1.000000	2.55606e-12	1.000000
rad46	1.98672e-12	1.000000	1.98672e-12	1.000000
rad43	1.37563e-12	1.000000	1.37563e-12	1.000000
rad39	1.36489e-12	1.000000	1.36489e-12	1.000000
rad50	7.64246e-13	1.000000	7.64246e-13	1.000000
rad70	3.29052e-13	1.000000	3.29052e-13	1.000000
rad24	3.23414e-13	1.000000	3.23414e-13	1.000000
PAH1+H	1.98826e-13	1.000000	1.98826e-13	1.000000
rad51	1.25058e-13	1.000000	1.25058e-13	1.000000
rad62	1.02801e-13	1.000000	1.02801e-13	1.000000
rad58	8.57910e-14	1.000000	8.57910e-14	1.000000
rad54	7.34855e-14	1.000000	7.34855e-14	1.000000
rad33	7.30367e-14	1.000000	7.30367e-14	1.000000
rad52	4.98142e-14	1.000000	4.98142e-14	1.000000
rad34	4.71822e-14	1.000000	4.71822e-14	1.000000
rad41	2.49858e-14	1.000000	2.49858e-14	1.000000
rad61	5.80074e-15	1.000000	5.80074e-15	1.000000
rad55	3.95305e-15	1.000000	3.95305e-15	1.000000

rad65	2.89042e-15	1.000000	2.89042e-15	1.000000
rad42	2.47234e-15	1.000000	2.47234e-15	1.000000
rad8	1.52871e-15	1.000000	1.52871e-15	1.000000
rad31	1.20275e-15	1.000000	1.20275e-15	1.000000
PAH8+H	8.45441e-16	1.000000	8.45441e-16	1.000000
rad73	8.38094e-16	1.000000	8.38094e-16	1.000000
rad71	8.31786e-16	1.000000	8.31786e-16	1.000000
rad68syn	4.99113e-16	1.000000	4.99113e-16	1.000000
rad68anti	3.33527e-16	1.000000	3.33527e-16	1.000000
rad53	3.20085e-16	1.000000	3.20085e-16	1.000000
rad40syn	2.71176e-16	1.000000	2.71176e-16	1.000000
rad40anti	2.23778e-16	1.000000	2.23778e-16	1.000000
rad56	1.73180e-16	1.000000	1.73180e-16	1.000000
rad64	1.06372e-16	1.000000	1.06372e-16	1.000000
rad72	1.40461e-17	1.000000	1.40461e-17	1.000000
rad47	3.27474e-19	1.000000	3.27474e-19	1.000000

1000000.00 Pa, 500.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.52837e-13 (1.00)	2.52837e-13 (1.00)
Formation of rad19	2.47941e-13 (0.981)	2.47941e-13 (0.981)
H-abstraction to cyc2enyl	4.69058e-15 (0.0186)	4.69058e-15 (0.0186)
H-abstraction to cyclenyl	2.05381e-16 (0.000812)	2.05381e-16 (0.000812)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.956597	0.956597	0.956597	0.956597
Benzene+cycloprop-2-enylidene	0.0185518	0.975148	0.0185518	0.975148
Indene+H	0.0141918	0.989340	0.0141918	0.989340
rad19anti	0.00488006	0.994220	0.00488006	0.994220
rad15	0.00448527	0.998705	0.00448527	0.998705
Benzene+cycloprop-1-enylidene	0.000812306	0.999518	0.000812306	0.999518
PhCHCCH2+H	0.000408715	0.999926	0.000408715	0.999926
rad6	1.59479e-05	0.999942	1.59479e-05	0.999942
Ph+MeAc	1.04250e-05	0.999953	1.04250e-05	0.999953
C2H2+PhCH2	9.97493e-06	0.999963	9.97493e-06	0.999963
PhCCCH3+H	4.92027e-06	0.999968	4.92027e-06	0.999968
Ph+Allene	4.18956e-06	0.999972	4.18956e-06	0.999972
rad67	4.14718e-06	0.999976	4.14718e-06	0.999976
PhcycC3H3_A+H	3.42115e-06	0.999980	3.42115e-06	0.999980
PhCH2CCH+H	3.30606e-06	0.999983	3.30606e-06	0.999983
rad2	3.04042e-06	0.999986	3.04042e-06	0.999986
PhCCH+CH3	2.40590e-06	0.999988	2.40590e-06	0.999988
PhcycC3H3_B+H	2.04570e-06	0.999990	2.04570e-06	0.999990
rad26	1.94102e-06	0.999992	1.94102e-06	0.999992
rad35	1.50075e-06	0.999994	1.50075e-06	0.999994
rad11	1.25790e-06	0.999995	1.25790e-06	0.999995
rad12	1.10993e-06	0.999996	1.10993e-06	0.999996
rad45	1.06707e-06	0.999997	1.06707e-06	0.999997
rad23	8.54507e-07	0.999998	8.54507e-07	0.999998
rad10	6.07272e-07	0.999999	6.07272e-07	0.999999
rad1	4.19367e-07	0.999999	4.19367e-07	0.999999
rad22	3.18902e-07	0.999999	3.18902e-07	0.999999
rad37	1.33060e-07	1.000000	1.33060e-07	1.000000
PAH10+CH3	1.12374e-07	1.000000	1.12374e-07	1.000000
rad7	6.80697e-08	1.000000	6.80697e-08	1.000000
PAH7+H	6.03456e-08	1.000000	6.03456e-08	1.000000
rad36	5.24451e-08	1.000000	5.24451e-08	1.000000
rad30	4.83237e-08	1.000000	4.83237e-08	1.000000
PAH9+H	4.76562e-08	1.000000	4.76562e-08	1.000000
rad18	3.70696e-08	1.000000	3.70696e-08	1.000000
rad38	3.69211e-08	1.000000	3.69211e-08	1.000000
rad28	3.11079e-08	1.000000	3.11079e-08	1.000000
rad3	2.78303e-08	1.000000	2.78303e-08	1.000000
PAH3+H	2.59265e-08	1.000000	2.59265e-08	1.000000
rad4	1.72491e-08	1.000000	1.72491e-08	1.000000
rad19syn	1.60139e-08	1.000000	1.60139e-08	1.000000
rad39	1.01661e-08	1.000000	1.01661e-08	1.000000
rad20	9.44588e-09	1.000000	9.44588e-09	1.000000
rad5	9.43214e-09	1.000000	9.43214e-09	1.000000
rad21	7.99966e-09	1.000000	7.99966e-09	1.000000
rad46	7.57769e-09	1.000000	7.57769e-09	1.000000
rad50	6.72282e-09	1.000000	6.72282e-09	1.000000
Phenyl+cycC3H4	3.92877e-09	1.000000	0.000000	1.000000
rad60syn	3.10314e-09	1.000000	3.10314e-09	1.000000
rad59	2.79998e-09	1.000000	2.79998e-09	1.000000
rad51	1.92261e-09	1.000000	1.92261e-09	1.000000
rad60anti	1.87929e-09	1.000000	1.87929e-09	1.000000

PAH1+H	1.31543e-09	1.00000	1.31543e-09	1.00000
rad43	9.40323e-10	1.00000	9.40323e-10	1.00000
rad13	9.15444e-10	1.00000	9.15444e-10	1.00000
rad54	6.64383e-10	1.00000	6.64383e-10	1.00000
rad52	5.77598e-10	1.00000	5.77598e-10	1.00000
rad70	5.47942e-10	1.00000	5.47942e-10	1.00000
rad25	2.17160e-10	1.00000	2.17160e-10	1.00000
rad27	1.73230e-10	1.00000	1.73230e-10	1.00000
rad58	1.62135e-10	1.00000	1.62135e-10	1.00000
rad34	1.14046e-10	1.00000	1.14046e-10	1.00000
rad61	8.40738e-11	1.00000	8.40738e-11	1.00000
rad71	5.81451e-11	1.00000	5.81451e-11	1.00000
rad62	5.73899e-11	1.00000	5.73899e-11	1.00000
rad65	5.03223e-11	1.00000	5.03223e-11	1.00000
rad14	4.70883e-11	1.00000	4.70883e-11	1.00000
rad55	4.45383e-11	1.00000	4.45383e-11	1.00000
rad73	4.31927e-11	1.00000	4.31927e-11	1.00000
rad41	3.99142e-11	1.00000	3.99142e-11	1.00000
PAH8+H	1.47089e-11	1.00000	1.47089e-11	1.00000
rad53	8.34396e-12	1.00000	8.34396e-12	1.00000
rad56	7.10154e-12	1.00000	7.10154e-12	1.00000
rad68syn	4.44535e-12	1.00000	4.44535e-12	1.00000
rad33	4.20478e-12	1.00000	4.20478e-12	1.00000
rad64	4.13289e-12	1.00000	4.13289e-12	1.00000
rad68anti	2.91871e-12	1.00000	2.91871e-12	1.00000
rad42	2.84588e-12	1.00000	2.84588e-12	1.00000
rad40syn	2.82540e-12	1.00000	2.82540e-12	1.00000
rad24	2.32757e-12	1.00000	2.32757e-12	1.00000
rad40anti	2.22999e-12	1.00000	2.22999e-12	1.00000
rad72	1.81052e-12	1.00000	1.81052e-12	1.00000
rad31	6.25450e-13	1.00000	6.25450e-13	1.00000
rad8	3.35604e-14	1.00000	3.35604e-14	1.00000
rad47	1.46361e-14	1.00000	1.46361e-14	1.00000

1000000.00 Pa, 600.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.35570e-13 (1.00)	4.35570e-13 (1.00)
Formation of rad19	4.18892e-13 (0.962)	4.18892e-13 (0.962)
H-abstraction to cyc2enyl	1.54751e-14 (0.0355)	1.54751e-14 (0.0355)
H-abstraction to cyclenyl	1.20343e-15 (0.00276)	1.20343e-15 (0.00276)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.840502	0.840502	0.840502	0.840502
Indene+H	0.0973961	0.937898	0.0973961	0.937898
Benzene+cycloprop-2-enylidene	0.0355285	0.973426	0.0355285	0.973426
PhCHCCH2+H	0.0145824	0.988009	0.0145824	0.988009
rad15	0.00412241	0.992131	0.00412241	0.992131
Benzene+cycloprop-1-enylidene	0.00276289	0.994894	0.00276289	0.994894
rad19anti	0.00219118	0.997085	0.00219118	0.997085
Ph+MeAc	0.000482720	0.997568	0.000482720	0.997568
C2H2+PhCH2	0.000452572	0.998020	0.000452572	0.998020
Ph+Allene	0.000352232	0.998373	0.000352232	0.998373
PhCH2CCH+H	0.000277547	0.998650	0.000277547	0.998650
rad6	0.000249353	0.998899	0.000249353	0.998899
PhcycC3H3_A+H	0.000197004	0.999096	0.000197004	0.999096
PhCCCH3+H	0.000195845	0.999292	0.000195845	0.999292
PhcycC3H3_B+H	0.000195667	0.999488	0.000195667	0.999488
rad67	0.000185871	0.999674	0.000185871	0.999674
PhCCH+CH3	0.000110663	0.999785	0.000110663	0.999785
rad35	6.70613e-05	0.999852	6.70613e-05	0.999852
rad45	2.30215e-05	0.999875	2.30215e-05	0.999875
rad26	1.81003e-05	0.999893	1.81003e-05	0.999893
PAH10+CH3	1.73772e-05	0.999910	1.73772e-05	0.999910
rad2	1.69809e-05	0.999927	1.69809e-05	0.999927
rad23	1.21960e-05	0.999939	1.21960e-05	0.999939
rad37	1.13913e-05	0.999951	1.13913e-05	0.999951
PAH7+H	7.79286e-06	0.999958	7.79286e-06	0.999958
PAH9+H	5.51699e-06	0.999964	5.51699e-06	0.999964
rad38	4.33823e-06	0.999968	4.33823e-06	0.999968
rad10	3.90431e-06	0.999972	3.90431e-06	0.999972
rad11	3.59887e-06	0.999976	3.59887e-06	0.999976
rad12	3.33856e-06	0.999979	3.33856e-06	0.999979
PAH3+H	3.31137e-06	0.999982	3.31137e-06	0.999982
rad1	2.79006e-06	0.999985	2.79007e-06	0.999985
rad30	2.67020e-06	0.999988	2.67020e-06	0.999988
rad19syn	1.57893e-06	0.999989	1.57894e-06	0.999989
rad36	1.41134e-06	0.999991	1.41134e-06	0.999991

rad39	1.38696e-06	0.999992	1.38696e-06	0.999992
rad7	1.01565e-06	0.999993	1.01565e-06	0.999993
rad50	1.01562e-06	0.999994	1.01562e-06	0.999994
rad22	9.41185e-07	0.999995	9.41185e-07	0.999995
rad46	9.33562e-07	0.999996	9.33562e-07	0.999996
rad28	8.04056e-07	0.999997	8.04056e-07	0.999997
rad51	3.25886e-07	0.999997	3.25886e-07	0.999997
rad59	3.20851e-07	0.999998	3.20851e-07	0.999998
PAH1+H	2.98410e-07	0.999998	2.98410e-07	0.999998
rad60syn	2.69356e-07	0.999998	2.69356e-07	0.999998
rad60anti	1.67809e-07	0.999998	1.67809e-07	0.999998
rad3	1.55137e-07	0.999999	1.55137e-07	0.999999
rad54	1.40448e-07	0.999999	1.40448e-07	0.999999
Phenyl+cycC3H4	1.06456e-07	0.999999	0.00000	0.999999
rad4	1.01437e-07	0.999999	1.01437e-07	0.999999
rad52	9.22783e-08	0.999999	9.22783e-08	0.999999
rad43	9.10576e-08	0.999999	9.10576e-08	0.999999
rad70	8.01302e-08	0.999999	8.01302e-08	0.999999
rad18	5.22677e-08	0.999999	5.22677e-08	0.999999
rad58	3.27215e-08	0.999999	3.27215e-08	0.999999
rad5	2.57547e-08	0.999999	2.57548e-08	0.999999
rad61	2.55665e-08	0.999999	2.55665e-08	0.999999
rad20	2.36699e-08	0.999999	2.36699e-08	0.999999
rad21	2.12817e-08	0.999999	2.12817e-08	0.999999
rad34	2.00165e-08	0.999999	2.00165e-08	0.999999
rad13	1.41746e-08	0.999999	1.41746e-08	0.999999
rad71	1.26891e-08	0.999999	1.26891e-08	0.999999
rad55	1.03732e-08	0.999999	1.03732e-08	0.999999
rad73	8.99079e-09	0.999999	8.99079e-09	0.999999
rad65	8.70397e-09	0.999999	8.70397e-09	0.999999
PAH8+H	6.65666e-09	0.999999	6.65666e-09	0.999999
rad41	6.27110e-09	0.999999	6.27110e-09	0.999999
rad62	5.31186e-09	0.999999	5.31186e-09	0.999999
rad56	2.92496e-09	0.999999	2.92496e-09	0.999999
rad53	2.83908e-09	0.999999	2.83908e-09	0.999999
rad68syn	1.38424e-09	0.999999	1.38424e-09	0.999999
rad64	1.23170e-09	0.999999	1.23170e-09	0.999999
rad40syn	1.05907e-09	0.999999	1.05907e-09	0.999999
rad68anti	9.02085e-10	0.999999	9.02085e-10	0.999999
rad40anti	8.44925e-10	0.999999	8.44925e-10	0.999999
rad25	6.58790e-10	0.999999	6.58790e-10	0.999999
rad27	6.46282e-10	0.999999	6.46282e-10	0.999999
rad72	4.31358e-10	0.999999	4.31358e-10	0.999999
rad42	4.01712e-10	0.999999	4.01712e-10	0.999999
rad14	1.85816e-10	0.999999	1.85816e-10	0.999999
rad47	1.62088e-10	0.999999	1.62088e-10	0.999999
rad31	1.49519e-10	0.999999	1.49519e-10	0.999999
rad33	8.35844e-11	0.999999	8.35844e-11	0.999999
rad24	3.85842e-11	0.999999	3.85842e-11	0.999999
rad8	9.99821e-13	0.999999	9.99821e-13	0.999999

1000000.00 Pa, 700.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.91694e-13 (1.00)	6.91692e-13 (1.00)
Formation of rad19	6.47922e-13 (0.937)	6.47921e-13 (0.937)
H-abstraction to cyc2enyl	3.91858e-14 (0.0567)	3.91858e-14 (0.0567)
H-abstraction to cyclenyl	4.58543e-15 (0.00663)	4.58541e-15 (0.00663)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.551010	0.551010	0.551012	0.551012
Indene+H	0.272055	0.823065	0.272056	0.823067
PhCHCCH2+H	0.0911465	0.914211	0.0911467	0.914214
Benzene+cycloprop-2-enylidene	0.0566520	0.970863	0.0566521	0.970866
Benzene+cycloprop-1-enylidene	0.00662927	0.977493	0.00662927	0.977496
Ph+MeAc	0.00318006	0.980673	0.00318007	0.980676
C2H2+PhCH2	0.00302819	0.983701	0.00302820	0.983704
Ph+Allene	0.00279138	0.986492	0.00279139	0.986495
PhCH2CCH+H	0.00225625	0.988748	0.00225626	0.988752
rad15	0.00220055	0.990949	0.00220056	0.990952
PhcycC3H3_B+H	0.00152307	0.992472	0.00152308	0.992475
PhcycC3H3_A+H	0.00136921	0.993841	0.00136921	0.993844
rad67	0.00125394	0.995095	0.00125394	0.995098
PhCCCH3+H	0.00119964	0.996295	0.00119965	0.996298
rad19anti	0.00101060	0.997305	0.00101060	0.997309
PhCCH+CH3	0.000771648	0.998077	0.000771650	0.998080
rad6	0.000652416	0.998729	0.000652418	0.998733
rad35	0.000452734	0.999182	0.000452735	0.999185

PAH10+CH3	0.000167538	0.999350	0.000167539	0.999353
rad45	0.000133218	0.999483	0.000133218	0.999486
rad37	8.48596e-05	0.999568	8.48599e-05	0.999571
PAH7+H	6.48799e-05	0.999633	6.48800e-05	0.999636
rad23	5.87254e-05	0.999691	5.87256e-05	0.999695
PAH9+H	4.21125e-05	0.999734	4.21126e-05	0.999737
rad2	4.14598e-05	0.999775	4.14599e-05	0.999778
rad38	3.47991e-05	0.999810	3.47992e-05	0.999813
PAH3+H	3.29854e-05	0.999843	3.29855e-05	0.999846
rad26	3.23053e-05	0.999875	3.23054e-05	0.999878
rad30	1.95895e-05	0.999895	1.95896e-05	0.999898
rad12	1.28021e-05	0.999907	1.28021e-05	0.999911
rad39	1.10050e-05	0.999918	1.10050e-05	0.999922
rad36	1.06281e-05	0.999929	1.06281e-05	0.999932
rad19syn	8.99403e-06	0.999938	8.99404e-06	0.999941
rad50	7.98947e-06	0.999946	7.98950e-06	0.999949
rad1	7.97327e-06	0.999954	7.97329e-06	0.999957
rad46	7.09911e-06	0.999961	7.09913e-06	0.999964
rad10	6.32723e-06	0.999967	6.32724e-06	0.999971
rad11	4.74071e-06	0.999972	4.74072e-06	0.999975
PAH1+H	3.28517e-06	0.999976	3.28518e-06	0.999979
rad59	3.07421e-06	0.999979	3.07422e-06	0.999982
rad7	2.62937e-06	0.999981	2.62938e-06	0.999984
rad51	2.61112e-06	0.999984	2.61113e-06	0.999987
Phenyl+cycC3H4	2.56395e-06	0.999986	0.00000	0.999987
rad60syn	2.34595e-06	0.999989	2.34596e-06	0.999992
rad28	2.29805e-06	0.999991	2.29806e-06	0.999992
rad60anti	1.47634e-06	0.999993	1.47635e-06	0.999993
rad54	1.41625e-06	0.999994	1.41625e-06	0.999995
rad22	1.26734e-06	0.999995	1.26735e-06	0.999996
rad43	8.06031e-07	0.999996	8.06034e-07	0.999997
rad70	7.93583e-07	0.999997	7.93585e-07	0.999997
rad52	7.31795e-07	0.999998	7.31796e-07	0.999998
rad58	3.74976e-07	0.999998	3.74977e-07	0.999999
rad61	3.12293e-07	0.999998	3.12293e-07	0.999999
rad3	3.02038e-07	0.999999	3.02039e-07	0.999999
rad4	2.13766e-07	0.999999	2.13767e-07	0.999999
rad34	2.11146e-07	0.999999	2.11147e-07	1.000000
rad55	1.08657e-07	0.999999	1.08658e-07	1.000000
rad71	1.05060e-07	0.999999	1.05060e-07	1.000000
PAH8+H	9.35005e-08	0.999999	9.35007e-08	1.000000
rad73	7.37606e-08	0.999999	7.37608e-08	1.000000
rad65	7.15904e-08	0.999999	7.15906e-08	1.000000
rad41	6.58388e-08	0.999999	6.58390e-08	1.000000
rad18	4.73455e-08	1.000000	4.73456e-08	1.000000
rad62	4.61329e-08	1.000000	4.61330e-08	1.000000
rad13	4.32510e-08	1.000000	4.32511e-08	1.000000
rad21	3.92747e-08	1.000000	3.92748e-08	1.000000
rad20	3.88518e-08	1.000000	3.88519e-08	1.000000
rad56	3.75289e-08	1.000000	3.75290e-08	1.000000
rad53	3.42037e-08	1.000000	3.42038e-08	1.000000
rad5	2.32023e-08	1.000000	2.32023e-08	1.000000
rad68syn	1.74109e-08	1.000000	1.74110e-08	1.000000
rad40syn	1.42128e-08	1.000000	1.42128e-08	1.000000
rad64	1.39849e-08	1.000000	1.39849e-08	1.000000
rad47	1.37111e-08	1.000000	1.37112e-08	1.000000
rad40anti	1.14101e-08	1.000000	1.14102e-08	1.000000
rad68anti	1.13222e-08	1.000000	1.13222e-08	1.000000
rad31	4.20350e-09	1.000000	4.20351e-09	1.000000
rad42	4.03962e-09	1.000000	4.03963e-09	1.000000
rad72	3.64212e-09	1.000000	3.64213e-09	1.000000
rad27	1.12159e-09	1.000000	1.12159e-09	1.000000
rad25	1.00916e-09	1.000000	1.00916e-09	1.000000
rad24	7.52832e-10	1.000000	7.52834e-10	1.000000
rad33	4.26365e-10	1.000000	4.26366e-10	1.000000
rad14	2.98855e-10	1.000000	2.98856e-10	1.000000
rad8	2.65262e-11	1.000000	2.65263e-11	1.000000

1000000.00 Pa, 800.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.03759e-12 (1.00)	1.03758e-12 (1.00)
Formation of rad19	9.41065e-13 (0.907)	9.41055e-13 (0.907)
H-abstraction to cyc2enyl	8.32953e-14 (0.0803)	8.32953e-14 (0.0803)
H-abstraction to cyclenyl	1.32261e-14 (0.0127)	1.32260e-14 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.359951	0.359951	0.359955	0.359955

Indene+H	0.324297	0.684248	0.324300	0.684254
PhCHCCH2+H	0.182346	0.866594	0.182347	0.866601
Benzene+cycloprop-2-enylidene	0.0802780	0.946872	0.0802787	0.946880
Benzene+cycloprop-1-enylidene	0.0127470	0.959619	0.0127470	0.959627
Ph+MeAc	0.00650341	0.966122	0.00650348	0.966130
C2H2+PhCH2	0.00626262	0.972385	0.00626268	0.972393
Ph+Allene	0.00614070	0.978525	0.00614076	0.978534
PhCH2CCH+H	0.00516335	0.983689	0.00516340	0.983697
PhcycC3H3_B+H	0.00271997	0.986409	0.00272000	0.986417
rad67	0.00261514	0.989024	0.00261517	0.989032
PhcycC3H3_A+H	0.00237515	0.991399	0.00237518	0.991408
PhCCCH3+H	0.00234127	0.993740	0.00234130	0.993749
PhCCH+CH3	0.00165722	0.995398	0.00165723	0.995406
rad35	0.000945385	0.996343	0.000945394	0.996352
rad15	0.000762310	0.997105	0.000762317	0.997114
rad19anti	0.000652062	0.997757	0.000652069	0.997766
rad6	0.000528427	0.998286	0.000528432	0.998294
PAH10+CH3	0.000419445	0.998705	0.000419449	0.998714
rad45	0.000271188	0.998976	0.000271191	0.998985
rad37	0.000178286	0.999155	0.000178288	0.999163
PAH7+H	0.000143616	0.999298	0.000143617	0.999307
rad23	0.000105876	0.999404	0.000105877	0.999413
PAH9+H	9.20825e-05	0.999496	9.20833e-05	0.999505
PAH3+H	8.69562e-05	0.999583	8.69571e-05	0.999592
rad38	7.80496e-05	0.999661	7.80503e-05	0.999670
rad12	5.58386e-05	0.999717	5.58391e-05	0.999726
rad30	4.29604e-05	0.999760	4.29608e-05	0.999769
rad2	4.27025e-05	0.999803	4.27029e-05	0.999811
rad36	2.70624e-05	0.999830	2.70627e-05	0.999838
rad39	2.34352e-05	0.999853	2.34354e-05	0.999862
rad26	2.02894e-05	0.999874	2.02896e-05	0.999882
rad50	1.77059e-05	0.999891	1.77060e-05	0.999900
rad46	1.54163e-05	0.999907	1.54165e-05	0.999915
rad19syn	1.45096e-05	0.999921	1.45098e-05	0.999930
rad1	1.01104e-05	0.999931	1.01105e-05	0.999940
Phenyl+cycC3H4	9.30756e-06	0.999941	0.000000	0.999940
PAH1+H	8.94873e-06	0.999950	8.94882e-06	0.999949
rad59	7.91358e-06	0.999957	7.91366e-06	0.999957
rad51	5.85485e-06	0.999963	5.85491e-06	0.999963
rad60syn	5.70791e-06	0.999969	5.70797e-06	0.999968
rad10	4.50165e-06	0.999974	4.50169e-06	0.999973
rad60anti	3.61375e-06	0.999977	3.61378e-06	0.999976
rad54	3.50434e-06	0.999981	3.50438e-06	0.999980
rad11	3.34121e-06	0.999984	3.34125e-06	0.999983
rad7	2.18921e-06	0.999986	2.18923e-06	0.999985
rad70	2.05300e-06	0.999988	2.05302e-06	0.999988
rad43	1.94686e-06	0.999990	1.94687e-06	0.999989
rad28	1.89064e-06	0.999992	1.89066e-06	0.999991
rad52	1.63005e-06	0.999994	1.63007e-06	0.999993
rad22	1.17681e-06	0.999995	1.17683e-06	0.999994
rad58	1.07305e-06	0.999996	1.07306e-06	0.999995
rad61	9.09759e-07	0.999997	9.09768e-07	0.999996
rad34	5.68456e-07	0.999997	5.68461e-07	0.999997
PAH8+H	2.98306e-07	0.999998	2.98308e-07	0.999997
rad55	2.76563e-07	0.999998	2.76565e-07	0.999997
rad3	2.74774e-07	0.999998	2.74777e-07	0.999998
rad71	2.42021e-07	0.999999	2.42023e-07	0.999998
rad4	2.12832e-07	0.999999	2.12834e-07	0.999998
rad41	1.75387e-07	0.999999	1.75389e-07	0.999998
rad73	1.68663e-07	0.999999	1.68665e-07	0.999998
rad65	1.64549e-07	0.999999	1.64550e-07	0.999999
rad56	1.10621e-07	0.999999	1.10623e-07	0.999999
rad62	1.09181e-07	0.999999	1.09182e-07	0.999999
rad53	9.64232e-08	1.000000	9.64241e-08	0.999999
rad21	7.39762e-08	1.000000	7.39770e-08	0.999999
rad47	6.34807e-08	1.000000	6.34814e-08	0.999999
rad20	6.08461e-08	1.000000	6.08466e-08	0.999999
rad13	5.55227e-08	1.000000	5.55232e-08	0.999999
rad68syn	5.22987e-08	1.000000	5.22992e-08	0.999999
rad40syn	4.39842e-08	1.000000	4.39846e-08	0.999999
rad64	3.87168e-08	1.000000	3.87171e-08	0.999999
rad40anti	3.53644e-08	1.000000	3.53647e-08	0.999999
rad18	3.41735e-08	1.000000	3.41738e-08	0.999999
rad68anti	3.39641e-08	1.000000	3.39645e-08	0.999999
rad31	1.77070e-08	1.000000	1.77071e-08	0.999999
rad5	1.08398e-08	1.000000	1.08400e-08	0.999999
rad42	1.04209e-08	1.000000	1.04210e-08	0.999999
rad24	1.03259e-08	1.000000	1.03260e-08	0.999999
rad72	8.51777e-09	1.000000	8.51786e-09	0.999999
rad8	3.04961e-09	1.000000	3.04965e-09	0.999999

rad27	1.48245e-09	1.00000	1.48246e-09	0.999999
rad33	1.27185e-09	1.00000	1.27187e-09	0.999999
rad25	1.10597e-09	1.00000	1.10597e-09	0.999999
rad14	2.98327e-10	1.00000	2.98330e-10	0.999999

1000000.00 Pa, 900.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.49199e-12 (1.00)	1.49197e-12 (1.00)
Formation of rad19	1.30395e-12 (0.874)	1.30393e-12 (0.874)
H-abstraction to cyc2enyl	1.56554e-13 (0.105)	1.56554e-13 (0.105)
H-abstraction to cyclenyl	3.14892e-14 (0.0211)	3.14886e-14 (0.0211)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.314111	0.314111	0.314116	0.314116
rad9	0.285263	0.599374	0.285268	0.599383
PhCHCCH2+H	0.225660	0.825034	0.225663	0.825047
Benzene+cycloprop-2-enylidene	0.104929	0.929963	0.104931	0.929978
Benzene+cycloprop-1-enylidene	0.0211054	0.951068	0.0211054	0.951083
Ph+MeAc	0.00811617	0.959185	0.00811631	0.959200
C2H2+PhCH2	0.00785506	0.967040	0.00785519	0.967055
Ph+Allene	0.00783941	0.974879	0.00783954	0.974894
PhCH2CCH+H	0.00673867	0.981618	0.00673878	0.981633
rad67	0.00329209	0.984910	0.00329213	0.984925
PhcycC3H3_B+H	0.00291300	0.987823	0.00291305	0.987838
PhCCCH3+H	0.00285916	0.990682	0.00285921	0.990698
PhcycC3H3_A+H	0.00252111	0.993203	0.00252116	0.993219
PhCCH+CH3	0.00211310	0.995316	0.00211313	0.995332
rad35	0.00119137	0.996508	0.00119139	0.996523
PAH10+CH3	0.000565399	0.997073	0.000565409	0.997089
rad19anti	0.000483612	0.997557	0.000483620	0.997572
rad6	0.000342286	0.997899	0.000342291	0.997915
rad45	0.000341571	0.998240	0.000341576	0.998256
rad15	0.000338231	0.998579	0.000338237	0.998594
rad12	0.000232634	0.998811	0.000232638	0.998827
rad37	0.000222099	0.999033	0.000222103	0.999049
PAH7+H	0.000183867	0.999217	0.000183869	0.999233
PAH3+H	0.000121008	0.999338	0.000121010	0.999354
PAH9+H	0.000120684	0.999459	0.000120686	0.999475
rad23	0.000111177	0.999570	0.000111179	0.999586
rad38	0.000102039	0.999672	0.000102041	0.999688
rad30	5.52528e-05	0.999727	5.52537e-05	0.999743
rad2	3.77325e-05	0.999765	3.77331e-05	0.999781
rad36	3.50660e-05	0.999800	3.50666e-05	0.999816
rad39	2.97246e-05	0.999830	2.97251e-05	0.999846
rad50	2.35822e-05	0.999854	2.35826e-05	0.999869
rad46	2.02269e-05	0.999874	2.02272e-05	0.999890
Phenyl+cycC3H4	1.57389e-05	0.999890	0.00000	0.999890
rad19syn	1.52079e-05	0.999905	1.52081e-05	0.999905
PAH1+H	1.25395e-05	0.999917	1.25397e-05	0.999917
rad26	1.12539e-05	0.999929	1.12541e-05	0.999929
rad1	1.10079e-05	0.999940	1.10080e-05	0.999940
rad59	1.08994e-05	0.999950	1.08995e-05	0.999950
rad51	7.86202e-06	0.999958	7.86214e-06	0.999958
rad60syn	7.67597e-06	0.999966	7.67609e-06	0.999966
rad60anti	4.87219e-06	0.999971	4.87227e-06	0.999971
rad54	4.68136e-06	0.999976	4.68143e-06	0.999976
rad10	3.10144e-06	0.999979	3.10149e-06	0.999979
rad70	2.82525e-06	0.999981	2.82530e-06	0.999981
rad43	2.59545e-06	0.999984	2.59549e-06	0.999984
rad11	2.47503e-06	0.999987	2.47508e-06	0.999987
rad52	2.17852e-06	0.999989	2.17855e-06	0.999989
rad58	1.54633e-06	0.999990	1.54636e-06	0.999990
rad7	1.52584e-06	0.999992	1.52586e-06	0.999992
rad61	1.31064e-06	0.999993	1.31066e-06	0.999993
rad22	1.22187e-06	0.999994	1.22190e-06	0.999994
rad28	1.21368e-06	0.999996	1.21371e-06	0.999996
rad34	7.96061e-07	0.999996	7.96073e-07	0.999996
PAH8+H	4.49491e-07	0.999997	4.49498e-07	0.999997
rad55	3.74427e-07	0.999997	3.74433e-07	0.999997
rad71	3.33282e-07	0.999997	3.33288e-07	0.999997
rad21	2.70254e-07	0.999998	2.70259e-07	0.999998
rad3	2.55127e-07	0.999998	2.55131e-07	0.999998
rad41	2.43631e-07	0.999998	2.43635e-07	0.999998
rad8	2.35146e-07	0.999998	2.35150e-07	0.999998
rad73	2.30995e-07	0.999999	2.30999e-07	0.999999
rad65	2.23152e-07	0.999999	2.23155e-07	0.999999
rad4	2.03360e-07	0.999999	2.03363e-07	0.999999

rad20	1.75401e-07	0.999999	1.75404e-07	0.999999
rad56	1.60459e-07	0.999999	1.60461e-07	0.999999
rad62	1.44414e-07	1.000000	1.44416e-07	1.000000
rad53	1.36981e-07	1.000000	1.36983e-07	1.000000
rad24	1.09944e-07	1.000000	1.09946e-07	1.000000
rad47	1.00072e-07	1.000000	1.00073e-07	1.000000
rad13	8.57140e-08	1.000000	8.57153e-08	1.000000
rad68syn	7.68457e-08	1.000000	7.68469e-08	1.000000
rad40syn	6.53269e-08	1.000000	6.53279e-08	1.000000
rad64	5.49387e-08	1.000000	5.49396e-08	1.000000
rad40anti	5.25312e-08	1.000000	5.25319e-08	1.000000
rad68anti	4.98758e-08	1.000000	4.98767e-08	1.000000
rad18	4.02351e-08	1.000000	4.02357e-08	1.000000
rad31	2.75823e-08	1.000000	2.75828e-08	1.000000
rad42	1.43038e-08	1.000000	1.43040e-08	1.000000
rad72	1.18550e-08	1.000000	1.18552e-08	1.000000
rad5	5.51044e-09	1.000000	5.51053e-09	1.000000
rad33	5.10729e-09	1.000000	5.10738e-09	1.000000
rad27	2.83702e-09	1.000000	2.83707e-09	1.000000
rad25	1.88885e-09	1.000000	1.88888e-09	1.000000
rad14	4.03275e-10	1.000000	4.03282e-10	1.000000

1000000.00 Pa, 1000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.07591e-12 (1.00)	2.07585e-12 (1.00)
Formation of rad19	1.74189e-12 (0.839)	1.74183e-12 (0.839)
H-abstraction to cyc2enyl	2.68753e-13 (0.129)	2.68753e-13 (0.129)
H-abstraction to cyclenyl	6.52627e-14 (0.0314)	6.52606e-14 (0.0314)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.294891	0.294891	0.294900	0.294900
rad9	0.262505	0.557397	0.262513	0.557413
PhCHCCH2+H	0.231570	0.788967	0.231577	0.788990
Benzene+cycloprop-2-enylidene	0.129463	0.918430	0.129467	0.918457
Benzene+cycloprop-1-enylidene	0.0314382	0.949868	0.0314380	0.949895
Ph+MeAc	0.00835322	0.958221	0.00835346	0.958249
Ph+Allene	0.00811803	0.966339	0.00811825	0.966367
C2H2+PhCH2	0.00809996	0.974439	0.00810019	0.974467
PhCH2CCH+H	0.00704543	0.981485	0.00704562	0.981513
rad67	0.00339951	0.984884	0.00339961	0.984912
PhCCCH3+H	0.00291623	0.987800	0.00291631	0.987829
PhcycC3H3_B+H	0.00266920	0.990470	0.00266928	0.990498
PhcycC3H3_A+H	0.00231373	0.992783	0.00231380	0.992812
PhCCH+CH3	0.00218830	0.994972	0.00218836	0.995000
rad35	0.00123102	0.996203	0.00123105	0.996231
rad12	0.000719562	0.996922	0.000719582	0.996951
PAH10+CH3	0.000596739	0.997519	0.000596756	0.997547
rad19anti	0.000372600	0.997892	0.000372611	0.997920
rad45	0.000348626	0.998240	0.000348636	0.998269
rad6	0.000262477	0.998503	0.000262484	0.998531
rad15	0.000260985	0.998764	0.000260992	0.998792
rad37	0.000227012	0.998991	0.000227019	0.999019
PAH7+H	0.000190558	0.999181	0.000190564	0.999210
PAH3+H	0.000129977	0.999311	0.000129981	0.999340
PAH9+H	0.000127902	0.999439	0.000127906	0.999468
rad38	0.000107308	0.999546	0.000107311	0.999575
rad23	0.000100205	0.999647	0.000100208	0.999675
rad30	5.75065e-05	0.999704	5.75081e-05	0.999733
rad2	3.53751e-05	0.999740	3.53761e-05	0.999768
rad36	3.48484e-05	0.999774	3.48494e-05	0.999803
rad39	3.08469e-05	0.999805	3.08477e-05	0.999834
Phenyl+cycC3H4	2.73676e-05	0.999833	0.000000	0.999834
rad50	2.52592e-05	0.999858	2.52600e-05	0.999859
rad46	2.14898e-05	0.999879	2.14904e-05	0.999880
rad19syn	1.42676e-05	0.999894	1.42681e-05	0.999895
PAH1+H	1.34672e-05	0.999907	1.34676e-05	0.999908
rad59	1.16568e-05	0.999919	1.16571e-05	0.999920
rad1	1.08213e-05	0.999930	1.08216e-05	0.999931
rad51	8.45837e-06	0.999938	8.45858e-06	0.999939
rad26	8.17453e-06	0.999946	8.17476e-06	0.999947
rad60syn	8.13046e-06	0.999954	8.13069e-06	0.999955
rad60anti	5.16596e-06	0.999959	5.16611e-06	0.999961
rad54	4.92209e-06	0.999964	4.92222e-06	0.999965
rad8	4.43837e-06	0.999969	4.43850e-06	0.999970
rad11	3.15723e-06	0.999972	3.15733e-06	0.999973
rad70	3.01418e-06	0.999975	3.01426e-06	0.999976
rad43	2.73721e-06	0.999978	2.73728e-06	0.999979

rad10	2.73229e-06	0.999980	2.73236e-06	0.999982
rad52	2.33778e-06	0.999983	2.33785e-06	0.999984
rad22	2.32867e-06	0.999985	2.32873e-06	0.999986
rad21	2.06291e-06	0.999987	2.06297e-06	0.999988
rad58	1.68562e-06	0.999989	1.68566e-06	0.999990
rad7	1.47815e-06	0.999990	1.47818e-06	0.999991
rad61	1.42335e-06	0.999992	1.42339e-06	0.999993
rad20	9.59115e-07	0.999993	9.59145e-07	0.999994
rad28	9.16254e-07	0.999994	9.16284e-07	0.999995
rad34	8.55470e-07	0.999995	8.55491e-07	0.999996
rad24	7.22117e-07	0.999995	7.22138e-07	0.999996
PAH8+H	4.99229e-07	0.999996	4.99243e-07	0.999997
rad55	3.95944e-07	0.999996	3.95955e-07	0.999997
rad71	3.64210e-07	0.999996	3.64220e-07	0.999998
rad41	2.61372e-07	0.999997	2.61379e-07	0.999998
rad73	2.51650e-07	0.999997	2.51657e-07	0.999998
rad65	2.40722e-07	0.999997	2.40729e-07	0.999998
rad3	2.38476e-07	0.999997	2.38483e-07	0.999999
rad13	2.26549e-07	0.999998	2.26556e-07	0.999999
rad4	1.86713e-07	0.999998	1.86718e-07	0.999999
rad56	1.74950e-07	0.999998	1.74956e-07	0.999999
rad62	1.51909e-07	0.999998	1.51913e-07	0.999999
rad53	1.47955e-07	0.999998	1.47959e-07	0.999999
rad18	1.19968e-07	0.999998	1.19971e-07	1.000000
rad47	1.08186e-07	0.999999	1.08189e-07	1.000000
rad68syn	8.43017e-08	0.999999	8.43047e-08	1.000000
rad40syn	7.21010e-08	0.999999	7.21030e-08	1.000000
rad64	5.94470e-08	0.999999	5.94487e-08	1.000000
rad40anti	5.79991e-08	0.999999	5.80007e-08	1.000000
rad68anti	5.47008e-08	0.999999	5.47025e-08	1.000000
rad33	2.97806e-08	0.999999	2.97815e-08	1.000000
rad31	2.93220e-08	0.999999	2.93228e-08	1.000000
rad42	1.52808e-08	0.999999	1.52813e-08	1.000000
rad72	1.30324e-08	0.999999	1.30327e-08	1.000000
rad27	7.88797e-09	0.999999	7.88820e-09	1.000000
rad25	7.19622e-09	0.999999	7.19642e-09	1.000000
rad5	4.13617e-09	0.999999	4.13629e-09	1.000000
rad14	8.03752e-10	0.999999	8.03774e-10	1.000000

1000000.00 Pa, 1100.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.81236e-12 (1.00)	2.81220e-12 (1.00)
Formation of rad19	2.25993e-12 (0.804)	2.25977e-12 (0.804)
H-abstraction to cyc2enyl	4.30538e-13 (0.153)	4.30538e-13 (0.153)
H-abstraction to cyc1enyl	1.21896e-13 (0.0433)	1.21887e-13 (0.0433)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.273107	0.273107	0.273123	0.273123
rad9	0.257406	0.530513	0.257421	0.530545
PhCHCCH2+H	0.224238	0.754750	0.224251	0.754796
Benzene+cycloprop-2-enylidene	0.153088	0.907838	0.153097	0.907893
Benzene+cycloprop-1-enylidene	0.0433429	0.951181	0.0433424	0.951235
Ph+MeAc	0.00810175	0.959282	0.00810222	0.959337
Ph+Allene	0.00788844	0.967171	0.00788891	0.967226
C2H2+PhCH2	0.00785669	0.975028	0.00785716	0.975083
PhCH2CCH+H	0.00688178	0.981909	0.00688220	0.981966
rad67	0.00330270	0.985212	0.00330290	0.985269
PhCCCH3+H	0.00281395	0.988026	0.00281412	0.988083
PhcycC3H3_B+H	0.00237504	0.990401	0.00237518	0.990458
PhCCH+CH3	0.00212990	0.992531	0.00213002	0.992588
PhcycC3H3_A+H	0.00208294	0.994614	0.00208306	0.994671
rad35	0.00119645	0.995810	0.00119653	0.995867
rad12	0.00118943	0.997000	0.00118950	0.997057
PAH10+CH3	0.000586527	0.997586	0.000586562	0.997643
rad45	0.000326883	0.997913	0.000326903	0.997970
rad15	0.000312973	0.998226	0.000312993	0.998283
rad19anti	0.000289109	0.998515	0.000289126	0.998573
rad6	0.000222499	0.998738	0.000222512	0.998795
rad37	0.000219099	0.998957	0.000219112	0.999014
PAH7+H	0.000185158	0.999142	0.000185170	0.999199
PAH3+H	0.000128945	0.999271	0.000128952	0.999328
PAH9+H	0.000126478	0.999397	0.000126485	0.999455
rad38	0.000105495	0.999503	0.000105502	0.999560
rad23	8.85429e-05	0.999592	8.85484e-05	0.999649
Phenyl+cycC3H4	5.69591e-05	0.999648	0.000000	0.999649
rad30	5.60704e-05	0.999705	5.60738e-05	0.999705
rad2	3.24686e-05	0.999737	3.24705e-05	0.999737

rad36	3.20983e-05	0.999769	3.21002e-05	0.999769
rad39	3.00590e-05	0.999799	3.00609e-05	0.999799
rad50	2.51261e-05	0.999824	2.51276e-05	0.999825
rad46	2.12856e-05	0.999846	2.12869e-05	0.999846
rad8	2.12498e-05	0.999867	2.12511e-05	0.999867
PAH1+H	1.33657e-05	0.999880	1.33665e-05	0.999881
rad19syn	1.28577e-05	0.999893	1.28584e-05	0.999893
rad21	1.16255e-05	0.999905	1.16262e-05	0.999905
rad59	1.15360e-05	0.999916	1.15367e-05	0.999917
rad1	9.77430e-06	0.999926	9.77483e-06	0.999926
rad51	8.43451e-06	0.999934	8.43498e-06	0.999935
rad60syn	8.00321e-06	0.999942	8.00368e-06	0.999943
rad26	6.78012e-06	0.999949	6.78053e-06	0.999950
rad11	6.63056e-06	0.999956	6.63095e-06	0.999956
rad22	5.79931e-06	0.999962	5.79966e-06	0.999962
rad60anti	5.08798e-06	0.999967	5.08829e-06	0.999967
rad54	4.80878e-06	0.999972	4.80906e-06	0.999972
rad20	3.79892e-06	0.999975	3.79915e-06	0.999976
rad10	3.27743e-06	0.999979	3.27762e-06	0.999979
rad70	2.96872e-06	0.999982	2.96890e-06	0.999982
rad43	2.68222e-06	0.999984	2.68238e-06	0.999985
rad52	2.32800e-06	0.999987	2.32815e-06	0.999987
rad7	2.09897e-06	0.999989	2.09909e-06	0.999989
rad24	1.76653e-06	0.999990	1.76664e-06	0.999991
rad58	1.68627e-06	0.999992	1.68637e-06	0.999992
rad61	1.42242e-06	0.999994	1.42251e-06	0.999994
rad34	8.45885e-07	0.999994	8.45932e-07	0.999995
rad28	7.61687e-07	0.999995	7.61733e-07	0.999996
rad13	7.39027e-07	0.999996	7.39071e-07	0.999996
PAH8+H	5.03160e-07	0.999996	5.03190e-07	0.999997
rad18	4.41140e-07	0.999997	4.41166e-07	0.999997
rad55	3.88103e-07	0.999997	3.88126e-07	0.999998
rad71	3.66714e-07	0.999998	3.66736e-07	0.999998
rad41	2.58545e-07	0.999998	2.58561e-07	0.999998
rad73	2.52926e-07	0.999998	2.52941e-07	0.999998
rad65	2.40282e-07	0.999998	2.40297e-07	0.999999
rad3	2.12780e-07	0.999999	2.12793e-07	0.999999
rad56	1.74579e-07	0.999999	1.74589e-07	0.999999
rad4	1.63993e-07	0.999999	1.64004e-07	0.999999
rad62	1.48671e-07	0.999999	1.48680e-07	0.999999
rad53	1.46827e-07	0.999999	1.46835e-07	1.000000
rad33	1.32784e-07	0.999999	1.32792e-07	1.000000
rad47	1.03376e-07	0.999999	1.03382e-07	1.000000
rad68syn	8.43185e-08	1.000000	8.43232e-08	1.000000
rad40syn	7.24235e-08	1.000000	7.24278e-08	1.000000
rad64	5.92366e-08	1.000000	5.92402e-08	1.000000
rad40anti	5.82816e-08	1.000000	5.82851e-08	1.000000
rad68anti	5.47035e-08	1.000000	5.47067e-08	1.000000
rad25	3.96807e-08	1.000000	3.96830e-08	1.000000
rad31	2.73713e-08	1.000000	2.73730e-08	1.000000
rad27	2.67438e-08	1.000000	2.67454e-08	1.000000
rad42	1.50821e-08	1.000000	1.50830e-08	1.000000
rad72	1.31665e-08	1.000000	1.31673e-08	1.000000
rad5	3.76587e-09	1.000000	3.76610e-09	1.000000
rad14	1.94408e-09	1.000000	1.94420e-09	1.000000

1000000.00 Pa, 1200.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.72623e-12 (1.00)	3.72573e-12 (1.00)
Formation of rad19	2.86288e-12 (0.768)	2.86242e-12 (0.768)
H-abstraction to cyc2enyl	6.53266e-13 (0.175)	6.53266e-13 (0.175)
H-abstraction to cyclenyl	2.10085e-13 (0.0564)	2.10051e-13 (0.0564)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.256737	0.256737	0.256772	0.256772
rad9	0.248975	0.505711	0.249008	0.505780
PhCHCCH2+H	0.215288	0.720999	0.215317	0.721097
Benzene+cycloprop-2-enylidene	0.175315	0.896315	0.175339	0.896436
Benzene+cycloprop-1-enylidene	0.0563801	0.952695	0.0563784	0.952814
Ph+MeAc	0.00778454	0.960479	0.00778555	0.960600
Ph+Allene	0.00758193	0.968061	0.00758296	0.968183
C2H2+PhCH2	0.00754054	0.975602	0.00754156	0.975724
PhCH2CCH+H	0.00662432	0.982226	0.00662522	0.982350
rad67	0.00317538	0.985401	0.00317581	0.985525
PhCCCH3+H	0.00269703	0.988098	0.00269740	0.988223
PhcycC3H3_B+H	0.00218565	0.990284	0.00218595	0.990409
PhCCH+CH3	0.00205126	0.992335	0.00205154	0.992460

PhcycC3H3_A+H	0.00196187	0.994297	0.00196212	0.994422
rad12	0.00138481	0.995682	0.00138500	0.995807
rad35	0.00115063	0.996833	0.00115078	0.996958
PAH10+CH3	0.000567023	0.997400	0.000567100	0.997525
rad15	0.000526842	0.997927	0.000526913	0.998052
rad45	0.000300328	0.998227	0.000300369	0.998353
rad19anti	0.000225368	0.998452	0.000225399	0.998578
rad37	0.000209981	0.998662	0.000210009	0.998788
rad6	0.000203973	0.998866	0.000204001	0.998992
PAH7+H	0.000177995	0.999044	0.000178019	0.999170
Phenyl+cycC3H4	0.000125720	0.999170	0.000000	0.999170
PAH3+H	0.000125039	0.999295	0.000125055	0.999295
PAH9+H	0.000123162	0.999418	0.000123179	0.999418
rad38	0.000102252	0.999520	0.000102266	0.999521
rad23	7.80091e-05	0.999598	7.80191e-05	0.999599
rad30	5.39451e-05	0.999652	5.39523e-05	0.999653
rad8	4.43365e-05	0.999697	4.43425e-05	0.999697
rad2	2.96088e-05	0.999726	2.96128e-05	0.999727
rad36	2.92450e-05	0.999755	2.92489e-05	0.999756
rad39	2.90032e-05	0.999785	2.90071e-05	0.999785
rad21	2.85205e-05	0.999813	2.85243e-05	0.999813
rad50	2.45452e-05	0.999838	2.45486e-05	0.999838
rad46	2.07485e-05	0.999858	2.07512e-05	0.999859
rad11	1.72080e-05	0.999876	1.72103e-05	0.999876
PAH1+H	1.29784e-05	0.999889	1.29801e-05	0.999889
rad19syn	1.14112e-05	0.999900	1.14127e-05	0.999900
rad59	1.11737e-05	0.999911	1.11751e-05	0.999911
rad22	8.96635e-06	0.999920	8.96755e-06	0.999920
rad1	8.77496e-06	0.999929	8.77617e-06	0.999929
rad51	8.25067e-06	0.999937	8.25174e-06	0.999937
rad60syn	7.73260e-06	0.999945	7.73369e-06	0.999945
rad20	7.33972e-06	0.999952	7.34071e-06	0.999952
rad26	6.43847e-06	0.999959	6.43934e-06	0.999959
rad10	5.62527e-06	0.999964	5.62603e-06	0.999964
rad60anti	4.91723e-06	0.999969	4.91789e-06	0.999969
rad54	4.63116e-06	0.999974	4.63178e-06	0.999974
rad7	4.14258e-06	0.999978	4.14314e-06	0.999978
rad70	2.85502e-06	0.999981	2.85541e-06	0.999981
rad43	2.57618e-06	0.999983	2.57652e-06	0.999984
rad24	2.42810e-06	0.999986	2.42843e-06	0.999986
rad52	2.27566e-06	0.999988	2.27597e-06	0.999988
rad13	2.12795e-06	0.999990	2.12824e-06	0.999990
rad58	1.64171e-06	0.999992	1.64193e-06	0.999992
rad61	1.38639e-06	0.999993	1.38658e-06	0.999993
rad18	1.10647e-06	0.999994	1.10663e-06	0.999995
rad34	8.14918e-07	0.999995	8.15025e-07	0.999995
rad28	6.91583e-07	0.999996	6.91676e-07	0.999996
PAH8+H	4.89571e-07	0.999996	4.89637e-07	0.999997
rad55	3.74349e-07	0.999997	3.74400e-07	0.999997
rad71	3.60885e-07	0.999997	3.60933e-07	0.999997
rad33	3.19031e-07	0.999997	3.19074e-07	0.999998
rad41	2.49428e-07	0.999998	2.49462e-07	0.999998
rad73	2.48650e-07	0.999998	2.48684e-07	0.999998
rad65	2.35064e-07	0.999998	2.35096e-07	0.999998
rad3	1.91175e-07	0.999998	1.91201e-07	0.999999
rad25	1.76252e-07	0.999998	1.76276e-07	0.999999
rad56	1.69865e-07	0.999999	1.69888e-07	0.999999
rad4	1.46186e-07	0.999999	1.46206e-07	0.999999
rad62	1.42724e-07	0.999999	1.42744e-07	0.999999
rad53	1.42473e-07	0.999999	1.42492e-07	0.999999
rad47	9.56632e-08	0.999999	9.56765e-08	0.999999
rad27	8.86670e-08	0.999999	8.86790e-08	1.000000
rad68syn	8.16777e-08	0.999999	8.16892e-08	1.000000
rad40syn	7.03603e-08	0.999999	7.03699e-08	1.000000
rad64	5.76758e-08	0.999999	5.76836e-08	1.000000
rad40anti	5.66428e-08	1.000000	5.66504e-08	1.000000
rad68anti	5.29864e-08	1.000000	5.29935e-08	1.000000
rad31	2.49107e-08	1.000000	2.49140e-08	1.000000
rad42	1.45326e-08	1.000000	1.45345e-08	1.000000
rad72	1.29815e-08	1.000000	1.29833e-08	1.000000
rad14	5.05036e-09	1.000000	5.05104e-09	1.000000
rad5	4.23179e-09	1.000000	4.23237e-09	1.000000

1000000.00 Pa, 1300.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.84401e-12 (1.00)	4.84259e-12 (1.00)
Formation of rad19	3.55537e-12 (0.734)	3.55408e-12 (0.734)
H-abstraction to cyc2enyl	9.48893e-13 (0.196)	9.48893e-13 (0.196)

H-abstraction to cyclenyl | 3.39740e-13 (0.0701) 3.39617e-13 (0.0701)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.245625	0.245625	0.245697	0.245697
rad9	0.235071	0.480696	0.235140	0.480837
PhCHCCH2+H	0.206843	0.687540	0.206904	0.687741
Benzene+cycloprop-2-enylidene	0.195890	0.883430	0.195948	0.883689
Benzene+cycloprop-1-enylidene	0.0701362	0.953566	0.0701312	0.953820
Ph+MeAc	0.00747897	0.961045	0.00748115	0.961301
Ph+Allene	0.00728179	0.968327	0.00728393	0.968585
C2H2+PhCH2	0.00723710	0.975564	0.00723922	0.975825
PhCH2CCH+H	0.00634844	0.981912	0.00635030	0.982175
rad67	0.00305011	0.984962	0.00305100	0.985226
PhCCCH3+H	0.00258996	0.987552	0.00259071	0.987817
PhcycC3H3_B+H	0.00217634	0.989729	0.00217698	0.989993
PhcycC3H3_A+H	0.00201226	0.991741	0.00201285	0.992006
PhCCH+CH3	0.00197274	0.993714	0.00197332	0.993980
rad12	0.00140712	0.995121	0.00140753	0.995387
rad35	0.00110539	0.996226	0.00110571	0.996493
rad15	0.00106380	0.997290	0.00106411	0.997557
PAH10+CH3	0.000544438	0.997834	0.000544597	0.998102
rad45	0.000275286	0.998110	0.000275367	0.998377
Phenyl+cycC3H4	0.000267318	0.998377	0.000000	0.998377
rad37	0.000201358	0.998578	0.000201417	0.998578
rad6	0.000199344	0.998778	0.000199402	0.998778
rad19anti	0.000176854	0.998954	0.000176906	0.998955
PAH7+H	0.000171131	0.999126	0.000171181	0.999126
PAH3+H	0.000119967	0.999246	0.000120002	0.999246
PAH9+H	0.000119505	0.999365	0.000119540	0.999365
rad38	9.87217e-05	0.999464	9.87506e-05	0.999464
rad23	6.90710e-05	0.999533	6.90912e-05	0.999533
rad8	6.31782e-05	0.999596	6.31967e-05	0.999596
rad30	5.17119e-05	0.999648	5.17271e-05	0.999648
rad11	4.48818e-05	0.999693	4.48949e-05	0.999693
rad21	4.10227e-05	0.999734	4.10348e-05	0.999734
rad39	2.79915e-05	0.999762	2.79997e-05	0.999762
rad2	2.72969e-05	0.999789	2.73050e-05	0.999789
rad36	2.67085e-05	0.999816	2.67163e-05	0.999816
rad50	2.38478e-05	0.999840	2.38548e-05	0.999840
rad46	2.01398e-05	0.999860	2.01457e-05	0.999860
PAH1+H	1.24784e-05	0.999872	1.24820e-05	0.999873
rad10	1.22666e-05	0.999884	1.22702e-05	0.999885
rad59	1.07181e-05	0.999895	1.07213e-05	0.999896
rad22	1.02033e-05	0.999905	1.02063e-05	0.999906
rad19syn	1.00842e-05	0.999915	1.00872e-05	0.999916
rad20	9.43641e-06	0.999925	9.43918e-06	0.999925
rad7	9.09834e-06	0.999934	9.10106e-06	0.999934
rad51	8.02145e-06	0.999942	8.02381e-06	0.999942
rad1	8.01580e-06	0.999950	8.01809e-06	0.999950
rad26	7.63472e-06	0.999958	7.63696e-06	0.999958
rad60syn	7.41482e-06	0.999965	7.41701e-06	0.999966
rad60anti	4.71528e-06	0.999970	4.71666e-06	0.999970
rad54	4.46683e-06	0.999974	4.46814e-06	0.999975
rad13	4.30299e-06	0.999979	4.30426e-06	0.999979
rad70	2.72223e-06	0.999981	2.72304e-06	0.999982
rad24	2.62977e-06	0.999984	2.63054e-06	0.999984
rad43	2.46150e-06	0.999986	2.46222e-06	0.999987
rad18	2.38048e-06	0.999989	2.38118e-06	0.999989
rad52	2.21176e-06	0.999991	2.21241e-06	0.999991
rad58	1.57643e-06	0.999993	1.57689e-06	0.999993
rad61	1.33351e-06	0.999994	1.33389e-06	0.999994
rad34	7.77285e-07	0.999995	7.77509e-07	0.999995
rad28	6.77955e-07	0.999995	6.78153e-07	0.999996
PAH8+H	4.68826e-07	0.999996	4.68964e-07	0.999996
rad33	4.68814e-07	0.999996	4.68951e-07	0.999997
rad25	4.23115e-07	0.999997	4.23238e-07	0.999997
rad55	3.61180e-07	0.999997	3.61286e-07	0.999998
rad71	3.52144e-07	0.999997	3.52248e-07	0.999998
rad73	2.42495e-07	0.999998	2.42566e-07	0.999998
rad41	2.38564e-07	0.999998	2.38634e-07	0.999998
rad65	2.28425e-07	0.999998	2.28492e-07	0.999999
rad27	1.87541e-07	0.999998	1.87596e-07	0.999999
rad3	1.74921e-07	0.999998	1.74972e-07	0.999999
rad56	1.64225e-07	0.999999	1.64273e-07	0.999999
rad53	1.37647e-07	0.999999	1.37688e-07	0.999999
rad62	1.36371e-07	0.999999	1.36411e-07	0.999999
rad4	1.33334e-07	0.999999	1.33373e-07	1.000000
rad47	8.78559e-08	0.999999	8.78819e-08	1.000000
rad68syn	7.80243e-08	0.999999	7.80474e-08	1.000000

rad40syn	6.73638e-08	0.999999	6.73835e-08	1.000000
rad64	5.56483e-08	0.999999	5.56646e-08	1.000000
rad40anti	5.42528e-08	0.999999	5.42688e-08	1.000000
rad68anti	5.06151e-08	0.999999	5.06299e-08	1.000000
rad31	2.27247e-08	0.999999	2.27314e-08	1.000000
rad42	1.38945e-08	0.999999	1.38986e-08	1.000000
rad72	1.26790e-08	0.999999	1.26827e-08	1.000000
rad14	1.06543e-08	0.999999	1.06574e-08	1.000000
rad5	6.59478e-09	0.999999	6.59671e-09	1.000000

1000000.00 Pa, 1400.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.19360e-12 (1.00)	6.18993e-12 (1.00)
Formation of rad19	4.34185e-12 (0.701)	4.33858e-12 (0.701)
H-abstraction to cyc2enyl	1.32990e-12 (0.215)	1.32990e-12 (0.215)
H-abstraction to cyclenyl	5.21850e-13 (0.0843)	5.21457e-13 (0.0842)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.237090	0.237090	0.237230	0.237230
rad9	0.218100	0.455190	0.218229	0.455460
Benzene+cycloprop-2-enylidene	0.214721	0.669911	0.214848	0.670308
PhCHCCH2+H	0.199109	0.869020	0.199226	0.869534
Benzene+cycloprop-1-enylidene	0.0842564	0.953276	0.0842428	0.953777
Ph+MeAc	0.00719312	0.960469	0.00719742	0.960975
Ph+Allene	0.00699514	0.967464	0.00699928	0.967974
C2H2+PhCH2	0.00695559	0.974420	0.00695971	0.974934
PhCH2CCH+H	0.00607362	0.980494	0.00607722	0.981011
rad67	0.00293012	0.983424	0.00293185	0.983943
PhCCCH3+H	0.00249265	0.985916	0.00249413	0.986437
PhcycC3H3_B+H	0.00241806	0.988334	0.00241949	0.988856
PhcycC3H3_A+H	0.00228533	0.990620	0.00228669	0.991143
rad15	0.00211064	0.992730	0.00211189	0.993255
PhCCH+CH3	0.00189700	0.994627	0.00189812	0.995153
rad12	0.00135518	0.995983	0.00135599	0.996509
rad35	0.00106197	0.997045	0.00106261	0.997572
Phenyl+cycC3H4	0.000528626	0.997573	0.000000	0.997572
PAH10+CH3	0.000520571	0.998094	0.000520880	0.998092
rad45	0.000252522	0.998346	0.000252672	0.998345
rad6	0.000210793	0.998557	0.000210917	0.998556
rad37	0.000193079	0.998750	0.000193194	0.998749
PAH7+H	0.000164489	0.998915	0.000164586	0.998914
rad19anti	0.000139950	0.999055	0.000140032	0.999054
PAH9+H	0.000115721	0.999170	0.000115789	0.999170
PAH3+H	0.000114470	0.999285	0.000114538	0.999284
rad11	9.51988e-05	0.999380	9.52549e-05	0.999379
rad38	9.50670e-05	0.999475	9.51231e-05	0.999475
rad8	7.44030e-05	0.999549	7.44470e-05	0.999549
rad23	6.59638e-05	0.999615	6.60028e-05	0.999615
rad30	4.94847e-05	0.999665	4.95140e-05	0.999665
rad21	4.62024e-05	0.999711	4.62298e-05	0.999711
rad39	2.69757e-05	0.999738	2.69916e-05	0.999738
rad10	2.69200e-05	0.999765	2.69360e-05	0.999765
rad2	2.53745e-05	0.999790	2.53895e-05	0.999790
rad36	2.44606e-05	0.999815	2.44751e-05	0.999815
rad50	2.30870e-05	0.999838	2.31007e-05	0.999838
rad46	1.94935e-05	0.999857	1.95050e-05	0.999857
rad7	1.79991e-05	0.999875	1.80098e-05	0.999875
PAH1+H	1.19343e-05	0.999887	1.19415e-05	0.999887
rad26	1.16385e-05	0.999899	1.16454e-05	0.999899
rad22	1.13365e-05	0.999910	1.13432e-05	0.999910
rad59	1.02302e-05	0.999921	1.02363e-05	0.999920
rad20	1.01577e-05	0.999931	1.01637e-05	0.999930
rad19syn	8.91792e-06	0.999940	8.92320e-06	0.999939
rad51	7.76712e-06	0.999947	7.77175e-06	0.999947
rad1	7.41387e-06	0.999955	7.41821e-06	0.999955
rad60syn	7.08292e-06	0.999962	7.08717e-06	0.999962
rad13	5.94210e-06	0.999968	5.94562e-06	0.999968
rad18	5.19722e-06	0.999973	5.20030e-06	0.999973
rad60anti	4.50384e-06	0.999978	4.50651e-06	0.999977
rad54	4.32732e-06	0.999982	4.32989e-06	0.999982
rad70	2.59354e-06	0.999984	2.59509e-06	0.999984
rad24	2.58960e-06	0.999987	2.59114e-06	0.999987
rad43	2.35380e-06	0.999989	2.35519e-06	0.999989
rad52	2.14151e-06	0.999992	2.14278e-06	0.999991
rad58	1.50279e-06	0.999993	1.50368e-06	0.999993
rad61	1.27233e-06	0.999994	1.27308e-06	0.999994
rad34	7.40231e-07	0.999995	7.40671e-07	0.999995

rad28	7.32071e-07	0.999996	7.32506e-07	0.999996
rad25	6.23576e-07	0.999996	6.23945e-07	0.999996
rad33	5.25814e-07	0.999997	5.26125e-07	0.999997
PAH8+H	4.46439e-07	0.999997	4.46703e-07	0.999997
rad55	3.49949e-07	0.999998	3.50157e-07	0.999998
rad71	3.41697e-07	0.999998	3.41899e-07	0.999998
rad27	2.63180e-07	0.999998	2.63336e-07	0.999998
rad73	2.35244e-07	0.999999	2.35383e-07	0.999998
rad41	2.27851e-07	0.999999	2.27986e-07	0.999999
rad65	2.21060e-07	0.999999	2.21191e-07	0.999999
rad3	1.60060e-07	0.999999	1.60155e-07	0.999999
rad56	1.59144e-07	0.999999	1.59238e-07	0.999999
rad53	1.33393e-07	0.999999	1.33472e-07	0.999999
rad62	1.30652e-07	1.000000	1.30729e-07	0.999999
rad4	1.21805e-07	1.000000	1.21878e-07	1.000000
rad47	8.05327e-08	1.000000	8.05800e-08	1.000000
rad68syn	7.42453e-08	1.000000	7.42893e-08	1.000000
rad40syn	6.41774e-08	1.000000	6.42154e-08	1.000000
rad64	5.35097e-08	1.000000	5.35414e-08	1.000000
rad40anti	5.17017e-08	1.000000	5.17324e-08	1.000000
rad68anti	4.81639e-08	1.000000	4.81924e-08	1.000000
rad31	2.08538e-08	1.000000	2.08662e-08	1.000000
rad14	1.57238e-08	1.000000	1.57332e-08	1.000000
rad5	1.48907e-08	1.000000	1.48995e-08	1.000000
rad42	1.33034e-08	1.000000	1.33112e-08	1.000000
rad72	1.23070e-08	1.000000	1.23143e-08	1.000000

1000000.00 Pa, 1500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.80417e-12 (1.00)	7.79558e-12 (1.00)
Formation of rad19	5.22661e-12 (0.670)	5.21912e-12 (0.669)
H-abstraction to cyc2enyl	1.80920e-12 (0.232)	1.80920e-12 (0.232)
H-abstraction to cyc1enyl	7.68359e-13 (0.0985)	7.67258e-13 (0.0984)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+cycloprop-2-enylidene	0.231825	0.231825	0.232080	0.232080
Indene+H	0.229381	0.461205	0.229634	0.461714
rad9	0.199768	0.660974	0.199988	0.661702
PhCHCCH2+H	0.192220	0.853193	0.192432	0.854134
Benzene+cycloprop-1-enylidene	0.0984549	0.951648	0.0984221	0.952556
Ph+MeAc	0.00693395	0.958582	0.00694162	0.959498
Ph+Allene	0.00672687	0.965309	0.00673427	0.966232
C2H2+PhCH2	0.00670216	0.972011	0.00670950	0.972941
PhCH2CCH+H	0.00582446	0.977836	0.00583087	0.978772
rad15	0.00359613	0.981432	0.00360010	0.982372
PhcycC3H3_B+H	0.00297837	0.984410	0.00298165	0.985354
PhcycC3H3_A+H	0.00282196	0.987232	0.00282507	0.988179
rad67	0.00281894	0.990051	0.00282205	0.991001
PhCCCH3+H	0.00240540	0.992456	0.00240805	0.993409
PhCCH+CH3	0.00182637	0.994283	0.00182839	0.995238
rad12	0.00127458	0.995557	0.00127598	0.996514
rad35	0.00102170	0.996579	0.00102282	0.997536
Phenyl+cycC3H4	0.000959682	0.997539	0.000959682	0.997536
PAH10+CH3	0.000496539	0.998035	0.000497087	0.998034
rad6	0.000247827	0.998283	0.000248100	0.998282
rad45	0.000231834	0.998515	0.000232089	0.998514
rad37	0.000184939	0.998700	0.000185142	0.998699
PAH7+H	0.000157728	0.998858	0.000157902	0.998857
rad11	0.000146386	0.999004	0.000146548	0.999003
PAH9+H	0.000111938	0.999116	0.000112062	0.999115
rad19anti	0.000111808	0.999228	0.000111931	0.999227
PAH3+H	0.000109273	0.999337	0.000109393	0.999337
rad38	9.13693e-05	0.999428	9.14694e-05	0.999428
rad8	7.90337e-05	0.999507	7.91212e-05	0.999507
rad23	7.27289e-05	0.999580	7.28085e-05	0.999580
rad30	4.74390e-05	0.999628	4.74913e-05	0.999628
rad10	4.71561e-05	0.999675	4.72080e-05	0.999675
rad21	4.67354e-05	0.999722	4.67870e-05	0.999722
rad7	2.90504e-05	0.999751	2.90824e-05	0.999751
rad39	2.58900e-05	0.999776	2.59185e-05	0.999777
rad2	2.35781e-05	0.999800	2.36041e-05	0.999800
rad36	2.24407e-05	0.999822	2.24655e-05	0.999823
rad50	2.22909e-05	0.999845	2.23155e-05	0.999845
rad26	2.12202e-05	0.999866	2.12435e-05	0.999866
rad46	1.88262e-05	0.999885	1.88469e-05	0.999885
rad22	1.33231e-05	0.999898	1.33378e-05	0.999898
PAH1+H	1.13838e-05	0.999910	1.13964e-05	0.999910

rad20	1.00796e-05	0.999920	1.00907e-05	0.999920
rad59	9.77135e-06	0.999929	9.78216e-06	0.999930
rad18	8.89864e-06	0.999938	8.90847e-06	0.999939
rad19syn	7.90966e-06	0.999946	7.91842e-06	0.999946
rad51	7.49859e-06	0.999954	7.50681e-06	0.999954
rad1	6.87260e-06	0.999961	6.88016e-06	0.999961
rad60syn	6.77395e-06	0.999967	6.78141e-06	0.999968
rad13	6.39763e-06	0.999974	6.40468e-06	0.999974
rad60anti	4.30677e-06	0.999978	4.31152e-06	0.999978
rad54	4.19914e-06	0.999982	4.20377e-06	0.999983
rad70	2.48021e-06	0.999985	2.48295e-06	0.999985
rad24	2.45440e-06	0.999987	2.45711e-06	0.999988
rad43	2.25709e-06	0.999989	2.25957e-06	0.999990
rad52	2.06768e-06	0.999991	2.06996e-06	0.999992
rad58	1.43185e-06	0.999993	1.43343e-06	0.999993
rad61	1.20906e-06	0.999994	1.21039e-06	0.999994
rad28	9.26277e-07	0.999995	9.27301e-07	0.999995
rad25	7.14451e-07	0.999996	7.15238e-07	0.999996
rad34	7.07332e-07	0.999996	7.08114e-07	0.999997
rad33	5.12902e-07	0.999997	5.13467e-07	0.999997
PAH8+H	4.25116e-07	0.999997	4.25584e-07	0.999998
rad55	3.39851e-07	0.999998	3.40225e-07	0.999998
rad71	3.30202e-07	0.999998	3.30566e-07	0.999998
rad27	2.97302e-07	0.999998	2.97630e-07	0.999999
rad73	2.27327e-07	0.999999	2.27578e-07	0.999999
rad41	2.17957e-07	0.999999	2.18197e-07	0.999999
rad65	2.13442e-07	0.999999	2.13677e-07	0.999999
rad56	1.54963e-07	0.999999	1.55133e-07	1.000000
rad3	1.45059e-07	0.999999	1.45219e-07	1.000000
rad53	1.29813e-07	0.999999	1.29956e-07	1.000000
rad62	1.25605e-07	1.000000	1.25744e-07	1.000000
rad4	1.10208e-07	1.000000	1.10329e-07	1.000000
rad47	7.38293e-08	1.000000	7.39112e-08	1.000000
rad68syn	7.07901e-08	1.000000	7.08677e-08	1.000000
rad40syn	6.11551e-08	1.000000	6.12225e-08	1.000000
rad64	5.13630e-08	1.000000	5.14196e-08	1.000000
rad40anti	4.92656e-08	1.000000	4.93199e-08	1.000000
rad68anti	4.59235e-08	1.000000	4.59741e-08	1.000000
rad5	4.57444e-08	1.000000	4.57948e-08	1.000000
rad31	1.92328e-08	1.000000	1.92539e-08	1.000000
rad14	1.82524e-08	1.000000	1.82725e-08	1.000000
rad42	1.27801e-08	1.000000	1.27942e-08	1.000000
rad72	1.18920e-08	1.000000	1.19051e-08	1.000000

100000.000 Pa, 20.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.24541e-22 (1.00)	1.24541e-22 (1.00)
Formation of rad19	1.24541e-22 (1.00)	1.24541e-22 (1.00)
H-abstraction to cyc2enyl	3.84323e-68 (3.09e-46)	3.84323e-68 (3.09e-46)
H-abstraction to cyclenyl	6.26313e-106 (5.03e-84)	6.26313e-106 (5.03e-84)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.793361	0.793361	0.793361	0.793361
rad19anti	0.205969	0.999330	0.205969	0.999330
rad15	0.000658805	0.999989	0.000658805	0.999989
Indene+H	1.00723e-05	0.999999	1.00723e-05	0.999999
rad12	1.02139e-06	1.000000	1.02139e-06	1.000000
PhCHCCH2+H	5.49243e-09	1.000000	5.49243e-09	1.000000
rad11	2.68209e-10	1.000000	2.68209e-10	1.000000
rad2	2.01698e-10	1.000000	2.01698e-10	1.000000
rad7	7.08765e-11	1.000000	7.08765e-11	1.000000
rad18	6.40595e-11	1.000000	6.40595e-11	1.000000
rad26	2.83501e-11	1.000000	2.83501e-11	1.000000
rad1	1.87604e-11	1.000000	1.87604e-11	1.000000
rad21	6.42412e-12	1.000000	6.42412e-12	1.000000
rad6	5.44781e-12	1.000000	5.44781e-12	1.000000
rad20	4.97388e-12	1.000000	4.97388e-12	1.000000
rad22	3.18589e-12	1.000000	3.18589e-12	1.000000
rad67	7.43396e-13	1.000000	7.43396e-13	1.000000
rad8	7.41529e-13	1.000000	7.41529e-13	1.000000
rad45	6.99877e-13	1.000000	6.99877e-13	1.000000
rad35	3.44205e-13	1.000000	3.44205e-13	1.000000
C2H2+PhCH2	1.57970e-13	1.000000	1.57970e-13	1.000000
rad5	1.50722e-13	1.000000	1.50722e-13	1.000000
rad10	7.88927e-14	1.000000	7.88927e-14	1.000000
PhcycC3H3_A+H	7.58459e-14	1.000000	7.58459e-14	1.000000
rad36	5.24061e-14	1.000000	5.24061e-14	1.000000

rad3	2.03735e-14	1.000000	2.03735e-14	1.000000
rad4	1.18037e-14	1.000000	1.18037e-14	1.000000
rad23	7.26996e-15	1.000000	7.26996e-15	1.000000
PhCCCH3+H	4.84715e-15	1.000000	4.84715e-15	1.000000
Ph+MeAc	2.79228e-15	1.000000	2.79228e-15	1.000000
rad25	1.90425e-15	1.000000	1.90425e-15	1.000000
rad24	1.89274e-15	1.000000	1.89274e-15	1.000000
Ph+Allene	1.21253e-15	1.000000	1.21253e-15	1.000000
rad27	8.30037e-16	1.000000	8.30037e-16	1.000000
rad30	5.14833e-16	1.000000	5.14833e-16	1.000000
PhCCH+CH3	2.82590e-16	1.000000	2.82590e-16	1.000000
rad13	1.79630e-16	1.000000	1.79630e-16	1.000000
PhCH2CCH+H	1.74213e-16	1.000000	1.74213e-16	1.000000
Phenyl+cycC3H4	2.85868e-17	1.000000	0.00000	1.000000
rad37	1.71744e-18	1.000000	1.71744e-18	1.000000
rad33	1.48498e-18	1.000000	1.48498e-18	1.000000
rad60syn	1.29289e-18	1.000000	1.29289e-18	1.000000
rad28	6.67730e-19	1.000000	6.67730e-19	1.000000
rad60anti	6.06030e-19	1.000000	6.06030e-19	1.000000
rad14	4.64133e-19	1.000000	4.64133e-19	1.000000
PAH3+H	3.20659e-19	1.000000	3.20659e-19	1.000000
rad59	7.02228e-20	1.000000	7.02228e-20	1.000000
PAH7+H	4.97153e-20	1.000000	4.97153e-20	1.000000
PhcycC3H3_B+H	1.41886e-20	1.000000	1.41886e-20	1.000000
rad31	9.66779e-21	1.000000	9.66779e-21	1.000000
rad38	7.59844e-21	1.000000	7.59844e-21	1.000000
PAH10+CH3	9.23118e-22	1.000000	9.23118e-22	1.000000
rad46	2.37555e-22	1.000000	2.37555e-22	1.000000
PAH9+H	2.60714e-23	1.000000	2.60714e-23	1.000000
rad43	1.32241e-23	1.000000	1.32241e-23	1.000000
rad58	1.35836e-24	1.000000	1.35836e-24	1.000000
rad50	7.73094e-25	1.000000	7.73094e-25	1.000000
rad70	6.56606e-25	1.000000	6.56606e-25	1.000000
rad39	1.37015e-25	1.000000	1.37015e-25	1.000000
PAH1+H	2.27621e-26	1.000000	2.27621e-26	1.000000
rad54	6.34587e-27	1.000000	6.34587e-27	1.000000
rad34	4.13915e-27	1.000000	4.13915e-27	1.000000
rad52	3.32777e-27	1.000000	3.32777e-27	1.000000
rad62	2.39014e-27	1.000000	2.39014e-27	1.000000
rad51	5.84658e-28	1.000000	5.84658e-28	1.000000
rad41	5.49309e-29	1.000000	5.49309e-29	1.000000
rad55	2.93433e-29	1.000000	2.93433e-29	1.000000
rad47	8.15775e-30	1.000000	8.15775e-30	1.000000
rad42	5.09118e-32	1.000000	5.09118e-32	1.000000
rad65	1.73757e-32	1.000000	1.73757e-32	1.000000
rad19syn	7.76122e-33	1.000000	7.76122e-33	1.000000
rad53	4.12842e-37	1.000000	4.12842e-37	1.000000
rad61	4.04082e-38	1.000000	4.04082e-38	1.000000
rad68syn	2.89319e-41	1.000000	2.89319e-41	1.000000
rad64	2.45067e-41	1.000000	2.45067e-41	1.000000
rad68anti	2.36140e-41	1.000000	2.36140e-41	1.000000
rad56	1.01636e-43	1.000000	1.01636e-43	1.000000
Benzene+cycloprop-2-enylidene	3.08591e-46	1.000000	3.08591e-46	1.000000
rad40syn	7.52426e-47	1.000000	7.52426e-47	1.000000
rad40anti	5.79606e-47	1.000000	5.79606e-47	1.000000
rad73	7.44192e-49	1.000000	7.44192e-49	1.000000
PAH8+H	1.37613e-49	1.000000	1.37613e-49	1.000000
rad71	2.47388e-54	1.000000	2.47388e-54	1.000000
Benzene+cycloprop-1-enylidene	5.02895e-84	1.000000	5.02895e-84	1.000000

100000.000 Pa, 30.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.13009e-20 (1.00)	8.13009e-20 (1.00)
Formation of rad19	8.13009e-20 (1.00)	8.13009e-20 (1.00)
H-abstraction to cyc2enyl	1.08880e-49 (1.34e-30)	1.08880e-49 (1.34e-30)
H-abstraction to cyclenyl	7.55172e-75 (9.29e-56)	7.55172e-75 (9.29e-56)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.948121	0.948121	0.948121	0.948121
rad19anti	0.0502700	0.998391	0.0502700	0.998391
rad15	0.00155432	0.999945	0.00155432	0.999945
Indene+H	5.42413e-05	1.000000	5.42413e-05	1.000000
rad12	5.35911e-07	1.000000	5.35911e-07	1.000000
PhCHCCH2+H	1.70955e-08	1.000000	1.70955e-08	1.000000
rad11	8.27930e-10	1.000000	8.27930e-10	1.000000
rad2	6.37568e-10	1.000000	6.37568e-10	1.000000
rad18	3.20886e-10	1.000000	3.20886e-10	1.000000

rad26	9.38977e-11	1.00000	9.38977e-11	1.00000
rad7	7.01119e-11	1.00000	7.01119e-11	1.00000
rad1	5.34608e-11	1.00000	5.34608e-11	1.00000
rad6	2.51268e-11	1.00000	2.51268e-11	1.00000
rad22	1.89501e-11	1.00000	1.89501e-11	1.00000
rad20	1.85385e-11	1.00000	1.85385e-11	1.00000
rad21	1.51331e-11	1.00000	1.51331e-11	1.00000
rad67	4.52007e-12	1.00000	4.52007e-12	1.00000
rad45	3.66816e-12	1.00000	3.66816e-12	1.00000
rad35	2.08620e-12	1.00000	2.08620e-12	1.00000
C2H2+PhCH2	1.53356e-12	1.00000	1.53356e-12	1.00000
rad10	5.16568e-13	1.00000	5.16568e-13	1.00000
rad36	2.53694e-13	1.00000	2.53694e-13	1.00000
rad5	2.20294e-13	1.00000	2.20294e-13	1.00000
PhcycC3H3_A+H	1.37771e-13	1.00000	1.37771e-13	1.00000
rad3	1.34998e-13	1.00000	1.34998e-13	1.00000
rad23	8.67109e-14	1.00000	8.67109e-14	1.00000
rad4	7.55725e-14	1.00000	7.55725e-14	1.00000
PhCCCH3+H	3.22033e-14	1.00000	3.22033e-14	1.00000
Ph+MeAc	1.85688e-14	1.00000	1.85688e-14	1.00000
rad25	1.13110e-14	1.00000	1.13110e-14	1.00000
Ph+Allene	8.09385e-15	1.00000	8.09385e-15	1.00000
rad30	5.97336e-15	1.00000	5.97336e-15	1.00000
rad27	4.81234e-15	1.00000	4.81234e-15	1.00000
rad24	1.99172e-15	1.00000	1.99172e-15	1.00000
PhCCH+CH3	1.19520e-15	1.00000	1.19520e-15	1.00000
PhCH2CCH+H	1.17593e-15	1.00000	1.17593e-15	1.00000
rad13	1.05110e-15	1.00000	1.05110e-15	1.00000
Phenyl+cycC3H4	5.29012e-17	1.00000	0.00000	1.00000
rad60syn	1.54463e-17	1.00000	1.54463e-17	1.00000
rad37	1.26791e-17	1.00000	1.26791e-17	1.00000
rad8	8.18636e-18	1.00000	8.18636e-18	1.00000
rad60anti	7.25666e-18	1.00000	7.25666e-18	1.00000
rad14	6.13215e-18	1.00000	6.13215e-18	1.00000
rad33	5.44758e-18	1.00000	5.44758e-18	1.00000
rad28	5.01054e-18	1.00000	5.01054e-18	1.00000
PAH3+H	3.93434e-18	1.00000	3.93434e-18	1.00000
rad59	8.59001e-19	1.00000	8.59001e-19	1.00000
PAH7+H	5.71648e-19	1.00000	5.71648e-19	1.00000
rad38	7.95240e-20	1.00000	7.95240e-20	1.00000
PhcycC3H3_B+H	2.11715e-20	1.00000	2.11715e-20	1.00000
rad31	2.08118e-20	1.00000	2.08118e-20	1.00000
PAH10+CH3	7.20728e-21	1.00000	7.20728e-21	1.00000
rad46	2.98220e-21	1.00000	2.98220e-21	1.00000
PAH9+H	6.87775e-22	1.00000	6.87775e-22	1.00000
rad43	1.78507e-22	1.00000	1.78507e-22	1.00000
rad58	1.77735e-23	1.00000	1.77735e-23	1.00000
rad50	1.02215e-23	1.00000	1.02215e-23	1.00000
rad70	9.03459e-24	1.00000	9.03459e-24	1.00000
rad39	2.12820e-24	1.00000	2.12820e-24	1.00000
PAH1+H	1.88019e-25	1.00000	1.88019e-25	1.00000
rad54	7.49925e-26	1.00000	7.49925e-26	1.00000
rad62	6.87599e-26	1.00000	6.87599e-26	1.00000
rad34	5.85104e-26	1.00000	5.85104e-26	1.00000
rad52	4.58556e-26	1.00000	4.58556e-26	1.00000
rad51	8.30274e-27	1.00000	8.30274e-27	1.00000
rad41	8.03945e-28	1.00000	8.03945e-28	1.00000
rad55	3.51498e-28	1.00000	3.51498e-28	1.00000
rad47	9.45109e-29	1.00000	9.45109e-29	1.00000
rad42	1.55008e-30	1.00000	1.55008e-30	1.00000
Benzene+cycloprop-2-enylidene	1.33923e-30	1.00000	1.33923e-30	1.00000
rad65	4.99874e-31	1.00000	4.99874e-31	1.00000
rad19syn	7.02180e-34	1.00000	7.02180e-34	1.00000
rad53	7.43355e-36	1.00000	7.43355e-36	1.00000
rad61	2.99164e-37	1.00000	2.99164e-37	1.00000
rad64	3.96240e-40	1.00000	3.96240e-40	1.00000
rad68syn	3.59096e-40	1.00000	3.59096e-40	1.00000
rad68anti	2.93242e-40	1.00000	2.93242e-40	1.00000
rad56	1.84414e-42	1.00000	1.84414e-42	1.00000
rad40syn	8.87073e-46	1.00000	8.87073e-46	1.00000
rad40anti	6.84635e-46	1.00000	6.84635e-46	1.00000
rad73	1.15309e-47	1.00000	1.15309e-47	1.00000
PAH8+H	1.55187e-48	1.00000	1.55187e-48	1.00000
rad71	3.54374e-53	1.00000	3.54374e-53	1.00000
Benzene+cycloprop-1-enylidene	9.28861e-56	1.00000	9.28861e-56	1.00000

100000.000 Pa, 40.0000000 K

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

Total	2.24819e-18 (1.00)	2.24819e-18 (1.00)
Formation of rad19	2.24819e-18 (1.00)	2.24819e-18 (1.00)
H-abstraction to cyc2enyl	1.72361e-40 (7.67e-23)	1.72361e-40 (7.67e-23)
H-abstraction to cyclenyl	2.48792e-59 (1.11e-41)	2.48792e-59 (1.11e-41)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.982647	0.982647	0.982647	0.982647
rad19anti	0.0149994	0.997646	0.0149994	0.997646
rad15	0.00222571	0.999872	0.00222571	0.999872
Indene+H	0.000127356	0.999999	0.000127356	0.999999
rad12	3.61112e-07	1.000000	3.61112e-07	1.000000
PhCHCCH2+H	3.10469e-08	1.000000	3.10469e-08	1.000000
rad11	1.48941e-09	1.000000	1.48941e-09	1.000000
rad2	1.16894e-09	1.000000	1.16894e-09	1.000000
rad18	6.94950e-10	1.000000	6.94950e-10	1.000000
rad26	1.74483e-10	1.000000	1.74483e-10	1.000000
rad1	9.33533e-11	1.000000	9.33533e-11	1.000000
rad7	7.04321e-11	1.000000	7.04321e-11	1.000000
rad6	6.33201e-11	1.000000	6.33201e-11	1.000000
rad22	5.18403e-11	1.000000	5.18403e-11	1.000000
rad20	3.56140e-11	1.000000	3.56140e-11	1.000000
rad21	2.57100e-11	1.000000	2.57100e-11	1.000000
rad67	1.17762e-11	1.000000	1.17762e-11	1.000000
rad45	9.10598e-12	1.000000	9.10598e-12	1.000000
rad35	5.41919e-12	1.000000	5.41919e-12	1.000000
C2H2+PhCH2	5.16011e-12	1.000000	5.16011e-12	1.000000
rad10	1.43875e-12	1.000000	1.43875e-12	1.000000
rad36	6.09606e-13	1.000000	6.09606e-13	1.000000
rad3	3.78209e-13	1.000000	3.78209e-13	1.000000
rad23	3.41986e-13	1.000000	3.41986e-13	1.000000
rad5	3.03398e-13	1.000000	3.03398e-13	1.000000
rad4	2.08200e-13	1.000000	2.08200e-13	1.000000
PhcycC3H3_A+H	2.02581e-13	1.000000	2.02581e-13	1.000000
PhCCCH3+H	9.14056e-14	1.000000	9.14056e-14	1.000000
Ph+MeAc	5.30349e-14	1.000000	5.30349e-14	1.000000
rad25	2.87475e-14	1.000000	2.87475e-14	1.000000
Ph+Allene	2.30316e-14	1.000000	2.30316e-14	1.000000
rad30	2.19013e-14	1.000000	2.19013e-14	1.000000
rad27	1.19615e-14	1.000000	1.19615e-14	1.000000
PhCCH+CH3	3.48830e-15	1.000000	3.48830e-15	1.000000
PhCH2CCH+H	3.38536e-15	1.000000	3.38536e-15	1.000000
rad13	2.74566e-15	1.000000	2.74566e-15	1.000000
rad24	2.07183e-15	1.000000	2.07183e-15	1.000000
Phenyl+cycC3H4	1.15798e-16	1.000000	0.000000	1.000000
rad60syn	5.83120e-17	1.000000	5.83120e-17	1.000000
rad37	3.75923e-17	1.000000	3.75923e-17	1.000000
rad60anti	2.74583e-17	1.000000	2.74583e-17	1.000000
rad14	2.53457e-17	1.000000	2.53457e-17	1.000000
rad28	1.54194e-17	1.000000	1.54194e-17	1.000000
PAH3+H	1.52758e-17	1.000000	1.52758e-17	1.000000
rad33	1.10501e-17	1.000000	1.10501e-17	1.000000
rad59	3.32415e-18	1.000000	3.32415e-18	1.000000
PAH7+H	2.25067e-18	1.000000	2.25067e-18	1.000000
rad38	2.92095e-19	1.000000	2.92095e-19	1.000000
PhcycC3H3_B+H	3.72873e-20	1.000000	3.72873e-20	1.000000
rad31	3.26401e-20	1.000000	3.26401e-20	1.000000
PAH10+CH3	2.25293e-20	1.000000	2.25293e-20	1.000000
rad46	1.18403e-20	1.000000	1.18403e-20	1.000000
rad8	6.65317e-21	1.000000	6.65317e-21	1.000000
PAH9+H	4.25345e-21	1.000000	4.25345e-21	1.000000
rad43	7.64275e-22	1.000000	7.64275e-22	1.000000
Benzene+cycloprop-2-enylidene	7.66665e-23	1.000000	7.66665e-23	1.000000
rad58	7.46371e-23	1.000000	7.46371e-23	1.000000
rad50	4.20547e-23	1.000000	4.20547e-23	1.000000
rad70	3.98025e-23	1.000000	3.98025e-23	1.000000
rad39	9.89223e-24	1.000000	9.89223e-24	1.000000
PAH1+H	6.30025e-25	1.000000	6.30025e-25	1.000000
rad62	4.63902e-25	1.000000	4.63902e-25	1.000000
rad54	3.37067e-25	1.000000	3.37067e-25	1.000000
rad34	2.69029e-25	1.000000	2.69029e-25	1.000000
rad52	1.93888e-25	1.000000	1.93888e-25	1.000000
rad51	3.60309e-26	1.000000	3.60309e-26	1.000000
rad41	3.92825e-27	1.000000	3.92825e-27	1.000000
rad55	1.62504e-27	1.000000	1.62504e-27	1.000000
rad47	3.47143e-28	1.000000	3.47143e-28	1.000000
rad42	1.16089e-29	1.000000	1.16089e-29	1.000000
rad65	3.37614e-30	1.000000	3.37614e-30	1.000000
rad19syn	3.71390e-34	1.000000	3.71390e-34	1.000000
rad53	4.92912e-35	1.000000	4.92912e-35	1.000000

rad61	1.34348e-36	1.000000	1.34348e-36	1.000000
rad64	2.54425e-39	1.000000	2.54425e-39	1.000000
rad68syn	2.17663e-39	1.000000	2.17663e-39	1.000000
rad68anti	1.77709e-39	1.000000	1.77709e-39	1.000000
rad56	1.34053e-41	1.000000	1.34053e-41	1.000000
Benzene+cycloprop-1-enylidene	1.10663e-41	1.000000	1.10663e-41	1.000000
rad40syn	6.04658e-45	1.000000	6.04658e-45	1.000000
rad40anti	4.67716e-45	1.000000	4.67716e-45	1.000000
rad73	8.66604e-47	1.000000	8.66604e-47	1.000000
PAH8+H	1.08257e-47	1.000000	1.08257e-47	1.000000
rad71	2.85532e-52	1.000000	2.85532e-52	1.000000

100000.000 Pa, 50.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.72707e-17 (1.00)	1.72707e-17 (1.00)
Formation of rad19	1.72707e-17 (1.00)	1.72707e-17 (1.00)
H-abstraction to cyc2enyl	5.49905e-35 (3.18e-18)	5.49905e-35 (3.18e-18)
H-abstraction to cyclenyl	4.93090e-50 (2.86e-33)	4.93090e-50 (2.86e-33)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.991889	0.991889	0.991889	0.991889
rad19anti	0.00519279	0.997082	0.00519279	0.997082
rad15	0.00269647	0.999778	0.00269647	0.999778
Indene+H	0.000221073	0.999999	0.000221073	0.999999
rad12	2.74563e-07	1.000000	2.74563e-07	1.000000
PhCHCCH2+H	4.64798e-08	1.000000	4.64798e-08	1.000000
rad11	2.20751e-09	1.000000	2.20751e-09	1.000000
rad2	1.76271e-09	1.000000	1.76271e-09	1.000000
rad18	1.10876e-09	1.000000	1.10876e-09	1.000000
rad26	2.64659e-10	1.000000	2.64659e-10	1.000000
rad1	1.36679e-10	1.000000	1.36679e-10	1.000000
rad6	1.22110e-10	1.000000	1.22110e-10	1.000000
rad22	1.04986e-10	1.000000	1.04986e-10	1.000000
rad7	7.14408e-11	1.000000	7.14408e-11	1.000000
rad20	5.46511e-11	1.000000	5.46511e-11	1.000000
rad21	3.80640e-11	1.000000	3.80640e-11	1.000000
rad67	2.24454e-11	1.000000	2.24454e-11	1.000000
rad45	1.73231e-11	1.000000	1.73231e-11	1.000000
C2H2+PhCH2	1.18046e-11	1.000000	1.18046e-11	1.000000
rad35	1.03000e-11	1.000000	1.03000e-11	1.000000
rad10	2.91802e-12	1.000000	2.91802e-12	1.000000
rad36	1.13890e-12	1.000000	1.13890e-12	1.000000
rad23	8.93985e-13	1.000000	8.93985e-13	1.000000
rad3	7.69864e-13	1.000000	7.69864e-13	1.000000
rad4	4.19395e-13	1.000000	4.19395e-13	1.000000
rad5	4.01532e-13	1.000000	4.01532e-13	1.000000
PhcycC3H3_A+H	2.79026e-13	1.000000	2.79026e-13	1.000000
PhCCCH3+H	1.89176e-13	1.000000	1.89176e-13	1.000000
Ph+MeAc	1.10619e-13	1.000000	1.10619e-13	1.000000
rad25	5.33842e-14	1.000000	5.33842e-14	1.000000
rad30	5.22321e-14	1.000000	5.22321e-14	1.000000
Ph+Allene	4.77641e-14	1.000000	4.77641e-14	1.000000
rad27	2.17790e-14	1.000000	2.17790e-14	1.000000
PhCCH+CH3	8.16982e-15	1.000000	8.16982e-15	1.000000
PhCH2CCH+H	7.10599e-15	1.000000	7.10599e-15	1.000000
rad13	5.19923e-15	1.000000	5.19923e-15	1.000000
rad24	2.14657e-15	1.000000	2.14657e-15	1.000000
Phenyl+cycC3H4	2.36450e-16	1.000000	0.000000	1.000000
rad60syn	1.43156e-16	1.000000	1.43156e-16	1.000000
rad37	8.00247e-17	1.000000	8.00247e-17	1.000000
rad14	6.77096e-17	1.000000	6.77096e-17	1.000000
rad60anti	6.75676e-17	1.000000	6.75676e-17	1.000000
PAH3+H	3.85993e-17	1.000000	3.85993e-17	1.000000
rad28	3.42826e-17	1.000000	3.42826e-17	1.000000
rad33	1.78501e-17	1.000000	1.78501e-17	1.000000
rad59	8.37011e-18	1.000000	8.37011e-18	1.000000
PAH7+H	5.88104e-18	1.000000	5.88104e-18	1.000000
Benzene+cycloprop-2-enylidene	3.18404e-18	1.000000	3.18404e-18	1.000000
rad38	7.30506e-19	1.000000	7.30506e-19	1.000000
PhcycC3H3_B+H	8.21930e-20	1.000000	8.21930e-20	1.000000
PAH10+CH3	5.06624e-20	1.000000	5.06624e-20	1.000000
rad31	4.52897e-20	1.000000	4.52897e-20	1.000000
rad46	3.10544e-20	1.000000	3.10544e-20	1.000000
PAH9+H	1.53065e-20	1.000000	1.53065e-20	1.000000
rad43	2.13517e-21	1.000000	2.13517e-21	1.000000
rad58	2.05612e-22	1.000000	2.05612e-22	1.000000
rad70	1.14831e-22	1.000000	1.14831e-22	1.000000

rad50	1.13781e-22	1.000000	1.13781e-22	1.000000
rad8	4.40130e-23	1.000000	4.40130e-23	1.000000
rad39	2.95554e-23	1.000000	2.95554e-23	1.000000
rad62	1.81914e-24	1.000000	1.81914e-24	1.000000
PAH1+H	1.53414e-24	1.000000	1.53414e-24	1.000000
rad54	1.00912e-24	1.000000	1.00912e-24	1.000000
rad34	8.17398e-25	1.000000	8.17398e-25	1.000000
rad52	5.37450e-25	1.000000	5.37450e-25	1.000000
rad51	1.02512e-25	1.000000	1.02512e-25	1.000000
rad41	1.28991e-26	1.000000	1.28991e-26	1.000000
rad55	5.03711e-27	1.000000	5.03711e-27	1.000000
rad47	8.49998e-28	1.000000	8.49998e-28	1.000000
rad42	5.20051e-29	1.000000	5.20051e-29	1.000000
rad65	1.33638e-29	1.000000	1.33638e-29	1.000000
Benzene+cycloprop-1-enylidene	2.85507e-33	1.000000	2.85507e-33	1.000000
rad19syn	3.53820e-34	1.000000	3.53820e-34	1.000000
rad53	2.35276e-34	1.000000	2.35276e-34	1.000000
rad61	5.61473e-36	1.000000	5.61473e-36	1.000000
rad64	1.25510e-38	1.000000	1.25510e-38	1.000000
rad68syn	1.14584e-38	1.000000	1.14584e-38	1.000000
rad68anti	9.34905e-39	1.000000	9.34905e-39	1.000000
rad56	7.80796e-41	1.000000	7.80796e-41	1.000000
rad40syn	3.98328e-44	1.000000	3.98328e-44	1.000000
rad40anti	3.08928e-44	1.000000	3.08928e-44	1.000000
rad73	5.83169e-46	1.000000	5.83169e-46	1.000000
PAH8+H	7.59449e-47	1.000000	7.59449e-47	1.000000
rad71	2.21954e-51	1.000000	2.21954e-51	1.000000

100000.000 Pa, 60.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.93738e-17 (1.00)	6.93738e-17 (1.00)
Formation of rad19	6.93738e-17 (1.000)	6.93738e-17 (1.000)
H-abstraction to cyc2enyl	2.50609e-31 (3.61e-15)	2.50609e-31 (3.61e-15)
H-abstraction to cyclenyl	7.62015e-44 (1.10e-27)	7.62015e-44 (1.10e-27)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.994626	0.994626	0.994626	0.994626
rad15	0.00302243	0.997648	0.00302243	0.997648
rad19anti	0.00202138	0.999670	0.00202138	0.999670
Indene+H	0.000329619	0.999999	0.000329619	0.999999
rad12	2.23754e-07	1.000000	2.23754e-07	1.000000
PhCHCCH2+H	6.31621e-08	1.000000	6.31621e-08	1.000000
rad11	2.96871e-09	1.000000	2.96871e-09	1.000000
rad2	2.40980e-09	1.000000	2.40980e-09	1.000000
rad18	1.51666e-09	1.000000	1.51666e-09	1.000000
rad26	3.62922e-10	1.000000	3.62922e-10	1.000000
rad6	2.03418e-10	1.000000	2.03418e-10	1.000000
rad1	1.83167e-10	1.000000	1.83167e-10	1.000000
rad22	1.80365e-10	1.000000	1.80365e-10	1.000000
rad20	7.45866e-11	1.000000	7.45866e-11	1.000000
rad7	7.28593e-11	1.000000	7.28593e-11	1.000000
rad21	5.14294e-11	1.000000	5.14294e-11	1.000000
rad67	3.64701e-11	1.000000	3.64701e-11	1.000000
rad45	2.86747e-11	1.000000	2.86747e-11	1.000000
C2H2+PhCH2	2.21419e-11	1.000000	2.21419e-11	1.000000
rad35	1.66908e-11	1.000000	1.66908e-11	1.000000
rad10	5.02745e-12	1.000000	5.02745e-12	1.000000
rad23	1.88268e-12	1.000000	1.88268e-12	1.000000
rad36	1.86335e-12	1.000000	1.86335e-12	1.000000
rad3	1.32965e-12	1.000000	1.32965e-12	1.000000
rad4	7.19109e-13	1.000000	7.19109e-13	1.000000
rad5	5.15146e-13	1.000000	5.15146e-13	1.000000
PhcycC3H3_A+H	3.72197e-13	1.000000	3.72197e-13	1.000000
PhCCCH3+H	3.32805e-13	1.000000	3.32805e-13	1.000000
Ph+MeAc	1.96260e-13	1.000000	1.96260e-13	1.000000
rad30	9.98294e-14	1.000000	9.98294e-14	1.000000
rad25	8.44058e-14	1.000000	8.44058e-14	1.000000
Ph+Allene	8.41751e-14	1.000000	8.41751e-14	1.000000
rad27	3.38429e-14	1.000000	3.38429e-14	1.000000
PhCCH+CH3	1.65143e-14	1.000000	1.65143e-14	1.000000
PhCH2CCH+H	1.26784e-14	1.000000	1.26784e-14	1.000000
rad13	8.35875e-15	1.000000	8.35875e-15	1.000000
Benzene+cycloprop-2-enylidene	3.61245e-15	1.000000	3.61245e-15	1.000000
rad24	2.18772e-15	1.000000	2.18772e-15	1.000000
Phenyl+cycC3H4	4.45360e-16	1.000000	0.00000	1.000000
rad60syn	2.81537e-16	1.000000	2.81537e-16	1.000000
rad14	1.44207e-16	1.000000	1.44207e-16	1.000000

rad37	1.43904e-16	1.000000	1.43904e-16	1.000000
rad60anti	1.33190e-16	1.000000	1.33190e-16	1.000000
PAH3+H	7.81518e-17	1.000000	7.81518e-17	1.000000
rad28	6.44733e-17	1.000000	6.44733e-17	1.000000
rad33	2.57263e-17	1.000000	2.57263e-17	1.000000
rad59	1.68857e-17	1.000000	1.68857e-17	1.000000
PAH7+H	1.23943e-17	1.000000	1.23943e-17	1.000000
rad38	1.50021e-18	1.000000	1.50021e-18	1.000000
PhcycC3H3_B+H	2.25552e-19	1.000000	2.25552e-19	1.000000
PAH10+CH3	9.64228e-20	1.000000	9.64228e-20	1.000000
rad46	6.60036e-20	1.000000	6.60036e-20	1.000000
rad31	5.89784e-20	1.000000	5.89784e-20	1.000000
PAH9+H	4.15508e-20	1.000000	4.15508e-20	1.000000
rad43	4.78735e-21	1.000000	4.78735e-21	1.000000
rad58	4.55903e-22	1.000000	4.55903e-22	1.000000
rad70	2.66318e-22	1.000000	2.66318e-22	1.000000
rad50	2.49150e-22	1.000000	2.49150e-22	1.000000
rad39	7.03989e-23	1.000000	7.03989e-23	1.000000
rad62	5.38871e-24	1.000000	5.38871e-24	1.000000
PAH1+H	3.18293e-24	1.000000	3.18293e-24	1.000000
rad54	2.42350e-24	1.000000	2.42350e-24	1.000000
rad34	2.00735e-24	1.000000	2.00735e-24	1.000000
rad52	1.20494e-24	1.000000	1.20494e-24	1.000000
rad8	9.92104e-25	1.000000	9.92104e-25	1.000000
rad51	2.36074e-25	1.000000	2.36074e-25	1.000000
rad41	3.45746e-26	1.000000	3.45746e-26	1.000000
rad55	1.25676e-26	1.000000	1.25676e-26	1.000000
rad47	1.69667e-27	1.000000	1.69667e-27	1.000000
Benzene+cycloprop-1-enylidene	1.09842e-27	1.000000	1.09842e-27	1.000000
rad42	1.79172e-28	1.000000	1.79172e-28	1.000000
rad65	4.02053e-29	1.000000	4.02053e-29	1.000000
rad53	9.76945e-34	1.000000	9.76945e-34	1.000000
rad19syn	4.46513e-34	1.000000	4.46513e-34	1.000000
rad61	2.40075e-35	1.000000	2.40075e-35	1.000000
rad68syn	5.99647e-38	1.000000	5.99647e-38	1.000000
rad64	5.62692e-38	1.000000	5.62692e-38	1.000000
rad68anti	4.88795e-38	1.000000	4.88795e-38	1.000000
rad56	4.32212e-40	1.000000	4.32212e-40	1.000000
rad40syn	2.79592e-43	1.000000	2.79592e-43	1.000000
rad40anti	2.17462e-43	1.000000	2.17462e-43	1.000000
rad73	3.99256e-45	1.000000	3.99256e-45	1.000000
PAH8+H	5.84234e-46	1.000000	5.84234e-46	1.000000
rad71	1.84961e-50	1.000000	1.84961e-50	1.000000

100000.000 Pa, 70.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.91520e-16 (1.00)	1.91520e-16 (1.00)
Formation of rad19	1.91520e-16 (1.000)	1.91520e-16 (1.000)
H-abstraction to cyc2enyl	1.01125e-28 (5.28e-13)	1.01125e-28 (5.28e-13)
H-abstraction to cyclenyl	1.97822e-39 (1.03e-23)	1.97822e-39 (1.03e-23)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.995437	0.995437	0.995437	0.995437
rad15	0.00324713	0.998684	0.00324713	0.998684
rad19anti	0.000866393	0.999551	0.000866393	0.999551
Indene+H	0.000449332	1.000000	0.000449332	1.000000
rad12	1.90543e-07	1.000000	1.90543e-07	1.000000
PhCHCCH2+H	8.10862e-08	1.000000	8.10862e-08	1.000000
rad11	3.77046e-09	1.000000	3.77046e-09	1.000000
rad2	3.11003e-09	1.000000	3.11003e-09	1.000000
rad18	1.89515e-09	1.000000	1.89515e-09	1.000000
rad26	4.69193e-10	1.000000	4.69193e-10	1.000000
rad6	3.09580e-10	1.000000	3.09580e-10	1.000000
rad22	2.79213e-10	1.000000	2.79213e-10	1.000000
rad1	2.33040e-10	1.000000	2.33040e-10	1.000000
rad20	9.45186e-11	1.000000	9.45186e-11	1.000000
rad7	7.45799e-11	1.000000	7.45799e-11	1.000000
rad21	6.50574e-11	1.000000	6.50574e-11	1.000000
rad67	5.38911e-11	1.000000	5.38911e-11	1.000000
rad45	4.35014e-11	1.000000	4.35014e-11	1.000000
C2H2+PhCH2	3.68249e-11	1.000000	3.68249e-11	1.000000
rad35	2.45993e-11	1.000000	2.45993e-11	1.000000
rad10	7.85578e-12	1.000000	7.85578e-12	1.000000
rad23	3.46946e-12	1.000000	3.46946e-12	1.000000
rad36	2.80389e-12	1.000000	2.80389e-12	1.000000
rad3	2.08119e-12	1.000000	2.08119e-12	1.000000
rad4	1.11957e-12	1.000000	1.11957e-12	1.000000

rad5	6.45718e-13	1.00000	6.45718e-13	1.00000
PhCCCH3+H	5.31317e-13	1.00000	5.31317e-13	1.00000
Benzene+cycloprop-2-enylidene	5.28015e-13	1.00000	5.28015e-13	1.00000
PhcycC3H3_A+H	4.87844e-13	1.00000	4.87844e-13	1.00000
Ph+MeAc	3.16149e-13	1.00000	3.16149e-13	1.00000
rad30	1.67114e-13	1.00000	1.67114e-13	1.00000
Ph+Allene	1.34595e-13	1.00000	1.34595e-13	1.00000
rad25	1.21225e-13	1.00000	1.21225e-13	1.00000
rad27	4.78732e-14	1.00000	4.78732e-14	1.00000
PhCCH+CH3	3.01881e-14	1.00000	3.01881e-14	1.00000
PhCH2CCH+H	2.05308e-14	1.00000	2.05308e-14	1.00000
rad13	1.22168e-14	1.00000	1.22168e-14	1.00000
rad24	2.19129e-15	1.00000	2.19129e-15	1.00000
Phenyl+cycC3H4	7.86796e-16	1.00000	0.00000	1.00000
rad60syn	4.84805e-16	1.00000	4.84805e-16	1.00000
rad14	2.67885e-16	1.00000	2.67885e-16	1.00000
rad37	2.34127e-16	1.00000	2.34127e-16	1.00000
rad60anti	2.29884e-16	1.00000	2.29884e-16	1.00000
PAH3+H	1.38586e-16	1.00000	1.38586e-16	1.00000
rad28	1.09642e-16	1.00000	1.09642e-16	1.00000
rad33	3.47023e-17	1.00000	3.47023e-17	1.00000
rad59	2.98322e-17	1.00000	2.98322e-17	1.00000
PAH7+H	2.29337e-17	1.00000	2.29337e-17	1.00000
rad38	2.73745e-18	1.00000	2.73745e-18	1.00000
PhcycC3H3_B+H	7.77422e-19	1.00000	7.77422e-19	1.00000
PAH10+CH3	1.66413e-19	1.00000	1.66413e-19	1.00000
rad46	1.23777e-19	1.00000	1.23777e-19	1.00000
PAH9+H	9.50404e-20	1.00000	9.50404e-20	1.00000
rad31	7.39685e-20	1.00000	7.39685e-20	1.00000
rad43	9.41745e-21	1.00000	9.41745e-21	1.00000
rad58	8.88540e-22	1.00000	8.88540e-22	1.00000
rad70	5.42516e-22	1.00000	5.42516e-22	1.00000
rad50	4.81642e-22	1.00000	4.81642e-22	1.00000
rad39	1.46536e-22	1.00000	1.46536e-22	1.00000
rad62	1.35075e-23	1.00000	1.35075e-23	1.00000
Benzene+cycloprop-1-enylidene	1.03290e-23	1.00000	1.03290e-23	1.00000
PAH1+H	6.02242e-24	1.00000	6.02242e-24	1.00000
rad54	5.09004e-24	1.00000	5.09004e-24	1.00000
rad34	4.34809e-24	1.00000	4.34809e-24	1.00000
rad52	2.38599e-24	1.00000	2.38599e-24	1.00000
rad51	4.80824e-25	1.00000	4.80824e-25	1.00000
rad41	8.22730e-26	1.00000	8.22730e-26	1.00000
rad8	4.96304e-26	1.00000	4.96304e-26	1.00000
rad55	2.74935e-26	1.00000	2.74935e-26	1.00000
rad47	3.00218e-27	1.00000	3.00218e-27	1.00000
rad42	5.29442e-28	1.00000	5.29442e-28	1.00000
rad65	1.02794e-28	1.00000	1.02794e-28	1.00000
rad53	3.82031e-33	1.00000	3.82031e-33	1.00000
rad19syn	6.58584e-34	1.00000	6.58584e-34	1.00000
rad61	1.10277e-34	1.00000	1.10277e-34	1.00000
rad68syn	3.33098e-37	1.00000	3.33098e-37	1.00000
rad68anti	2.71199e-37	1.00000	2.71199e-37	1.00000
rad64	2.46708e-37	1.00000	2.46708e-37	1.00000
rad56	2.46391e-39	1.00000	2.46391e-39	1.00000
rad40syn	2.18162e-42	1.00000	2.18162e-42	1.00000
rad40anti	1.70182e-42	1.00000	1.70182e-42	1.00000
rad73	2.95496e-44	1.00000	2.95496e-44	1.00000
PAH8+H	5.11911e-45	1.00000	5.11911e-45	1.00000
rad71	1.73780e-49	1.00000	1.73780e-49	1.00000

100000.000 Pa, 80.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.17084e-16 (1.00)	4.17084e-16 (1.00)
Formation of rad19	4.17084e-16 (1.00)	4.17084e-16 (1.00)
H-abstraction to cyc2enyl	8.98751e-27 (2.15e-11)	8.98751e-27 (2.15e-11)
H-abstraction to cyclenyl	4.00120e-36 (9.59e-21)	4.00120e-36 (9.59e-21)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.995618	0.995618	0.995618	0.995618
rad15	0.00340097	0.999019	0.00340097	0.999019
Indene+H	0.000577972	0.999597	0.000577972	0.999597
rad19anti	0.000402873	1.000000	0.000402873	1.000000
rad12	1.67184e-07	1.000000	1.67184e-07	1.000000
PhCHCCH2+H	1.00353e-07	1.000000	1.00353e-07	1.000000
rad11	4.61514e-09	1.000000	4.61514e-09	1.000000
rad2	3.86765e-09	1.000000	3.86765e-09	1.000000
rad18	2.23372e-09	1.000000	2.23372e-09	1.000000

rad26	5.84090e-10	1.00000	5.84090e-10	1.00000
rad6	4.43599e-10	1.00000	4.43599e-10	1.00000
rad22	4.02418e-10	1.00000	4.02418e-10	1.00000
rad1	2.86767e-10	1.00000	2.86767e-10	1.00000
rad20	1.13761e-10	1.00000	1.13761e-10	1.00000
rad21	7.83754e-11	1.00000	7.83754e-11	1.00000
rad7	7.65658e-11	1.00000	7.65658e-11	1.00000
rad67	7.48680e-11	1.00000	7.48680e-11	1.00000
rad45	6.21338e-11	1.00000	6.21338e-11	1.00000
C2H2+PhCH2	5.65358e-11	1.00000	5.65358e-11	1.00000
rad35	3.40870e-11	1.00000	3.40870e-11	1.00000
Benzene+cycloprop-2-enylidene	2.15484e-11	1.00000	2.15484e-11	1.00000
rad10	1.15160e-11	1.00000	1.15160e-11	1.00000
rad23	5.84158e-12	1.00000	5.84158e-12	1.00000
rad36	3.98096e-12	1.00000	3.98096e-12	1.00000
rad3	3.05440e-12	1.00000	3.05440e-12	1.00000
rad4	1.63642e-12	1.00000	1.63642e-12	1.00000
PhCCCH3+H	7.96352e-13	1.00000	7.96352e-13	1.00000
rad5	7.95701e-13	1.00000	7.95701e-13	1.00000
PhcycC3H3_A+H	6.33212e-13	1.00000	6.33212e-13	1.00000
Ph+MeAc	4.78356e-13	1.00000	4.78356e-13	1.00000
rad30	2.56507e-13	1.00000	2.56507e-13	1.00000
Ph+Allene	2.02033e-13	1.00000	2.02033e-13	1.00000
rad25	1.63499e-13	1.00000	1.63499e-13	1.00000
rad27	6.37202e-14	1.00000	6.37202e-14	1.00000
PhCCH+CH3	5.14291e-14	1.00000	5.14291e-14	1.00000
PhCH2CCH+H	3.12229e-14	1.00000	3.12229e-14	1.00000
rad13	1.68087e-14	1.00000	1.68087e-14	1.00000
rad24	2.16316e-15	1.00000	2.16316e-15	1.00000
Phenyl+cycC3H4	1.32270e-15	1.00000	0.00000	1.00000
rad60syn	7.65403e-16	1.00000	7.65403e-16	1.00000
rad14	4.54819e-16	1.00000	4.54819e-16	1.00000
rad60anti	3.63782e-16	1.00000	3.63782e-16	1.00000
rad37	3.57067e-16	1.00000	3.57067e-16	1.00000
PAH3+H	2.25408e-16	1.00000	2.25408e-16	1.00000
rad28	1.74567e-16	1.00000	1.74567e-16	1.00000
rad59	4.83363e-17	1.00000	4.83363e-17	1.00000
rad33	4.48821e-17	1.00000	4.48821e-17	1.00000
PAH7+H	3.89598e-17	1.00000	3.89598e-17	1.00000
rad38	4.62167e-18	1.00000	4.62167e-18	1.00000
PhcycC3H3_B+H	3.06467e-18	1.00000	3.06467e-18	1.00000
PAH10+CH3	2.69974e-19	1.00000	2.69974e-19	1.00000
rad46	2.13892e-19	1.00000	2.13892e-19	1.00000
PAH9+H	1.94041e-19	1.00000	1.94041e-19	1.00000
rad31	9.05704e-20	1.00000	9.05704e-20	1.00000
rad43	1.70305e-20	1.00000	1.70305e-20	1.00000
Benzene+cycloprop-1-enylidene	9.59328e-21	1.00000	9.59328e-21	1.00000
rad58	1.59403e-21	1.00000	1.59403e-21	1.00000
rad70	1.01705e-21	1.00000	1.01705e-21	1.00000
rad50	8.59395e-22	1.00000	8.59395e-22	1.00000
rad39	2.79643e-22	1.00000	2.79643e-22	1.00000
rad62	3.04184e-23	1.00000	3.04184e-23	1.00000
PAH1+H	1.07707e-23	1.00000	1.07707e-23	1.00000
rad54	9.80061e-24	1.00000	9.80061e-24	1.00000
rad34	8.69941e-24	1.00000	8.69941e-24	1.00000
rad52	4.36611e-24	1.00000	4.36611e-24	1.00000
rad51	9.06648e-25	1.00000	9.06648e-25	1.00000
rad41	1.81673e-25	1.00000	1.81673e-25	1.00000
rad55	5.52777e-26	1.00000	5.52777e-26	1.00000
rad47	4.91399e-27	1.00000	4.91399e-27	1.00000
rad8	4.33089e-27	1.00000	4.33089e-27	1.00000
rad42	1.42152e-27	1.00000	1.42152e-27	1.00000
rad65	2.36844e-28	1.00000	2.36844e-28	1.00000
rad53	1.45255e-32	1.00000	1.45255e-32	1.00000
rad19syn	1.07216e-33	1.00000	1.07216e-33	1.00000
rad61	5.68033e-34	1.00000	5.68033e-34	1.00000
rad68syn	2.07638e-36	1.00000	2.07638e-36	1.00000
rad68anti	1.68808e-36	1.00000	1.68808e-36	1.00000
rad64	1.09725e-36	1.00000	1.09725e-36	1.00000
rad56	1.53689e-38	1.00000	1.53689e-38	1.00000
rad40syn	1.97235e-41	1.00000	1.97235e-41	1.00000
rad40anti	1.54294e-41	1.00000	1.54294e-41	1.00000
rad73	2.49398e-43	1.00000	2.49398e-43	1.00000
PAH8+H	5.32686e-44	1.00000	5.32686e-44	1.00000
rad71	1.93852e-48	1.00000	1.93852e-48	1.00000

100000.000 Pa, 90.0000000 K

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

Total	7.74016e-16 (1.00)	7.74016e-16 (1.00)
Formation of rad19	7.74016e-16 (1.000)	7.74016e-16 (1.000)
H-abstraction to cyc2enyl	2.91736e-25 (3.77e-10)	2.91736e-25 (3.77e-10)
H-abstraction to cyclenyl	1.47814e-33 (1.91e-18)	1.47814e-33 (1.91e-18)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.995580	0.995580	0.995580	0.995580
rad15	0.00350481	0.999085	0.00350481	0.999085
Indene+H	0.000714214	0.999799	0.000714214	0.999799
rad19anti	0.000201060	1.00000	0.000201060	1.00000
rad12	1.49867e-07	1.00000	1.49867e-07	1.00000
PhCHCCH2+H	1.21128e-07	1.00000	1.21128e-07	1.00000
rad11	5.50762e-09	1.00000	5.50762e-09	1.00000
rad2	4.68962e-09	1.00000	4.68962e-09	1.00000
rad18	2.52902e-09	1.00000	2.52902e-09	1.00000
rad26	7.08646e-10	1.00000	7.08646e-10	1.00000
rad6	6.09301e-10	1.00000	6.09301e-10	1.00000
rad22	5.50796e-10	1.00000	5.50796e-10	1.00000
Benzene+cycloprop-2-enylidene	3.76912e-10	1.00000	3.76912e-10	1.00000
rad1	3.44973e-10	1.00000	3.44973e-10	1.00000
rad20	1.31845e-10	1.00000	1.31845e-10	1.00000
rad67	9.96795e-11	1.00000	9.96795e-11	1.00000
rad21	9.09920e-11	1.00000	9.09920e-11	1.00000
rad45	8.49126e-11	1.00000	8.49126e-11	1.00000
C2H2+PhCH2	8.20284e-11	1.00000	8.20284e-11	1.00000
rad7	7.88066e-11	1.00000	7.88066e-11	1.00000
rad35	4.52681e-11	1.00000	4.52681e-11	1.00000
rad10	1.61522e-11	1.00000	1.61522e-11	1.00000
rad23	9.21873e-12	1.00000	9.21873e-12	1.00000
rad36	5.41592e-12	1.00000	5.41592e-12	1.00000
rad3	4.28723e-12	1.00000	4.28723e-12	1.00000
rad4	2.28964e-12	1.00000	2.28964e-12	1.00000
PhCCCH3+H	1.14306e-12	1.00000	1.14306e-12	1.00000
rad5	9.68437e-13	1.00000	9.68437e-13	1.00000
PhcycC3H3_A+H	8.17629e-13	1.00000	8.17629e-13	1.00000
Ph+MeAc	6.93497e-13	1.00000	6.93497e-13	1.00000
rad30	3.70714e-13	1.00000	3.70714e-13	1.00000
Ph+Allene	2.90406e-13	1.00000	2.90406e-13	1.00000
rad25	2.11086e-13	1.00000	2.11086e-13	1.00000
PhCCH+CH3	8.32966e-14	1.00000	8.32966e-14	1.00000
rad27	8.13369e-14	1.00000	8.13369e-14	1.00000
PhCH2CCH+H	4.54943e-14	1.00000	4.54943e-14	1.00000
rad13	2.22053e-14	1.00000	2.22053e-14	1.00000
Phenyl+cycC3H4	2.14046e-15	1.00000	0.00000	1.00000
rad24	2.11144e-15	1.00000	2.11144e-15	1.00000
rad60syn	1.13793e-15	1.00000	1.13793e-15	1.00000
rad14	7.25298e-16	1.00000	7.25298e-16	1.00000
rad60anti	5.42112e-16	1.00000	5.42112e-16	1.00000
rad37	5.21122e-16	1.00000	5.21122e-16	1.00000
PAH3+H	3.45449e-16	1.00000	3.45449e-16	1.00000
rad28	2.65592e-16	1.00000	2.65592e-16	1.00000
rad59	7.37843e-17	1.00000	7.37843e-17	1.00000
PAH7+H	6.23884e-17	1.00000	6.23884e-17	1.00000
rad33	5.64255e-17	1.00000	5.64255e-17	1.00000
PhcycC3H3_B+H	1.17265e-17	1.00000	1.17265e-17	1.00000
rad38	7.39144e-18	1.00000	7.39144e-18	1.00000
Benzene+cycloprop-1-enylidene	1.90970e-18	1.00000	1.90970e-18	1.00000
PAH10+CH3	4.20514e-19	1.00000	4.20514e-19	1.00000
PAH9+H	3.65823e-19	1.00000	3.65823e-19	1.00000
rad46	3.49245e-19	1.00000	3.49245e-19	1.00000
rad31	1.09150e-19	1.00000	1.09150e-19	1.00000
rad43	2.91038e-20	1.00000	2.91038e-20	1.00000
rad58	2.70475e-21	1.00000	2.70475e-21	1.00000
rad70	1.80375e-21	1.00000	1.80375e-21	1.00000
rad50	1.45240e-21	1.00000	1.45240e-21	1.00000
rad39	5.03351e-22	1.00000	5.03351e-22	1.00000
rad62	6.37724e-23	1.00000	6.37724e-23	1.00000
PAH1+H	1.86000e-23	1.00000	1.86000e-23	1.00000
rad54	1.78009e-23	1.00000	1.78009e-23	1.00000
rad34	1.65238e-23	1.00000	1.65238e-23	1.00000
rad52	7.58015e-24	1.00000	7.58015e-24	1.00000
rad51	1.62558e-24	1.00000	1.62558e-24	1.00000
rad41	3.82216e-25	1.00000	3.82216e-25	1.00000
rad55	1.05118e-25	1.00000	1.05118e-25	1.00000
rad47	7.62359e-27	1.00000	7.62359e-27	1.00000
rad42	3.58987e-27	1.00000	3.58987e-27	1.00000
rad8	5.68779e-28	1.00000	5.68779e-28	1.00000
rad65	5.09268e-28	1.00000	5.09268e-28	1.00000
rad53	5.39309e-32	1.00000	5.39309e-32	1.00000

rad61	3.39838e-33	1.00000	3.39838e-33	1.00000
rad19syn	1.87574e-33	1.00000	1.87574e-33	1.00000
rad68syn	1.53824e-35	1.00000	1.53824e-35	1.00000
rad68anti	1.24821e-35	1.00000	1.24821e-35	1.00000
rad64	4.99635e-36	1.00000	4.99635e-36	1.00000
rad56	1.10754e-37	1.00000	1.10754e-37	1.00000
rad40syn	2.18144e-40	1.00000	2.18144e-40	1.00000
rad40anti	1.71054e-40	1.00000	1.71054e-40	1.00000
rad73	2.55097e-42	1.00000	2.55097e-42	1.00000
PAH8+H	7.00150e-43	1.00000	7.00150e-43	1.00000
rad71	2.75993e-47	1.00000	2.75993e-47	1.00000

100000.000 Pa, 100.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.28255e-15 (1.00)	1.28255e-15 (1.00)
Formation of rad19	1.28255e-15 (1.000)	1.28255e-15 (1.000)
H-abstraction to cyc2enyl	4.68359e-24 (3.65e-09)	4.68359e-24 (3.65e-09)
H-abstraction to cyclenyl	1.66242e-31 (1.30e-16)	1.66242e-31 (1.30e-16)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.995462	0.995462	0.995462	0.995462
rad15	0.00357303	0.999035	0.00357303	0.999035
Indene+H	0.000857342	0.999892	0.000857342	0.999892
rad19anti	0.000106838	0.999999	0.000106838	0.999999
PhCHCCH2+H	1.43624e-07	0.999999	1.43624e-07	0.999999
rad12	1.36515e-07	0.999999	1.36515e-07	0.999999
rad11	6.45441e-09	0.999999	6.45441e-09	0.999999
rad2	5.58503e-09	0.999999	5.58503e-09	0.999999
Benzene+cycloprop-2-enylidene	3.65179e-09	1.000000	3.65179e-09	1.000000
rad18	2.78152e-09	1.000000	2.78152e-09	1.000000
rad26	8.44224e-10	1.000000	8.44224e-10	1.000000
rad6	8.11513e-10	1.000000	8.11513e-10	1.000000
rad22	7.25277e-10	1.000000	7.25277e-10	1.000000
rad1	4.08421e-10	1.000000	4.08421e-10	1.000000
rad20	1.48482e-10	1.000000	1.48482e-10	1.000000
rad67	1.28730e-10	1.000000	1.28730e-10	1.000000
C2H2+PhCH2	1.14174e-10	1.000000	1.14174e-10	1.000000
rad45	1.12213e-10	1.000000	1.12213e-10	1.000000
rad21	1.02665e-10	1.000000	1.02665e-10	1.000000
rad7	8.13047e-11	1.000000	8.13047e-11	1.000000
rad35	5.83117e-11	1.000000	5.83117e-11	1.000000
rad10	2.19480e-11	1.000000	2.19480e-11	1.000000
rad23	1.38624e-11	1.000000	1.38624e-11	1.000000
rad36	7.13260e-12	1.000000	7.13260e-12	1.000000
rad3	5.82782e-12	1.000000	5.82782e-12	1.000000
rad4	3.10467e-12	1.000000	3.10467e-12	1.000000
PhCCCH3+H	1.59126e-12	1.000000	1.59126e-12	1.000000
rad5	1.16824e-12	1.000000	1.16824e-12	1.000000
PhcycC3H3_A+H	1.05341e-12	1.000000	1.05341e-12	1.000000
Ph+MeAc	9.75658e-13	1.000000	9.75658e-13	1.000000
rad30	5.12956e-13	1.000000	5.12956e-13	1.000000
Ph+Allene	4.04845e-13	1.000000	4.04845e-13	1.000000
rad25	2.64015e-13	1.000000	2.64015e-13	1.000000
PhCCH+CH3	1.30037e-13	1.000000	1.30037e-13	1.000000
rad27	1.00761e-13	1.000000	1.00761e-13	1.000000
PhCH2CCH+H	6.43302e-14	1.000000	6.43302e-14	1.000000
rad13	2.85121e-14	1.000000	2.85121e-14	1.000000
Phenyl+cycC3H4	3.36569e-15	1.000000	0.000000	1.000000
rad24	2.04371e-15	1.000000	2.04371e-15	1.000000
rad60syn	1.62023e-15	1.000000	1.62023e-15	1.000000
rad14	1.10538e-15	1.000000	1.10538e-15	1.000000
rad60anti	7.73729e-16	1.000000	7.73729e-16	1.000000
rad37	7.37462e-16	1.000000	7.37462e-16	1.000000
PAH3+H	5.07431e-16	1.000000	5.07431e-16	1.000000
rad28	3.91264e-16	1.000000	3.91264e-16	1.000000
Benzene+cycloprop-1-enylidene	1.29619e-16	1.000000	1.29619e-16	1.000000
rad59	1.07935e-16	1.000000	1.07935e-16	1.000000
PAH7+H	9.57822e-17	1.000000	9.57822e-17	1.000000
rad33	6.95446e-17	1.000000	6.95446e-17	1.000000
PhcycC3H3_B+H	3.99108e-17	1.000000	3.99108e-17	1.000000
rad38	1.13671e-17	1.000000	1.13671e-17	1.000000
PAH9+H	6.50902e-19	1.000000	6.50902e-19	1.000000
PAH10+CH3	6.37558e-19	1.000000	6.37558e-19	1.000000
rad46	5.47480e-19	1.000000	5.47480e-19	1.000000
rad31	1.30149e-19	1.000000	1.30149e-19	1.000000
rad43	4.78438e-20	1.000000	4.78438e-20	1.000000
rad58	4.41723e-21	1.000000	4.41723e-21	1.000000

rad70	3.08100e-21	1.000000	3.08100e-21	1.000000
rad50	2.36351e-21	1.000000	2.36351e-21	1.000000
rad39	8.70520e-22	1.000000	8.70520e-22	1.000000
rad62	1.27398e-22	1.000000	1.27398e-22	1.000000
PAH1+H	3.14557e-23	1.000000	3.14557e-23	1.000000
rad54	3.10797e-23	1.000000	3.10797e-23	1.000000
rad34	3.03339e-23	1.000000	3.03339e-23	1.000000
rad52	1.26983e-23	1.000000	1.26983e-23	1.000000
rad51	2.81951e-24	1.000000	2.81951e-24	1.000000
rad41	7.79536e-25	1.000000	7.79536e-25	1.000000
rad55	1.92718e-25	1.000000	1.92718e-25	1.000000
rad47	1.13813e-26	1.000000	1.13813e-26	1.000000
rad42	8.72338e-27	1.000000	8.72338e-27	1.000000
rad65	1.04567e-27	1.000000	1.04567e-27	1.000000
rad8	1.02089e-28	1.000000	1.02089e-28	1.000000
rad53	1.94124e-31	1.000000	1.94124e-31	1.000000
rad61	2.32624e-32	1.000000	2.32624e-32	1.000000
rad19syn	3.48356e-33	1.000000	3.48356e-33	1.000000
rad68syn	1.38458e-34	1.000000	1.38458e-34	1.000000
rad68anti	1.12046e-34	1.000000	1.12046e-34	1.000000
rad64	2.29790e-35	1.000000	2.29790e-35	1.000000
rad56	9.37242e-37	1.000000	9.37242e-37	1.000000
rad40syn	3.10339e-39	1.000000	3.10339e-39	1.000000
rad40anti	2.43620e-39	1.000000	2.43620e-39	1.000000
rad73	3.31067e-41	1.000000	3.31067e-41	1.000000
PAH8+H	1.24677e-41	1.000000	1.24677e-41	1.000000
rad71	5.44146e-46	1.000000	5.44146e-46	1.000000

100000.000 Pa, 110.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.95524e-15 (1.00)	1.95524e-15 (1.00)
Formation of rad19	1.95524e-15 (1.000)	1.95524e-15 (1.000)
H-abstraction to cyc2enyl	4.50936e-23 (2.31e-08)	4.50936e-23 (2.31e-08)
H-abstraction to cyclenyl	7.87782e-30 (4.03e-15)	7.87782e-30 (4.03e-15)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.995317	0.995317	0.995317	0.995317
rad15	0.00361569	0.998933	0.00361569	0.998933
Indene+H	0.00100707	0.999940	0.00100707	0.999940
rad19anti	6.00848e-05	1.000000	6.00848e-05	1.000000
PhCHCCH2+H	1.68107e-07	1.000000	1.68107e-07	1.000000
rad12	1.25906e-07	1.000000	1.25906e-07	1.000000
Benzene+cycloprop-2-enylidene	2.30629e-08	1.000000	2.30629e-08	1.000000
rad11	7.46343e-09	1.000000	7.46343e-09	1.000000
rad2	6.56521e-09	1.000000	6.56521e-09	1.000000
rad18	2.99365e-09	1.000000	2.99365e-09	1.000000
rad6	1.05632e-09	1.000000	1.05632e-09	1.000000
rad26	9.92521e-10	1.000000	9.92521e-10	1.000000
rad22	9.27059e-10	1.000000	9.27059e-10	1.000000
rad1	4.78034e-10	1.000000	4.78034e-10	1.000000
rad20	1.63527e-10	1.000000	1.63527e-10	1.000000
rad67	1.62564e-10	1.000000	1.62564e-10	1.000000
C2H2+PhCH2	1.54013e-10	1.000000	1.54013e-10	1.000000
rad45	1.44475e-10	1.000000	1.44475e-10	1.000000
rad21	1.13267e-10	1.000000	1.13267e-10	1.000000
rad7	8.40723e-11	1.000000	8.40723e-11	1.000000
rad35	7.34477e-11	1.000000	7.34477e-11	1.000000
rad10	2.91385e-11	1.000000	2.91385e-11	1.000000
rad23	2.00889e-11	1.000000	2.00889e-11	1.000000
rad36	9.15924e-12	1.000000	9.15924e-12	1.000000
rad3	7.73741e-12	1.000000	7.73741e-12	1.000000
rad4	4.11396e-12	1.000000	4.11396e-12	1.000000
PhCCCH3+H	2.16715e-12	1.000000	2.16715e-12	1.000000
rad5	1.40061e-12	1.000000	1.40061e-12	1.000000
PhcycC3H3_A+H	1.35712e-12	1.000000	1.35712e-12	1.000000
Ph+MeAc	1.34371e-12	1.000000	1.34371e-12	1.000000
rad30	6.87193e-13	1.000000	6.87193e-13	1.000000
Ph+Allene	5.52133e-13	1.000000	5.52133e-13	1.000000
rad25	3.22474e-13	1.000000	3.22474e-13	1.000000
PhCCH+CH3	1.97633e-13	1.000000	1.97633e-13	1.000000
rad27	1.22106e-13	1.000000	1.22106e-13	1.000000
PhCH2CCH+H	8.90576e-14	1.000000	8.90576e-14	1.000000
rad13	3.58706e-14	1.000000	3.58706e-14	1.000000
Phenyl+cycC3H4	5.18165e-15	1.000000	0.000000	1.000000
Benzene+cycloprop-1-enylidene	4.02908e-15	1.000000	4.02908e-15	1.000000
rad60syn	2.23466e-15	1.000000	2.23466e-15	1.000000
rad24	1.96622e-15	1.000000	1.96622e-15	1.000000

rad14	1.62903e-15	1.00000	1.62903e-15	1.00000
rad60anti	1.06977e-15	1.00000	1.06977e-15	1.00000
rad37	1.02110e-15	1.00000	1.02110e-15	1.00000
PAH3+H	7.22739e-16	1.00000	7.22739e-16	1.00000
rad28	5.63250e-16	1.00000	5.63250e-16	1.00000
rad59	1.53068e-16	1.00000	1.53068e-16	1.00000
PAH7+H	1.42630e-16	1.00000	1.42630e-16	1.00000
PhcycC3H3_B+H	1.19277e-16	1.00000	1.19277e-16	1.00000
rad33	8.45098e-17	1.00000	8.45098e-17	1.00000
rad38	1.69840e-17	1.00000	1.69840e-17	1.00000
PAH9+H	1.10962e-18	1.00000	1.10962e-18	1.00000
PAH10+CH3	9.50014e-19	1.00000	9.50014e-19	1.00000
rad46	8.33017e-19	1.00000	8.33017e-19	1.00000
rad31	1.54108e-19	1.00000	1.54108e-19	1.00000
rad43	7.66013e-20	1.00000	7.66013e-20	1.00000
rad58	7.02768e-21	1.00000	7.02768e-21	1.00000
rad70	5.13245e-21	1.00000	5.13245e-21	1.00000
rad50	3.74585e-21	1.00000	3.74585e-21	1.00000
rad39	1.46556e-21	1.00000	1.46556e-21	1.00000
rad62	2.46506e-22	1.00000	2.46506e-22	1.00000
rad34	5.45023e-23	1.00000	5.45023e-23	1.00000
rad54	5.28669e-23	1.00000	5.28669e-23	1.00000
PAH1+H	5.26260e-23	1.00000	5.26260e-23	1.00000
rad52	2.07680e-23	1.00000	2.07680e-23	1.00000
rad51	4.78832e-24	1.00000	4.78832e-24	1.00000
rad41	1.56020e-24	1.00000	1.56020e-24	1.00000
rad55	3.45349e-25	1.00000	3.45349e-25	1.00000
rad42	2.07271e-26	1.00000	2.07271e-26	1.00000
rad47	1.65167e-26	1.00000	1.65167e-26	1.00000
rad65	2.08411e-27	1.00000	2.08411e-27	1.00000
rad8	2.34420e-29	1.00000	2.34420e-29	1.00000
rad53	6.73209e-31	1.00000	6.73209e-31	1.00000
rad61	1.66793e-31	1.00000	1.66793e-31	1.00000
rad19syn	6.83137e-33	1.00000	6.83137e-33	1.00000
rad68syn	1.40196e-33	1.00000	1.40196e-33	1.00000
rad68anti	1.13031e-33	1.00000	1.13031e-33	1.00000
rad64	1.04421e-34	1.00000	1.04421e-34	1.00000
rad56	8.70935e-36	1.00000	8.70935e-36	1.00000
rad40syn	5.54271e-38	1.00000	5.54271e-38	1.00000
rad40anti	4.34722e-38	1.00000	4.34722e-38	1.00000
rad73	5.23517e-40	1.00000	5.23517e-40	1.00000
PAH8+H	3.03460e-40	1.00000	3.03460e-40	1.00000
rad71	1.50277e-44	1.00000	1.50277e-44	1.00000

100000.000 Pa, 120.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.79817e-15 (1.00)	2.79817e-15 (1.00)
Formation of rad19	2.79817e-15 (1.000)	2.79817e-15 (1.000)
H-abstraction to cyc2enyl	2.96039e-22 (1.06e-07)	2.96039e-22 (1.06e-07)
H-abstraction to cyclenyl	1.95323e-28 (6.98e-14)	1.95323e-28 (6.98e-14)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.995161	0.995161	0.995161	0.995161
rad15	0.00363990	0.998801	0.00363990	0.998801
Indene+H	0.00116343	0.999964	0.00116343	0.999964
rad19anti	3.56022e-05	1.000000	3.56022e-05	1.000000
PhCHCCH2+H	1.94899e-07	1.000000	1.94899e-07	1.000000
rad12	1.17272e-07	1.000000	1.17272e-07	1.000000
Benzene+cycloprop-2-enylidene	1.05797e-07	1.000000	1.05797e-07	1.000000
rad11	8.54414e-09	1.000000	8.54414e-09	1.000000
rad2	7.64400e-09	1.000000	7.64400e-09	1.000000
rad18	3.16875e-09	1.000000	3.16875e-09	1.000000
rad6	1.35139e-09	1.000000	1.35139e-09	1.000000
rad22	1.15773e-09	1.000000	1.15773e-09	1.000000
rad26	1.15562e-09	1.000000	1.15562e-09	1.000000
rad1	5.54926e-10	1.000000	5.54926e-10	1.000000
C2H2+PhCH2	2.02820e-10	1.000000	2.02820e-10	1.000000
rad67	2.01894e-10	1.000000	2.01894e-10	1.000000
rad45	1.82233e-10	1.000000	1.82233e-10	1.000000
rad20	1.76942e-10	1.000000	1.76942e-10	1.000000
rad21	1.22754e-10	1.000000	1.22754e-10	1.000000
rad35	9.09780e-11	1.000000	9.09780e-11	1.000000
rad7	8.71287e-11	1.000000	8.71287e-11	1.000000
rad10	3.80260e-11	1.000000	3.80260e-11	1.000000
rad23	2.82875e-11	1.000000	2.82875e-11	1.000000
rad36	1.15305e-11	1.000000	1.15305e-11	1.000000
rad3	1.00944e-11	1.000000	1.00944e-11	1.000000

rad4	5.35911e-12	1.00000	5.35911e-12	1.00000
PhCCCH3+H	2.90567e-12	1.00000	2.90567e-12	1.00000
Ph+MeAc	1.82325e-12	1.00000	1.82325e-12	1.00000
PhcycC3H3_A+H	1.75133e-12	1.00000	1.75133e-12	1.00000
rad5	1.67260e-12	1.00000	1.67260e-12	1.00000
rad30	8.98389e-13	1.00000	8.98389e-13	1.00000
Ph+Allene	7.41319e-13	1.00000	7.41319e-13	1.00000
rad25	3.86794e-13	1.00000	3.86794e-13	1.00000
PhCCH+CH3	2.94635e-13	1.00000	2.94635e-13	1.00000
rad27	1.45561e-13	1.00000	1.45561e-13	1.00000
PhCH2CCH+H	1.21483e-13	1.00000	1.21483e-13	1.00000
Benzene+cycloprop-1-enylidene	6.98038e-14	1.00000	6.98038e-14	1.00000
rad13	4.44656e-14	1.00000	4.44656e-14	1.00000
Phenyl+cycC3H4	7.85837e-15	1.00000	0.00000	1.00000
rad60syn	3.00978e-15	1.00000	3.00978e-15	1.00000
rad14	2.34103e-15	1.00000	2.34103e-15	1.00000
rad24	1.88382e-15	1.00000	1.88382e-15	1.00000
rad60anti	1.44446e-15	1.00000	1.44446e-15	1.00000
rad37	1.39247e-15	1.00000	1.39247e-15	1.00000
PAH3+H	1.00647e-15	1.00000	1.00647e-15	1.00000
rad28	7.97717e-16	1.00000	7.97717e-16	1.00000
PhcycC3H3_B+H	3.17736e-16	1.00000	3.17736e-16	1.00000
rad59	2.12189e-16	1.00000	2.12189e-16	1.00000
PAH7+H	2.07752e-16	1.00000	2.07752e-16	1.00000
rad33	1.01663e-16	1.00000	1.01663e-16	1.00000
rad38	2.48414e-17	1.00000	2.48414e-17	1.00000
PAH9+H	1.83245e-18	1.00000	1.83245e-18	1.00000
PAH10+CH3	1.40139e-18	1.00000	1.40139e-18	1.00000
rad46	1.24009e-18	1.00000	1.24009e-18	1.00000
rad31	1.81707e-19	1.00000	1.81707e-19	1.00000
rad43	1.20546e-19	1.00000	1.20546e-19	1.00000
rad58	1.09886e-20	1.00000	1.09886e-20	1.00000
rad70	8.41572e-21	1.00000	8.41572e-21	1.00000
rad50	5.83059e-21	1.00000	5.83059e-21	1.00000
rad39	2.42572e-21	1.00000	2.42572e-21	1.00000
rad62	4.67639e-22	1.00000	4.67639e-22	1.00000
rad34	9.67382e-23	1.00000	9.67382e-23	1.00000
rad54	8.85059e-23	1.00000	8.85059e-23	1.00000
PAH1+H	8.77747e-23	1.00000	8.77747e-23	1.00000
rad52	3.34512e-23	1.00000	3.34512e-23	1.00000
rad51	8.03456e-24	1.00000	8.03456e-24	1.00000
rad41	3.09184e-24	1.00000	3.09184e-24	1.00000
rad55	6.11269e-25	1.00000	6.11269e-25	1.00000
rad42	4.87137e-26	1.00000	4.87137e-26	1.00000
rad47	2.34664e-26	1.00000	2.34664e-26	1.00000
rad65	4.08221e-27	1.00000	4.08221e-27	1.00000
rad8	6.56971e-30	1.00000	6.56971e-30	1.00000
rad53	2.24688e-30	1.00000	2.24688e-30	1.00000
rad61	1.13436e-30	1.00000	1.13436e-30	1.00000
rad19syn	1.41177e-32	1.00000	1.41177e-32	1.00000
rad68syn	1.39076e-32	1.00000	1.39076e-32	1.00000
rad68anti	1.11630e-32	1.00000	1.11630e-32	1.00000
rad64	4.61142e-34	1.00000	4.61142e-34	1.00000
rad56	7.94296e-35	1.00000	7.94296e-35	1.00000
rad40syn	1.07541e-36	1.00000	1.07541e-36	1.00000
rad40anti	8.41363e-37	1.00000	8.41363e-37	1.00000
PAH8+H	9.04731e-39	1.00000	9.04731e-39	1.00000
rad73	8.73675e-39	1.00000	8.73675e-39	1.00000
rad71	5.18331e-43	1.00000	5.18331e-43	1.00000

100000.000 Pa, 130.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.81236e-15 (1.00000)	3.81236e-15 (1.00000)
Formation of rad19	3.81236e-15 (1.00000)	3.81236e-15 (1.00000)
H-abstraction to cyc2enyl	1.44825e-21 (3.80e-07)	1.44825e-21 (3.80e-07)
H-abstraction to cyclenyl	2.94348e-27 (7.72e-13)	2.94348e-27 (7.72e-13)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.995000	0.995000	0.995000	0.995000
rad15	0.00365075	0.998650	0.00365075	0.998650
Indene+H	0.00132672	0.999977	0.00132672	0.999977
rad19anti	2.21492e-05	0.999999	2.21492e-05	0.999999
Benzene+cycloprop-2-enylidene	3.79882e-07	1.000000	3.79882e-07	1.000000
PhCHCCH2+H	2.24391e-07	1.000000	2.24391e-07	1.000000
rad12	1.10112e-07	1.000000	1.10112e-07	1.000000
rad11	9.70762e-09	1.000000	9.70762e-09	1.000000
rad2	8.83834e-09	1.000000	8.83834e-09	1.000000

rad18	3.31050e-09	1.000000	3.31050e-09	1.000000
rad6	1.70646e-09	1.000000	1.70646e-09	1.000000
rad22	1.41940e-09	1.000000	1.41940e-09	1.000000
rad26	1.33606e-09	1.000000	1.33606e-09	1.000000
rad1	6.40450e-10	1.000000	6.40450e-10	1.000000
C2H2+PhCH2	2.62180e-10	1.000000	2.62180e-10	1.000000
rad67	2.47639e-10	1.000000	2.47639e-10	1.000000
rad45	2.26150e-10	1.000000	2.26150e-10	1.000000
rad20	1.88759e-10	1.000000	1.88759e-10	1.000000
rad21	1.31140e-10	1.000000	1.31140e-10	1.000000
rad35	1.11291e-10	1.000000	1.11291e-10	1.000000
rad7	9.05000e-11	1.000000	9.05000e-11	1.000000
rad10	4.90023e-11	1.000000	4.90023e-11	1.000000
rad23	3.89444e-11	1.000000	3.89444e-11	1.000000
rad36	1.42897e-11	1.000000	1.42897e-11	1.000000
rad3	1.29993e-11	1.000000	1.29993e-11	1.000000
rad4	6.89367e-12	1.000000	6.89367e-12	1.000000
PhCCCH3+H	3.85387e-12	1.000000	3.85387e-12	1.000000
Ph+MeAc	2.44934e-12	1.000000	2.44934e-12	1.000000
PhcycC3H3_A+H	2.26688e-12	1.000000	2.26688e-12	1.000000
rad5	1.99321e-12	1.000000	1.99321e-12	1.000000
rad30	1.15281e-12	1.000000	1.15281e-12	1.000000
Ph+Allene	9.84592e-13	1.000000	9.84592e-13	1.000000
Benzene+cycloprop-1-enylidene	7.72089e-13	1.000000	7.72089e-13	1.000000
rad25	4.57459e-13	1.000000	4.57459e-13	1.000000
PhCCH+CH3	4.33433e-13	1.000000	4.33433e-13	1.000000
rad27	1.71391e-13	1.000000	1.71391e-13	1.000000
PhCH2CCH+H	1.64094e-13	1.000000	1.64094e-13	1.000000
rad13	5.45346e-14	1.000000	5.45346e-14	1.000000
Phenyl+cycC3H4	1.17957e-14	1.000000	0.00000	1.000000
rad60syn	3.98241e-15	1.000000	3.98241e-15	1.000000
rad14	3.30101e-15	1.000000	3.30101e-15	1.000000
rad60anti	1.91626e-15	1.000000	1.91626e-15	1.000000
rad37	1.87969e-15	1.000000	1.87969e-15	1.000000
rad24	1.80018e-15	1.000000	1.80018e-15	1.000000
PAH3+H	1.37893e-15	1.000000	1.37893e-15	1.000000
rad28	1.11736e-15	1.000000	1.11736e-15	1.000000
PhcycC3H3_B+H	7.69765e-16	1.000000	7.69765e-16	1.000000
PAH7+H	2.97900e-16	1.000000	2.97900e-16	1.000000
rad59	2.89308e-16	1.000000	2.89308e-16	1.000000
rad33	1.21433e-16	1.000000	1.21433e-16	1.000000
rad38	3.57750e-17	1.000000	3.57750e-17	1.000000
PAH9+H	2.95631e-18	1.000000	2.95631e-18	1.000000
PAH10+CH3	2.05821e-18	1.000000	2.05821e-18	1.000000
rad46	1.81727e-18	1.000000	1.81727e-18	1.000000
rad31	2.13808e-19	1.000000	2.13808e-19	1.000000
rad43	1.87778e-19	1.000000	1.87778e-19	1.000000
rad58	1.69995e-20	1.000000	1.69995e-20	1.000000
rad70	1.36793e-20	1.000000	1.36793e-20	1.000000
rad50	8.97165e-21	1.000000	8.97165e-21	1.000000
rad39	3.97849e-21	1.000000	3.97849e-21	1.000000
rad62	8.77919e-22	1.000000	8.77919e-22	1.000000
rad34	1.70802e-22	1.000000	1.70802e-22	1.000000
rad54	1.47001e-22	1.000000	1.47001e-22	1.000000
PAH1+H	1.46832e-22	1.000000	1.46832e-22	1.000000
rad52	5.34256e-23	1.000000	5.34256e-23	1.000000
rad51	1.34145e-23	1.000000	1.34145e-23	1.000000
rad41	6.10598e-24	1.000000	6.10598e-24	1.000000
rad55	1.07752e-24	1.000000	1.07752e-24	1.000000
rad42	1.14161e-25	1.000000	1.14161e-25	1.000000
rad47	3.28112e-26	1.000000	3.28112e-26	1.000000
rad65	7.93428e-27	1.000000	7.93428e-27	1.000000
rad53	7.23749e-30	1.000000	7.23749e-30	1.000000
rad61	6.92529e-30	1.000000	6.92529e-30	1.000000
rad8	2.17088e-30	1.000000	2.17088e-30	1.000000
rad68syn	1.22389e-31	1.000000	1.22389e-31	1.000000
rad68anti	9.77519e-32	1.000000	9.77519e-32	1.000000
rad19syn	3.07321e-32	1.000000	3.07321e-32	1.000000
rad64	1.96504e-33	1.000000	1.96504e-33	1.000000
rad56	6.56178e-34	1.000000	6.56178e-34	1.000000
rad40syn	1.90530e-35	1.000000	1.90530e-35	1.000000
rad40anti	1.48675e-35	1.000000	1.48675e-35	1.000000
PAH8+H	2.55774e-37	1.000000	2.55774e-37	1.000000
rad73	1.33019e-37	1.000000	1.33019e-37	1.000000
rad71	1.71416e-41	1.000000	1.71416e-41	1.000000

100000.000 Pa, 140.000000 K

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Rate constant | True (fraction) Effective (fraction)

Total	4.99515e-15 (1.00)	4.99515e-15 (1.00)
Formation of rad19	4.99514e-15 (1.000)	4.99514e-15 (1.000)
H-abstraction to cyc2enyl	5.62488e-21 (1.13e-06)	5.62488e-21 (1.13e-06)
H-abstraction to cyclenyl	3.00047e-26 (6.01e-12)	3.00047e-26 (6.01e-12)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.994835	0.994835	0.994835	0.994835
rad15	0.00365193	0.998487	0.00365193	0.998487
Indene+H	0.00149744	0.999984	0.00149744	0.999984
rad19anti	1.44295e-05	0.999999	1.44295e-05	0.999999
Benzene+cycloprop-2-enylidene	1.12607e-06	1.000000	1.12607e-06	1.000000
PhCHCCH2+H	2.57058e-07	1.000000	2.57058e-07	1.000000
rad12	1.04080e-07	1.000000	1.04080e-07	1.000000
rad11	1.09668e-08	1.000000	1.09668e-08	1.000000
rad2	1.01688e-08	1.000000	1.01688e-08	1.000000
rad18	3.42255e-09	1.000000	3.42255e-09	1.000000
rad6	2.13383e-09	1.000000	2.13383e-09	1.000000
rad22	1.71476e-09	1.000000	1.71476e-09	1.000000
rad26	1.53695e-09	1.000000	1.53695e-09	1.000000
rad1	7.36256e-10	1.000000	7.36256e-10	1.000000
C2H2+PhCH2	3.34081e-10	1.000000	3.34081e-10	1.000000
rad67	3.00964e-10	1.000000	3.00964e-10	1.000000
rad45	2.77055e-10	1.000000	2.77055e-10	1.000000
rad20	1.99062e-10	1.000000	1.99062e-10	1.000000
rad21	1.38476e-10	1.000000	1.38476e-10	1.000000
rad35	1.34880e-10	1.000000	1.34880e-10	1.000000
rad7	9.42174e-11	1.000000	9.42174e-11	1.000000
rad10	6.25772e-11	1.000000	6.25772e-11	1.000000
rad23	5.26738e-11	1.000000	5.26738e-11	1.000000
rad36	1.74912e-11	1.000000	1.74912e-11	1.000000
rad3	1.65822e-11	1.000000	1.65822e-11	1.000000
rad4	8.78686e-12	1.000000	8.78686e-12	1.000000
Benzene+cycloprop-1-enylidene	6.00677e-12	1.000000	6.00677e-12	1.000000
PhCCCH3+H	5.07571e-12	1.000000	5.07571e-12	1.000000
Ph+MeAc	3.27047e-12	1.000000	3.27047e-12	1.000000
PhcycC3H3_A+H	2.94604e-12	1.000000	2.94604e-12	1.000000
rad5	2.37398e-12	1.000000	2.37398e-12	1.000000
rad30	1.45839e-12	1.000000	1.45839e-12	1.000000
Ph+Allene	1.29849e-12	1.000000	1.29849e-12	1.000000
PhCCH+CH3	6.32196e-13	1.000000	6.32196e-13	1.000000
rad25	5.35096e-13	1.000000	5.35096e-13	1.000000
PhCH2CCH+H	2.20341e-13	1.000000	2.20341e-13	1.000000
rad27	1.99944e-13	1.000000	1.99944e-13	1.000000
rad13	6.63802e-14	1.000000	6.63802e-14	1.000000
Phenyl+cycC3H4	1.75865e-14	1.000000	0.000000	1.000000
rad60syn	5.20048e-15	1.000000	5.20048e-15	1.000000
rad14	4.58887e-15	1.000000	4.58887e-15	1.000000
rad37	2.52180e-15	1.000000	2.52180e-15	1.000000
rad60anti	2.50919e-15	1.000000	2.50919e-15	1.000000
PAH3+H	1.86759e-15	1.000000	1.86759e-15	1.000000
PhcycC3H3_B+H	1.72713e-15	1.000000	1.72713e-15	1.000000
rad24	1.71796e-15	1.000000	1.71796e-15	1.000000
rad28	1.55442e-15	1.000000	1.55442e-15	1.000000
PAH7+H	4.22624e-16	1.000000	4.22624e-16	1.000000
rad59	3.89825e-16	1.000000	3.89825e-16	1.000000
rad33	1.44361e-16	1.000000	1.44361e-16	1.000000
rad38	5.09636e-17	1.000000	5.09636e-17	1.000000
PAH9+H	4.69048e-18	1.000000	4.69048e-18	1.000000
PAH10+CH3	3.02367e-18	1.000000	3.02367e-18	1.000000
rad46	2.63431e-18	1.000000	2.63431e-18	1.000000
rad43	2.91153e-19	1.000000	2.91153e-19	1.000000
rad31	2.51515e-19	1.000000	2.51515e-19	1.000000
rad58	2.61525e-20	1.000000	2.61525e-20	1.000000
rad70	2.21617e-20	1.000000	2.21617e-20	1.000000
rad50	1.37181e-20	1.000000	1.37181e-20	1.000000
rad39	6.50820e-21	1.000000	6.50820e-21	1.000000
rad62	1.64265e-21	1.000000	1.64265e-21	1.000000
rad34	3.01511e-22	1.000000	3.01511e-22	1.000000
PAH1+H	2.47492e-22	1.000000	2.47492e-22	1.000000
rad54	2.43797e-22	1.000000	2.43797e-22	1.000000
rad52	8.50686e-23	1.000000	8.50686e-23	1.000000
rad51	2.24103e-23	1.000000	2.24103e-23	1.000000
rad41	1.20706e-23	1.000000	1.20706e-23	1.000000
rad55	1.90396e-24	1.000000	1.90396e-24	1.000000
rad42	2.68131e-25	1.000000	2.68131e-25	1.000000
rad47	4.53280e-26	1.000000	4.53280e-26	1.000000
rad65	1.54171e-26	1.000000	1.54171e-26	1.000000
rad61	3.74056e-29	1.000000	3.74056e-29	1.000000
rad53	2.25983e-29	1.000000	2.25983e-29	1.000000

rad68syn	9.20550e-31	1.00000	9.20550e-31	1.00000
rad8	8.24083e-31	1.00000	8.24083e-31	1.00000
rad68anti	7.31241e-31	1.00000	7.31241e-31	1.00000
rad19syn	7.04817e-32	1.00000	7.04817e-32	1.00000
rad64	8.07670e-33	1.00000	8.07670e-33	1.00000
rad56	4.76192e-33	1.00000	4.76192e-33	1.00000
rad40syn	2.81077e-34	1.00000	2.81077e-34	1.00000
rad40anti	2.18830e-34	1.00000	2.18830e-34	1.00000
PAH8+H	5.95475e-36	1.00000	5.95475e-36	1.00000
rad73	1.71684e-36	1.00000	1.71684e-36	1.00000
rad71	4.67699e-40	1.00000	4.67699e-40	1.00000

100000.000 Pa, 150.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.34137e-15 (1.00)	6.34137e-15 (1.00)
Formation of rad19	6.34135e-15 (1.000)	6.34135e-15 (1.000)
H-abstraction to cyc2enyl	1.81685e-20 (2.87e-06)	1.81685e-20 (2.87e-06)
H-abstraction to cyclenyl	2.23765e-25 (3.53e-11)	2.23765e-25 (3.53e-11)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.994664	0.994664	0.994664	0.994664
rad15	0.00364611	0.998310	0.00364611	0.998310
Indene+H	0.00167631	0.999987	0.00167631	0.999987
rad19anti	9.82331e-06	0.999996	9.82331e-06	0.999996
Benzene+cycloprop-2-enylidene	2.86508e-06	0.999999	2.86508e-06	0.999999
PhCHCCH2+H	2.93475e-07	1.000000	2.93475e-07	1.000000
rad12	9.89345e-08	1.000000	9.89345e-08	1.000000
rad11	1.23367e-08	1.000000	1.23367e-08	1.000000
rad2	1.16603e-08	1.000000	1.16603e-08	1.000000
rad18	3.50838e-09	1.000000	3.50838e-09	1.000000
rad6	2.64914e-09	1.000000	2.64914e-09	1.000000
rad22	2.04718e-09	1.000000	2.04718e-09	1.000000
rad26	1.76203e-09	1.000000	1.76203e-09	1.000000
rad1	8.44355e-10	1.000000	8.44355e-10	1.000000
C2H2+PhCH2	4.21031e-10	1.000000	4.21031e-10	1.000000
rad67	3.63343e-10	1.000000	3.63343e-10	1.000000
rad45	3.35978e-10	1.000000	3.35978e-10	1.000000
rad20	2.07964e-10	1.000000	2.07964e-10	1.000000
rad35	1.62368e-10	1.000000	1.62368e-10	1.000000
rad21	1.44841e-10	1.000000	1.44841e-10	1.000000
rad7	9.83162e-11	1.000000	9.83162e-11	1.000000
rad10	7.94176e-11	1.000000	7.94176e-11	1.000000
rad23	7.02590e-11	1.000000	7.02590e-11	1.000000
Benzene+cycloprop-1-enylidene	3.52865e-11	1.000000	3.52865e-11	1.000000
rad36	2.12031e-11	1.000000	2.12031e-11	1.000000
rad3	2.10106e-11	1.000000	2.10106e-11	1.000000
rad4	1.11283e-11	1.000000	1.11283e-11	1.000000
PhCCCH3+H	6.65877e-12	1.000000	6.65877e-12	1.000000
Ph+MeAc	4.35434e-12	1.000000	4.35434e-12	1.000000
PhcycC3H3_A+H	3.84669e-12	1.000000	3.84669e-12	1.000000
rad5	2.82967e-12	1.000000	2.82967e-12	1.000000
rad30	1.82518e-12	1.000000	1.82518e-12	1.000000
Ph+Allene	1.70560e-12	1.000000	1.70560e-12	1.000000
PhCCH+CH3	9.17862e-13	1.000000	9.17862e-13	1.000000
rad25	6.20486e-13	1.000000	6.20486e-13	1.000000
PhCH2CCH+H	2.95056e-13	1.000000	2.95056e-13	1.000000
rad27	2.31660e-13	1.000000	2.31660e-13	1.000000
rad13	8.03868e-14	1.000000	8.03868e-14	1.000000
Phenyl+cycC3H4	2.61093e-14	1.000000	0.00000	1.000000
rad60syn	6.72654e-15	1.000000	6.72654e-15	1.000000
rad14	6.31203e-15	1.000000	6.31203e-15	1.000000
PhcycC3H3_B+H	3.64246e-15	1.000000	3.64246e-15	1.000000
rad37	3.37357e-15	1.000000	3.37357e-15	1.000000
rad60anti	3.25471e-15	1.000000	3.25471e-15	1.000000
PAH3+H	2.50998e-15	1.000000	2.50998e-15	1.000000
rad28	2.15522e-15	1.000000	2.15522e-15	1.000000
rad24	1.63906e-15	1.000000	1.63906e-15	1.000000
PAH7+H	5.95555e-16	1.000000	5.95555e-16	1.000000
rad59	5.21050e-16	1.000000	5.21050e-16	1.000000
rad33	1.71125e-16	1.000000	1.71125e-16	1.000000
rad38	7.20877e-17	1.000000	7.20877e-17	1.000000
PAH9+H	7.35814e-18	1.000000	7.35814e-18	1.000000
PAH10+CH3	4.46001e-18	1.000000	4.46001e-18	1.000000
rad46	3.79236e-18	1.000000	3.79236e-18	1.000000
rad43	4.51335e-19	1.000000	4.51335e-19	1.000000
rad31	2.96257e-19	1.000000	2.96257e-19	1.000000
rad58	4.01649e-20	1.000000	4.01649e-20	1.000000

rad70	3.59329e-20	1.000000	3.59329e-20	1.000000
rad50	2.09320e-20	1.000000	2.09320e-20	1.000000
rad39	1.06764e-20	1.000000	1.06764e-20	1.000000
rad62	3.07931e-21	1.000000	3.07931e-21	1.000000
rad34	5.34004e-22	1.000000	5.34004e-22	1.000000
PAH1+H	4.21748e-22	1.000000	4.21748e-22	1.000000
rad54	4.05820e-22	1.000000	4.05820e-22	1.000000
rad52	1.35633e-22	1.000000	1.35633e-22	1.000000
rad51	3.76240e-23	1.000000	3.76240e-23	1.000000
rad41	2.39519e-23	1.000000	2.39519e-23	1.000000
rad55	3.38908e-24	1.000000	3.38908e-24	1.000000
rad42	6.32746e-25	1.000000	6.32746e-25	1.000000
rad47	6.20586e-26	1.000000	6.20586e-26	1.000000
rad65	3.01168e-26	1.000000	3.01168e-26	1.000000
rad61	1.79814e-28	1.000000	1.79814e-28	1.000000
rad53	6.86991e-29	1.000000	6.86991e-29	1.000000
rad68syn	5.91411e-30	1.000000	5.91411e-30	1.000000
rad68anti	4.66951e-30	1.000000	4.66951e-30	1.000000
rad8	3.52289e-31	1.000000	3.52289e-31	1.000000
rad19syn	1.70371e-31	1.000000	1.70371e-31	1.000000
rad64	3.21114e-32	1.000000	3.21114e-32	1.000000
rad56	3.03352e-32	1.000000	3.03352e-32	1.000000
rad40syn	3.36347e-33	1.000000	3.36347e-33	1.000000
rad40anti	2.61355e-33	1.000000	2.61355e-33	1.000000
PAH8+H	1.08448e-34	1.000000	1.08448e-34	1.000000
rad73	1.84379e-35	1.000000	1.84379e-35	1.000000
rad71	9.96475e-39	1.000000	9.96475e-39	1.000000

100000.000 Pa, 160.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.84423e-15 (1.00)	7.84423e-15 (1.00)
Formation of rad19	7.84418e-15 (1.000)	7.84418e-15 (1.000)
H-abstraction to cyc2enyl	5.05321e-20 (6.44e-06)	5.05321e-20 (6.44e-06)
H-abstraction to cyclenyl	1.29479e-24 (1.65e-10)	1.29479e-24 (1.65e-10)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.994487	0.994487	0.994487	0.994487
rad15	0.00363526	0.998122	0.00363526	0.998122
Indene+H	0.00186418	0.999986	0.00186418	0.999986
rad19anti	6.97687e-06	0.999993	6.97687e-06	0.999993
Benzene+cycloprop-2-enylidene	6.44194e-06	0.999999	6.44194e-06	0.999999
PhCHCCH2+H	3.34335e-07	1.000000	3.34335e-07	1.000000
rad12	9.44980e-08	1.000000	9.44980e-08	1.000000
rad11	1.38343e-08	1.000000	1.38343e-08	1.000000
rad2	1.33431e-08	1.000000	1.33431e-08	1.000000
rad18	3.57120e-09	1.000000	3.57120e-09	1.000000
rad6	3.27223e-09	1.000000	3.27223e-09	1.000000
rad22	2.42081e-09	1.000000	2.42081e-09	1.000000
rad26	2.01589e-09	1.000000	2.01589e-09	1.000000
rad1	9.67197e-10	1.000000	9.67197e-10	1.000000
C2H2+PhCH2	5.26195e-10	1.000000	5.26195e-10	1.000000
rad67	4.36631e-10	1.000000	4.36631e-10	1.000000
rad45	4.04198e-10	1.000000	4.04198e-10	1.000000
rad20	2.15599e-10	1.000000	2.15599e-10	1.000000
rad35	1.94535e-10	1.000000	1.94535e-10	1.000000
Benzene+cycloprop-1-enylidene	1.65062e-10	1.000000	1.65062e-10	1.000000
rad21	1.50324e-10	1.000000	1.50324e-10	1.000000
rad7	1.02835e-10	1.000000	1.02835e-10	1.000000
rad10	1.00397e-10	1.000000	1.00397e-10	1.000000
rad23	9.27043e-11	1.000000	9.27043e-11	1.000000
rad3	2.65015e-11	1.000000	2.65015e-11	1.000000
rad36	2.55103e-11	1.000000	2.55103e-11	1.000000
rad4	1.40340e-11	1.000000	1.40340e-11	1.000000
PhCCCH3+H	8.72380e-12	1.000000	8.72380e-12	1.000000
Ph+MeAc	5.79618e-12	1.000000	5.79618e-12	1.000000
PhcycC3H3_A+H	5.04808e-12	1.000000	5.04808e-12	1.000000
rad5	3.37924e-12	1.000000	3.37924e-12	1.000000
rad30	2.26591e-12	1.000000	2.26591e-12	1.000000
Ph+Allene	2.23694e-12	1.000000	2.23694e-12	1.000000
PhCCH+CH3	1.33073e-12	1.000000	1.33073e-12	1.000000
rad25	7.14554e-13	1.000000	7.14554e-13	1.000000
PhCH2CCH+H	3.95039e-13	1.000000	3.95039e-13	1.000000
rad27	2.67085e-13	1.000000	2.67085e-13	1.000000
rad13	9.70406e-14	1.000000	9.70406e-14	1.000000
Phenyl+cycC3H4	3.86632e-14	1.000000	0.00000	1.000000
rad60syn	8.64249e-15	1.000000	8.64249e-15	1.000000
rad14	8.61501e-15	1.000000	8.61501e-15	1.000000

PhcycC3H3_B+H	7.30495e-15	1.000000	7.30495e-15	1.000000
rad37	4.51240e-15	1.000000	4.51240e-15	1.000000
rad60anti	4.19420e-15	1.000000	4.19420e-15	1.000000
PAH3+H	3.35752e-15	1.000000	3.35752e-15	1.000000
rad28	2.98692e-15	1.000000	2.98692e-15	1.000000
rad24	1.56483e-15	1.000000	1.56483e-15	1.000000
PAH7+H	8.36276e-16	1.000000	8.36276e-16	1.000000
rad59	6.92931e-16	1.000000	6.92931e-16	1.000000
rad33	2.02571e-16	1.000000	2.02571e-16	1.000000
rad38	1.01564e-16	1.000000	1.01564e-16	1.000000
PAH9+H	1.14627e-17	1.000000	1.14627e-17	1.000000
PAH10+CH3	6.62528e-18	1.000000	6.62528e-18	1.000000
rad46	5.43947e-18	1.000000	5.43947e-18	1.000000
rad43	7.01883e-19	1.000000	7.01883e-19	1.000000
rad31	3.49895e-19	1.000000	3.49895e-19	1.000000
rad58	6.17534e-20	1.000000	6.17534e-20	1.000000
rad70	5.84791e-20	1.000000	5.84791e-20	1.000000
rad50	3.19827e-20	1.000000	3.19827e-20	1.000000
rad39	1.76418e-20	1.000000	1.76418e-20	1.000000
rad62	5.80373e-21	1.000000	5.80373e-21	1.000000
rad34	9.50876e-22	1.000000	9.50876e-22	1.000000
PAH1+H	7.28187e-22	1.000000	7.28187e-22	1.000000
rad54	6.80727e-22	1.000000	6.80727e-22	1.000000
rad52	2.17279e-22	1.000000	2.17279e-22	1.000000
rad51	6.36847e-23	1.000000	6.36847e-23	1.000000
rad41	4.77738e-23	1.000000	4.77738e-23	1.000000
rad55	6.09856e-24	1.000000	6.09856e-24	1.000000
rad42	1.50098e-24	1.000000	1.50098e-24	1.000000
rad47	8.44061e-26	1.000000	8.44061e-26	1.000000
rad65	5.93724e-26	1.000000	5.93724e-26	1.000000
rad61	7.79464e-28	1.000000	7.79464e-28	1.000000
rad53	2.04092e-28	1.000000	2.04092e-28	1.000000
rad68syn	3.29112e-29	1.000000	3.29112e-29	1.000000
rad68anti	2.58118e-29	1.000000	2.58118e-29	1.000000
rad19syn	4.34229e-31	1.000000	4.34229e-31	1.000000
rad56	1.71613e-31	1.000000	1.71613e-31	1.000000
rad8	1.66991e-31	1.000000	1.66991e-31	1.000000
rad64	1.23948e-31	1.000000	1.23948e-31	1.000000
rad40syn	3.29084e-32	1.000000	3.29084e-32	1.000000
rad40anti	2.55291e-32	1.000000	2.55291e-32	1.000000
PAH8+H	1.54778e-33	1.000000	1.54778e-33	1.000000
rad73	1.66131e-34	1.000000	1.66131e-34	1.000000
rad71	1.65675e-37	1.000000	1.65675e-37	1.000000

100000.000 Pa, 170.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.49598e-15 (1.00)	9.49598e-15 (1.00)
Formation of rad19	9.49586e-15 (1.000)	9.49586e-15 (1.000)
H-abstraction to cyc2enyl	1.24279e-19 (1.31e-05)	1.24279e-19 (1.31e-05)
H-abstraction to cyclenyl	6.08025e-24 (6.40e-10)	6.08025e-24 (6.40e-10)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.994298	0.994298	0.994298	0.994298
rad15	0.00362081	0.997919	0.00362081	0.997919
Benzene+H	0.00206213	0.999981	0.00206213	0.999981
Benzene+cycloprop-2-enylidene	1.30875e-05	0.999994	1.30875e-05	0.999994
rad19anti	5.16255e-06	0.999999	5.16255e-06	0.999999
PhCHCCH2+H	3.80472e-07	1.000000	3.80472e-07	1.000000
rad12	9.06393e-08	1.000000	9.06393e-08	1.000000
rad11	1.54791e-08	1.000000	1.54791e-08	1.000000
rad2	1.52537e-08	1.000000	1.52537e-08	1.000000
rad6	4.02826e-09	1.000000	4.02826e-09	1.000000
rad18	3.61390e-09	1.000000	3.61390e-09	1.000000
rad22	2.84058e-09	1.000000	2.84058e-09	1.000000
rad26	2.30401e-09	1.000000	2.30401e-09	1.000000
rad1	1.10778e-09	1.000000	1.10778e-09	1.000000
C2H2+PhCH2	6.53569e-10	1.000000	6.53569e-10	1.000000
Benzene+cycloprop-1-enylidene	6.40297e-10	1.000000	6.40297e-10	1.000000
rad67	5.23150e-10	1.000000	5.23150e-10	1.000000
rad45	4.83294e-10	1.000000	4.83294e-10	1.000000
rad35	2.32358e-10	1.000000	2.32358e-10	1.000000
rad20	2.22105e-10	1.000000	2.22105e-10	1.000000
rad21	1.55025e-10	1.000000	1.55025e-10	1.000000
rad10	1.26666e-10	1.000000	1.26666e-10	1.000000
rad23	1.21302e-10	1.000000	1.21302e-10	1.000000
rad7	1.07817e-10	1.000000	1.07817e-10	1.000000
rad3	3.33351e-11	1.000000	3.33351e-11	1.000000

rad36	3.05183e-11	1.000000	3.05183e-11	1.000000
rad4	1.76546e-11	1.000000	1.76546e-11	1.000000
PhCCCH3+H	1.14383e-11	1.000000	1.14383e-11	1.000000
Ph+MeAc	7.73089e-12	1.000000	7.73089e-12	1.000000
PhcycC3H3_A+H	6.65844e-12	1.000000	6.65844e-12	1.000000
rad5	4.04692e-12	1.000000	4.04692e-12	1.000000
Ph+Allene	2.93526e-12	1.000000	2.93526e-12	1.000000
rad30	2.79662e-12	1.000000	2.79662e-12	1.000000
PhCCH+CH3	1.93154e-12	1.000000	1.93154e-12	1.000000
rad25	8.18371e-13	1.000000	8.18371e-13	1.000000
PhCH2CCH+H	5.29922e-13	1.000000	5.29922e-13	1.000000
rad27	3.06879e-13	1.000000	3.06879e-13	1.000000
rad13	1.16955e-13	1.000000	1.16955e-13	1.000000
Phenyl+cycC3H4	5.71631e-14	1.000000	0.00000	1.000000
PhcycC3H3_B+H	1.40575e-14	1.000000	1.40575e-14	1.000000
rad14	1.16920e-14	1.000000	1.16920e-14	1.000000
rad60syn	1.10558e-14	1.000000	1.10558e-14	1.000000
rad37	6.04844e-15	1.000000	6.04844e-15	1.000000
rad60anti	5.38203e-15	1.000000	5.38203e-15	1.000000
PAH3+H	4.48093e-15	1.000000	4.48093e-15	1.000000
rad28	4.14769e-15	1.000000	4.14769e-15	1.000000
rad24	1.49622e-15	1.000000	1.49622e-15	1.000000
PAH7+H	1.17305e-15	1.000000	1.17305e-15	1.000000
rad59	9.19041e-16	1.000000	9.19041e-16	1.000000
rad33	2.39764e-16	1.000000	2.39764e-16	1.000000
rad38	1.42896e-16	1.000000	1.42896e-16	1.000000
PAH9+H	1.77955e-17	1.000000	1.77955e-17	1.000000
PAH10+CH3	9.93445e-18	1.000000	9.93445e-18	1.000000
rad46	7.79408e-18	1.000000	7.79408e-18	1.000000
rad43	1.09782e-18	1.000000	1.09782e-18	1.000000
rad31	4.14869e-19	1.000000	4.14869e-19	1.000000
rad70	9.57076e-20	1.000000	9.57076e-20	1.000000
rad58	9.52332e-20	1.000000	9.52332e-20	1.000000
rad50	4.90657e-20	1.000000	4.90657e-20	1.000000
rad39	2.94692e-20	1.000000	2.94692e-20	1.000000
rad62	1.10194e-20	1.000000	1.10194e-20	1.000000
rad34	1.70388e-21	1.000000	1.70388e-21	1.000000
PAH1+H	1.27530e-21	1.000000	1.27530e-21	1.000000
rad54	1.15398e-21	1.000000	1.15398e-21	1.000000
rad52	3.50627e-22	1.000000	3.50627e-22	1.000000
rad51	1.08922e-22	1.000000	1.08922e-22	1.000000
rad41	9.58127e-23	1.000000	9.58127e-23	1.000000
rad55	1.11184e-23	1.000000	1.11184e-23	1.000000
rad42	3.57534e-24	1.000000	3.57534e-24	1.000000
rad65	1.18385e-25	1.000000	1.18385e-25	1.000000
rad47	1.14269e-25	1.000000	1.14269e-25	1.000000
rad61	3.09042e-27	1.000000	3.09042e-27	1.000000
rad53	5.94209e-28	1.000000	5.94209e-28	1.000000
rad68syn	1.61483e-28	1.000000	1.61483e-28	1.000000
rad68anti	1.25734e-28	1.000000	1.25734e-28	1.000000
rad19syn	1.16727e-30	1.000000	1.16727e-30	1.000000
rad56	8.74985e-31	1.000000	8.74985e-31	1.000000
rad64	4.66026e-31	1.000000	4.66026e-31	1.000000
rad40syn	2.68384e-31	1.000000	2.68384e-31	1.000000
rad40anti	2.07937e-31	1.000000	2.07937e-31	1.000000
rad8	8.67145e-32	1.000000	8.67145e-32	1.000000
PAH8+H	1.75891e-32	1.000000	1.75891e-32	1.000000
rad73	1.27751e-33	1.000000	1.27751e-33	1.000000
rad71	2.16860e-36	1.000000	2.16860e-36	1.000000

100000.000 Pa, 180.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.12884e-14 (1.00)	1.12884e-14 (1.00)
Formation of rad19	1.12881e-14 (1.000)	1.12881e-14 (1.000)
H-abstraction to cyc2enyl	2.75916e-19 (2.44e-05)	2.75916e-19 (2.44e-05)
H-abstraction to cyclenyl	2.39955e-23 (2.13e-09)	2.39955e-23 (2.13e-09)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.994096	0.994096	0.994096	0.994096
rad15	0.00360386	0.997700	0.00360386	0.997700
Indene+H	0.00227135	0.999971	0.00227135	0.999971
Benzene+cycloprop-2-enylidene	2.44424e-05	0.999995	2.44424e-05	0.999995
rad19anti	3.97515e-06	0.999999	3.97515e-06	0.999999
PhCHCCH2+H	4.32893e-07	1.000000	4.32893e-07	1.000000
rad12	8.72592e-08	1.000000	8.72592e-08	1.000000
rad2	1.74360e-08	1.000000	1.74360e-08	1.000000
rad11	1.72927e-08	1.000000	1.72927e-08	1.000000

rad6	4.94912e-09	1.000000	4.94912e-09	1.000000
rad18	3.63908e-09	1.000000	3.63908e-09	1.000000
rad22	3.31230e-09	1.000000	3.31230e-09	1.000000
rad26	2.63310e-09	1.000000	2.63310e-09	1.000000
Benzene+cycloprop-1-enylidene	2.12567e-09	1.000000	2.12567e-09	1.000000
rad1	1.26973e-09	1.000000	1.26973e-09	1.000000
C2H2+PhCH2	8.08201e-10	1.000000	8.08201e-10	1.000000
rad67	6.25807e-10	1.000000	6.25807e-10	1.000000
rad45	5.75198e-10	1.000000	5.75198e-10	1.000000
rad35	2.77053e-10	1.000000	2.77053e-10	1.000000
rad20	2.27627e-10	1.000000	2.27627e-10	1.000000
rad10	1.59740e-10	1.000000	1.59740e-10	1.000000
rad21	1.59044e-10	1.000000	1.59044e-10	1.000000
rad23	1.57722e-10	1.000000	1.57722e-10	1.000000
rad7	1.13303e-10	1.000000	1.13303e-10	1.000000
rad3	4.18731e-11	1.000000	4.18731e-11	1.000000
rad36	3.63573e-11	1.000000	3.63573e-11	1.000000
rad4	2.21845e-11	1.000000	2.21845e-11	1.000000
PhCCCH3+H	1.50359e-11	1.000000	1.50359e-11	1.000000
Ph+MeAc	1.03508e-11	1.000000	1.03508e-11	1.000000
PhcycC3H3_A+H	8.82545e-12	1.000000	8.82545e-12	1.000000
rad5	4.86374e-12	1.000000	4.86374e-12	1.000000
Ph+Allene	3.85975e-12	1.000000	3.85975e-12	1.000000
rad30	3.43760e-12	1.000000	3.43760e-12	1.000000
PhCCH+CH3	2.81247e-12	1.000000	2.81247e-12	1.000000
rad25	9.33146e-13	1.000000	9.33146e-13	1.000000
PhCH2CCH+H	7.13399e-13	1.000000	7.13399e-13	1.000000
rad27	3.51842e-13	1.000000	3.51842e-13	1.000000
rad13	1.40906e-13	1.000000	1.40906e-13	1.000000
Phenyl+cycC3H4	8.44223e-14	1.000000	0.00000	1.000000
PhcycC3H3_B+H	2.61391e-14	1.000000	2.61391e-14	1.000000
rad14	1.58035e-14	1.000000	1.58035e-14	1.000000
rad60syn	1.41073e-14	1.000000	1.41073e-14	1.000000
rad37	8.13948e-15	1.000000	8.13948e-15	1.000000
rad60anti	6.88986e-15	1.000000	6.88986e-15	1.000000
PAH3+H	5.97778e-15	1.000000	5.97778e-15	1.000000
rad28	5.78214e-15	1.000000	5.78214e-15	1.000000
PAH7+H	1.64690e-15	1.000000	1.64690e-15	1.000000
rad24	1.43390e-15	1.000000	1.43390e-15	1.000000
rad59	1.21795e-15	1.000000	1.21795e-15	1.000000
rad33	2.84027e-16	1.000000	2.84027e-16	1.000000
rad38	2.01200e-16	1.000000	2.01200e-16	1.000000
PAH9+H	2.76085e-17	1.000000	2.76085e-17	1.000000
PAH10+CH3	1.50614e-17	1.000000	1.50614e-17	1.000000
rad46	1.11806e-17	1.000000	1.11806e-17	1.000000
rad43	1.73008e-18	1.000000	1.73008e-18	1.000000
rad31	4.94412e-19	1.000000	4.94412e-19	1.000000
rad70	1.57671e-19	1.000000	1.57671e-19	1.000000
rad58	1.47477e-19	1.000000	1.47477e-19	1.000000
rad50	7.57348e-20	1.000000	7.57348e-20	1.000000
rad39	4.98944e-20	1.000000	4.98944e-20	1.000000
rad62	2.10896e-20	1.000000	2.10896e-20	1.000000
rad34	3.07244e-21	1.000000	3.07244e-21	1.000000
PAH1+H	2.26591e-21	1.000000	2.26591e-21	1.000000
rad54	1.98069e-21	1.000000	1.98069e-21	1.000000
rad52	5.70987e-22	1.000000	5.70987e-22	1.000000
rad41	1.93137e-22	1.000000	1.93137e-22	1.000000
rad51	1.88475e-22	1.000000	1.88475e-22	1.000000
rad55	2.05562e-23	1.000000	2.05562e-23	1.000000
rad42	8.53441e-24	1.000000	8.53441e-24	1.000000
rad65	2.38955e-25	1.000000	2.38955e-25	1.000000
rad47	1.54231e-25	1.000000	1.54231e-25	1.000000
rad61	1.13534e-26	1.000000	1.13534e-26	1.000000
rad53	1.69894e-27	1.000000	1.69894e-27	1.000000
rad68syn	7.10738e-28	1.000000	7.10738e-28	1.000000
rad68anti	5.49184e-28	1.000000	5.49184e-28	1.000000
rad56	4.07790e-30	1.000000	4.07790e-30	1.000000
rad19syn	3.30969e-30	1.000000	3.30969e-30	1.000000
rad40syn	1.86530e-30	1.000000	1.86530e-30	1.000000
rad64	1.71096e-30	1.000000	1.71096e-30	1.000000
rad40anti	1.44407e-30	1.000000	1.44407e-30	1.000000
PAH8+H	1.63583e-31	1.000000	1.63583e-31	1.000000
rad8	4.88658e-32	1.000000	4.88658e-32	1.000000
rad73	8.54557e-33	1.000000	8.54557e-33	1.000000
rad71	2.30131e-35	1.000000	2.30131e-35	1.000000

100000.000 Pa, 190.000000 K

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

Total		1.32132e-14 (1.00)		1.32132e-14 (1.00)
Formation of rad19		1.32126e-14 (1.000)		1.32126e-14 (1.000)
H-abstraction to cyc2enyl		5.62053e-19 (4.25e-05)		5.62053e-19 (4.25e-05)
H-abstraction to cyc1enyl		8.18073e-23 (6.19e-09)		8.18073e-23 (6.19e-09)

species		PYtrue	Cumul		PYeffective	Cumul
rad9		0.993875	0.993875		0.993875	0.993875
rad15		0.00358519	0.997460		0.00358519	0.997460
Indene+H		0.00249324	0.999953		0.00249324	0.999953
Benzene+cycloprop-2-enylidene		4.25373e-05	0.999996		4.25373e-05	0.999996
rad19anti		3.18166e-06	0.999999		3.18166e-06	0.999999
PhCHCCH2+H		4.92808e-07	0.999999		4.92808e-07	0.999999
rad12		8.42808e-08	0.999999		8.42808e-08	0.999999
rad2		1.99428e-08	0.999999		1.99428e-08	0.999999
rad11		1.92992e-08	0.999999		1.92992e-08	0.999999
Benzene+cycloprop-1-enylidene		6.19133e-09	0.999999		6.19133e-09	0.999999
rad6		6.07515e-09	0.999999		6.07515e-09	0.999999
rad22		3.84269e-09	0.999999		3.84269e-09	0.999999
rad18		3.64906e-09	1.000000		3.64906e-09	1.000000
rad26		3.01119e-09	1.000000		3.01119e-09	1.000000
rad1		1.45751e-09	1.000000		1.45751e-09	1.000000
C2H2+PhCH2		9.96458e-10	1.000000		9.96458e-10	1.000000
rad67		7.48224e-10	1.000000		7.48224e-10	1.000000
rad45		6.82277e-10	1.000000		6.82277e-10	1.000000
rad35		3.30133e-10	1.000000		3.30133e-10	1.000000
rad20		2.32308e-10	1.000000		2.32308e-10	1.000000
rad23		2.04117e-10	1.000000		2.04117e-10	1.000000
rad10		2.01619e-10	1.000000		2.01619e-10	1.000000
rad21		1.62484e-10	1.000000		1.62484e-10	1.000000
rad7		1.19344e-10	1.000000		1.19344e-10	1.000000
rad3		5.25810e-11	1.000000		5.25810e-11	1.000000
rad36		4.31879e-11	1.000000		4.31879e-11	1.000000
rad4		2.78754e-11	1.000000		2.78754e-11	1.000000
PhCCCH3+H		1.98446e-11	1.000000		1.98446e-11	1.000000
Ph+MeAc		1.39321e-11	1.000000		1.39321e-11	1.000000
PhcycC3H3_A+H		1.17500e-11	1.000000		1.17500e-11	1.000000
rad5		5.86933e-12	1.000000		5.86933e-12	1.000000
Ph+Allene		5.09254e-12	1.000000		5.09254e-12	1.000000
rad30		4.21432e-12	1.000000		4.21432e-12	1.000000
PhCCH+CH3		4.11400e-12	1.000000		4.11400e-12	1.000000
rad25		1.06022e-12	1.000000		1.06022e-12	1.000000
PhCH2CCH+H		9.65027e-13	1.000000		9.65027e-13	1.000000
rad27		4.02933e-13	1.000000		4.02933e-13	1.000000
rad13		1.69863e-13	1.000000		1.69863e-13	1.000000
Phenyl+cycC3H4		1.24558e-13	1.000000		0.00000	1.000000
PhcycC3H3_B+H		4.72176e-14	1.000000		4.72176e-14	1.000000
rad14		2.12961e-14	1.000000		2.12961e-14	1.000000
rad60syn		1.79821e-14	1.000000		1.79821e-14	1.000000
rad37		1.10130e-14	1.000000		1.10130e-14	1.000000
rad60anti		8.81216e-15	1.000000		8.81216e-15	1.000000
rad28		8.10468e-15	1.000000		8.10468e-15	1.000000
PAH3+H		7.98295e-15	1.000000		7.98295e-15	1.000000
PAH7+H		2.31740e-15	1.000000		2.31740e-15	1.000000
rad59		1.61512e-15	1.000000		1.61512e-15	1.000000
rad24		1.37837e-15	1.000000		1.37837e-15	1.000000
rad33		3.37018e-16	1.000000		3.37018e-16	1.000000
rad38		2.83999e-16	1.000000		2.83999e-16	1.000000
PAH9+H		4.28968e-17	1.000000		4.28968e-17	1.000000
PAH10+CH3		2.31102e-17	1.000000		2.31102e-17	1.000000
rad46		1.60844e-17	1.000000		1.60844e-17	1.000000
rad43		2.75008e-18	1.000000		2.75008e-18	1.000000
rad31		5.92836e-19	1.000000		5.92836e-19	1.000000
rad70		2.61526e-19	1.000000		2.61526e-19	1.000000
rad58		2.29455e-19	1.000000		2.29455e-19	1.000000
rad50		1.17789e-19	1.000000		1.17789e-19	1.000000
rad39		8.57744e-20	1.000000		8.57744e-20	1.000000
rad62		4.06649e-20	1.000000		4.06649e-20	1.000000
rad34		5.57128e-21	1.000000		5.57128e-21	1.000000
PAH1+H		4.08230e-21	1.000000		4.08230e-21	1.000000
rad54		3.44513e-21	1.000000		3.44513e-21	1.000000
rad52		9.39353e-22	1.000000		9.39353e-22	1.000000
rad41		3.90970e-22	1.000000		3.90970e-22	1.000000
rad51		3.30116e-22	1.000000		3.30116e-22	1.000000
rad55		3.85398e-23	1.000000		3.85398e-23	1.000000
rad42		2.03619e-23	1.000000		2.03619e-23	1.000000
rad65		4.88124e-25	1.000000		4.88124e-25	1.000000
rad47		2.07837e-25	1.000000		2.07837e-25	1.000000
rad61		3.90768e-26	1.000000		3.90768e-26	1.000000
rad53		4.77664e-27	1.000000		4.77664e-27	1.000000

rad68syn	2.84858e-27	1.000000	2.84858e-27	1.000000
rad68anti	2.18393e-27	1.000000	2.18393e-27	1.000000
rad56	1.75822e-29	1.000000	1.75822e-29	1.000000
rad40syn	1.12698e-29	1.000000	1.12698e-29	1.000000
rad19syn	9.89671e-30	1.000000	9.89671e-30	1.000000
rad40anti	8.72412e-30	1.000000	8.72412e-30	1.000000
rad64	6.14267e-30	1.000000	6.14267e-30	1.000000
PAH8+H	1.27350e-30	1.000000	1.27350e-30	1.000000
rad73	5.05728e-32	1.000000	5.05728e-32	1.000000
rad8	2.96711e-32	1.000000	2.96711e-32	1.000000
rad71	2.02417e-34	1.000000	2.02417e-34	1.000000

100000.000 Pa, 200.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.52621e-14 (1.00)	1.52621e-14 (1.00)
Formation of rad19	1.52610e-14 (1.000)	1.52610e-14 (1.000)
H-abstraction to cyc2enyl	1.06427e-18 (6.97e-05)	1.06427e-18 (6.97e-05)
H-abstraction to cyclenyl	2.46309e-22 (1.61e-08)	2.46309e-22 (1.61e-08)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.993632	0.993632	0.993632	0.993632
rad15	0.00356538	0.997197	0.00356538	0.997197
Indene+H	0.00272933	0.999926	0.00272933	0.999926
Benzene+cycloprop-2-enylidene	6.97330e-05	0.999996	6.97330e-05	0.999996
rad19anti	2.64432e-06	0.999999	2.64432e-06	0.999999
PhCHCCH2+H	5.61668e-07	0.999999	5.61668e-07	0.999999
rad12	8.16441e-08	0.999999	8.16441e-08	0.999999
rad2	2.28375e-08	0.999999	2.28375e-08	0.999999
rad11	2.15249e-08	0.999999	2.15249e-08	0.999999
Benzene+cycloprop-1-enylidene	1.61386e-08	0.999999	1.61386e-08	0.999999
rad6	7.45740e-09	0.999999	7.45740e-09	0.999999
rad22	4.43939e-09	0.999999	4.43939e-09	0.999999
rad18	3.64593e-09	0.999999	3.64593e-09	0.999999
rad26	3.44803e-09	1.000000	3.44803e-09	1.000000
rad1	1.67654e-09	1.000000	1.67654e-09	1.000000
C2H2+PhCH2	1.22637e-09	1.000000	1.22637e-09	1.000000
rad67	8.94922e-10	1.000000	8.94922e-10	1.000000
rad45	8.07410e-10	1.000000	8.07410e-10	1.000000
rad35	3.93478e-10	1.000000	3.93478e-10	1.000000
rad23	2.63269e-10	1.000000	2.63269e-10	1.000000
rad10	2.54948e-10	1.000000	2.54948e-10	1.000000
rad20	2.36290e-10	1.000000	2.36290e-10	1.000000
rad21	1.65446e-10	1.000000	1.65446e-10	1.000000
rad7	1.25989e-10	1.000000	1.25989e-10	1.000000
rad3	6.60564e-11	1.000000	6.60564e-11	1.000000
rad36	5.12072e-11	1.000000	5.12072e-11	1.000000
rad4	3.50513e-11	1.000000	3.50513e-11	1.000000
PhCCCH3+H	2.63265e-11	1.000000	2.63265e-11	1.000000
Ph+MeAc	1.88734e-11	1.000000	1.88734e-11	1.000000
PhcycC3H3_A+H	1.57049e-11	1.000000	1.57049e-11	1.000000
rad5	7.11426e-12	1.000000	7.11426e-12	1.000000
Ph+Allene	6.74795e-12	1.000000	6.74795e-12	1.000000
PhCCH+CH3	6.05109e-12	1.000000	6.05109e-12	1.000000
rad30	5.15888e-12	1.000000	5.15888e-12	1.000000
PhCH2CCH+H	1.31283e-12	1.000000	1.31283e-12	1.000000
rad25	1.20107e-12	1.000000	1.20107e-12	1.000000
rad27	4.61293e-13	1.000000	4.61293e-13	1.000000
rad13	2.05047e-13	1.000000	2.05047e-13	1.000000
Phenyl+cycC3H4	1.83567e-13	1.000000	0.00000	1.000000
PhcycC3H3_B+H	8.32075e-14	1.000000	8.32075e-14	1.000000
rad14	2.86299e-14	1.000000	2.86299e-14	1.000000
rad60syn	2.29239e-14	1.000000	2.29239e-14	1.000000
rad37	1.49992e-14	1.000000	1.49992e-14	1.000000
rad28	1.14351e-14	1.000000	1.14351e-14	1.000000
rad60anti	1.12736e-14	1.000000	1.12736e-14	1.000000
PAH3+H	1.06833e-14	1.000000	1.06833e-14	1.000000
PAH7+H	3.27150e-15	1.000000	3.27150e-15	1.000000
rad59	2.14548e-15	1.000000	2.14548e-15	1.000000
rad24	1.33001e-15	1.000000	1.33001e-15	1.000000
rad38	4.02416e-16	1.000000	4.02416e-16	1.000000
rad33	4.00795e-16	1.000000	4.00795e-16	1.000000
PAH9+H	6.68565e-17	1.000000	6.68565e-17	1.000000
PAH10+CH3	3.59041e-17	1.000000	3.59041e-17	1.000000
rad46	2.32353e-17	1.000000	2.32353e-17	1.000000
rad43	4.41153e-18	1.000000	4.41153e-18	1.000000
rad31	7.15940e-19	1.000000	7.15940e-19	1.000000
rad70	4.36590e-19	1.000000	4.36590e-19	1.000000

rad58	3.58684e-19	1.000000	3.58684e-19	1.000000
rad50	1.84767e-19	1.000000	1.84767e-19	1.000000
rad39	1.49857e-19	1.000000	1.49857e-19	1.000000
rad62	7.88928e-20	1.000000	7.88928e-20	1.000000
rad34	1.01475e-20	1.000000	1.01475e-20	1.000000
PAH1+H	7.44956e-21	1.000000	7.44956e-21	1.000000
rad54	6.07288e-21	1.000000	6.07288e-21	1.000000
rad52	1.56194e-21	1.000000	1.56194e-21	1.000000
rad41	7.93900e-22	1.000000	7.93900e-22	1.000000
rad51	5.85167e-22	1.000000	5.85167e-22	1.000000
rad55	7.32087e-23	1.000000	7.32087e-23	1.000000
rad42	4.84230e-23	1.000000	4.84230e-23	1.000000
rad65	1.00804e-24	1.000000	1.00804e-24	1.000000
rad47	2.79989e-25	1.000000	2.79989e-25	1.000000
rad61	1.27145e-25	1.000000	1.27145e-25	1.000000
rad53	1.32156e-26	1.000000	1.32156e-26	1.000000
rad68syn	1.05273e-26	1.000000	1.05273e-26	1.000000
rad68anti	8.00841e-27	1.000000	8.00841e-27	1.000000
rad56	7.07911e-29	1.000000	7.07911e-29	1.000000
rad40syn	6.01798e-29	1.000000	6.01798e-29	1.000000
rad40anti	4.66223e-29	1.000000	4.66223e-29	1.000000
rad19syn	3.11946e-29	1.000000	3.11946e-29	1.000000
rad64	2.15702e-29	1.000000	2.15702e-29	1.000000
PAH8+H	8.45761e-30	1.000000	8.45761e-30	1.000000
rad73	2.68424e-31	1.000000	2.68424e-31	1.000000
rad8	1.93156e-32	1.000000	1.93156e-32	1.000000
rad71	1.50323e-33	1.000000	1.50323e-33	1.000000

100000.000 Pa, 210.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.74272e-14 (1.00)	1.74272e-14 (1.00)
Formation of rad19	1.74253e-14 (1.000)	1.74253e-14 (1.000)
H-abstraction to cyc2enyl	1.89310e-18 (0.000109)	1.89310e-18 (0.000109)
H-abstraction to cyclenyl	6.66714e-22 (3.83e-08)	6.66714e-22 (3.83e-08)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.993362	0.993362	0.993362	0.993362
rad15	0.00354486	0.996907	0.00354486	0.996907
Indene+H	0.00298135	0.999888	0.00298135	0.999888
Benzene+cycloprop-2-enylidene	0.000108629	0.999997	0.000108629	0.999997
rad19anti	2.27972e-06	0.999999	2.27972e-06	0.999999
PhCHCCH2+H	6.41223e-07	1.000000	6.41223e-07	1.000000
rad12	7.93018e-08	1.000000	7.93018e-08	1.000000
Benzene+cycloprop-1-enylidene	3.82571e-08	1.000000	3.82571e-08	1.000000
rad2	2.61965e-08	1.000000	2.61965e-08	1.000000
rad11	2.39985e-08	1.000000	2.39985e-08	1.000000
rad6	9.16027e-09	1.000000	9.16027e-09	1.000000
rad22	5.11100e-09	1.000000	5.11100e-09	1.000000
rad26	3.95534e-09	1.000000	3.95534e-09	1.000000
rad18	3.63152e-09	1.000000	3.63152e-09	1.000000
rad1	1.93345e-09	1.000000	1.93345e-09	1.000000
C2H2+PhCH2	1.50809e-09	1.000000	1.50809e-09	1.000000
rad67	1.07153e-09	1.000000	1.07153e-09	1.000000
rad45	9.54093e-10	1.000000	9.54093e-10	1.000000
rad35	4.69419e-10	1.000000	4.69419e-10	1.000000
rad23	3.38766e-10	1.000000	3.38766e-10	1.000000
rad10	3.23229e-10	1.000000	3.23229e-10	1.000000
rad20	2.39711e-10	1.000000	2.39711e-10	1.000000
rad21	1.68029e-10	1.000000	1.68029e-10	1.000000
rad7	1.33300e-10	1.000000	1.33300e-10	1.000000
rad3	8.30635e-11	1.000000	8.30635e-11	1.000000
rad36	6.06572e-11	1.000000	6.06572e-11	1.000000
rad4	4.41282e-11	1.000000	4.41282e-11	1.000000
PhCCCH3+H	3.51369e-11	1.000000	3.51369e-11	1.000000
Ph+MeAc	2.57532e-11	1.000000	2.57532e-11	1.000000
PhcycC3H3_A+H	2.10593e-11	1.000000	2.10593e-11	1.000000
Ph+Allene	8.98537e-12	1.000000	8.98537e-12	1.000000
PhCCH+CH3	8.95334e-12	1.000000	8.95334e-12	1.000000
rad5	8.66290e-12	1.000000	8.66290e-12	1.000000
rad30	6.31163e-12	1.000000	6.31163e-12	1.000000
PhCH2CCH+H	1.79703e-12	1.000000	1.79703e-12	1.000000
rad25	1.35725e-12	1.000000	1.35725e-12	1.000000
rad27	5.28290e-13	1.000000	5.28290e-13	1.000000
Phenyl+cycC3H4	2.70151e-13	1.000000	0.000000	1.000000
rad13	2.47985e-13	1.000000	2.47985e-13	1.000000
PhcycC3H3_B+H	1.43508e-13	1.000000	1.43508e-13	1.000000
rad14	3.84096e-14	1.000000	3.84096e-14	1.000000

rad60syn	2.92528e-14	1.00000	2.92528e-14	1.00000
rad37	2.05789e-14	1.00000	2.05789e-14	1.00000
rad28	1.62525e-14	1.00000	1.62525e-14	1.00000
rad60anti	1.44388e-14	1.00000	1.44388e-14	1.00000
PAH3+H	1.43379e-14	1.00000	1.43379e-14	1.00000
PAH7+H	4.63609e-15	1.00000	4.63609e-15	1.00000
rad59	2.85710e-15	1.00000	2.85710e-15	1.00000
rad24	1.28916e-15	1.00000	1.28916e-15	1.00000
rad38	5.73007e-16	1.00000	5.73007e-16	1.00000
rad33	4.77927e-16	1.00000	4.77927e-16	1.00000
PAH9+H	1.04635e-16	1.00000	1.04635e-16	1.00000
PAH10+CH3	5.64754e-17	1.00000	5.64754e-17	1.00000
rad46	3.37376e-17	1.00000	3.37376e-17	1.00000
rad43	7.14178e-18	1.00000	7.14178e-18	1.00000
rad31	8.71608e-19	1.00000	8.71608e-19	1.00000
rad70	7.32964e-19	1.00000	7.32964e-19	1.00000
rad58	5.63148e-19	1.00000	5.63148e-19	1.00000
rad50	2.92460e-19	1.00000	2.92460e-19	1.00000
rad39	2.66105e-19	1.00000	2.66105e-19	1.00000
rad62	1.53713e-19	1.00000	1.53713e-19	1.00000
rad34	1.85391e-20	1.00000	1.85391e-20	1.00000
PAH1+H	1.37502e-20	1.00000	1.37502e-20	1.00000
rad54	1.08419e-20	1.00000	1.08419e-20	1.00000
rad52	2.62502e-21	1.00000	2.62502e-21	1.00000
rad41	1.61509e-21	1.00000	1.61509e-21	1.00000
rad51	1.04912e-21	1.00000	1.04912e-21	1.00000
rad55	1.40694e-22	1.00000	1.40694e-22	1.00000
rad42	1.14469e-22	1.00000	1.14469e-22	1.00000
rad65	2.10121e-24	1.00000	2.10121e-24	1.00000
rad61	3.93825e-25	1.00000	3.93825e-25	1.00000
rad47	3.77538e-25	1.00000	3.77538e-25	1.00000
rad68syn	3.62320e-26	1.00000	3.62320e-26	1.00000
rad53	3.59837e-26	1.00000	3.59837e-26	1.00000
rad68anti	2.73559e-26	1.00000	2.73559e-26	1.00000
rad40syn	2.87737e-28	1.00000	2.87737e-28	1.00000
rad56	2.67911e-28	1.00000	2.67911e-28	1.00000
rad40anti	2.23301e-28	1.00000	2.23301e-28	1.00000
rad19syn	1.03563e-28	1.00000	1.03563e-28	1.00000
rad64	7.39859e-29	1.00000	7.39859e-29	1.00000
PAH8+H	4.86626e-29	1.00000	4.86626e-29	1.00000
rad73	1.29087e-30	1.00000	1.29087e-30	1.00000
rad8	1.34441e-32	1.00000	1.34441e-32	1.00000
rad71	9.57290e-33	1.00000	9.57290e-33	1.00000

100000.000 Pa, 220.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.97009e-14 (1.00)	1.97009e-14 (1.00)
Formation of rad19	1.96977e-14 (1.000)	1.96977e-14 (1.000)
H-abstraction to cyc2enyl	3.19064e-18 (0.000162)	3.19064e-18 (0.000162)
H-abstraction to cyclenyl	1.64627e-21 (8.36e-08)	1.64627e-21 (8.36e-08)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.993060	0.993060	0.993060	0.993060
rad15	0.00352397	0.996584	0.00352397	0.996584
Indene+H	0.00325117	0.999835	0.00325117	0.999835
Benzene+cycloprop-2-enylidene	0.000161954	0.999997	0.000161954	0.999997
rad19anti	2.03665e-06	0.999999	2.03665e-06	0.999999
PhCHCCH2+H	7.33576e-07	1.000000	7.33576e-07	1.000000
Benzene+cycloprop-1-enylidene	8.35632e-08	1.000000	8.35632e-08	1.000000
rad12	7.72159e-08	1.000000	7.72159e-08	1.000000
rad2	3.01108e-08	1.000000	3.01108e-08	1.000000
rad11	2.67505e-08	1.000000	2.67505e-08	1.000000
rad6	1.12650e-08	1.000000	1.12650e-08	1.000000
rad22	5.86707e-09	1.000000	5.86707e-09	1.000000
rad26	4.54731e-09	1.000000	4.54731e-09	1.000000
rad18	3.60753e-09	1.000000	3.60753e-09	1.000000
rad1	2.23634e-09	1.000000	2.23634e-09	1.000000
C2H2+PhCH2	1.85439e-09	1.000000	1.85439e-09	1.000000
rad67	1.28507e-09	1.000000	1.28507e-09	1.000000
rad45	1.12657e-09	1.000000	1.12657e-09	1.000000
rad35	5.60856e-10	1.000000	5.60856e-10	1.000000
rad23	4.35240e-10	1.000000	4.35240e-10	1.000000
rad10	4.11099e-10	1.000000	4.11099e-10	1.000000
rad20	2.42706e-10	1.000000	2.42706e-10	1.000000
rad21	1.70328e-10	1.000000	1.70328e-10	1.000000
rad7	1.41342e-10	1.000000	1.41342e-10	1.000000
rad3	1.04574e-10	1.000000	1.04574e-10	1.000000

rad36	7.18341e-11	1.00000	7.18341e-11	1.00000
rad4	5.56381e-11	1.00000	5.56381e-11	1.00000
PhCCCH3+H	4.72083e-11	1.00000	4.72083e-11	1.00000
Ph+MeAc	3.54162e-11	1.00000	3.54162e-11	1.00000
PhcycC3H3_A+H	2.83111e-11	1.00000	2.83111e-11	1.00000
PhCCH+CH3	1.33267e-11	1.00000	1.33267e-11	1.00000
Ph+Allene	1.20275e-11	1.00000	1.20275e-11	1.00000
rad5	1.05970e-11	1.00000	1.05970e-11	1.00000
rad30	7.72334e-12	1.00000	7.72334e-12	1.00000
PhCH2CCH+H	2.47560e-12	1.00000	2.47560e-12	1.00000
rad25	1.53043e-12	1.00000	1.53043e-12	1.00000
rad27	6.05547e-13	1.00000	6.05547e-13	1.00000
Phenyl+cycC3H4	3.96860e-13	1.00000	0.00000	1.00000
rad13	3.00582e-13	1.00000	3.00582e-13	1.00000
PhcycC3H3_B+H	2.42861e-13	1.00000	2.42861e-13	1.00000
rad14	5.14246e-14	1.00000	5.14246e-14	1.00000
rad60syn	3.73907e-14	1.00000	3.73907e-14	1.00000
rad37	2.84575e-14	1.00000	2.84575e-14	1.00000
rad28	2.32783e-14	1.00000	2.32783e-14	1.00000
PAH3+H	1.93072e-14	1.00000	1.93072e-14	1.00000
rad60anti	1.85255e-14	1.00000	1.85255e-14	1.00000
PAH7+H	6.59668e-15	1.00000	6.59668e-15	1.00000
rad59	3.81614e-15	1.00000	3.81614e-15	1.00000
rad24	1.25621e-15	1.00000	1.25621e-15	1.00000
rad38	8.20547e-16	1.00000	8.20547e-16	1.00000
rad33	5.71605e-16	1.00000	5.71605e-16	1.00000
PAH9+H	1.64551e-16	1.00000	1.64551e-16	1.00000
PAH10+CH3	8.98962e-17	1.00000	8.98962e-17	1.00000
rad46	4.92713e-17	1.00000	4.92713e-17	1.00000
rad43	1.16638e-17	1.00000	1.16638e-17	1.00000
rad70	1.23617e-18	1.00000	1.23617e-18	1.00000
rad31	1.07066e-18	1.00000	1.07066e-18	1.00000
rad58	8.87513e-19	1.00000	8.87513e-19	1.00000
rad39	4.79984e-19	1.00000	4.79984e-19	1.00000
rad50	4.67194e-19	1.00000	4.67194e-19	1.00000
rad62	3.00123e-19	1.00000	3.00123e-19	1.00000
rad34	3.39228e-20	1.00000	3.39228e-20	1.00000
PAH1+H	2.56285e-20	1.00000	2.56285e-20	1.00000
rad54	1.95812e-20	1.00000	1.95812e-20	1.00000
rad52	4.45731e-21	1.00000	4.45731e-21	1.00000
rad41	3.28758e-21	1.00000	3.28758e-21	1.00000
rad51	1.90055e-21	1.00000	1.90055e-21	1.00000
rad55	2.73043e-22	1.00000	2.73043e-22	1.00000
rad42	2.68282e-22	1.00000	2.68282e-22	1.00000
rad65	4.41221e-24	1.00000	4.41221e-24	1.00000
rad61	1.16708e-24	1.00000	1.16708e-24	1.00000
rad47	5.10166e-25	1.00000	5.10166e-25	1.00000
rad68syn	1.17007e-25	1.00000	1.17007e-25	1.00000
rad53	9.63608e-26	1.00000	9.63608e-26	1.00000
rad68anti	8.77188e-26	1.00000	8.77188e-26	1.00000
rad40syn	1.24416e-27	1.00000	1.24416e-27	1.00000
rad40anti	9.68113e-28	1.00000	9.68113e-28	1.00000
rad56	9.56681e-28	1.00000	9.56681e-28	1.00000
rad19syn	3.61696e-28	1.00000	3.61696e-28	1.00000
rad64	2.47113e-28	1.00000	2.47113e-28	1.00000
PAH8+H	2.45731e-28	1.00000	2.45731e-28	1.00000
rad73	5.66592e-30	1.00000	5.66592e-30	1.00000
rad71	5.29981e-32	1.00000	5.29981e-32	1.00000
rad8	1.00049e-32	1.00000	1.00049e-32	1.00000

100000.000 Pa, 230.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.20761e-14 (1.00)	2.20761e-14 (1.00)
Formation of rad19	2.20710e-14 (1.000)	2.20710e-14 (1.000)
H-abstraction to cyc2enyl	5.13155e-18 (0.000232)	5.13155e-18 (0.000232)
H-abstraction to cyclenyl	3.75316e-21 (1.70e-07)	3.75316e-21 (1.70e-07)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.992721	0.992721	0.992721	0.992721
Indene+H	0.00354093	0.996262	0.00354093	0.996262
rad15	0.00350291	0.999765	0.00350291	0.999765
Benzene+cycloprop-2-enylidene	0.000232448	0.999997	0.000232448	0.999997
rad19anti	1.88355e-06	0.999999	1.88355e-06	0.999999
PhCHCCH2+H	8.41260e-07	1.00000	8.41260e-07	1.00000
Benzene+cycloprop-1-enylidene	1.70010e-07	1.00000	1.70010e-07	1.00000
rad12	7.53561e-08	1.00000	7.53561e-08	1.00000
rad2	3.46899e-08	1.00000	3.46899e-08	1.00000

rad11	2.98131e-08	1.00000	2.98131e-08	1.00000
rad6	1.38736e-08	1.00000	1.38736e-08	1.00000
rad22	6.71805e-09	1.00000	6.71805e-09	1.00000
rad26	5.24110e-09	1.00000	5.24110e-09	1.00000
rad18	3.57547e-09	1.00000	3.57547e-09	1.00000
rad1	2.59510e-09	1.00000	2.59510e-09	1.00000
C2H2+PhCH2	2.28145e-09	1.00000	2.28145e-09	1.00000
rad67	1.54430e-09	1.00000	1.54430e-09	1.00000
rad45	1.32995e-09	1.00000	1.32995e-09	1.00000
rad35	6.71387e-10	1.00000	6.71387e-10	1.00000
rad23	5.58654e-10	1.00000	5.58654e-10	1.00000
rad10	5.24709e-10	1.00000	5.24709e-10	1.00000
rad20	2.45404e-10	1.00000	2.45404e-10	1.00000
rad21	1.72437e-10	1.00000	1.72437e-10	1.00000
rad7	1.50207e-10	1.00000	1.50207e-10	1.00000
rad3	1.31819e-10	1.00000	1.31819e-10	1.00000
rad36	8.51007e-11	1.00000	8.51007e-11	1.00000
rad4	7.02581e-11	1.00000	7.02581e-11	1.00000
PhCCCH3+H	6.38745e-11	1.00000	6.38745e-11	1.00000
Ph+MeAc	4.91004e-11	1.00000	4.91004e-11	1.00000
PhcycC3H3_A+H	3.81300e-11	1.00000	3.81300e-11	1.00000
PhCCH+CH3	1.99476e-11	1.00000	1.99476e-11	1.00000
Ph+Allene	1.61852e-11	1.00000	1.61852e-11	1.00000
rad5	1.30198e-11	1.00000	1.30198e-11	1.00000
rad30	9.45780e-12	1.00000	9.45780e-12	1.00000
PhCH2CCH+H	3.43200e-12	1.00000	3.43200e-12	1.00000
rad25	1.72233e-12	1.00000	1.72233e-12	1.00000
rad27	6.94995e-13	1.00000	6.94995e-13	1.00000
Phenyl+cycC3H4	5.81708e-13	1.00000	0.00000	1.00000
PhcycC3H3_B+H	4.04082e-13	1.00000	4.04082e-13	1.00000
rad13	3.65215e-13	1.00000	3.65215e-13	1.00000
rad14	6.86947e-14	1.00000	6.86947e-14	1.00000
rad60syn	4.78939e-14	1.00000	4.78939e-14	1.00000
rad37	3.96737e-14	1.00000	3.96737e-14	1.00000
rad28	3.36017e-14	1.00000	3.36017e-14	1.00000
PAH3+H	2.60923e-14	1.00000	2.60923e-14	1.00000
rad60anti	2.38219e-14	1.00000	2.38219e-14	1.00000
PAH7+H	9.42454e-15	1.00000	9.42454e-15	1.00000
rad59	5.11379e-15	1.00000	5.11379e-15	1.00000
rad24	1.23155e-15	1.00000	1.23155e-15	1.00000
rad38	1.18230e-15	1.00000	1.18230e-15	1.00000
rad33	6.85794e-16	1.00000	6.85794e-16	1.00000
PAH9+H	2.60109e-16	1.00000	2.60109e-16	1.00000
PAH10+CH3	1.44691e-16	1.00000	1.44691e-16	1.00000
rad46	7.24039e-17	1.00000	7.24039e-17	1.00000
rad43	1.92049e-17	1.00000	1.92049e-17	1.00000
rad70	2.09177e-18	1.00000	2.09177e-18	1.00000
rad58	1.40297e-18	1.00000	1.40297e-18	1.00000
rad31	1.32804e-18	1.00000	1.32804e-18	1.00000
rad39	8.78323e-19	1.00000	8.78323e-19	1.00000
rad50	7.53089e-19	1.00000	7.53089e-19	1.00000
rad62	5.85883e-19	1.00000	5.85883e-19	1.00000
rad34	6.20722e-20	1.00000	6.20722e-20	1.00000
PAH1+H	4.81489e-20	1.00000	4.81489e-20	1.00000
rad54	3.57191e-20	1.00000	3.57191e-20	1.00000
rad52	7.64177e-21	1.00000	7.64177e-21	1.00000
rad41	6.68662e-21	1.00000	6.68662e-21	1.00000
rad51	3.47484e-21	1.00000	3.47484e-21	1.00000
rad42	6.21859e-22	1.00000	6.21859e-22	1.00000
rad55	5.33920e-22	1.00000	5.33920e-22	1.00000
rad65	9.31239e-24	1.00000	9.31239e-24	1.00000
rad61	3.31920e-24	1.00000	3.31920e-24	1.00000
rad47	6.91734e-25	1.00000	6.91734e-25	1.00000
rad68syn	3.56434e-25	1.00000	3.56434e-25	1.00000
rad68anti	2.65479e-25	1.00000	2.65479e-25	1.00000
rad53	2.53387e-25	1.00000	2.53387e-25	1.00000
rad40syn	4.90246e-27	1.00000	4.90246e-27	1.00000
rad40anti	3.82816e-27	1.00000	3.82816e-27	1.00000
rad56	3.22841e-27	1.00000	3.22841e-27	1.00000
rad19syn	1.32679e-27	1.00000	1.32679e-27	1.00000
PAH8+H	1.10124e-27	1.00000	1.10124e-27	1.00000
rad64	7.99952e-28	1.00000	7.99952e-28	1.00000
rad73	2.28190e-29	1.00000	2.28190e-29	1.00000
rad71	2.58245e-31	1.00000	2.58245e-31	1.00000
rad8	7.98905e-33	1.00000	7.98905e-33	1.00000

100000.000 Pa, 240.000000 K

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Rate constant | True (fraction) Effective (fraction)

Total	2.45462e-14 (1.00)	2.45462e-14 (1.00)
Formation of rad19	2.45383e-14 (1.000)	2.45383e-14 (1.000)
H-abstraction to cyc2enyl	7.92234e-18 (0.000323)	7.92234e-18 (0.000323)
H-abstraction to cyclenyl	7.97958e-21 (3.25e-07)	7.97958e-21 (3.25e-07)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.992339	0.992339	0.992339	0.992339
Indene+H	0.00385289	0.996192	0.00385289	0.996192
rad15	0.00348187	0.999674	0.00348187	0.999674
Benzene+cycloprop-2-enylidene	0.000322752	0.999997	0.000322752	0.999997
rad19anti	1.80149e-06	0.999999	1.80149e-06	0.999999
PhCHCCH2+H	9.67327e-07	1.000000	9.67327e-07	1.000000
Benzene+cycloprop-1-enylidene	3.25084e-07	1.000000	3.25084e-07	1.000000
rad12	7.36977e-08	1.000000	7.36977e-08	1.000000
rad2	4.00645e-08	1.000000	4.00645e-08	1.000000
rad11	3.32199e-08	1.000000	3.32199e-08	1.000000
rad6	1.71145e-08	1.000000	1.71145e-08	1.000000
rad22	7.67521e-09	1.000000	7.67521e-09	1.000000
rad26	6.05743e-09	1.000000	6.05743e-09	1.000000
rad18	3.53672e-09	1.000000	3.53672e-09	1.000000
rad1	3.02185e-09	1.000000	3.02185e-09	1.000000
C2H2+PhCH2	2.80968e-09	1.000000	2.80968e-09	1.000000
rad67	1.86012e-09	1.000000	1.86012e-09	1.000000
rad45	1.57045e-09	1.000000	1.57045e-09	1.000000
rad35	8.05483e-10	1.000000	8.05483e-10	1.000000
rad23	7.16676e-10	1.000000	7.16676e-10	1.000000
rad10	6.72200e-10	1.000000	6.72200e-10	1.000000
rad20	2.47933e-10	1.000000	2.47933e-10	1.000000
rad21	1.74446e-10	1.000000	1.74446e-10	1.000000
rad3	1.66344e-10	1.000000	1.66344e-10	1.000000
rad7	1.60008e-10	1.000000	1.60008e-10	1.000000
rad36	1.00901e-10	1.000000	1.00901e-10	1.000000
rad4	8.88446e-11	1.000000	8.88446e-11	1.000000
PhCCCH3+H	8.70489e-11	1.000000	8.70489e-11	1.000000
Ph+MeAc	6.86284e-11	1.000000	6.86284e-11	1.000000
PhcycC3H3_A+H	5.14130e-11	1.000000	5.14130e-11	1.000000
PhCCH+CH3	3.00049e-11	1.000000	3.00049e-11	1.000000
Ph+Allene	2.18939e-11	1.000000	2.18939e-11	1.000000
rad5	1.60613e-11	1.000000	1.60613e-11	1.000000
rad30	1.15954e-11	1.000000	1.15954e-11	1.000000
PhCH2CCH+H	4.78664e-12	1.000000	4.78664e-12	1.000000
rad25	1.93470e-12	1.000000	1.93470e-12	1.000000
Phenyl+cycC3H4	8.50395e-13	1.000000	0.000000	1.000000
rad27	7.98929e-13	1.000000	7.98929e-13	1.000000
PhcycC3H3_B+H	6.62056e-13	1.000000	6.62056e-13	1.000000
rad13	4.44833e-13	1.000000	4.44833e-13	1.000000
rad14	9.15255e-14	1.000000	9.15255e-14	1.000000
rad60syn	6.14958e-14	1.000000	6.14958e-14	1.000000
rad37	5.57632e-14	1.000000	5.57632e-14	1.000000
rad28	4.88705e-14	1.000000	4.88705e-14	1.000000
PAH3+H	3.53913e-14	1.000000	3.53913e-14	1.000000
rad60anti	3.07094e-14	1.000000	3.07094e-14	1.000000
PAH7+H	1.35161e-14	1.000000	1.35161e-14	1.000000
rad59	6.87584e-15	1.000000	6.87584e-15	1.000000
rad38	1.71463e-15	1.000000	1.71463e-15	1.000000
rad24	1.21568e-15	1.000000	1.21568e-15	1.000000
rad33	8.25411e-16	1.000000	8.25411e-16	1.000000
PAH9+H	4.13269e-16	1.000000	4.13269e-16	1.000000
PAH10+CH3	2.35233e-16	1.000000	2.35233e-16	1.000000
rad46	1.07077e-16	1.000000	1.07077e-16	1.000000
rad43	3.18518e-17	1.000000	3.18518e-17	1.000000
rad70	3.54656e-18	1.000000	3.54656e-18	1.000000
rad58	2.22274e-18	1.000000	2.22274e-18	1.000000
rad31	1.66475e-18	1.000000	1.66475e-18	1.000000
rad39	1.62753e-18	1.000000	1.62753e-18	1.000000
rad50	1.22443e-18	1.000000	1.22443e-18	1.000000
rad62	1.14087e-18	1.000000	1.14087e-18	1.000000
rad34	1.13401e-19	1.000000	1.13401e-19	1.000000
PAH1+H	9.09922e-20	1.000000	9.09922e-20	1.000000
rad54	6.56795e-20	1.000000	6.56795e-20	1.000000
rad41	1.35679e-20	1.000000	1.35679e-20	1.000000
rad52	1.32161e-20	1.000000	1.32161e-20	1.000000
rad51	6.40277e-21	1.000000	6.40277e-21	1.000000
rad42	1.42212e-21	1.000000	1.42212e-21	1.000000
rad55	1.04932e-21	1.000000	1.04932e-21	1.000000
rad65	1.97036e-23	1.000000	1.97036e-23	1.000000
rad61	9.07172e-24	1.000000	9.07172e-24	1.000000
rad68syn	1.02779e-24	1.000000	1.02779e-24	1.000000
rad47	9.42340e-25	1.000000	9.42340e-25	1.000000

rad68anti	7.61048e-25	1.00000	7.61048e-25	1.00000
rad53	6.52593e-25	1.00000	6.52593e-25	1.00000
rad40syn	1.77128e-26	1.00000	1.77128e-26	1.00000
rad40anti	1.38899e-26	1.00000	1.38899e-26	1.00000
rad56	1.02964e-26	1.00000	1.02964e-26	1.00000
rad19syn	5.10125e-27	1.00000	5.10125e-27	1.00000
PAH8+H	4.42349e-27	1.00000	4.42349e-27	1.00000
rad64	2.49601e-27	1.00000	2.49601e-27	1.00000
rad73	8.46842e-29	1.00000	8.46842e-29	1.00000
rad71	1.12008e-30	1.00000	1.12008e-30	1.00000
rad8	6.90232e-33	1.00000	6.90232e-33	1.00000

100000.000 Pa, 250.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.71048e-14 (1.00)	2.71048e-14 (1.00)
Formation of rad19	2.70930e-14 (1.000)	2.70930e-14 (1.000)
H-abstraction to cyc2enyl	1.17991e-17 (0.000435)	1.17991e-17 (0.000435)
H-abstraction to cyclenyl	1.59554e-20 (5.89e-07)	1.59554e-20 (5.89e-07)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.991910	0.991910	0.991910	0.991910
Indene+H	0.00418961	0.996100	0.00418961	0.996100
rad15	0.00346096	0.999561	0.00346096	0.999561
Benzene+cycloprop-2-enylidene	0.000435312	0.999996	0.000435312	0.999996
rad19anti	1.78004e-06	0.999998	1.78004e-06	0.999998
PhCHCCH2+H	1.11546e-06	0.999999	1.11546e-06	0.999999
Benzene+cycloprop-1-enylidene	5.88656e-07	1.000000	5.88656e-07	1.000000
rad12	7.22210e-08	1.000000	7.22210e-08	1.000000
rad2	4.63904e-08	1.000000	4.63904e-08	1.000000
rad11	3.70048e-08	1.000000	3.70048e-08	1.000000
rad6	2.11485e-08	1.000000	2.11485e-08	1.000000
rad22	8.75054e-09	1.000000	8.75054e-09	1.000000
rad26	7.02143e-09	1.000000	7.02143e-09	1.000000
rad1	3.53142e-09	1.000000	3.53142e-09	1.000000
rad18	3.49256e-09	1.000000	3.49256e-09	1.000000
C2H2+PhCH2	3.46492e-09	1.000000	3.46492e-09	1.000000
rad67	2.24616e-09	1.000000	2.24616e-09	1.000000
rad45	1.85553e-09	1.000000	1.85553e-09	1.000000
rad35	9.68703e-10	1.000000	9.68703e-10	1.000000
rad23	9.19151e-10	1.000000	9.19151e-10	1.000000
rad10	8.64352e-10	1.000000	8.64352e-10	1.000000
rad20	2.50411e-10	1.000000	2.50411e-10	1.000000
rad3	2.10080e-10	1.000000	2.10080e-10	1.000000
rad21	1.76439e-10	1.000000	1.76439e-10	1.000000
rad7	1.70899e-10	1.000000	1.70899e-10	1.000000
rad36	1.19779e-10	1.000000	1.19779e-10	1.000000
PhCCCH3+H	1.19486e-10	1.000000	1.19486e-10	1.000000
rad4	1.12474e-10	1.000000	1.12474e-10	1.000000
Ph+MeAc	9.66916e-11	1.000000	9.66916e-11	1.000000
PhcycC3H3_A+H	6.93559e-11	1.000000	6.93559e-11	1.000000
PhCCH+CH3	4.53145e-11	1.000000	4.53145e-11	1.000000
Ph+Allene	2.97615e-11	1.000000	2.97615e-11	1.000000
rad5	1.98845e-11	1.000000	1.98845e-11	1.000000
rad30	1.42371e-11	1.000000	1.42371e-11	1.000000
PhCH2CCH+H	6.71307e-12	1.000000	6.71307e-12	1.000000
rad25	2.16930e-12	1.000000	2.16930e-12	1.000000
Phenyl+cycC3H4	1.23934e-12	1.000000	0.000000	1.000000
PhcycC3H3_B+H	1.06946e-12	1.000000	1.06946e-12	1.000000
rad27	9.20071e-13	1.000000	9.20071e-13	1.000000
rad13	5.43090e-13	1.000000	5.43090e-13	1.000000
rad14	1.21569e-13	1.000000	1.21569e-13	1.000000
rad60syn	7.91652e-14	1.000000	7.91652e-14	1.000000
rad37	7.90039e-14	1.000000	7.90039e-14	1.000000
rad28	7.15813e-14	1.000000	7.15813e-14	1.000000
PAH3+H	4.81766e-14	1.000000	4.81766e-14	1.000000
rad60anti	3.96940e-14	1.000000	3.96940e-14	1.000000
PAH7+H	1.94503e-14	1.000000	1.94503e-14	1.000000
rad59	9.27588e-15	1.000000	9.27588e-15	1.000000
rad38	2.50303e-15	1.000000	2.50303e-15	1.000000
rad24	1.20919e-15	1.000000	1.20919e-15	1.000000
rad33	9.96545e-16	1.000000	9.96545e-16	1.000000
PAH9+H	6.59797e-16	1.000000	6.59797e-16	1.000000
PAH10+CH3	3.85759e-16	1.000000	3.85759e-16	1.000000
rad46	1.59370e-16	1.000000	1.59370e-16	1.000000
rad43	5.31520e-17	1.000000	5.31520e-17	1.000000
rad70	6.01621e-18	1.000000	6.01621e-18	1.000000
rad58	3.52616e-18	1.000000	3.52616e-18	1.000000

rad39	3.04627e-18	1.00000	3.04627e-18	1.00000
rad62	2.21094e-18	1.00000	2.21094e-18	1.00000
rad31	2.11041e-18	1.00000	2.11041e-18	1.00000
rad50	2.00670e-18	1.00000	2.00670e-18	1.00000
rad34	2.06508e-19	1.00000	2.06508e-19	1.00000
PAH1+H	1.72561e-19	1.00000	1.72561e-19	1.00000
rad54	1.21449e-19	1.00000	1.21449e-19	1.00000
rad41	2.74150e-20	1.00000	2.74150e-20	1.00000
rad52	2.30298e-20	1.00000	2.30298e-20	1.00000
rad51	1.18696e-20	1.00000	1.18696e-20	1.00000
rad42	3.20077e-21	1.00000	3.20077e-21	1.00000
rad55	2.06652e-21	1.00000	2.06652e-21	1.00000
rad65	4.16645e-23	1.00000	4.16645e-23	1.00000
rad61	2.38275e-23	1.00000	2.38275e-23	1.00000
rad68syn	2.81126e-24	1.00000	2.81126e-24	1.00000
rad68anti	2.07097e-24	1.00000	2.07097e-24	1.00000
rad53	1.64060e-24	1.00000	1.64060e-24	1.00000
rad47	1.29156e-24	1.00000	1.29156e-24	1.00000
rad40syn	5.89925e-26	1.00000	5.89925e-26	1.00000
rad40anti	4.64828e-26	1.00000	4.64828e-26	1.00000
rad56	3.10185e-26	1.00000	3.10185e-26	1.00000
rad19syn	2.05050e-26	1.00000	2.05050e-26	1.00000
PAH8+H	1.60697e-26	1.00000	1.60697e-26	1.00000
rad64	7.46608e-27	1.00000	7.46608e-27	1.00000
rad73	2.90699e-28	1.00000	2.90699e-28	1.00000
rad71	4.36893e-30	1.00000	4.36893e-30	1.00000
rad8	6.54277e-33	1.00000	6.54277e-33	1.00000

100000.000 Pa, 260.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.97464e-14 (1.00)	2.97464e-14 (1.00)
Formation of rad19	2.97293e-14 (0.999)	2.97293e-14 (0.999)
H-abstraction to cyc2enyl	1.70236e-17 (0.000572)	1.70236e-17 (0.000572)
H-abstraction to cyclenyl	3.02186e-20 (1.02e-06)	3.02186e-20 (1.02e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.991429	0.991429	0.991429	0.991429
Indene+H	0.00455385	0.995983	0.00455385	0.995983
rad15	0.00344026	0.999423	0.00344026	0.999423
Benzene+cycloprop-2-enylidene	0.000572291	0.999996	0.000572291	0.999996
rad19anti	1.81522e-06	0.999997	1.81522e-06	0.999997
PhCHCCH2+H	1.29012e-06	0.999999	1.29012e-06	0.999999
Benzene+cycloprop-1-enylidene	1.01588e-06	1.000000	1.01588e-06	1.000000
rad12	7.09101e-08	1.000000	7.09101e-08	1.000000
rad2	5.38537e-08	1.000000	5.38537e-08	1.000000
rad11	4.12018e-08	1.000000	4.12018e-08	1.000000
rad6	2.61767e-08	1.000000	2.61767e-08	1.000000
rad22	9.95663e-09	1.000000	9.95663e-09	1.000000
rad26	8.16351e-09	1.000000	8.16351e-09	1.000000
C2H2+PhCH2	4.27980e-09	1.000000	4.27980e-09	1.000000
rad1	4.14194e-09	1.000000	4.14194e-09	1.000000
rad18	3.44413e-09	1.000000	3.44413e-09	1.000000
rad67	2.71942e-09	1.000000	2.71942e-09	1.000000
rad45	2.19421e-09	1.000000	2.19421e-09	1.000000
rad23	1.17867e-09	1.000000	1.17867e-09	1.000000
rad35	1.16796e-09	1.000000	1.16796e-09	1.000000
rad10	1.11540e-09	1.000000	1.11540e-09	1.000000
rad3	2.65416e-10	1.000000	2.65416e-10	1.000000
rad20	2.52952e-10	1.000000	2.52952e-10	1.000000
rad7	1.83092e-10	1.000000	1.83092e-10	1.000000
rad21	1.78499e-10	1.000000	1.78499e-10	1.000000
PhCCCH3+H	1.65157e-10	1.000000	1.65157e-10	1.000000
rad4	1.42489e-10	1.000000	1.42489e-10	1.000000
rad36	1.42396e-10	1.000000	1.42396e-10	1.000000
Ph+MeAc	1.37271e-10	1.000000	1.37271e-10	1.000000
PhcycC3H3_A+H	9.35458e-11	1.000000	9.35458e-11	1.000000
PhCCH+CH3	6.86351e-11	1.000000	6.86351e-11	1.000000
Ph+Allene	4.06366e-11	1.000000	4.06366e-11	1.000000
rad5	2.46914e-11	1.000000	2.46914e-11	1.000000
rad30	1.75105e-11	1.000000	1.75105e-11	1.000000
PhCH2CCH+H	9.46098e-12	1.000000	9.46098e-12	1.000000
rad25	2.42782e-12	1.000000	2.42782e-12	1.000000
Phenyl+cycC3H4	1.79976e-12	1.000000	0.000000	1.000000
PhcycC3H3_B+H	1.70479e-12	1.000000	1.70479e-12	1.000000
rad27	1.06164e-12	1.000000	1.06164e-12	1.000000
rad13	6.64494e-13	1.000000	6.64494e-13	1.000000
rad14	1.60894e-13	1.000000	1.60894e-13	1.000000

rad37	1.12780e-13	1.00000	1.12780e-13	1.00000
rad28	1.05512e-13	1.00000	1.05512e-13	1.00000
rad60syn	1.02181e-13	1.00000	1.02181e-13	1.00000
PAH3+H	6.58028e-14	1.00000	6.58028e-14	1.00000
rad60anti	5.14460e-14	1.00000	5.14460e-14	1.00000
PAH7+H	2.80700e-14	1.00000	2.80700e-14	1.00000
rad59	1.25534e-14	1.00000	1.25534e-14	1.00000
rad38	3.67764e-15	1.00000	3.67764e-15	1.00000
rad24	1.21284e-15	1.00000	1.21284e-15	1.00000
rad33	1.20673e-15	1.00000	1.20673e-15	1.00000
PAH9+H	1.05790e-15	1.00000	1.05790e-15	1.00000
PAH10+CH3	6.37052e-16	1.00000	6.37052e-16	1.00000
rad46	2.38667e-16	1.00000	2.38667e-16	1.00000
rad43	8.91195e-17	1.00000	8.91195e-17	1.00000
rad70	1.01948e-17	1.00000	1.01948e-17	1.00000
rad39	5.74102e-18	1.00000	5.74102e-18	1.00000
rad58	5.59578e-18	1.00000	5.59578e-18	1.00000
rad62	4.25424e-18	1.00000	4.25424e-18	1.00000
rad50	3.31192e-18	1.00000	3.31192e-18	1.00000
rad31	2.70741e-18	1.00000	2.70741e-18	1.00000
rad34	3.74164e-19	1.00000	3.74164e-19	1.00000
PAH1+H	3.27464e-19	1.00000	3.27464e-19	1.00000
rad54	2.25194e-19	1.00000	2.25194e-19	1.00000
rad41	5.50354e-20	1.00000	5.50354e-20	1.00000
rad52	4.03728e-20	1.00000	4.03728e-20	1.00000
rad51	2.20909e-20	1.00000	2.20909e-20	1.00000
rad42	7.07217e-21	1.00000	7.07217e-21	1.00000
rad55	4.06424e-21	1.00000	4.06424e-21	1.00000
rad65	8.77300e-23	1.00000	8.77300e-23	1.00000
rad61	6.00976e-23	1.00000	6.00976e-23	1.00000
rad68syn	7.30360e-24	1.00000	7.30360e-24	1.00000
rad68anti	5.35636e-24	1.00000	5.35636e-24	1.00000
rad53	4.01071e-24	1.00000	4.01071e-24	1.00000
rad47	1.78354e-24	1.00000	1.78354e-24	1.00000
rad40syn	1.81990e-25	1.00000	1.81990e-25	1.00000
rad40anti	1.44150e-25	1.00000	1.44150e-25	1.00000
rad56	8.82259e-26	1.00000	8.82259e-26	1.00000
rad19syn	8.59045e-26	1.00000	8.59045e-26	1.00000
PAH8+H	5.32335e-26	1.00000	5.32335e-26	1.00000
rad64	2.13141e-26	1.00000	2.13141e-26	1.00000
rad73	9.26524e-28	1.00000	9.26524e-28	1.00000
rad71	1.54696e-29	1.00000	1.54696e-29	1.00000
rad8	6.93152e-33	1.00000	6.93152e-33	1.00000

100000.000 Pa, 270.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.24655e-14 (1.00)	3.24655e-14 (1.00)
Formation of rad19	3.24415e-14 (0.999)	3.24415e-14 (0.999)
H-abstraction to cyc2enyl	2.38790e-17 (0.000736)	2.38790e-17 (0.000736)
H-abstraction to cyclenyl	5.45397e-20 (1.68e-06)	5.45397e-20 (1.68e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.990891	0.990891	0.990891	0.990891
Indene+H	0.00494865	0.995840	0.00494865	0.995840
rad15	0.00341981	0.999259	0.00341981	0.999259
Benzene+cycloprop-2-enylidene	0.000735519	0.999995	0.000735519	0.999995
rad19anti	1.90825e-06	0.999997	1.90825e-06	0.999997
Benzene+cycloprop-1-enylidene	1.67993e-06	0.999999	1.67993e-06	0.999999
PhCHCCH2+H	1.49668e-06	1.00000	1.49668e-06	1.00000
rad12	6.97523e-08	1.00000	6.97523e-08	1.00000
rad2	6.26755e-08	1.00000	6.26755e-08	1.00000
rad11	4.58436e-08	1.00000	4.58436e-08	1.00000
rad6	3.24498e-08	1.00000	3.24498e-08	1.00000
rad22	1.13064e-08	1.00000	1.13064e-08	1.00000
rad26	9.52056e-09	1.00000	9.52056e-09	1.00000
C2H2+PhCH2	5.29563e-09	1.00000	5.29563e-09	1.00000
rad1	4.87561e-09	1.00000	4.87561e-09	1.00000
rad18	3.39251e-09	1.00000	3.39251e-09	1.00000
rad67	3.30110e-09	1.00000	3.30110e-09	1.00000
rad45	2.59729e-09	1.00000	2.59729e-09	1.00000
rad23	1.51134e-09	1.00000	1.51134e-09	1.00000
rad10	1.44409e-09	1.00000	1.44409e-09	1.00000
rad35	1.41185e-09	1.00000	1.41185e-09	1.00000
rad3	3.35281e-10	1.00000	3.35281e-10	1.00000
rad20	2.55660e-10	1.00000	2.55660e-10	1.00000
PhCCCH3+H	2.29793e-10	1.00000	2.29793e-10	1.00000
rad7	1.96872e-10	1.00000	1.96872e-10	1.00000

Ph+MeAc	1.96254e-10	1.00000	1.96254e-10	1.00000
rad21	1.80699e-10	1.00000	1.80699e-10	1.00000
rad4	1.80552e-10	1.00000	1.80552e-10	1.00000
rad36	1.69565e-10	1.00000	1.69565e-10	1.00000
PhcycC3H3_A+H	1.26076e-10	1.00000	1.26076e-10	1.00000
PhCCH+CH3	1.04131e-10	1.00000	1.04131e-10	1.00000
Ph+Allene	5.56999e-11	1.00000	5.56999e-11	1.00000
rad5	3.07314e-11	1.00000	3.07314e-11	1.00000
rad30	2.15756e-11	1.00000	2.15756e-11	1.00000
PhCH2CCH+H	1.33884e-11	1.00000	1.33884e-11	1.00000
rad25	2.71184e-12	1.00000	2.71184e-12	1.00000
PhcycC3H3_B+H	2.68337e-12	1.00000	2.68337e-12	1.00000
Phenyl+cycC3H4	2.60297e-12	1.00000	0.00000	1.00000
rad27	1.22745e-12	1.00000	1.22745e-12	1.00000
rad13	8.14581e-13	1.00000	8.14581e-13	1.00000
rad14	2.12055e-13	1.00000	2.12055e-13	1.00000
rad37	1.62121e-13	1.00000	1.62121e-13	1.00000
rad28	1.56366e-13	1.00000	1.56366e-13	1.00000
rad60syn	1.32231e-13	1.00000	1.32231e-13	1.00000
PAH3+H	9.01528e-14	1.00000	9.01528e-14	1.00000
rad60anti	6.68537e-14	1.00000	6.68537e-14	1.00000
PAH7+H	4.05971e-14	1.00000	4.05971e-14	1.00000
rad59	1.70380e-14	1.00000	1.70380e-14	1.00000
rad38	5.43661e-15	1.00000	5.43661e-15	1.00000
PAH9+H	1.70203e-15	1.00000	1.70203e-15	1.00000
rad33	1.46524e-15	1.00000	1.46524e-15	1.00000
rad24	1.22755e-15	1.00000	1.22755e-15	1.00000
PAH10+CH3	1.05726e-15	1.00000	1.05726e-15	1.00000
rad46	3.59479e-16	1.00000	3.59479e-16	1.00000
rad43	1.49882e-16	1.00000	1.49882e-16	1.00000
rad70	1.72266e-17	1.00000	1.72266e-17	1.00000
rad39	1.08522e-17	1.00000	1.08522e-17	1.00000
rad58	8.87308e-18	1.00000	8.87308e-18	1.00000
rad62	8.10868e-18	1.00000	8.10868e-18	1.00000
rad50	5.49742e-18	1.00000	5.49742e-18	1.00000
rad31	3.51702e-18	1.00000	3.51702e-18	1.00000
rad34	6.73151e-19	1.00000	6.73151e-19	1.00000
PAH1+H	6.19763e-19	1.00000	6.19763e-19	1.00000
rad54	4.17319e-19	1.00000	4.17319e-19	1.00000
rad41	1.09471e-19	1.00000	1.09471e-19	1.00000
rad52	7.10644e-20	1.00000	7.10644e-20	1.00000
rad51	4.11682e-20	1.00000	4.11682e-20	1.00000
rad42	1.53014e-20	1.00000	1.53014e-20	1.00000
rad55	7.95131e-21	1.00000	7.95131e-21	1.00000
rad65	1.83201e-22	1.00000	1.83201e-22	1.00000
rad61	1.45401e-22	1.00000	1.45401e-22	1.00000
rad68syn	1.80393e-23	1.00000	1.80393e-23	1.00000
rad68anti	1.31793e-23	1.00000	1.31793e-23	1.00000
rad53	9.49919e-24	1.00000	9.49919e-24	1.00000
rad47	2.48524e-24	1.00000	2.48524e-24	1.00000
rad40syn	5.22440e-25	1.00000	5.22440e-25	1.00000
rad40anti	4.16120e-25	1.00000	4.16120e-25	1.00000
rad19syn	3.73763e-25	1.00000	3.73763e-25	1.00000
rad56	2.36943e-25	1.00000	2.36943e-25	1.00000
PAH8+H	1.62023e-25	1.00000	1.62023e-25	1.00000
rad64	5.78967e-26	1.00000	5.78967e-26	1.00000
rad73	2.75233e-27	1.00000	2.75233e-27	1.00000
rad71	5.01446e-29	1.00000	5.01446e-29	1.00000
rad8	8.35729e-33	1.00000	8.35729e-33	1.00000

100000.000 Pa, 280.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.52572e-14 (1.00)	3.52572e-14 (1.00)
Formation of rad19	3.52244e-14 (0.999)	3.52244e-14 (0.999)
H-abstraction to cyc2enyl	3.26639e-17 (0.000926)	3.26639e-17 (0.000926)
H-abstraction to cyclenyl	9.42926e-20 (2.67e-06)	9.42926e-20 (2.67e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.990290	0.990290	0.990290	0.990290
Indene+H	0.00537736	0.995667	0.00537736	0.995667
rad15	0.00339965	0.999067	0.00339965	0.999067
Benzene+cycloprop-2-enylidene	0.000926445	0.999993	0.000926445	0.999993
Benzene+cycloprop-1-enylidene	2.67442e-06	0.999996	2.67442e-06	0.999996
rad19anti	2.06542e-06	0.999998	2.06542e-06	0.999998
PhCHCCH2+H	1.74163e-06	1.000000	1.74163e-06	1.000000
rad2	7.31170e-08	1.00000	7.31170e-08	1.00000
rad12	6.87377e-08	1.00000	6.87377e-08	1.00000

rad11	5.09608e-08	1.00000	5.09608e-08	1.00000
rad6	4.02790e-08	1.00000	4.02790e-08	1.00000
rad22	1.28125e-08	1.00000	1.28125e-08	1.00000
rad26	1.11372e-08	1.00000	1.11372e-08	1.00000
C2H2+PhCH2	6.56454e-09	1.00000	6.56454e-09	1.00000
rad1	5.75948e-09	1.00000	5.75948e-09	1.00000
rad67	4.01766e-09	1.00000	4.01766e-09	1.00000
rad18	3.33863e-09	1.00000	3.33863e-09	1.00000
rad45	3.07777e-09	1.00000	3.07777e-09	1.00000
rad23	1.93757e-09	1.00000	1.93757e-09	1.00000
rad10	1.87498e-09	1.00000	1.87498e-09	1.00000
rad35	1.71104e-09	1.00000	1.71104e-09	1.00000
rad3	4.23228e-10	1.00000	4.23228e-10	1.00000
PhCCCH3+H	3.21643e-10	1.00000	3.21643e-10	1.00000
Ph+MeAc	2.82326e-10	1.00000	2.82326e-10	1.00000
rad20	2.58632e-10	1.00000	2.58632e-10	1.00000
rad4	2.28698e-10	1.00000	2.28698e-10	1.00000
rad7	2.12633e-10	1.00000	2.12633e-10	1.00000
rad36	2.02271e-10	1.00000	2.02271e-10	1.00000
rad21	1.83108e-10	1.00000	1.83108e-10	1.00000
PhcycC3H3_A+H	1.69685e-10	1.00000	1.69685e-10	1.00000
PhCCH+CH3	1.58031e-10	1.00000	1.58031e-10	1.00000
Ph+Allene	7.65864e-11	1.00000	7.65864e-11	1.00000
rad5	3.83085e-11	1.00000	3.83085e-11	1.00000
rad30	2.66344e-11	1.00000	2.66344e-11	1.00000
PhCH2CCH+H	1.90055e-11	1.00000	1.90055e-11	1.00000
PhcycC3H3_B+H	4.17187e-12	1.00000	4.17187e-12	1.00000
Phenyl+cycC3H4	3.74720e-12	1.00000	0.00000	1.00000
rad25	3.02279e-12	1.00000	3.02279e-12	1.00000
rad27	1.42198e-12	1.00000	1.42198e-12	1.00000
rad13	1.00012e-12	1.00000	1.00012e-12	1.00000
rad14	2.78167e-13	1.00000	2.78167e-13	1.00000
rad37	2.34468e-13	1.00000	2.34468e-13	1.00000
rad28	2.32697e-13	1.00000	2.32697e-13	1.00000
rad60syn	1.71538e-13	1.00000	1.71538e-13	1.00000
PAH3+H	1.23835e-13	1.00000	1.23835e-13	1.00000
rad60anti	8.70907e-14	1.00000	8.70907e-14	1.00000
PAH7+H	5.87923e-14	1.00000	5.87923e-14	1.00000
rad59	2.31823e-14	1.00000	2.31823e-14	1.00000
rad38	8.08087e-15	1.00000	8.08087e-15	1.00000
PAH9+H	2.74444e-15	1.00000	2.74444e-15	1.00000
rad33	1.78349e-15	1.00000	1.78349e-15	1.00000
PAH10+CH3	1.75897e-15	1.00000	1.75897e-15	1.00000
rad24	1.25447e-15	1.00000	1.25447e-15	1.00000
rad46	5.44176e-16	1.00000	5.44176e-16	1.00000
rad43	2.52325e-16	1.00000	2.52325e-16	1.00000
rad70	2.89697e-17	1.00000	2.89697e-17	1.00000
rad39	2.04857e-17	1.00000	2.04857e-17	1.00000
rad62	1.52731e-17	1.00000	1.52731e-17	1.00000
rad58	1.40400e-17	1.00000	1.40400e-17	1.00000
rad50	9.16142e-18	1.00000	9.16142e-18	1.00000
rad31	4.62876e-18	1.00000	4.62876e-18	1.00000
rad34	1.19979e-18	1.00000	1.19979e-18	1.00000
PAH1+H	1.16550e-18	1.00000	1.16550e-18	1.00000
rad54	7.70031e-19	1.00000	7.70031e-19	1.00000
rad41	2.15106e-19	1.00000	2.15106e-19	1.00000
rad52	1.25287e-19	1.00000	1.25287e-19	1.00000
rad51	7.65802e-20	1.00000	7.65802e-20	1.00000
rad42	3.23397e-20	1.00000	3.23397e-20	1.00000
rad55	1.54104e-20	1.00000	1.54104e-20	1.00000
rad65	3.77797e-22	1.00000	3.77797e-22	1.00000
rad61	3.37143e-22	1.00000	3.37143e-22	1.00000
rad68syn	4.23978e-23	1.00000	4.23978e-23	1.00000
rad68anti	3.08750e-23	1.00000	3.08750e-23	1.00000
rad53	2.17289e-23	1.00000	2.17289e-23	1.00000
rad47	3.49981e-24	1.00000	3.49981e-24	1.00000
rad19syn	1.68201e-24	1.00000	1.68201e-24	1.00000
rad40syn	1.40183e-24	1.00000	1.40183e-24	1.00000
rad40anti	1.12301e-24	1.00000	1.12301e-24	1.00000
rad56	6.01295e-25	1.00000	6.01295e-25	1.00000
PAH8+H	4.56227e-25	1.00000	4.56227e-25	1.00000
rad64	1.49409e-25	1.00000	1.49409e-25	1.00000
rad73	7.64965e-27	1.00000	7.64965e-27	1.00000
rad71	1.49927e-28	1.00000	1.49927e-28	1.00000
rad8	1.15763e-32	1.00000	1.15763e-32	1.00000

100000.000 Pa, 290.000000 K

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

Total	3.81171e-14 (1.00)	3.81171e-14 (1.00)
Formation of rad19	3.80733e-14 (0.999)	3.80733e-14 (0.999)
H-abstraction to cyc2enyl	4.36868e-17 (0.00115)	4.36868e-17 (0.00115)
H-abstraction to cyclenyl	1.56861e-19 (4.12e-06)	1.56861e-19 (4.12e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.989621	0.989621	0.989621	0.989621
Indene+H	0.00584364	0.995465	0.00584364	0.995465
rad15	0.00337980	0.998845	0.00337980	0.998845
Benzene+cycloprop-2-enylidene	0.00114612	0.999991	0.00114612	0.999991
Benzene+cycloprop-1-enylidene	4.11523e-06	0.999995	4.11523e-06	0.999995
rad19anti	2.29842e-06	0.999997	2.29842e-06	0.999997
PhCHCCH2+H	2.03283e-06	0.999999	2.03283e-06	0.999999
rad2	8.54860e-08	0.999999	8.54860e-08	0.999999
rad12	6.78588e-08	1.000000	6.78588e-08	1.000000
rad11	5.65806e-08	1.000000	5.65806e-08	1.000000
rad6	5.00493e-08	1.000000	5.00493e-08	1.000000
rad22	1.44877e-08	1.000000	1.44877e-08	1.000000
rad26	1.30677e-08	1.000000	1.30677e-08	1.000000
C2H2+PhCH2	8.15212e-09	1.000000	8.15212e-09	1.000000
rad1	6.82643e-09	1.000000	6.82643e-09	1.000000
rad67	4.90200e-09	1.000000	4.90200e-09	1.000000
rad45	3.65109e-09	1.000000	3.65109e-09	1.000000
rad18	3.28338e-09	1.000000	3.28338e-09	1.000000
rad23	2.48318e-09	1.000000	2.48318e-09	1.000000
rad10	2.43999e-09	1.000000	2.43999e-09	1.000000
rad35	2.07877e-09	1.000000	2.07877e-09	1.000000
rad3	5.33519e-10	1.000000	5.33519e-10	1.000000
PhCCCH3+H	4.52525e-10	1.000000	4.52525e-10	1.000000
Ph+MeAc	4.08223e-10	1.000000	4.08223e-10	1.000000
rad4	2.89394e-10	1.000000	2.89394e-10	1.000000
rad20	2.61952e-10	1.000000	2.61952e-10	1.000000
rad36	2.41714e-10	1.000000	2.41714e-10	1.000000
PhCCH+CH3	2.39547e-10	1.000000	2.39547e-10	1.000000
rad7	2.30902e-10	1.000000	2.30902e-10	1.000000
PhcycC3H3_A+H	2.27921e-10	1.000000	2.27921e-10	1.000000
rad21	1.85785e-10	1.000000	1.85785e-10	1.000000
Ph+Allene	1.05543e-10	1.000000	1.05543e-10	1.000000
rad5	4.77886e-11	1.000000	4.77886e-11	1.000000
rad30	3.29400e-11	1.000000	3.29400e-11	1.000000
PhCH2CCH+H	2.70335e-11	1.000000	2.70335e-11	1.000000
PhcycC3H3_B+H	6.40664e-12	1.000000	6.40664e-12	1.000000
Phenyl+cycC3H4	5.36566e-12	1.000000	0.000000	1.000000
rad25	3.36185e-12	1.000000	3.36185e-12	1.000000
rad27	1.65045e-12	1.000000	1.65045e-12	1.000000
rad13	1.22933e-12	1.000000	1.22933e-12	1.000000
rad14	3.62978e-13	1.000000	3.62978e-13	1.000000
rad28	3.47227e-13	1.000000	3.47227e-13	1.000000
rad37	3.40765e-13	1.000000	3.40765e-13	1.000000
rad60syn	2.23018e-13	1.000000	2.23018e-13	1.000000
PAH3+H	1.70438e-13	1.000000	1.70438e-13	1.000000
rad60anti	1.13702e-13	1.000000	1.13702e-13	1.000000
PAH7+H	8.51673e-14	1.000000	8.51673e-14	1.000000
rad59	3.16036e-14	1.000000	3.16036e-14	1.000000
rad38	1.20648e-14	1.000000	1.20648e-14	1.000000
PAH9+H	4.42809e-15	1.000000	4.42809e-15	1.000000
PAH10+CH3	2.92512e-15	1.000000	2.92512e-15	1.000000
rad33	2.17546e-15	1.000000	2.17546e-15	1.000000
rad24	1.29499e-15	1.000000	1.29499e-15	1.000000
rad46	8.27055e-16	1.000000	8.27055e-16	1.000000
rad43	4.24174e-16	1.000000	4.24174e-16	1.000000
rad70	4.83796e-17	1.000000	4.83796e-17	1.000000
rad39	3.84396e-17	1.000000	3.84396e-17	1.000000
rad62	2.83614e-17	1.000000	2.83614e-17	1.000000
rad58	2.21340e-17	1.000000	2.21340e-17	1.000000
rad50	1.52940e-17	1.000000	1.52940e-17	1.000000
rad31	6.17491e-18	1.000000	6.17491e-18	1.000000
PAH1+H	2.16937e-18	1.000000	2.16937e-18	1.000000
rad34	2.11347e-18	1.000000	2.11347e-18	1.000000
rad54	1.40918e-18	1.000000	1.40918e-18	1.000000
rad41	4.16248e-19	1.000000	4.16248e-19	1.000000
rad52	2.20584e-19	1.000000	2.20584e-19	1.000000
rad51	1.41693e-19	1.000000	1.41693e-19	1.000000
rad42	6.66216e-20	1.000000	6.66216e-20	1.000000
rad55	2.94643e-20	1.000000	2.94643e-20	1.000000
rad65	7.66223e-22	1.000000	7.66223e-22	1.000000
rad61	7.48862e-22	1.000000	7.48862e-22	1.000000
rad68syn	9.49257e-23	1.000000	9.49257e-23	1.000000
rad68anti	6.89375e-23	1.000000	6.89375e-23	1.000000

rad53	4.78916e-23	1.000000	4.78916e-23	1.000000
rad19syn	7.79336e-24	1.000000	7.79336e-24	1.000000
rad47	4.98880e-24	1.000000	4.98880e-24	1.000000
rad40syn	3.53073e-24	1.000000	3.53073e-24	1.000000
rad40anti	2.84519e-24	1.000000	2.84519e-24	1.000000
rad56	1.44387e-24	1.000000	1.44387e-24	1.000000
PAH8+H	1.19595e-24	1.000000	1.19595e-24	1.000000
rad64	3.66202e-25	1.000000	3.66202e-25	1.000000
rad73	1.99668e-26	1.000000	1.99668e-26	1.000000
rad71	4.16214e-28	1.000000	4.16214e-28	1.000000
rad8	1.83283e-32	1.000000	1.83283e-32	1.000000

100000.000 Pa, 300.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.34809e-14 (1.00)	5.34809e-14 (1.00)
Formation of rad19	5.34010e-14 (0.999)	5.34010e-14 (0.999)
H-abstraction to cyc2enyl	7.95823e-17 (0.00149)	7.95823e-17 (0.00149)
H-abstraction to cyclenyl	3.44981e-19 (6.45e-06)	3.44981e-19 (6.45e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.985964	0.985964	0.985964	0.985964
Indene+H	0.00914137	0.995106	0.00914137	0.995106
rad15	0.00337673	0.998482	0.00337673	0.998482
Benzene+cycloprop-2-enylidene	0.00148805	0.999970	0.00148805	0.999970
rad19anti	1.78719e-05	0.999988	1.78719e-05	0.999988
Benzene+cycloprop-1-enylidene	6.45054e-06	0.999995	6.45054e-06	0.999995
PhCHCCH2+H	4.44550e-06	0.999999	4.44550e-06	0.999999
rad2	1.87747e-07	0.999999	1.87747e-07	0.999999
rad6	1.74279e-07	1.000000	1.74279e-07	1.000000
rad11	8.17126e-08	1.000000	8.17126e-08	1.000000
rad12	7.69575e-08	1.000000	7.69575e-08	1.000000
rad26	3.19849e-08	1.000000	3.19849e-08	1.000000
C2H2+PhCH2	2.87436e-08	1.000000	2.87436e-08	1.000000
rad22	2.43595e-08	1.000000	2.43595e-08	1.000000
rad67	1.48730e-08	1.000000	1.48730e-08	1.000000
rad1	1.46330e-08	1.000000	1.46330e-08	1.000000
rad10	1.01485e-08	1.000000	1.01485e-08	1.000000
rad23	9.38854e-09	1.000000	9.38854e-09	1.000000
rad45	8.89436e-09	1.000000	8.89436e-09	1.000000
rad35	6.05632e-09	1.000000	6.05632e-09	1.000000
Ph+MeAc	4.50311e-09	1.000000	4.50311e-09	1.000000
PhCCCH3+H	4.05312e-09	1.000000	4.05312e-09	1.000000
PhCCH+CH3	3.20413e-09	1.000000	3.20413e-09	1.000000
rad18	2.99136e-09	1.000000	2.99136e-09	1.000000
rad3	1.65115e-09	1.000000	1.65115e-09	1.000000
rad4	8.50732e-10	1.000000	8.50732e-10	1.000000
Ph+Allene	5.86559e-10	1.000000	5.86559e-10	1.000000
rad7	3.86300e-10	1.000000	3.86300e-10	1.000000
PhcycC3H3_A+H	3.75803e-10	1.000000	3.75803e-10	1.000000
rad36	3.07132e-10	1.000000	3.07132e-10	1.000000
rad20	2.51432e-10	1.000000	2.51432e-10	1.000000
PhCH2CCH+H	2.49038e-10	1.000000	2.49038e-10	1.000000
rad21	1.87317e-10	1.000000	1.87317e-10	1.000000
rad5	1.39596e-10	1.000000	1.39596e-10	1.000000
rad30	1.03658e-10	1.000000	1.03658e-10	1.000000
PhcycC3H3_B+H	1.43931e-11	1.000000	1.43931e-11	1.000000
Phenyl+cycC3H4	8.21398e-12	1.000000	0.000000	1.000000
rad28	5.37397e-12	1.000000	5.37397e-12	1.000000
rad25	5.29023e-12	1.000000	5.29023e-12	1.000000
rad37	4.90082e-12	1.000000	4.90082e-12	1.000000
rad13	3.67306e-12	1.000000	3.67306e-12	1.000000
rad27	3.45761e-12	1.000000	3.45761e-12	1.000000
PAH3+H	1.24727e-12	1.000000	1.24727e-12	1.000000
rad14	1.21164e-12	1.000000	1.21164e-12	1.000000
rad60syn	9.79202e-13	1.000000	9.79202e-13	1.000000
PAH7+H	8.38647e-13	1.000000	8.38647e-13	1.000000
rad60anti	5.16161e-13	1.000000	5.16161e-13	1.000000
rad38	2.18931e-13	1.000000	2.18931e-13	1.000000
rad59	2.00275e-13	1.000000	2.00275e-13	1.000000
PAH9+H	1.84035e-13	1.000000	1.84035e-13	1.000000
PAH10+CH3	1.55976e-13	1.000000	1.55976e-13	1.000000
rad46	1.85158e-14	1.000000	1.85158e-14	1.000000
rad43	1.62667e-14	1.000000	1.62667e-14	1.000000
rad39	7.74197e-15	1.000000	7.74197e-15	1.000000
rad33	7.14489e-15	1.000000	7.14489e-15	1.000000
rad24	2.26220e-15	1.000000	2.26220e-15	1.000000
rad62	1.83751e-15	1.000000	1.83751e-15	1.000000

rad70	1.45697e-15	1.000000	1.45697e-15	1.000000
rad50	9.99155e-16	1.000000	9.99155e-16	1.000000
rad58	3.79083e-16	1.000000	3.79083e-16	1.000000
PAH1+H	2.49017e-16	1.000000	2.49017e-16	1.000000
rad54	1.98292e-16	1.000000	1.98292e-16	1.000000
rad34	1.02706e-16	1.000000	1.02706e-16	1.000000
rad41	5.89851e-17	1.000000	5.89851e-17	1.000000
rad31	3.99474e-17	1.000000	3.99474e-17	1.000000
rad51	3.14112e-17	1.000000	3.14112e-17	1.000000
rad52	2.78606e-17	1.000000	2.78606e-17	1.000000
rad42	1.17403e-17	1.000000	1.17403e-17	1.000000
rad55	6.34142e-18	1.000000	6.34142e-18	1.000000
rad19syn	1.18375e-18	1.000000	1.18375e-18	1.000000
rad61	1.18314e-18	1.000000	1.18314e-18	1.000000
rad65	5.57633e-19	1.000000	5.57633e-19	1.000000
rad53	7.97290e-20	1.000000	7.97290e-20	1.000000
rad68syn	7.00595e-20	1.000000	7.00595e-20	1.000000
rad68anti	4.84892e-20	1.000000	4.84892e-20	1.000000
PAH8+H	2.93830e-20	1.000000	2.93830e-20	1.000000
rad40syn	2.26983e-20	1.000000	2.26983e-20	1.000000
rad40anti	1.95361e-20	1.000000	1.95361e-20	1.000000
rad56	1.43341e-20	1.000000	1.43341e-20	1.000000
rad64	9.38547e-21	1.000000	9.38547e-21	1.000000
rad73	2.21373e-21	1.000000	2.21373e-21	1.000000
rad71	6.29405e-22	1.000000	6.29405e-22	1.000000
rad47	7.77135e-23	1.000000	7.77135e-23	1.000000
rad72	3.73254e-25	1.000000	3.73254e-25	1.000000
rad8	7.72721e-26	1.000000	7.72721e-26	1.000000

100000.000 Pa, 310.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.92544e-14 (1.00)	5.92544e-14 (1.00)
Formation of rad19	5.91462e-14 (0.998)	5.91462e-14 (0.998)
H-abstraction to cyc2enyl	1.07628e-16 (0.00182)	1.07628e-16 (0.00182)
H-abstraction to cyc1enyl	5.62537e-19 (9.49e-06)	5.62537e-19 (9.49e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.987923	0.987923	0.987923	0.987923
Indene+H	0.00690434	0.994827	0.00690434	0.994827
rad15	0.00334051	0.998168	0.00334051	0.998168
Benzene+cycloprop-2-enylidene	0.00181637	0.999984	0.00181637	0.999984
Benzene+cycloprop-1-enylidene	9.49359e-06	0.999994	9.49359e-06	0.999994
rad19anti	3.07133e-06	0.999997	3.07133e-06	0.999997
PhCHCCH2+H	2.79319e-06	0.999999	2.79319e-06	0.999999
rad2	1.17478e-07	1.000000	1.17478e-07	1.000000
rad6	7.73931e-08	1.000000	7.73931e-08	1.000000
rad11	6.94013e-08	1.000000	6.94013e-08	1.000000
rad12	6.64789e-08	1.000000	6.64789e-08	1.000000
rad22	1.83880e-08	1.000000	1.83880e-08	1.000000
rad26	1.81405e-08	1.000000	1.81405e-08	1.000000
C2H2+PhCH2	1.26301e-08	1.000000	1.26301e-08	1.000000
rad1	9.67526e-09	1.000000	9.67526e-09	1.000000
rad67	7.34500e-09	1.000000	7.34500e-09	1.000000
rad45	5.15214e-09	1.000000	5.15214e-09	1.000000
rad10	4.14747e-09	1.000000	4.14747e-09	1.000000
rad23	4.06929e-09	1.000000	4.06929e-09	1.000000
rad18	3.17127e-09	1.000000	3.17127e-09	1.000000
rad35	3.08834e-09	1.000000	3.08834e-09	1.000000
PhCCCH3+H	9.05246e-10	1.000000	9.05246e-10	1.000000
Ph+MeAc	8.61371e-10	1.000000	8.61371e-10	1.000000
rad3	8.41954e-10	1.000000	8.41954e-10	1.000000
PhCCH+CH3	5.44869e-10	1.000000	5.44869e-10	1.000000
rad4	4.60698e-10	1.000000	4.60698e-10	1.000000
PhcycC3H3_A+H	4.07507e-10	1.000000	4.07507e-10	1.000000
rad36	3.46831e-10	1.000000	3.46831e-10	1.000000
rad7	2.77934e-10	1.000000	2.77934e-10	1.000000
rad20	2.69872e-10	1.000000	2.69872e-10	1.000000
Ph+Allene	2.00907e-10	1.000000	2.00907e-10	1.000000
rad21	1.92111e-10	1.000000	1.92111e-10	1.000000
rad5	7.42579e-11	1.000000	7.42579e-11	1.000000
PhCH2CCH+H	5.47151e-11	1.000000	5.47151e-11	1.000000
rad30	5.06228e-11	1.000000	5.06228e-11	1.000000
PhcycC3H3_B+H	1.45400e-11	1.000000	1.45400e-11	1.000000
Phenyl+cycC3H4	1.07884e-11	1.000000	0.00000	1.000000
rad25	4.12681e-12	1.000000	4.12681e-12	1.000000
rad27	2.23405e-12	1.000000	2.23405e-12	1.000000
rad13	1.86004e-12	1.000000	1.86004e-12	1.000000

rad28	7.73757e-13	1.000000	7.73757e-13	1.000000
rad37	7.25672e-13	1.000000	7.25672e-13	1.000000
rad14	6.07029e-13	1.000000	6.07029e-13	1.000000
rad60syn	3.78729e-13	1.000000	3.78729e-13	1.000000
PAH3+H	3.23617e-13	1.000000	3.23617e-13	1.000000
rad60anti	1.94693e-13	1.000000	1.94693e-13	1.000000
PAH7+H	1.77952e-13	1.000000	1.77952e-13	1.000000
rad59	5.88848e-14	1.000000	5.88848e-14	1.000000
rad38	2.70853e-14	1.000000	2.70853e-14	1.000000
PAH9+H	1.14546e-14	1.000000	1.14546e-14	1.000000
PAH10+CH3	7.97368e-15	1.000000	7.97368e-15	1.000000
rad33	3.25145e-15	1.000000	3.25145e-15	1.000000
rad46	1.92111e-15	1.000000	1.92111e-15	1.000000
rad24	1.42370e-15	1.000000	1.42370e-15	1.000000
rad43	1.18023e-15	1.000000	1.18023e-15	1.000000
rad70	1.30900e-16	1.000000	1.30900e-16	1.000000
rad39	1.30558e-16	1.000000	1.30558e-16	1.000000
rad62	9.28710e-17	1.000000	9.28710e-17	1.000000
rad58	5.39983e-17	1.000000	5.39983e-17	1.000000
rad50	4.23673e-17	1.000000	4.23673e-17	1.000000
rad31	1.14596e-17	1.000000	1.14596e-17	1.000000
PAH1+H	7.18033e-18	1.000000	7.18033e-18	1.000000
rad34	6.26863e-18	1.000000	6.26863e-18	1.000000
rad54	4.53391e-18	1.000000	4.53391e-18	1.000000
rad41	1.47126e-18	1.000000	1.47126e-18	1.000000
rad52	6.71891e-19	1.000000	6.71891e-19	1.000000
rad51	4.70307e-19	1.000000	4.70307e-19	1.000000
rad42	2.59962e-19	1.000000	2.59962e-19	1.000000
rad55	1.01881e-19	1.000000	1.01881e-19	1.000000
rad61	3.24944e-21	1.000000	3.24944e-21	1.000000
rad65	2.95557e-21	1.000000	2.95557e-21	1.000000
rad68syn	4.13565e-22	1.000000	4.13565e-22	1.000000
rad68anti	2.99060e-22	1.000000	2.99060e-22	1.000000
rad53	2.07069e-22	1.000000	2.07069e-22	1.000000
rad19syn	1.78884e-22	1.000000	1.78884e-22	1.000000
rad40syn	1.88167e-23	1.000000	1.88167e-23	1.000000
rad40anti	1.53440e-23	1.000000	1.53440e-23	1.000000
rad47	1.05767e-23	1.000000	1.05767e-23	1.000000
rad56	7.10783e-24	1.000000	7.10783e-24	1.000000
PAH8+H	6.77699e-24	1.000000	6.77699e-24	1.000000
rad64	1.89119e-24	1.000000	1.89119e-24	1.000000
rad73	1.14234e-25	1.000000	1.14234e-25	1.000000
rad71	2.62513e-27	1.000000	2.62513e-27	1.000000
rad8	6.36919e-32	1.000000	6.36919e-32	1.000000

100000.000 Pa, 400.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.29463e-13 (1.00)	1.29463e-13 (1.00)
Formation of rad19	1.28526e-13 (0.993)	1.28526e-13 (0.993)
H-abstraction to cyc2enyl	9.19357e-16 (0.00710)	9.19357e-16 (0.00710)
H-abstraction to cyclenyl	1.69485e-17 (0.000131)	1.69485e-17 (0.000131)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.965768	0.965768	0.965768	0.965768
Indene+H	0.0237164	0.989485	0.0237164	0.989485
Benzene+cycloprop-2-enylidene	0.00710133	0.996586	0.00710133	0.996586
rad15	0.00317900	0.999765	0.00317900	0.999765
Benzene+cycloprop-1-enylidene	0.000130914	0.999896	0.000130914	0.999896
rad19anti	6.37039e-05	0.999960	6.37039e-05	0.999960
PhCHCCH2+H	3.47828e-05	0.999995	3.47828e-05	0.999995
rad6	1.83213e-06	0.999996	1.83213e-06	0.999996
rad2	9.61962e-07	0.999997	9.61962e-07	0.999997
C2H2+PhCH2	3.88442e-07	0.999998	3.88442e-07	0.999998
Ph+MeAc	2.60679e-07	0.999998	2.60679e-07	0.999998
rad26	2.52279e-07	0.999998	2.52279e-07	0.999998
PhCCCH3+H	1.83971e-07	0.999998	1.83971e-07	0.999998
rad67	1.79310e-07	0.999999	1.79310e-07	0.999999
rad11	1.72803e-07	0.999999	1.72803e-07	0.999999
PhCCH+CH3	1.36865e-07	0.999999	1.36865e-07	0.999999
rad10	1.13855e-07	0.999999	1.13855e-07	0.999999
rad23	1.07681e-07	0.999999	1.07681e-07	0.999999
rad12	9.70854e-08	0.999999	9.70854e-08	0.999999
rad1	9.20746e-08	0.999999	9.20746e-08	0.999999
rad35	6.93848e-08	0.999999	6.93848e-08	0.999999
rad45	6.50461e-08	1.000000	6.50461e-08	1.000000
rad22	6.14340e-08	1.000000	6.14340e-08	1.000000
Ph+Allene	2.59345e-08	1.000000	2.59345e-08	1.000000

PhCH2CCH+H	1.43986e-08	1.000000	1.43986e-08	1.000000
rad3	1.07960e-08	1.000000	1.07960e-08	1.000000
PhcycC3H3_A+H	7.56159e-09	1.000000	7.56159e-09	1.000000
rad4	5.86260e-09	1.000000	5.86260e-09	1.000000
rad7	3.43480e-09	1.000000	3.43480e-09	1.000000
rad18	2.66706e-09	1.000000	2.66706e-09	1.000000
rad36	2.51589e-09	1.000000	2.51589e-09	1.000000
rad30	1.41788e-09	1.000000	1.41788e-09	1.000000
PhcycC3H3_B+H	9.54141e-10	1.000000	9.54141e-10	1.000000
rad5	9.22558e-10	1.000000	9.22558e-10	1.000000
rad37	6.79774e-10	1.000000	6.79774e-10	1.000000
rad28	5.15063e-10	1.000000	5.15063e-10	1.000000
rad20	3.33231e-10	1.000000	3.33231e-10	1.000000
rad21	2.53483e-10	1.000000	2.53483e-10	1.000000
Phenyl+cycC3H4	2.22643e-10	1.000000	0.00000	1.000000
PAH7+H	1.04086e-10	1.000000	1.04086e-10	1.000000
PAH10+CH3	8.32465e-11	1.000000	8.32465e-11	1.000000
PAH9+H	6.98226e-11	1.000000	6.98226e-11	1.000000
PAH3+H	6.39463e-11	1.000000	6.39463e-11	1.000000
rad38	5.54882e-11	1.000000	5.54882e-11	1.000000
rad13	3.29564e-11	1.000000	3.29564e-11	1.000000
rad60syn	2.53662e-11	1.000000	2.53662e-11	1.000000
rad27	1.66648e-11	1.000000	1.66648e-11	1.000000
rad60anti	1.40575e-11	1.000000	1.40575e-11	1.000000
rad39	1.15500e-11	1.000000	1.15500e-11	1.000000
rad25	1.11300e-11	1.000000	1.11300e-11	1.000000
rad59	9.08829e-12	1.000000	9.08829e-12	1.000000
rad14	8.38480e-12	1.000000	8.38480e-12	1.000000
rad46	6.50159e-12	1.000000	6.50159e-12	1.000000
rad43	3.04722e-12	1.000000	3.04722e-12	1.000000
rad50	1.26889e-12	1.000000	1.26889e-12	1.000000
rad70	3.50724e-13	1.000000	3.50724e-13	1.000000
rad62	3.17529e-13	1.000000	3.17529e-13	1.000000
PAH1+H	2.79090e-13	1.000000	2.79090e-13	1.000000
rad54	2.39949e-13	1.000000	2.39949e-13	1.000000
rad19syn	2.09185e-13	1.000000	2.09185e-13	1.000000
rad51	1.21236e-13	1.000000	1.21236e-13	1.000000
rad58	7.20668e-14	1.000000	7.20668e-14	1.000000
rad33	7.08828e-14	1.000000	7.08828e-14	1.000000
rad52	6.31565e-14	1.000000	6.31565e-14	1.000000
rad34	3.95243e-14	1.000000	3.95243e-14	1.000000
rad41	2.82433e-14	1.000000	2.82433e-14	1.000000
rad55	1.08581e-14	1.000000	1.08581e-14	1.000000
rad24	9.74873e-15	1.000000	9.74873e-15	1.000000
rad61	4.92609e-15	1.000000	4.92609e-15	1.000000
rad42	4.24692e-15	1.000000	4.24692e-15	1.000000
rad31	3.30455e-15	1.000000	3.30455e-15	1.000000
rad65	3.29468e-15	1.000000	3.29468e-15	1.000000
rad53	4.65065e-16	1.000000	4.65065e-16	1.000000
rad73	1.89855e-16	1.000000	1.89855e-16	1.000000
PAH8+H	1.82950e-16	1.000000	1.82950e-16	1.000000
rad68syn	1.75935e-16	1.000000	1.75935e-16	1.000000
rad56	1.74253e-16	1.000000	1.74253e-16	1.000000
rad64	1.55060e-16	1.000000	1.55060e-16	1.000000
rad71	1.22721e-16	1.000000	1.22721e-16	1.000000
rad68anti	1.18886e-16	1.000000	1.18886e-16	1.000000
rad40syn	8.09224e-17	1.000000	8.09224e-17	1.000000
rad40anti	6.76356e-17	1.000000	6.76356e-17	1.000000
rad72	7.05466e-19	1.000000	7.05466e-19	1.000000
rad47	7.54411e-20	1.000000	7.54411e-20	1.000000
rad8	1.10311e-23	1.000000	1.10311e-23	1.000000

100000.000 Pa, 500.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.52837e-13 (1.00)	2.52837e-13 (1.00)
Formation of rad19	2.47941e-13 (0.981)	2.47941e-13 (0.981)
H-abstraction to cyc2enyl	4.69058e-15 (0.0186)	4.69058e-15 (0.0186)
H-abstraction to cyclenyl	2.05381e-16 (0.000812)	2.05381e-16 (0.000812)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.902052	0.902052	0.902052	0.902052
Indene+H	0.0749465	0.976998	0.0749465	0.976998
Benzene+cycloprop-2-enylidene	0.0185518	0.995550	0.0185518	0.995550
rad15	0.00289039	0.998440	0.00289039	0.998440
Benzene+cycloprop-1-enylidene	0.000812306	0.999253	0.000812306	0.999253
PhCHCCH2+H	0.000529258	0.999782	0.000529258	0.999782
rad19anti	0.000140944	0.999923	0.000140944	0.999923

rad6	2.55942e-05	0.999948	2.55942e-05	0.999948
Ph+MeAc	1.13420e-05	0.999960	1.13420e-05	0.999960
C2H2+PhCH2	1.01422e-05	0.999970	1.01422e-05	0.999970
PhCCCH3+H	6.42714e-06	0.999976	6.42714e-06	0.999976
rad67	4.20219e-06	0.999981	4.20219e-06	0.999981
PhCCH+CH3	3.81107e-06	0.999984	3.81107e-06	0.999984
rad2	3.62595e-06	0.999988	3.62595e-06	0.999988
Ph+Allene	2.72506e-06	0.999991	2.72506e-06	0.999991
rad26	2.31644e-06	0.999993	2.31644e-06	0.999993
PhCH2CCH+H	1.65755e-06	0.999995	1.65755e-06	0.999995
rad35	1.55311e-06	0.999996	1.55311e-06	0.999996
rad23	9.38881e-07	0.999997	9.38881e-07	0.999997
rad45	6.44362e-07	0.999998	6.44362e-07	0.999998
rad10	6.18706e-07	0.999998	6.18706e-07	0.999998
rad1	4.42762e-07	0.999999	4.42762e-07	0.999999
PhcycC3H3_A+H	2.89211e-07	0.999999	2.89211e-07	0.999999
rad11	2.82306e-07	0.999999	2.82306e-07	0.999999
rad12	1.90287e-07	1.000000	1.90287e-07	1.000000
PhcycC3H3_B+H	1.34313e-07	1.000000	1.34313e-07	1.000000
rad37	1.14731e-07	1.000000	1.14731e-07	1.000000
rad22	1.05854e-07	1.000000	1.05854e-07	1.000000
PAH7+H	5.05201e-08	1.000000	5.05201e-08	1.000000
rad7	4.88700e-08	1.000000	4.88700e-08	1.000000
PAH10+CH3	4.29354e-08	1.000000	4.29354e-08	1.000000
rad3	4.24507e-08	1.000000	4.24507e-08	1.000000
rad30	4.09049e-08	1.000000	4.09049e-08	1.000000
rad28	3.76552e-08	1.000000	3.76552e-08	1.000000
rad36	3.01568e-08	1.000000	3.01568e-08	1.000000
rad4	2.45001e-08	1.000000	2.45001e-08	1.000000
PAH9+H	2.24703e-08	1.000000	2.24703e-08	1.000000
rad38	1.72873e-08	1.000000	1.72873e-08	1.000000
rad39	9.12716e-09	1.000000	9.12716e-09	1.000000
PAH3+H	8.36529e-09	1.000000	8.36529e-09	1.000000
Phenyl+cycC3H4	3.59351e-09	1.000000	0.000000	1.000000
rad5	2.89642e-09	1.000000	2.89642e-09	1.000000
rad46	2.69376e-09	1.000000	2.69376e-09	1.000000
rad18	2.51663e-09	1.000000	2.51663e-09	1.000000
rad60syn	1.56795e-09	1.000000	1.56795e-09	1.000000
rad19syn	1.47382e-09	1.000000	1.47382e-09	1.000000
rad50	1.33845e-09	1.000000	1.33845e-09	1.000000
rad59	1.00942e-09	1.000000	1.00942e-09	1.000000
rad60anti	9.18093e-10	1.000000	9.18093e-10	1.000000
rad20	4.65403e-10	1.000000	4.65403e-10	1.000000
rad43	4.14539e-10	1.000000	4.14539e-10	1.000000
rad13	4.06892e-10	1.000000	4.06892e-10	1.000000
rad21	3.63123e-10	1.000000	3.63123e-10	1.000000
rad54	3.47740e-10	1.000000	3.47740e-10	1.000000
PAH1+H	3.21840e-10	1.000000	3.21840e-10	1.000000
rad51	2.60116e-10	1.000000	2.60116e-10	1.000000
rad70	1.43883e-10	1.000000	1.43883e-10	1.000000
rad52	9.51384e-11	1.000000	9.51384e-11	1.000000
rad27	5.69933e-11	1.000000	5.69933e-11	1.000000
rad62	3.49451e-11	1.000000	3.49451e-11	1.000000
rad58	3.00927e-11	1.000000	3.00927e-11	1.000000
rad14	2.97156e-11	1.000000	2.97156e-11	1.000000
rad34	2.44648e-11	1.000000	2.44648e-11	1.000000
rad55	2.01698e-11	1.000000	2.01698e-11	1.000000
rad25	1.83922e-11	1.000000	1.83922e-11	1.000000
rad61	1.31281e-11	1.000000	1.31281e-11	1.000000
rad41	9.70208e-12	1.000000	9.70208e-12	1.000000
rad65	7.29989e-12	1.000000	7.29989e-12	1.000000
rad71	2.78499e-12	1.000000	2.78499e-12	1.000000
rad73	2.54784e-12	1.000000	2.54784e-12	1.000000
rad53	2.21884e-12	1.000000	2.21884e-12	1.000000
rad56	1.44721e-12	1.000000	1.44721e-12	1.000000
PAH8+H	1.14126e-12	1.000000	1.14126e-12	1.000000
rad33	1.08862e-12	1.000000	1.08862e-12	1.000000
rad42	1.02221e-12	1.000000	1.02221e-12	1.000000
rad64	8.78872e-13	1.000000	8.78872e-13	1.000000
rad31	6.24993e-13	1.000000	6.24993e-13	1.000000
rad68syn	5.05392e-13	1.000000	5.05392e-13	1.000000
rad68anti	3.34447e-13	1.000000	3.34447e-13	1.000000
rad40syn	2.63801e-13	1.000000	2.63801e-13	1.000000
rad40anti	2.06327e-13	1.000000	2.06327e-13	1.000000
rad24	1.03463e-13	1.000000	1.03463e-13	1.000000
rad72	5.76732e-14	1.000000	5.76732e-14	1.000000
rad47	7.94672e-16	1.000000	7.94672e-16	1.000000
rad8	1.53133e-20	1.000000	1.53133e-20	1.000000

100000.000 Pa, 600.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.35570e-13 (1.00)	4.35570e-13 (1.00)
Formation of rad19	4.18892e-13 (0.962)	4.18892e-13 (0.962)
H-abstraction to cyc2enyl	1.54751e-14 (0.0355)	1.54751e-14 (0.0355)
H-abstraction to cyclenyl	1.20343e-15 (0.00276)	1.20343e-15 (0.00276)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.707317	0.707317	0.707317	0.707317
Indene+H	0.243216	0.950533	0.243216	0.950533
Benzene+cycloprop-2-enylidene	0.0355285	0.986061	0.0355285	0.986061
PhCHCCH2+H	0.00762333	0.993684	0.00762333	0.993684
Benzene+cycloprop-1-enylidene	0.00276289	0.996447	0.00276289	0.996447
rad15	0.00219285	0.998640	0.00219285	0.998640
Ph+MeAc	0.000224942	0.998865	0.000224942	0.998865
rad6	0.000208899	0.999074	0.000208899	0.999074
C2H2+PhCH2	0.000202946	0.999277	0.000202946	0.999277
rad19anti	0.000159533	0.999436	0.000159533	0.999436
Ph+Allene	0.000122954	0.999559	0.000122954	0.999559
PhCCCH3+H	0.000107936	0.999667	0.000107936	0.999667
rad67	7.92463e-05	0.999747	7.92463e-05	0.999747
PhCH2CCH+H	7.51780e-05	0.999822	7.51781e-05	0.999822
PhCCH+CH3	6.08370e-05	0.999883	6.08370e-05	0.999883
rad35	2.87798e-05	0.999911	2.87798e-05	0.999911
PhcycC3H3_A+H	1.86350e-05	0.999930	1.86350e-05	0.999930
PhcycC3H3_B+H	1.74541e-05	0.999948	1.74542e-05	0.999948
rad2	1.07155e-05	0.999958	1.07155e-05	0.999958
rad26	9.52980e-06	0.999968	9.52980e-06	0.999968
rad45	4.82995e-06	0.999973	4.82995e-06	0.999973
rad23	4.72734e-06	0.999977	4.72734e-06	0.999977
rad37	4.30323e-06	0.999982	4.30323e-06	0.999982
PAH10+CH3	3.32079e-06	0.999985	3.32079e-06	0.999985
PAH7+H	3.18002e-06	0.999988	3.18002e-06	0.999988
rad1	1.61165e-06	0.999990	1.61165e-06	0.999990
rad10	1.50878e-06	0.999991	1.50878e-06	0.999991
PAH9+H	1.50572e-06	0.999993	1.50572e-06	0.999993
rad38	1.11542e-06	0.999994	1.11542e-06	0.999994
rad30	9.39151e-07	0.999995	9.39151e-07	0.999995
rad12	6.21410e-07	0.999995	6.21410e-07	0.999995
rad39	5.90009e-07	0.999996	5.90009e-07	0.999996
PAH3+H	5.39733e-07	0.999997	5.39733e-07	0.999997
rad28	5.15146e-07	0.999997	5.15146e-07	0.999997
rad11	5.14898e-07	0.999998	5.14899e-07	0.999998
rad7	3.94377e-07	0.999998	3.94377e-07	0.999998
rad36	2.87380e-07	0.999998	2.87380e-07	0.999998
rad46	2.26210e-07	0.999998	2.26210e-07	0.999998
rad50	1.94323e-07	0.999999	1.94323e-07	0.999999
rad19syn	1.52861e-07	0.999999	1.52861e-07	0.999999
rad22	1.43795e-07	0.999999	1.43795e-07	0.999999
rad3	1.16515e-07	0.999999	1.16515e-07	0.999999
rad4	7.22948e-08	0.999999	7.22948e-08	0.999999
rad60syn	6.13591e-08	0.999999	6.13591e-08	0.999999
rad59	5.71126e-08	0.999999	5.71126e-08	0.999999
rad51	5.47824e-08	0.999999	5.47824e-08	0.999999
PAH1+H	4.30878e-08	0.999999	4.30878e-08	0.999999
Phenyl+cycC3H4	4.28057e-08	0.999999	0.00000	0.999999
rad60anti	3.72444e-08	0.999999	3.72444e-08	0.999999
rad54	3.64545e-08	0.999999	3.64545e-08	0.999999
rad43	1.95612e-08	1.000000	1.95612e-08	0.999999
rad52	1.65633e-08	1.000000	1.65633e-08	0.999999
rad70	1.30040e-08	1.000000	1.30040e-08	0.999999
rad5	3.89659e-09	1.000000	3.89659e-09	1.000000
rad58	3.84154e-09	1.000000	3.84154e-09	1.000000
rad13	3.46684e-09	1.000000	3.46684e-09	1.000000
rad34	2.80858e-09	1.000000	2.80858e-09	1.000000
rad61	2.79366e-09	1.000000	2.79366e-09	1.000000
rad18	2.62082e-09	1.000000	2.62082e-09	1.000000
rad55	2.38602e-09	1.000000	2.38602e-09	1.000000
rad71	1.63699e-09	1.000000	1.63699e-09	1.000000
rad65	1.48546e-09	1.000000	1.48546e-09	1.000000
rad62	1.47843e-09	1.000000	1.47843e-09	1.000000
rad73	1.21642e-09	1.000000	1.21642e-09	1.000000
rad41	8.83996e-10	1.000000	8.83996e-10	1.000000
rad20	8.82448e-10	1.000000	8.82447e-10	1.000000
rad21	7.31051e-10	1.000000	7.31051e-10	1.000000
PAH8+H	5.58695e-10	1.000000	5.58695e-10	1.000000
rad53	4.35249e-10	1.000000	4.35249e-10	1.000000
rad56	3.80609e-10	1.000000	3.80610e-10	1.000000

rad64	1.82122e-10	1.000000	1.82122e-10	1.000000
rad68syn	1.36303e-10	1.000000	1.36303e-10	1.000000
rad27	1.14277e-10	1.000000	1.14277e-10	1.000000
rad40syn	9.39518e-11	1.000000	9.39518e-11	1.000000
rad68anti	8.91407e-11	1.000000	8.91407e-11	1.000000
rad42	7.46966e-11	1.000000	7.46966e-11	1.000000
rad40anti	7.42241e-11	1.000000	7.42241e-11	1.000000
rad14	5.79746e-11	1.000000	5.79746e-11	1.000000
rad31	5.26340e-11	1.000000	5.26340e-11	1.000000
rad72	5.10458e-11	1.000000	5.10458e-11	1.000000
rad25	3.52466e-11	1.000000	3.52466e-11	1.000000
rad33	1.27555e-11	1.000000	1.27555e-11	1.000000
rad47	2.62183e-12	1.000000	2.62183e-12	1.000000
rad24	1.67260e-12	1.000000	1.67260e-12	1.000000
rad8	7.45264e-18	1.000000	7.45264e-18	1.000000

100000.000 Pa, 700.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.91694e-13 (1.00)	6.91693e-13 (1.00)
Formation of rad19	6.47922e-13 (0.937)	6.47922e-13 (0.937)
H-abstraction to cyc2enyl	3.91858e-14 (0.0567)	3.91858e-14 (0.0567)
H-abstraction to cyclenyl	4.58543e-15 (0.00663)	4.58542e-15 (0.00663)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.469524	0.469524	0.469524	0.469524
rad9	0.417838	0.887362	0.417838	0.887362
Benzene+cycloprop-2-enylidene	0.0566520	0.944014	0.0566520	0.944014
PhCHCCH2+H	0.0413165	0.985331	0.0413165	0.985331
Benzene+cycloprop-1-enylidene	0.00662927	0.991960	0.00662927	0.991960
Ph+MeAc	0.00135084	0.993311	0.00135084	0.993311
C2H2+PhCH2	0.00126079	0.994571	0.00126079	0.994571
Ph+Allene	0.00105914	0.995631	0.00105914	0.995631
rad15	0.000966656	0.996597	0.000966656	0.996597
PhCH2CCH+H	0.000667747	0.997265	0.000667747	0.997265
PhCCCH3+H	0.000585318	0.997850	0.000585318	0.997850
rad67	0.000491555	0.998342	0.000491555	0.998342
rad6	0.000470736	0.998813	0.000470736	0.998813
PhCCH+CH3	0.000344155	0.999157	0.000344155	0.999157
rad35	0.000177808	0.999335	0.000177808	0.999335
PhcycC3H3_B+H	0.000176896	0.999511	0.000176896	0.999512
PhcycC3H3_A+H	0.000165514	0.999677	0.000165514	0.999677
rad19anti	0.000106537	0.999784	0.000106537	0.999784
PAH10+CH3	3.62431e-05	0.999820	3.62431e-05	0.999820
rad37	3.25846e-05	0.999852	3.25846e-05	0.999852
PAH7+H	2.85102e-05	0.999881	2.85103e-05	0.999881
rad2	1.74276e-05	0.999898	1.74276e-05	0.999898
PAH9+H	1.46345e-05	0.999913	1.46345e-05	0.999913
rad45	1.32633e-05	0.999926	1.32633e-05	0.999926
rad26	1.16681e-05	0.999938	1.16681e-05	0.999938
rad23	1.12360e-05	0.999949	1.12360e-05	0.999949
rad38	1.08823e-05	0.999960	1.08823e-05	0.999960
rad30	6.56020e-06	0.999967	6.56020e-06	0.999967
PAH3+H	5.94809e-06	0.999973	5.94809e-06	0.999973
rad39	5.26101e-06	0.999978	5.26102e-06	0.999978
rad1	3.16043e-06	0.999981	3.16043e-06	0.999981
rad12	2.84728e-06	0.999984	2.84728e-06	0.999984
rad50	2.37186e-06	0.999986	2.37187e-06	0.999986
rad46	2.36760e-06	0.999989	2.36760e-06	0.999989
rad10	1.58209e-06	0.999990	1.58209e-06	0.999990
rad28	1.31265e-06	0.999991	1.31265e-06	0.999991
rad36	1.03210e-06	0.999992	1.03210e-06	0.999992
rad7	8.90073e-07	0.999993	8.90074e-07	0.999993
rad19syn	8.89060e-07	0.999994	8.89061e-07	0.999994
rad11	7.76526e-07	0.999995	7.76526e-07	0.999995
rad51	7.29396e-07	0.999996	7.29397e-07	0.999996
rad59	5.98738e-07	0.999996	5.98737e-07	0.999996
PAH1+H	5.60842e-07	0.999997	5.60842e-07	0.999997
rad60syn	5.55831e-07	0.999997	5.55831e-07	0.999997
Phenyl+cycC3H4	4.78675e-07	0.999998	0.00000	0.999997
rad54	4.22846e-07	0.999998	4.22846e-07	0.999998
rad60anti	3.42644e-07	0.999999	3.42644e-07	0.999998
rad52	2.10968e-07	0.999999	2.10968e-07	0.999998
rad43	1.86590e-07	0.999999	1.86590e-07	0.999999
rad22	1.63948e-07	0.999999	1.63948e-07	0.999999
rad70	1.52375e-07	0.999999	1.52375e-07	0.999999
rad3	1.48632e-07	1.000000	1.48632e-07	0.999999
rad4	1.01521e-07	1.000000	1.01521e-07	0.999999

rad58	5.11293e-08	1.000000	5.11293e-08	0.999999
rad61	4.04219e-08	1.000000	4.04219e-08	0.999999
rad34	3.54511e-08	1.000000	3.54511e-08	0.999999
rad55	2.90050e-08	1.000000	2.90050e-08	0.999999
rad71	2.66211e-08	1.000000	2.66211e-08	0.999999
rad65	1.95973e-08	1.000000	1.95973e-08	0.999999
rad73	1.90456e-08	1.000000	1.90456e-08	0.999999
rad62	1.33874e-08	1.000000	1.33874e-08	0.999999
rad41	1.07862e-08	1.000000	1.07862e-08	0.999999
rad13	9.93709e-09	1.000000	9.93709e-09	0.999999
PAH8+H	9.15246e-09	1.000000	9.15246e-09	0.999999
rad53	6.13316e-09	1.000000	6.13316e-09	0.999999
rad56	5.67089e-09	1.000000	5.67089e-09	0.999999
rad18	2.75869e-09	1.000000	2.75869e-09	0.999999
rad64	2.57043e-09	1.000000	2.57044e-09	0.999999
rad5	2.40737e-09	1.000000	2.40737e-09	0.999999
rad68syn	2.05385e-09	1.000000	2.05385e-09	0.999999
rad20	2.03381e-09	1.000000	2.03381e-09	0.999999
rad21	1.88514e-09	1.000000	1.88514e-09	0.999999
rad40syn	1.49301e-09	1.000000	1.49301e-09	0.999999
rad68anti	1.34087e-09	1.000000	1.34087e-09	0.999999
rad40anti	1.18589e-09	1.000000	1.18589e-09	0.999999
rad72	8.91073e-10	1.000000	8.91073e-10	0.999999
rad42	8.45189e-10	1.000000	8.45189e-10	0.999999
rad31	6.37091e-10	1.000000	6.37090e-10	0.999999
rad47	3.20596e-10	1.000000	3.20597e-10	0.999999
rad27	1.49811e-10	1.000000	1.49811e-10	0.999999
rad25	6.62124e-11	1.000000	6.62124e-11	0.999999
rad14	6.59217e-11	1.000000	6.59218e-11	0.999999
rad33	6.57290e-11	1.000000	6.57290e-11	0.999999
rad24	2.39650e-11	1.000000	2.39650e-11	0.999999
rad8	3.10692e-15	1.000000	3.10693e-15	0.999999

100000.000 Pa, 800.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.03759e-12 (1.00)	1.03758e-12 (1.00)
Formation of rad19	9.41065e-13 (0.907)	9.41062e-13 (0.907)
H-abstraction to cyc2enyl	8.32953e-14 (0.0803)	8.32953e-14 (0.0803)
H-abstraction to cyclenyl	1.32261e-14 (0.0127)	1.32261e-14 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.518200	0.518200	0.518201	0.518201
rad9	0.266962	0.785162	0.266963	0.785164
PhCHCCH2+H	0.103138	0.888300	0.103138	0.888301
Benzene+cycloprop-2-enylidene	0.0802780	0.968577	0.0802781	0.968579
Benzene+cycloprop-1-enylidene	0.0127470	0.981324	0.0127470	0.981326
Ph+MeAc	0.00354376	0.984868	0.00354377	0.984870
C2H2+PhCH2	0.00336045	0.988229	0.00336046	0.988231
Ph+Allene	0.00325812	0.991487	0.00325813	0.991489
PhCH2CCH+H	0.00224626	0.993733	0.00224626	0.993735
PhCCCH3+H	0.00141602	0.995149	0.00141602	0.995151
rad67	0.00134804	0.996497	0.00134804	0.996499
PhCCH+CH3	0.000883041	0.997380	0.000883043	0.997382
rad35	0.000487091	0.997867	0.000487092	0.997869
PhcycC3H3_B+H	0.000398604	0.998266	0.000398605	0.998268
rad6	0.000376188	0.998642	0.000376189	0.998644
PhcycC3H3_A+H	0.000369583	0.999012	0.000369584	0.999013
rad15	0.000322204	0.999334	0.000322205	0.999336
PAH10+CH3	0.000148313	0.999482	0.000148314	0.999484
rad37	9.52278e-05	0.999577	9.52278e-05	0.999579
PAH7+H	8.35537e-05	0.999661	8.35539e-05	0.999663
rad19anti	7.31249e-05	0.999734	7.31249e-05	0.999736
PAH9+H	4.70806e-05	0.999781	4.70808e-05	0.999783
rad38	3.65710e-05	0.999818	3.65710e-05	0.999820
PAH3+H	2.59766e-05	0.999844	2.59767e-05	0.999846
rad45	2.31953e-05	0.999867	2.31954e-05	0.999869
rad30	1.98260e-05	0.999887	1.98260e-05	0.999889
rad12	1.73205e-05	0.999904	1.73205e-05	0.999906
rad23	1.71471e-05	0.999921	1.71471e-05	0.999923
rad39	1.47319e-05	0.999936	1.47319e-05	0.999938
rad2	1.30724e-05	0.999949	1.30725e-05	0.999951
rad50	8.15294e-06	0.999957	8.15296e-06	0.999959
rad46	7.74100e-06	0.999965	7.74101e-06	0.999967
rad26	6.49293e-06	0.999971	6.49293e-06	0.999973
rad1	2.90837e-06	0.999974	2.90838e-06	0.999976
PAH1+H	2.63859e-06	0.999977	2.63859e-06	0.999979
rad51	2.56668e-06	0.999979	2.56668e-06	0.999981

rad59	2.50340e-06	0.999982	2.50340e-06	0.999984
rad36	2.26939e-06	0.999984	2.26939e-06	0.999986
Phenyl+cycC3H4	2.07710e-06	0.999986	0.00000	0.999986
rad60syn	2.06853e-06	0.999988	2.06854e-06	0.999988
rad54	1.61684e-06	0.999990	1.61684e-06	0.999990
rad19syn	1.44497e-06	0.999991	1.44497e-06	0.999991
rad60anti	1.29098e-06	0.999993	1.29099e-06	0.999993
rad28	1.08027e-06	0.999994	1.08027e-06	0.999994
rad10	9.30937e-07	0.999995	9.30937e-07	0.999995
rad7	7.47178e-07	0.999996	7.47179e-07	0.999995
rad52	7.33607e-07	0.999996	7.33608e-07	0.999996
rad43	7.07083e-07	0.999997	7.07084e-07	0.999997
rad70	6.58619e-07	0.999998	6.58621e-07	0.999997
rad11	6.38728e-07	0.999998	6.38730e-07	0.999998
rad58	2.61247e-07	0.999999	2.61247e-07	0.999998
rad61	2.19411e-07	0.999999	2.19411e-07	0.999998
rad34	1.64915e-07	0.999999	1.64916e-07	0.999999
rad22	1.53556e-07	0.999999	1.53556e-07	0.999999
rad55	1.17502e-07	0.999999	1.17503e-07	0.999999
rad3	9.93773e-08	0.999999	9.93772e-08	0.999999
rad71	9.78191e-08	0.999999	9.78191e-08	0.999999
rad4	7.47822e-08	0.999999	7.47823e-08	0.999999
rad65	6.98784e-08	1.000000	6.98786e-08	0.999999
rad73	6.94986e-08	1.000000	6.94987e-08	0.999999
PAH8+H	5.47852e-08	1.000000	5.47853e-08	0.999999
rad41	4.98696e-08	1.000000	4.98697e-08	0.999999
rad62	4.63415e-08	1.000000	4.63416e-08	0.999999
rad56	3.04228e-08	1.000000	3.04227e-08	1.000000
rad53	3.03219e-08	1.000000	3.03220e-08	1.000000
rad13	1.42768e-08	1.000000	1.42769e-08	1.000000
rad64	1.19495e-08	1.000000	1.19495e-08	1.000000
rad68syn	1.14358e-08	1.000000	1.14358e-08	1.000000
rad40syn	8.69330e-09	1.000000	8.69332e-09	1.000000
rad68anti	7.45256e-09	1.000000	7.45257e-09	1.000000
rad40anti	6.92587e-09	1.000000	6.92589e-09	1.000000
rad21	5.13414e-09	1.000000	5.13415e-09	1.000000
rad20	4.77404e-09	1.000000	4.77404e-09	1.000000
rad42	3.51271e-09	1.000000	3.51272e-09	1.000000
rad72	3.31313e-09	1.000000	3.31314e-09	1.000000
rad18	2.80167e-09	1.000000	2.80168e-09	1.000000
rad47	2.47656e-09	1.000000	2.47657e-09	1.000000
rad31	1.93231e-09	1.000000	1.93231e-09	1.000000
rad5	9.78009e-10	1.000000	9.78009e-10	1.000000
rad24	4.46534e-10	1.000000	4.46535e-10	1.000000
rad33	2.29275e-10	1.000000	2.29275e-10	1.000000
rad27	1.66933e-10	1.000000	1.66933e-10	1.000000
rad25	9.63933e-11	1.000000	9.63933e-11	1.000000
rad14	5.39822e-11	1.000000	5.39823e-11	1.000000
rad8	6.65841e-12	1.000000	6.65842e-12	1.000000

100000.000 Pa, 900.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.49199e-12 (1.00)	1.49198e-12 (1.00)
Formation of rad19	1.30395e-12 (0.874)	1.30394e-12 (0.874)
H-abstraction to cyc2enyl	1.56554e-13 (0.105)	1.56554e-13 (0.105)
H-abstraction to cyclenyl	3.14892e-14 (0.0211)	3.14890e-14 (0.0211)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.485180	0.485180	0.485183	0.485183
rad9	0.178145	0.663325	0.178146	0.663329
PhCHCCH2+H	0.177486	0.840810	0.177487	0.840817
Benzene+cycloprop-2-enylidene	0.104929	0.945740	0.104930	0.945747
Benzene+cycloprop-1-enylidene	0.0211054	0.966845	0.0211054	0.966852
Ph+MeAc	0.00626542	0.973111	0.00626546	0.973118
Ph+Allene	0.00606610	0.979177	0.00606614	0.979184
C2H2+PhCH2	0.00600809	0.985185	0.00600813	0.985192
PhCH2CCH+H	0.00463192	0.989817	0.00463195	0.989824
rad67	0.00246644	0.992283	0.00246646	0.992290
PhCCCH3+H	0.00234786	0.994631	0.00234788	0.994638
PhCCH+CH3	0.00158559	0.996217	0.00158561	0.996224
rad35	0.000892650	0.997109	0.000892659	0.997117
PhcycC3H3_B+H	0.000674337	0.997784	0.000674341	0.997791
PhcycC3H3_A+H	0.000616755	0.998400	0.000616759	0.998408
PAH10+CH3	0.000352879	0.998753	0.000352882	0.998761
rad6	0.000210829	0.998964	0.000210830	0.998971
rad37	0.000173359	0.999138	0.000173360	0.999145
PAH7+H	0.000150177	0.999288	0.000150178	0.999295

rad15	0.000130188	0.999418	0.000130189	0.999425
PAH9+H	9.73588e-05	0.999515	9.73588e-05	0.999522
rad38	7.66709e-05	0.999592	7.66714e-05	0.999599
PAH3+H	6.82076e-05	0.999660	6.82080e-05	0.999667
rad12	6.71115e-05	0.999727	6.71119e-05	0.999734
rad19anti	5.20698e-05	0.999779	5.20702e-05	0.999787
rad30	3.90110e-05	0.999818	3.90112e-05	0.999826
rad45	3.40772e-05	0.999852	3.40774e-05	0.999860
rad39	2.57658e-05	0.999878	2.57660e-05	0.999885
rad23	2.09393e-05	0.999899	2.09394e-05	0.999906
rad50	1.80188e-05	0.999917	1.80190e-05	0.999924
rad46	1.62400e-05	0.999933	1.62401e-05	0.999941
rad2	8.42150e-06	0.999942	8.42155e-06	0.999949
PAH1+H	7.13321e-06	0.999949	7.13325e-06	0.999956
rad59	6.32542e-06	0.999955	6.32547e-06	0.999962
Phenyl+cycC3H4	6.19965e-06	0.999961	0.00000	0.999962
rad51	5.83470e-06	0.999967	5.83474e-06	0.999968
rad60syn	4.77080e-06	0.999972	4.77083e-06	0.999973
rad36	3.47569e-06	0.999975	3.47571e-06	0.999977
rad54	3.42784e-06	0.999979	3.42786e-06	0.999980
rad26	3.08039e-06	0.999982	3.08041e-06	0.999983
rad60anti	3.00606e-06	0.999985	3.00609e-06	0.999986
rad1	2.28841e-06	0.999987	2.28842e-06	0.999988
rad70	1.66217e-06	0.999989	1.66218e-06	0.999990
rad52	1.64335e-06	0.999991	1.64337e-06	0.999992
rad43	1.62915e-06	0.999992	1.62916e-06	0.999993
rad19syn	1.51771e-06	0.999994	1.51772e-06	0.999995
rad58	7.89040e-07	0.999995	7.89045e-07	0.999996
rad61	6.75920e-07	0.999995	6.75925e-07	0.999996
rad28	6.07649e-07	0.999996	6.07653e-07	0.999997
rad10	5.25083e-07	0.999996	5.25087e-07	0.999997
rad7	4.74143e-07	0.999997	4.74146e-07	0.999998
rad11	4.66013e-07	0.999997	4.66016e-07	0.999998
rad34	4.45093e-07	0.999998	4.45096e-07	0.999999
rad55	2.62093e-07	0.999998	2.62094e-07	0.999999
rad71	2.36969e-07	0.999998	2.36970e-07	0.999999
PAH8+H	2.01163e-07	0.999998	2.01165e-07	0.999999
rad22	1.66804e-07	0.999999	1.66806e-07	1.000000
rad73	1.66462e-07	0.999999	1.66463e-07	1.000000
rad65	1.61719e-07	0.999999	1.61719e-07	1.000000
rad41	1.35151e-07	0.999999	1.35152e-07	1.000000
rad62	9.84303e-08	0.999999	9.84311e-08	1.000000
rad56	8.95657e-08	0.999999	8.95665e-08	1.000000
rad53	8.17982e-08	0.999999	8.17986e-08	1.000000
rad3	6.64303e-08	0.999999	6.64307e-08	1.000000
rad4	5.25846e-08	0.999999	5.25850e-08	1.000000
rad68syn	3.74020e-08	0.999999	3.74023e-08	1.000000
rad64	3.21990e-08	1.000000	3.21992e-08	1.000000
rad40syn	3.03016e-08	1.000000	3.03018e-08	1.000000
rad68anti	2.43164e-08	1.000000	2.43166e-08	1.000000
rad40anti	2.42607e-08	1.000000	2.42608e-08	1.000000
rad21	2.28943e-08	1.000000	2.28945e-08	1.000000
rad13	2.16422e-08	1.000000	2.16423e-08	1.000000
rad20	1.68441e-08	1.000000	1.68442e-08	1.000000
rad42	8.65478e-09	1.000000	8.65484e-09	1.000000
rad72	8.18662e-09	1.000000	8.18668e-09	1.000000
rad24	7.94082e-09	1.000000	7.94087e-09	1.000000
rad47	6.80266e-09	1.000000	6.80270e-09	1.000000
rad18	4.38636e-09	1.000000	4.38639e-09	1.000000
rad8	3.16513e-09	1.000000	3.16515e-09	1.000000
rad31	3.04634e-09	1.000000	3.04635e-09	1.000000
rad33	1.01001e-09	1.000000	1.01001e-09	1.000000
rad5	3.93120e-10	1.000000	3.93123e-10	1.000000
rad27	2.61663e-10	1.000000	2.61665e-10	1.000000
rad25	1.83469e-10	1.000000	1.83470e-10	1.000000
rad14	6.15656e-11	1.000000	6.15660e-11	1.000000

100000.000 Pa, 1000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.07591e-12 (1.00)	2.07587e-12 (1.00)
Formation of rad19	1.74189e-12 (0.839)	1.74185e-12 (0.839)
H-abstraction to cyc2enyl	2.68753e-13 (0.129)	2.68753e-13 (0.129)
H-abstraction to cyc1enyl	6.52627e-14 (0.0314)	6.52614e-14 (0.0314)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.453217	0.453217	0.453225	0.453225
PhCHCCH2+H	0.225733	0.678949	0.225737	0.678962

Benzene+cycloprop-2-enylidene	0.129463	0.808412	0.129465	0.808427
rad9	0.116965	0.925378	0.116968	0.925395
Benzene+cycloprop-1-enylidene	0.0314382	0.956816	0.0314381	0.956833
Ph+MeAc	0.00805945	0.964875	0.00805960	0.964892
Ph+Allene	0.00789537	0.972771	0.00789553	0.972788
C2H2+PhCH2	0.00777208	0.980543	0.00777223	0.980560
PhCH2CCH+H	0.00635116	0.986894	0.00635128	0.986911
rad67	0.00321967	0.990114	0.00321973	0.990131
PhCCCH3+H	0.00292517	0.993039	0.00292523	0.993056
PhCCH+CH3	0.00207426	0.995113	0.00207430	0.995131
rad35	0.00116705	0.996280	0.00116707	0.996298
PhcycC3H3_B+H	0.000915608	0.997196	0.000915622	0.997213
PhcycC3H3_A+H	0.000832781	0.998028	0.000832796	0.998046
PAH10+CH3	0.000512477	0.998541	0.000512487	0.998559
rad37	0.000222903	0.998764	0.000222908	0.998781
PAH7+H	0.000193925	0.998958	0.000193929	0.998975
rad12	0.000148922	0.999107	0.000148925	0.999124
rad6	0.000137259	0.999244	0.000137262	0.999262
PAH9+H	0.000136429	0.999380	0.000136432	0.999398
rad38	0.000107010	0.999487	0.000107012	0.999505
PAH3+H	0.000104225	0.999592	0.000104228	0.999609
rad15	7.92289e-05	0.999671	7.92303e-05	0.999688
rad30	5.26120e-05	0.999723	5.26129e-05	0.999741
rad45	3.97791e-05	0.999763	3.97799e-05	0.999781
rad19anti	3.82157e-05	0.999801	3.82165e-05	0.999819
rad39	3.32125e-05	0.999835	3.32130e-05	0.999852
rad50	2.64094e-05	0.999861	2.64099e-05	0.999879
rad46	2.30190e-05	0.999884	2.30194e-05	0.999902
rad23	2.14995e-05	0.999906	2.14999e-05	0.999923
Phenyl+cycC3H4	1.79691e-05	0.999924	0.00000	0.999923
PAH1+H	1.09849e-05	0.999934	1.09851e-05	0.999934
rad59	9.50674e-06	0.999944	9.50688e-06	0.999944
rad51	8.72117e-06	0.999953	8.72132e-06	0.999952
rad60syn	6.89881e-06	0.999960	6.89894e-06	0.999959
rad2	6.73623e-06	0.999966	6.73636e-06	0.999966
rad54	4.68977e-06	0.999971	4.68986e-06	0.999971
rad60anti	4.36474e-06	0.999975	4.36482e-06	0.999975
rad36	3.96576e-06	0.999979	3.96584e-06	0.999979
rad70	2.48862e-06	0.999982	2.48868e-06	0.999982
rad52	2.43097e-06	0.999984	2.43102e-06	0.999984
rad43	2.34855e-06	0.999987	2.34859e-06	0.999986
rad1	1.95934e-06	0.999989	1.95937e-06	0.999988
rad26	1.83977e-06	0.999990	1.83981e-06	0.999990
rad19syn	1.42468e-06	0.999992	1.42471e-06	0.999992
rad58	1.27728e-06	0.999993	1.27731e-06	0.999993
rad61	1.09547e-06	0.999994	1.09549e-06	0.999994
rad34	6.85956e-07	0.999995	6.85969e-07	0.999995
rad11	5.59206e-07	0.999995	5.59216e-07	0.999995
rad10	4.31642e-07	0.999996	4.31650e-07	0.999996
rad7	4.27886e-07	0.999996	4.27894e-07	0.999996
rad28	3.95889e-07	0.999997	3.95897e-07	0.999996
rad71	3.72690e-07	0.999997	3.72697e-07	0.999997
rad55	3.67148e-07	0.999997	3.67155e-07	0.999997
PAH8+H	3.53052e-07	0.999998	3.53059e-07	0.999998
rad22	3.06250e-07	0.999998	3.06256e-07	0.999998
rad73	2.59152e-07	0.999998	2.59157e-07	0.999998
rad65	2.43206e-07	0.999999	2.43210e-07	0.999998
rad41	2.08879e-07	0.999999	2.08882e-07	0.999999
rad21	1.75070e-07	0.999999	1.75073e-07	0.999999
rad8	1.59257e-07	0.999999	1.59260e-07	0.999999
rad56	1.42043e-07	0.999999	1.42046e-07	0.999999
rad62	1.37259e-07	0.999999	1.37262e-07	0.999999
rad53	1.24893e-07	1.000000	1.24896e-07	0.999999
rad20	8.89612e-08	1.000000	8.89627e-08	0.999999
rad24	6.44670e-08	1.000000	6.44682e-08	0.999999
rad68syn	6.24903e-08	1.000000	6.24915e-08	1.000000
rad13	5.45910e-08	1.000000	5.45920e-08	1.000000
rad3	5.26414e-08	1.000000	5.26425e-08	1.000000
rad40syn	5.20346e-08	1.000000	5.20356e-08	1.000000
rad64	4.98622e-08	1.000000	4.98631e-08	1.000000
rad40anti	4.17574e-08	1.000000	4.17582e-08	1.000000
rad4	4.15413e-08	1.000000	4.15421e-08	1.000000
rad68anti	4.05866e-08	1.000000	4.05873e-08	1.000000
rad18	1.51873e-08	1.000000	1.51876e-08	1.000000
rad72	1.31280e-08	1.000000	1.31283e-08	1.000000
rad42	1.28870e-08	1.000000	1.28872e-08	1.000000
rad47	1.03681e-08	1.000000	1.03683e-08	1.000000
rad33	6.04654e-09	1.000000	6.04665e-09	1.000000
rad31	3.50863e-09	1.000000	3.50870e-09	1.000000
rad25	7.57827e-10	1.000000	7.57841e-10	1.000000

rad27	7.30446e-10	1.00000	7.30459e-10	1.000000
rad5	2.18082e-10	1.00000	2.18085e-10	1.000000
rad14	1.19575e-10	1.00000	1.19577e-10	1.000000

100000.000 Pa, 1100.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.81236e-12 (1.00)	2.81222e-12 (1.00)
Formation of rad19	2.25993e-12 (0.804)	2.25979e-12 (0.804)
H-abstraction to cyc2enyl	4.30538e-13 (0.153)	4.30538e-13 (0.153)
H-abstraction to cyc1enyl	1.21896e-13 (0.0433)	1.21889e-13 (0.0433)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.427623	0.427623	0.427644	0.427644
PhCHCCH2+H	0.236969	0.664591	0.236981	0.664625
Benzene+cycloprop-2-enylidene	0.153088	0.817679	0.153096	0.817721
rad9	0.0930453	0.910724	0.0930501	0.910771
Benzene+cycloprop-1-enylidene	0.0433429	0.954067	0.0433425	0.954113
Ph+MeAc	0.00849260	0.962560	0.00849301	0.962606
Ph+Allene	0.00834057	0.970900	0.00834097	0.970947
C2H2+PhCH2	0.00820637	0.979107	0.00820678	0.979154
PhCH2CCH+H	0.00683550	0.985942	0.00683585	0.985990
rad67	0.00340892	0.989351	0.00340909	0.989399
PhCCCH3+H	0.00304709	0.992398	0.00304724	0.992446
PhCCH+CH3	0.00220460	0.994603	0.00220472	0.994651
rad35	0.00123658	0.995839	0.00123664	0.995888
PhcycC3H3_B+H	0.00103359	0.996873	0.00103364	0.996921
PhcycC3H3_A+H	0.000958056	0.997831	0.000958103	0.997879
PAH10+CH3	0.000562172	0.998393	0.000562200	0.998442
rad37	0.000234048	0.998627	0.000234060	0.998676
rad12	0.000222918	0.998850	0.000222930	0.998899
PAH7+H	0.000205026	0.999055	0.000205037	0.999104
PAH9+H	0.000148974	0.999204	0.000148982	0.999253
PAH3+H	0.000116675	0.999321	0.000116680	0.999369
rad38	0.000116321	0.999437	0.000116328	0.999486
rad6	0.000110430	0.999548	0.000110436	0.999596
rad15	8.44744e-05	0.999632	8.44785e-05	0.999681
rad30	5.63290e-05	0.999688	5.63319e-05	0.999737
Phenyl+cycC3H4	4.85315e-05	0.999737	0.000000	0.999737
rad45	3.90870e-05	0.999776	3.90890e-05	0.999776
rad39	3.52518e-05	0.999811	3.52535e-05	0.999811
rad50	2.94437e-05	0.999841	2.94452e-05	0.999841
rad19anti	2.84705e-05	0.999869	2.84720e-05	0.999869
rad46	2.52823e-05	0.999894	2.52836e-05	0.999894
rad23	1.96875e-05	0.999914	1.96885e-05	0.999914
PAH1+H	1.23264e-05	0.999926	1.23270e-05	0.999926
rad59	1.05775e-05	0.999937	1.05780e-05	0.999937
rad51	9.81190e-06	0.999947	9.81238e-06	0.999947
rad60syn	7.57046e-06	0.999954	7.57085e-06	0.999954
rad2	6.07559e-06	0.999961	6.07590e-06	0.999960
rad54	5.03276e-06	0.999966	5.03302e-06	0.999966
rad60anti	4.79667e-06	0.999970	4.79692e-06	0.999970
rad36	3.83123e-06	0.999974	3.83143e-06	0.999974
rad70	2.76315e-06	0.999977	2.76328e-06	0.999977
rad52	2.72184e-06	0.999980	2.72199e-06	0.999980
rad43	2.57226e-06	0.999982	2.57239e-06	0.999982
rad1	1.75666e-06	0.999984	1.75675e-06	0.999984
rad58	1.46038e-06	0.999985	1.46046e-06	0.999985
rad26	1.41429e-06	0.999987	1.41436e-06	0.999987
rad19syn	1.28411e-06	0.999988	1.28418e-06	0.999988
rad8	1.25774e-06	0.999989	1.25781e-06	0.999989
rad61	1.25158e-06	0.999991	1.25164e-06	0.999991
rad11	1.19207e-06	0.999992	1.19213e-06	0.999992
rad21	1.00524e-06	0.999993	1.00530e-06	0.999993
rad34	7.69765e-07	0.999994	7.69804e-07	0.999994
rad22	7.46174e-07	0.999994	7.46213e-07	0.999994
rad7	6.37086e-07	0.999995	6.37119e-07	0.999995
rad10	5.64864e-07	0.999996	5.64893e-07	0.999996
rad71	4.29802e-07	0.999996	4.29824e-07	0.999996
PAH8+H	4.16121e-07	0.999996	4.16142e-07	0.999996
rad55	3.97388e-07	0.999997	3.97409e-07	0.999997
rad20	3.49484e-07	0.999997	3.49501e-07	0.999997
rad28	3.17870e-07	0.999997	3.17886e-07	0.999997
rad73	2.97346e-07	0.999998	2.97361e-07	0.999998
rad65	2.73964e-07	0.999998	2.73978e-07	0.999998
rad41	2.34679e-07	0.999998	2.34691e-07	0.999998
rad13	1.89624e-07	0.999998	1.89633e-07	0.999998
rad24	1.78012e-07	0.999999	1.78022e-07	0.999999

rad56	1.60995e-07	0.999999	1.61003e-07	0.999999
rad62	1.48817e-07	0.999999	1.48825e-07	0.999999
rad53	1.39560e-07	0.999999	1.39567e-07	0.999999
rad68syn	7.22693e-08	0.999999	7.22730e-08	0.999999
rad18	6.21453e-08	0.999999	6.21485e-08	0.999999
rad40syn	6.08219e-08	0.999999	6.08251e-08	0.999999
rad64	5.62034e-08	0.999999	5.62063e-08	0.999999
rad40anti	4.88555e-08	0.999999	4.88580e-08	0.999999
rad68anti	4.69202e-08	0.999999	4.69226e-08	0.999999
rad3	4.60547e-08	1.000000	4.60570e-08	0.999999
rad4	3.59984e-08	1.000000	3.60002e-08	1.000000
rad33	2.54686e-08	1.000000	2.54699e-08	1.000000
rad72	1.52913e-08	1.000000	1.52921e-08	1.000000
rad42	1.43055e-08	1.000000	1.43062e-08	1.000000
rad47	1.12582e-08	1.000000	1.12587e-08	1.000000
rad25	4.63316e-09	1.000000	4.63340e-09	1.000000
rad31	3.43229e-09	1.000000	3.43246e-09	1.000000
rad27	2.93218e-09	1.000000	2.93233e-09	1.000000
rad14	3.14337e-10	1.000000	3.14353e-10	1.000000
rad5	1.80415e-10	1.000000	1.80425e-10	1.000000

10000.000 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.72623e-12 (1.00)	3.72576e-12 (1.00)
Formation of rad19	2.86288e-12 (0.768)	2.86244e-12 (0.768)
H-abstraction to cyc2enyl	6.53266e-13 (0.175)	6.53266e-13 (0.175)
H-abstraction to cyclenyl	2.10085e-13 (0.0564)	2.10053e-13 (0.0564)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.409794	0.409794	0.409846	0.409846
PhCHCCH2+H	0.231068	0.640861	0.231098	0.640944
Benzene+cycloprop-2-enylidene	0.175315	0.816177	0.175338	0.816281
rad9	0.0821617	0.898338	0.0821726	0.898454
Benzene+cycloprop-1-enylidene	0.0563801	0.954718	0.0563785	0.954833
Ph+MeAc	0.00828532	0.963004	0.00828640	0.963119
Ph+Allene	0.00814541	0.971149	0.00814642	0.971265
C2H2+PhCH2	0.00800689	0.979156	0.00800790	0.979273
PhCH2CCH+H	0.00668743	0.985843	0.00668829	0.985962
rad67	0.00332807	0.989172	0.00332849	0.989290
PhCCCH3+H	0.00296786	0.992139	0.00296824	0.992258
PhCCH+CH3	0.00215659	0.994296	0.00215686	0.994415
rad35	0.00120751	0.995504	0.00120767	0.995623
PhcycC3H3_B+H	0.00113112	0.996635	0.00113127	0.996754
PhcycC3H3_A+H	0.00108726	0.997722	0.00108740	0.997842
PAH10+CH3	0.000551529	0.998273	0.000551599	0.998393
rad12	0.000256803	0.998530	0.000256835	0.998650
rad37	0.000227891	0.998758	0.000227921	0.998878
PAH7+H	0.00020697	0.998959	0.00020723	0.999079
PAH9+H	0.000146715	0.999106	0.000146734	0.999225
rad15	0.000138457	0.999244	0.000138475	0.999364
Phenyl+cycC3H4	0.000118462	0.999362	0.000000	0.999364
PAH3+H	0.000115087	0.999478	0.000115102	0.999479
rad38	0.000114258	0.999592	0.000114273	0.999593
rad6	9.67772e-05	0.999689	9.67899e-05	0.999690
rad30	5.50716e-05	0.999744	5.50787e-05	0.999745
rad45	3.61316e-05	0.999780	3.61362e-05	0.999781
rad39	3.46170e-05	0.999814	3.46215e-05	0.999816
rad50	2.91991e-05	0.999844	2.92029e-05	0.999845
rad46	2.49522e-05	0.999869	2.49553e-05	0.999870
rad19anti	2.15071e-05	0.999890	2.15098e-05	0.999891
rad23	1.73329e-05	0.999907	1.73351e-05	0.999909
PAH1+H	1.21676e-05	0.999920	1.21691e-05	0.999921
rad59	1.04181e-05	0.999930	1.04193e-05	0.999931
rad51	9.76108e-06	0.999940	9.76235e-06	0.999941
rad60syn	7.43429e-06	0.999947	7.43524e-06	0.999949
rad2	5.64497e-06	0.999953	5.64568e-06	0.999954
rad54	4.93023e-06	0.999958	4.93085e-06	0.999959
rad60anti	4.71179e-06	0.999962	4.71239e-06	0.999964
rad36	3.51261e-06	0.999966	3.51306e-06	0.999967
rad8	3.33616e-06	0.999969	3.33659e-06	0.999971
rad11	3.25978e-06	0.999973	3.26020e-06	0.999974
rad70	2.71841e-06	0.999975	2.71876e-06	0.999977
rad52	2.70316e-06	0.999978	2.70351e-06	0.999979
rad21	2.70089e-06	0.999981	2.70123e-06	0.999982
rad43	2.52211e-06	0.999983	2.52244e-06	0.999985
rad1	1.61199e-06	0.999985	1.61219e-06	0.999986
rad58	1.44847e-06	0.999986	1.44866e-06	0.999988

rad26	1.36029e-06	0.999988	1.36046e-06	0.999989
rad7	1.28076e-06	0.999989	1.28092e-06	0.999990
rad22	1.27378e-06	0.999990	1.27395e-06	0.999992
rad61	1.24058e-06	0.999991	1.24074e-06	0.999993
rad19syn	1.13972e-06	0.999993	1.13986e-06	0.999994
rad10	1.07832e-06	0.999994	1.07846e-06	0.999995
rad34	7.59259e-07	0.999994	7.59356e-07	0.999996
rad20	7.31122e-07	0.999995	7.31214e-07	0.999997
rad13	5.38048e-07	0.999996	5.38117e-07	0.999997
rad71	4.31660e-07	0.999996	4.31715e-07	0.999998
PAH8+H	4.16450e-07	0.999997	4.16502e-07	0.999998
rad55	3.89845e-07	0.999997	3.89895e-07	0.999998
rad73	2.98024e-07	0.999997	2.98061e-07	0.999999
rad28	2.78487e-07	0.999997	2.78523e-07	0.999999
rad65	2.72471e-07	0.999998	2.72505e-07	0.999999
rad24	2.55752e-07	0.999998	2.55784e-07	0.999999
rad41	2.31471e-07	0.999998	2.31500e-07	1.000000
rad18	1.69172e-07	0.999998	1.69194e-07	1.000000
rad56	1.59559e-07	0.999999	1.59579e-07	1.000000
rad62	1.45937e-07	0.999999	1.45956e-07	1.000000
rad53	1.37825e-07	0.999999	1.37842e-07	1.000000
rad68syn	7.18856e-08	0.999999	7.18948e-08	1.000000
rad40syn	6.07004e-08	0.999999	6.07081e-08	1.000000
rad33	5.83858e-08	0.999999	5.83932e-08	1.000000
rad64	5.56670e-08	0.999999	5.56740e-08	1.000000
rad40anti	4.87727e-08	0.999999	4.87789e-08	1.000000
rad68anti	4.66656e-08	0.999999	4.66716e-08	1.000000
rad3	4.19441e-08	0.999999	4.19495e-08	1.000000
rad4	3.26314e-08	0.999999	3.26356e-08	1.000000
rad25	2.03634e-08	0.999999	2.03660e-08	1.000000
rad72	1.54202e-08	0.999999	1.54221e-08	1.000000
rad42	1.40949e-08	0.999999	1.40967e-08	1.000000
rad47	1.06350e-08	0.999999	1.06364e-08	1.000000
rad27	1.03638e-08	0.999999	1.03651e-08	1.000000
rad31	3.18783e-09	0.999999	3.18824e-09	1.000000
rad14	8.12298e-10	0.999999	8.12407e-10	1.000000
rad5	2.20825e-10	0.999999	2.20852e-10	1.000000

100000.000 Pa, 1300.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.84401e-12 (1.00)	4.84262e-12 (1.00)
Formation of rad19	3.55537e-12 (0.734)	3.55411e-12 (0.734)
H-abstraction to cyc2enyl	9.48893e-13 (0.196)	9.48893e-13 (0.196)
H-abstraction to cyclenyl	3.39740e-13 (0.0701)	3.39619e-13 (0.0701)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.396801	0.396801	0.396915	0.396915
PhCHCCH2+H	0.220497	0.617298	0.220560	0.617475
Benzene+cycloprop-2-enylidene	0.195890	0.813188	0.195946	0.813421
rad9	0.0727093	0.885897	0.0727301	0.886151
Benzene+cycloprop-1-enylidene	0.0701362	0.956033	0.0701313	0.956282
Ph+MeAc	0.00789792	0.963931	0.00790023	0.964183
Ph+Allene	0.00777667	0.971708	0.00777884	0.971961
C2H2+PhCH2	0.00762540	0.979333	0.00762758	0.979589
PhCH2CCH+H	0.00633480	0.985668	0.00633662	0.985926
rad67	0.00316998	0.988838	0.00317089	0.989096
PhCCCH3+H	0.00283867	0.991677	0.00283948	0.991936
PhCCH+CH3	0.00205229	0.993729	0.00205288	0.993989
PhcycC3H3_B+H	0.00132658	0.995055	0.00132696	0.995316
PhcycC3H3_A+H	0.00131911	0.996375	0.00131949	0.996635
rad35	0.00114996	0.997525	0.00115029	0.997786
PAH10+CH3	0.000519540	0.998044	0.000519688	0.998305
rad15	0.000279093	0.998323	0.000279172	0.998584
Phenyl+cycC3H4	0.000261305	0.998584	0.000000	0.998584
rad12	0.000260221	0.998845	0.000260296	0.998845
rad37	0.000217283	0.999062	0.000217345	0.999062
PAH7+H	0.000191831	0.999254	0.000191885	0.999254
PAH9+H	0.000138955	0.999393	0.000138995	0.999393
rad38	0.000108167	0.999501	0.000108198	0.999501
PAH3+H	0.000108039	0.999609	0.000108070	0.999609
rad6	8.94428e-05	0.999698	8.94681e-05	0.999699
rad30	5.22658e-05	0.999751	5.22807e-05	0.999751
rad39	3.31036e-05	0.999784	3.31130e-05	0.999784
rad45	3.30380e-05	0.999817	3.30474e-05	0.999817
rad50	2.75901e-05	0.999844	2.75980e-05	0.999845
rad46	2.36184e-05	0.999868	2.36251e-05	0.999868
rad19anti	1.64869e-05	0.999885	1.64916e-05	0.999885

rad23	1.56021e-05	0.999900	1.56066e-05	0.999900
PAH1+H	1.14221e-05	0.999912	1.14253e-05	0.999912
rad59	9.79180e-06	0.999921	9.79464e-06	0.999922
rad51	9.21702e-06	0.999931	9.21961e-06	0.999931
rad11	8.19188e-06	0.999939	8.19417e-06	0.999939
rad60syn	7.00967e-06	0.999946	7.01167e-06	0.999946
rad8	5.26363e-06	0.999951	5.26514e-06	0.999951
rad2	5.25314e-06	0.999956	5.25465e-06	0.999957
rad54	4.70672e-06	0.999961	4.70807e-06	0.999961
rad60anti	4.44110e-06	0.999965	4.44237e-06	0.999966
rad21	4.11595e-06	0.999970	4.11713e-06	0.999970
rad36	3.20006e-06	0.999973	3.20098e-06	0.999973
rad7	2.68655e-06	0.999975	2.68732e-06	0.999976
rad70	2.55354e-06	0.999978	2.55427e-06	0.999978
rad52	2.55330e-06	0.999981	2.55404e-06	0.999981
rad10	2.42612e-06	0.999983	2.42681e-06	0.999983
rad43	2.37476e-06	0.999985	2.37544e-06	0.999986
rad26	1.70209e-06	0.999987	1.70258e-06	0.999987
rad22	1.59055e-06	0.999989	1.59101e-06	0.999989
rad1	1.48934e-06	0.999990	1.48977e-06	0.999990
rad58	1.35486e-06	0.999991	1.35525e-06	0.999992
rad61	1.15979e-06	0.999993	1.16012e-06	0.999993
rad19syn	1.00720e-06	0.999994	1.00749e-06	0.999994
rad13	1.00132e-06	0.999995	1.00161e-06	0.999995
rad20	9.94938e-07	0.999996	9.95228e-07	0.999996
rad34	7.11721e-07	0.999996	7.11925e-07	0.999997
rad71	4.07554e-07	0.999997	4.07670e-07	0.999997
PAH8+H	3.88073e-07	0.999997	3.88184e-07	0.999997
rad55	3.71285e-07	0.999997	3.71391e-07	0.999998
rad18	3.61092e-07	0.999998	3.61196e-07	0.999998
rad73	2.81342e-07	0.999998	2.81422e-07	0.999999
rad24	2.79767e-07	0.999998	2.79847e-07	0.999999
rad28	2.59806e-07	0.999999	2.59880e-07	0.999999
rad65	2.57091e-07	0.999999	2.57165e-07	0.999999
rad41	2.16761e-07	0.999999	2.16823e-07	1.000000
rad56	1.50368e-07	0.999999	1.50411e-07	1.000000
rad62	1.38249e-07	0.999999	1.38289e-07	1.000000
rad53	1.30249e-07	1.000000	1.30287e-07	1.000000
rad33	8.47307e-08	1.000000	8.47548e-08	1.000000
rad68syn	6.70937e-08	1.000000	6.71129e-08	1.000000
rad40syn	5.65858e-08	1.000000	5.66021e-08	1.000000
rad64	5.24233e-08	1.000000	5.24384e-08	1.000000
rad25	4.90701e-08	1.000000	4.90842e-08	1.000000
rad40anti	4.54610e-08	1.000000	4.54740e-08	1.000000
rad68anti	4.35566e-08	1.000000	4.35690e-08	1.000000
rad3	3.82588e-08	1.000000	3.82698e-08	1.000000
rad4	2.96978e-08	1.000000	2.97063e-08	1.000000
rad27	2.25944e-08	1.000000	2.26008e-08	1.000000
rad72	1.45663e-08	1.000000	1.45705e-08	1.000000
rad42	1.32764e-08	1.000000	1.32803e-08	1.000000
rad47	9.50489e-09	1.000000	9.50760e-09	1.000000
rad31	2.93770e-09	1.000000	2.93854e-09	1.000000
rad14	1.61044e-09	1.000000	1.61090e-09	1.000000
rad5	4.11958e-10	1.000000	4.12076e-10	1.000000

100000.000 Pa, 1400.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.19360e-12 (1.00)	6.18996e-12 (1.00)
Formation of rad19	4.34185e-12 (0.701)	4.33860e-12 (0.701)
H-abstraction to cyc2enyl	1.32990e-12 (0.215)	1.32990e-12 (0.215)
H-abstraction to cyclenyl	5.21850e-13 (0.0843)	5.21460e-13 (0.0842)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.384173	0.384173	0.384398	0.384398
Benzene+cycloprop-2-enylidene	0.214721	0.598894	0.214847	0.599245
PhCHCCH2+H	0.210689	0.809583	0.210813	0.810058
Benzene+cycloprop-1-enylidene	0.0842564	0.893839	0.0842429	0.894301
rad9	0.0627707	0.956610	0.0628076	0.957108
Ph+MeAc	0.00753501	0.964145	0.00753948	0.964648
Ph+Allene	0.00743890	0.971584	0.00744324	0.972091
C2H2+PhCH2	0.00726469	0.978849	0.00726893	0.979360
PhCH2CCH+H	0.00598634	0.984835	0.00598986	0.985350
rad67	0.00302148	0.987856	0.00302325	0.988373
PhCCCH3+H	0.00272180	0.990578	0.00272340	0.991096
PhCCH+CH3	0.00194869	0.992527	0.00194984	0.993046
PhcycC3H3_A+H	0.00173732	0.994264	0.00173833	0.994785
PhcycC3H3_B+H	0.00173034	0.995995	0.00173136	0.996516

rad35	0.00109563	0.997090	0.00109628	0.997612
rad15	0.000537977	0.997628	0.000538293	0.998151
Phenyl+cycC3H4	0.000523975	0.998152	0.000000	0.998151
PAH10+CH3	0.000486782	0.998639	0.000487069	0.998638
rad12	0.000247119	0.998886	0.000247265	0.998885
rad37	0.000207736	0.999094	0.000207858	0.999093
PAH7+H	0.000183126	0.999277	0.000183233	0.999276
PAH9+H	0.000130524	0.999407	0.000130601	0.999407
rad38	0.000101793	0.999509	0.000101852	0.999508
PAH3+H	0.000100280	0.999610	0.000100339	0.999609
rad6	9.16299e-05	0.999701	9.16839e-05	0.999700
rad30	4.95424e-05	0.999751	4.95716e-05	0.999750
rad39	3.14952e-05	0.999782	3.15137e-05	0.999782
rad45	3.03867e-05	0.999813	3.04046e-05	0.999812
rad50	2.56707e-05	0.999838	2.56858e-05	0.999838
rad46	2.21211e-05	0.999860	2.21341e-05	0.999860
rad11	1.57954e-05	0.999876	1.58047e-05	0.999876
rad23	1.55930e-05	0.999892	1.56021e-05	0.999891
rad19anti	1.28244e-05	0.999905	1.28320e-05	0.999904
PAH1+H	1.06049e-05	0.999915	1.06112e-05	0.999915
rad59	9.11469e-06	0.999924	9.12010e-06	0.999924
rad51	8.54406e-06	0.999933	8.54907e-06	0.999932
rad60syn	6.56809e-06	0.999939	6.57195e-06	0.999939
rad8	6.46066e-06	0.999946	6.46445e-06	0.999945
rad10	4.98419e-06	0.999951	4.98712e-06	0.999950
rad2	4.82287e-06	0.999956	4.82571e-06	0.999955
rad7	4.82091e-06	0.999961	4.82375e-06	0.999960
rad21	4.77038e-06	0.999965	4.77318e-06	0.999965
rad54	4.51840e-06	0.999970	4.52105e-06	0.999969
rad60anti	4.15843e-06	0.999974	4.16087e-06	0.999973
rad36	2.93865e-06	0.999977	2.94037e-06	0.999976
rad26	2.71395e-06	0.999980	2.71554e-06	0.999979
rad70	2.37695e-06	0.999982	2.37835e-06	0.999981
rad52	2.37146e-06	0.999984	2.37285e-06	0.999984
rad43	2.22343e-06	0.999987	2.22474e-06	0.999986
rad22	1.84385e-06	0.999988	1.84493e-06	0.999988
rad1	1.36390e-06	0.999990	1.36469e-06	0.999989
rad13	1.31498e-06	0.999991	1.31576e-06	0.999991
rad58	1.24546e-06	0.999992	1.24620e-06	0.999992
rad20	1.10101e-06	0.999993	1.10166e-06	0.999993
rad61	1.06649e-06	0.999995	1.06712e-06	0.999994
rad19syn	8.90719e-07	0.999995	8.91242e-07	0.999995
rad18	7.38520e-07	0.999996	7.38955e-07	0.999996
rad34	6.59214e-07	0.999997	6.59602e-07	0.999996
rad71	3.74736e-07	0.999997	3.74956e-07	0.999997
rad55	3.55166e-07	0.999998	3.55375e-07	0.999997
PAH8+H	3.51952e-07	0.999998	3.52159e-07	0.999997
rad24	2.76448e-07	0.999998	2.76611e-07	0.999998
rad28	2.72158e-07	0.999998	2.72318e-07	0.999998
rad73	2.59068e-07	0.999999	2.59220e-07	0.999998
rad65	2.38202e-07	0.999999	2.38342e-07	0.999998
rad41	2.00457e-07	0.999999	2.00574e-07	0.999999
rad56	1.40896e-07	0.999999	1.40979e-07	0.999999
rad62	1.30666e-07	0.999999	1.30742e-07	0.999999
rad53	1.22838e-07	1.000000	1.22910e-07	0.999999
rad33	9.50285e-08	1.000000	9.50847e-08	0.999999
rad25	7.37370e-08	1.000000	7.37806e-08	0.999999
rad68syn	6.13233e-08	1.000000	6.13593e-08	0.999999
rad40syn	5.14701e-08	1.000000	5.15004e-08	0.999999
rad64	4.88519e-08	1.000000	4.88806e-08	0.999999
rad40anti	4.13308e-08	1.000000	4.13551e-08	0.999999
rad68anti	3.98167e-08	1.000000	3.98401e-08	0.999999
rad3	3.41792e-08	1.000000	3.41993e-08	0.999999
rad27	3.25211e-08	1.000000	3.25402e-08	0.999999
rad4	2.64761e-08	1.000000	2.64917e-08	1.000000
rad72	1.33595e-08	1.000000	1.33673e-08	1.000000
rad42	1.24142e-08	1.000000	1.24215e-08	1.000000
rad47	8.34707e-09	1.000000	8.35197e-09	1.000000
rad31	2.71742e-09	1.000000	2.71901e-09	1.000000
rad14	2.31462e-09	1.000000	2.31598e-09	1.000000
rad5	1.17099e-09	1.000000	1.17168e-09	1.000000

100000.000 Pa, 1500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.80417e-12 (1.00)	7.79561e-12 (1.00)
Formation of rad19	5.22661e-12 (0.670)	5.21915e-12 (0.669)
H-abstraction to cyc2enyl	1.80920e-12 (0.232)	1.80920e-12 (0.232)
H-abstraction to cyclenyl	7.68359e-13 (0.0985)	7.67261e-13 (0.0984)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.368964	0.368964	0.369369	0.369369
Benzene+cycloprop-2-enylidene	0.231825	0.600788	0.232080	0.601448
PhCHCCH2+H	0.203867	0.804655	0.204091	0.805540
Benzene+cycloprop-1-enylidene	0.0984549	0.903110	0.0984222	0.903962
rad9	0.0527170	0.955827	0.0527748	0.956737
Ph+MeAc	0.00728281	0.963110	0.00729084	0.964027
Ph+Allene	0.00721684	0.970327	0.00722476	0.971252
C2H2+PhCH2	0.00701251	0.977339	0.00702022	0.978272
PhCH2CCH+H	0.00574450	0.983084	0.00575081	0.984023
rad67	0.00291843	0.986002	0.00292164	0.986945
PhCCCH3+H	0.00264039	0.988643	0.00264329	0.989588
PhcycC3H3_B+H	0.00243778	0.991080	0.00244046	0.992029
PhcycC3H3_A+H	0.00240488	0.993485	0.00240752	0.994436
PhCCH+CH3	0.00187278	0.995358	0.00187484	0.996311
rad35	0.00105779	0.996416	0.00105895	0.997370
Phenyl+cycC3H4	0.000956588	0.997372	0.000000	0.997370
rad15	0.000836146	0.998209	0.000837060	0.998207
PAH10+CH3	0.000464058	0.998673	0.000464568	0.998672
rad12	0.000225619	0.998898	0.000225867	0.998897
rad37	0.000201342	0.999100	0.000201563	0.999099
PAH7+H	0.000176578	0.999276	0.000176772	0.999276
PAH9+H	0.000124084	0.999400	0.000124220	0.999400
rad6	0.000105296	0.999506	0.000105412	0.999505
rad38	9.70947e-05	0.999603	9.72011e-05	0.999603
PAH3+H	9.44560e-05	0.999697	9.45599e-05	0.999697
rad30	4.76488e-05	0.999745	4.77011e-05	0.999745
rad39	3.01550e-05	0.999775	3.01881e-05	0.999775
rad45	2.81776e-05	0.999803	2.82086e-05	0.999803
rad50	2.40720e-05	0.999827	2.40985e-05	0.999827
rad11	2.27769e-05	0.999850	2.28018e-05	0.999850
rad46	2.09365e-05	0.999871	2.09595e-05	0.999871
rad23	1.80001e-05	0.999889	1.80199e-05	0.999889
rad19anti	1.01161e-05	0.999899	1.01272e-05	0.999899
PAH1+H	1.00120e-05	0.999909	1.00230e-05	0.999909
rad59	8.61394e-06	0.999918	8.62341e-06	0.999918
rad10	8.14741e-06	0.999926	8.15636e-06	0.999926
rad51	7.96579e-06	0.999934	7.97453e-06	0.999934
rad8	6.98270e-06	0.999941	6.99037e-06	0.999941
rad7	6.89122e-06	0.999948	6.89878e-06	0.999948
rad60syn	6.25044e-06	0.999954	6.25730e-06	0.999954
rad26	4.91826e-06	0.999959	4.92367e-06	0.999959
rad21	4.90673e-06	0.999964	4.91212e-06	0.999964
rad54	4.43615e-06	0.999968	4.44102e-06	0.999968
rad2	4.33204e-06	0.999972	4.33680e-06	0.999973
rad60anti	3.95454e-06	0.999976	3.95888e-06	0.999977
rad36	2.72373e-06	0.999979	2.72672e-06	0.999980
rad70	2.24869e-06	0.999981	2.25116e-06	0.999982
rad52	2.21776e-06	0.999984	2.22020e-06	0.999984
rad22	2.15311e-06	0.999986	2.15548e-06	0.999986
rad43	2.11707e-06	0.999988	2.11939e-06	0.999988
rad13	1.37676e-06	0.999989	1.37827e-06	0.999990
rad1	1.22605e-06	0.999991	1.22739e-06	0.999991
rad18	1.21617e-06	0.999992	1.21750e-06	0.999992
rad58	1.15917e-06	0.999993	1.16045e-06	0.999993
rad20	1.10473e-06	0.999994	1.10594e-06	0.999994
rad61	9.95439e-07	0.999995	9.96535e-07	0.999995
rad19syn	7.90015e-07	0.999996	7.90885e-07	0.999996
rad34	6.20119e-07	0.999996	6.20800e-07	0.999997
rad55	3.48047e-07	0.999997	3.48429e-07	0.999997
rad71	3.44157e-07	0.999997	3.44535e-07	0.999997
rad28	3.28470e-07	0.999997	3.28831e-07	0.999998
PAH8+H	3.21456e-07	0.999998	3.21809e-07	0.999998
rad24	2.64560e-07	0.999998	2.64850e-07	0.999998
rad73	2.38649e-07	0.999998	2.38912e-07	0.999999
rad65	2.22194e-07	0.999998	2.22437e-07	0.999999
rad41	1.88264e-07	0.999999	1.88471e-07	0.999999
rad56	1.35805e-07	0.999999	1.35954e-07	0.999999
rad62	1.25635e-07	0.999999	1.25773e-07	0.999999
rad53	1.19120e-07	0.999999	1.19251e-07	0.999999
rad33	9.27542e-08	0.999999	9.28561e-08	0.999999
rad25	8.57771e-08	0.999999	8.58712e-08	1.000000
rad68syn	5.66923e-08	0.999999	5.67546e-08	1.000000
rad40syn	4.72384e-08	0.999999	4.72903e-08	1.000000
rad64	4.63483e-08	0.999999	4.63992e-08	1.000000
rad40anti	3.79035e-08	0.999999	3.79451e-08	1.000000
rad27	3.72083e-08	0.999999	3.72491e-08	1.000000
rad68anti	3.68182e-08	0.999999	3.68586e-08	1.000000

rad3	2.97156e-08	1.000000	2.97482e-08	1.000000
rad4	2.29514e-08	1.000000	2.29766e-08	1.000000
rad72	1.22000e-08	1.000000	1.22133e-08	1.000000
rad42	1.18214e-08	1.000000	1.18343e-08	1.000000
rad47	7.38916e-09	1.000000	7.39722e-09	1.000000
rad5	4.53601e-09	1.000000	4.54099e-09	1.000000
rad14	2.64916e-09	1.000000	2.65207e-09	1.000000
rad31	2.52438e-09	1.000000	2.52715e-09	1.000000

10000.0000 Pa, 20.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.24541e-22 (1.00)	1.24541e-22 (1.00)
Formation of rad19	1.24541e-22 (1.00)	1.24541e-22 (1.00)
H-abstraction to cyc2enyl	3.84323e-68 (3.09e-46)	3.84323e-68 (3.09e-46)
H-abstraction to cyclenyl	6.26313e-106 (5.03e-84)	6.26313e-106 (5.03e-84)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.995369	0.995369	0.995369	0.995369
rad15	0.00356154	0.998931	0.00356154	0.998931
Indene+H	0.00103985	0.999970	0.00103985	0.999970
rad19anti	2.90161e-05	0.999999	2.90161e-05	0.999999
PhCHCCH2+H	1.39772e-07	1.000000	1.39772e-07	1.000000
rad12	1.08312e-07	1.000000	1.08312e-07	1.000000
rad11	6.10263e-09	1.000000	6.10263e-09	1.000000
rad2	5.32798e-09	1.000000	5.32798e-09	1.000000
rad18	2.56488e-09	1.000000	2.56488e-09	1.000000
rad6	8.57210e-10	1.000000	8.57210e-10	1.000000
rad26	8.11312e-10	1.000000	8.11312e-10	1.000000
rad22	7.95533e-10	1.000000	7.95533e-10	1.000000
rad1	3.77686e-10	1.000000	3.77686e-10	1.000000
rad20	1.32543e-10	1.000000	1.32543e-10	1.000000
rad67	1.26224e-10	1.000000	1.26224e-10	1.000000
C2H2+PhCH2	1.19929e-10	1.000000	1.19929e-10	1.000000
rad45	1.17989e-10	1.000000	1.17989e-10	1.000000
rad21	9.14060e-11	1.000000	9.14060e-11	1.000000
rad35	5.77390e-11	1.000000	5.77390e-11	1.000000
rad7	5.41923e-11	1.000000	5.41923e-11	1.000000
rad10	2.24722e-11	1.000000	2.24722e-11	1.000000
rad23	1.69039e-11	1.000000	1.69039e-11	1.000000
rad36	7.45407e-12	1.000000	7.45407e-12	1.000000
rad3	5.87772e-12	1.000000	5.87772e-12	1.000000
rad4	3.10077e-12	1.000000	3.10077e-12	1.000000
PhCCCH3+H	1.46283e-12	1.000000	1.46283e-12	1.000000
rad5	8.95809e-13	1.000000	8.95809e-13	1.000000
Ph+MeAc	8.50286e-13	1.000000	8.50286e-13	1.000000
rad30	5.44174e-13	1.000000	5.44174e-13	1.000000
Ph+Allene	3.56595e-13	1.000000	3.56595e-13	1.000000
PhcycC3H3_A+H	2.80467e-13	1.000000	2.80467e-13	1.000000
rad25	2.44071e-13	1.000000	2.44071e-13	1.000000
PhCCH+CH3	1.21035e-13	1.000000	1.21035e-13	1.000000
rad27	9.05810e-14	1.000000	9.05810e-14	1.000000
PhCH2CCH+H	5.29275e-14	1.000000	5.29275e-14	1.000000
rad13	2.64036e-14	1.000000	2.64036e-14	1.000000
rad60syn	1.57235e-15	1.000000	1.57235e-15	1.000000
rad24	1.21189e-15	1.000000	1.21189e-15	1.000000
rad14	1.08753e-15	1.000000	1.08753e-15	1.000000
rad60anti	7.44636e-16	1.000000	7.44636e-16	1.000000
rad37	6.36307e-16	1.000000	6.36307e-16	1.000000
PAH3+H	4.37912e-16	1.000000	4.37912e-16	1.000000
rad28	3.58171e-16	1.000000	3.58171e-16	1.000000
rad59	9.47078e-17	1.000000	9.47078e-17	1.000000
PAH7+H	8.19403e-17	1.000000	8.19403e-17	1.000000
rad33	6.03905e-17	1.000000	6.03905e-17	1.000000
Phenyl+cycC3H4	2.78226e-17	1.000000	0.00000	1.000000
rad38	1.08783e-17	1.000000	1.08783e-17	1.000000
PAH9+H	7.30335e-19	1.000000	7.30335e-19	1.000000
rad46	5.15575e-19	1.000000	5.15575e-19	1.000000
PAH10+CH3	3.84892e-19	1.000000	3.84892e-19	1.000000
rad31	1.07719e-19	1.000000	1.07719e-19	1.000000
rad43	2.98232e-20	1.000000	2.98232e-20	1.000000
PhcycC3H3_B+H	4.76218e-21	1.000000	4.76218e-21	1.000000
rad58	2.31607e-21	1.000000	2.31607e-21	1.000000
rad50	1.81763e-21	1.000000	1.81763e-21	1.000000
rad70	1.60317e-21	1.000000	1.60317e-21	1.000000
rad39	6.78023e-22	1.000000	6.78023e-22	1.000000
rad62	7.12203e-23	1.000000	7.12203e-23	1.000000
rad54	1.94619e-23	1.000000	1.94619e-23	1.000000

rad34	1.05641e-23	1.000000	1.05641e-23	1.000000
PAH1+H	1.03516e-23	1.000000	1.03516e-23	1.000000
rad52	8.36341e-24	1.000000	8.36341e-24	1.000000
rad51	1.53721e-24	1.000000	1.53721e-24	1.000000
rad41	1.37809e-25	1.000000	1.37809e-25	1.000000
rad55	9.34795e-26	1.000000	9.34795e-26	1.000000
rad47	5.46237e-27	1.000000	5.46237e-27	1.000000
rad42	1.54389e-27	1.000000	1.54389e-27	1.000000
rad65	5.51728e-28	1.000000	5.51728e-28	1.000000
rad8	1.15682e-30	1.000000	1.15682e-30	1.000000
rad53	1.46520e-33	1.000000	1.46520e-33	1.000000
rad19syn	2.17008e-35	1.000000	2.17008e-35	1.000000
rad61	6.37384e-36	1.000000	6.37384e-36	1.000000
rad64	7.11343e-38	1.000000	7.11343e-38	1.000000
rad68syn	1.48116e-38	1.000000	1.48116e-38	1.000000
rad68anti	1.21236e-38	1.000000	1.21236e-38	1.000000
rad56	2.20995e-40	1.000000	2.20995e-40	1.000000
rad40syn	2.73707e-44	1.000000	2.73707e-44	1.000000
rad40anti	2.12428e-44	1.000000	2.12428e-44	1.000000
rad73	7.33564e-46	1.000000	7.33564e-46	1.000000
Benzene+cycloprop-2-enylidene	3.08591e-46	1.000000	3.08591e-46	1.000000
PAH8+H	3.98466e-47	1.000000	3.98466e-47	1.000000
rad71	1.59382e-51	1.000000	1.59382e-51	1.000000
Benzene+cycloprop-1-enylidene	5.02895e-84	1.000000	5.02895e-84	1.000000

10000.0000 Pa, 30.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.13009e-20 (1.00)	8.13009e-20 (1.00)
Formation of rad19	8.13009e-20 (1.00)	8.13009e-20 (1.00)
H-abstraction to cyc2enyl	1.08880e-49 (1.34e-30)	1.08880e-49 (1.34e-30)
H-abstraction to cyclenyl	7.55172e-75 (9.29e-56)	7.55172e-75 (9.29e-56)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.994003	0.994003	0.994003	0.994003
rad15	0.00335570	0.997359	0.00335570	0.997359
Indene+H	0.00264028	0.999999	0.00264028	0.999999
PhCHCCH2+H	3.08429e-07	0.999999	3.08429e-07	0.999999
rad19anti	2.05729e-07	0.999999	2.05729e-07	0.999999
rad12	5.94559e-08	1.000000	5.94559e-08	1.000000
rad2	1.17741e-08	1.000000	1.17741e-08	1.000000
rad11	1.16932e-08	1.000000	1.16932e-08	1.000000
rad6	3.53217e-09	1.000000	3.53217e-09	1.000000
rad22	2.59310e-09	1.000000	2.59310e-09	1.000000
rad18	2.28806e-09	1.000000	2.28806e-09	1.000000
rad26	1.80556e-09	1.000000	1.80556e-09	1.000000
rad1	7.98665e-10	1.000000	7.98665e-10	1.000000
C2H2+PhCH2	5.24630e-10	1.000000	5.24630e-10	1.000000
rad45	4.12219e-10	1.000000	4.12219e-10	1.000000
rad67	3.86873e-10	1.000000	3.86873e-10	1.000000
rad35	1.76107e-10	1.000000	1.76107e-10	1.000000
rad23	1.29516e-10	1.000000	1.29516e-10	1.000000
rad20	1.26800e-10	1.000000	1.26800e-10	1.000000
rad10	1.00229e-10	1.000000	1.00229e-10	1.000000
rad21	8.76970e-11	1.000000	8.76970e-11	1.000000
rad7	4.18141e-11	1.000000	4.18141e-11	1.000000
rad36	2.56662e-11	1.000000	2.56662e-11	1.000000
rad3	2.56097e-11	1.000000	2.56097e-11	1.000000
rad4	1.32888e-11	1.000000	1.32888e-11	1.000000
PhCCCH3+H	6.76935e-12	1.000000	6.76935e-12	1.000000
Ph+MeAc	3.96617e-12	1.000000	3.96617e-12	1.000000
rad30	2.24197e-12	1.000000	2.24197e-12	1.000000
rad5	1.85788e-12	1.000000	1.85788e-12	1.000000
Ph+Allene	1.57092e-12	1.000000	1.57092e-12	1.000000
PhCCH+CH3	1.03671e-12	1.000000	1.03671e-12	1.000000
rad25	5.40028e-13	1.000000	5.40028e-13	1.000000
PhcycC3H3_A+H	3.54252e-13	1.000000	3.54252e-13	1.000000
PhCH2CCH+H	2.36381e-13	1.000000	2.36381e-13	1.000000
rad27	1.92644e-13	1.000000	1.92644e-13	1.000000
rad13	7.69235e-14	1.000000	7.69235e-14	1.000000
rad14	7.48739e-15	1.000000	7.48739e-15	1.000000
rad60syn	7.00994e-15	1.000000	7.00994e-15	1.000000
rad60anti	3.33899e-15	1.000000	3.33899e-15	1.000000
rad37	3.01334e-15	1.000000	3.01334e-15	1.000000
rad28	2.36113e-15	1.000000	2.36113e-15	1.000000
PAH3+H	2.08549e-15	1.000000	2.08549e-15	1.000000
PAH7+H	5.22764e-16	1.000000	5.22764e-16	1.000000
rad59	4.47716e-16	1.000000	4.47716e-16	1.000000

rad24	3.52995e-16	1.000000	3.52995e-16	1.000000
rad33	1.44748e-16	1.000000	1.44748e-16	1.000000
rad38	8.67295e-17	1.000000	8.67295e-17	1.000000
Phenyl+cycC3H4	5.25975e-17	1.000000	0.000000	1.000000
PAH9+H	1.26733e-17	1.000000	1.26733e-17	1.000000
rad46	4.36065e-18	1.000000	4.36065e-18	1.000000
PAH10+CH3	1.89221e-18	1.000000	1.89221e-18	1.000000
rad31	2.20963e-19	1.000000	2.20963e-19	1.000000
rad43	2.07054e-19	1.000000	2.07054e-19	1.000000
rad50	1.57773e-20	1.000000	1.57773e-20	1.000000
rad58	1.26757e-20	1.000000	1.26757e-20	1.000000
rad70	1.15805e-20	1.000000	1.15805e-20	1.000000
rad39	8.52499e-21	1.000000	8.52499e-21	1.000000
PhcycC3H3_B+H	2.94881e-21	1.000000	2.94881e-21	1.000000
rad62	1.18841e-21	1.000000	1.18841e-21	1.000000
rad54	1.92835e-22	1.000000	1.92835e-22	1.000000
rad34	7.98269e-23	1.000000	7.98269e-23	1.000000
rad52	7.36482e-23	1.000000	7.36482e-23	1.000000
PAH1+H	5.33516e-23	1.000000	5.33516e-23	1.000000
rad51	1.37104e-23	1.000000	1.37104e-23	1.000000
rad41	1.08076e-24	1.000000	1.08076e-24	1.000000
rad55	9.51723e-25	1.000000	9.51723e-25	1.000000
rad42	2.76480e-26	1.000000	2.76480e-26	1.000000
rad47	2.20823e-26	1.000000	2.20823e-26	1.000000
rad65	1.04316e-26	1.000000	1.04316e-26	1.000000
Benzene+cycloprop-2-enylidene	1.33923e-30	1.000000	1.33923e-30	1.000000
rad53	1.57882e-32	1.000000	1.57882e-32	1.000000
rad61	3.53118e-35	1.000000	3.53118e-35	1.000000
rad8	1.34925e-35	1.000000	1.34925e-35	1.000000
rad19syn	1.05395e-35	1.000000	1.05395e-35	1.000000
rad64	1.00778e-36	1.000000	1.00778e-36	1.000000
rad68syn	8.57458e-38	1.000000	8.57458e-38	1.000000
rad68anti	7.02164e-38	1.000000	7.02164e-38	1.000000
rad56	2.26669e-39	1.000000	2.26669e-39	1.000000
rad40syn	1.82994e-43	1.000000	1.82994e-43	1.000000
rad40anti	1.42882e-43	1.000000	1.42882e-43	1.000000
rad73	5.82625e-45	1.000000	5.82625e-45	1.000000
PAH8+H	2.54511e-46	1.000000	2.54511e-46	1.000000
rad71	1.23220e-50	1.000000	1.23220e-50	1.000000
Benzene+cycloprop-1-enylidene	9.28861e-56	1.000000	9.28861e-56	1.000000

10000.0000 Pa, 40.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.24819e-18 (1.00)	2.24819e-18 (1.00)
Formation of rad19	2.24819e-18 (1.00)	2.24819e-18 (1.00)
H-abstraction to cyc2enyl	1.72361e-40 (7.67e-23)	1.72361e-40 (7.67e-23)
H-abstraction to cyclenyl	2.48792e-59 (1.11e-41)	2.48792e-59 (1.11e-41)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.992663	0.992663	0.992663	0.992663
Indene+H	0.00421703	0.996880	0.00421703	0.996880
rad15	0.00311893	0.999999	0.00311893	0.999999
PhCHCCH2+H	4.79008e-07	0.999999	4.79008e-07	0.999999
rad19anti	5.54634e-08	0.999999	5.54634e-08	0.999999
rad12	4.39227e-08	1.000000	4.39227e-08	1.000000
rad2	1.82576e-08	1.000000	1.82576e-08	1.000000
rad11	1.58646e-08	1.000000	1.58646e-08	1.000000
rad6	7.58710e-09	1.000000	7.58710e-09	1.000000
rad22	4.24765e-09	1.000000	4.24765e-09	1.000000
rad26	2.81418e-09	1.000000	2.81418e-09	1.000000
rad18	1.60312e-09	1.000000	1.60312e-09	1.000000
rad1	1.21718e-09	1.000000	1.21718e-09	1.000000
C2H2+PhCH2	1.06184e-09	1.000000	1.06184e-09	1.000000
rad45	7.29468e-10	1.000000	7.29468e-10	1.000000
rad67	6.84868e-10	1.000000	6.84868e-10	1.000000
rad23	3.59444e-10	1.000000	3.59444e-10	1.000000
rad35	3.10817e-10	1.000000	3.10817e-10	1.000000
rad10	2.29406e-10	1.000000	2.29406e-10	1.000000
rad20	8.93601e-11	1.000000	8.93601e-11	1.000000
rad21	6.17174e-11	1.000000	6.17174e-11	1.000000
rad3	5.71389e-11	1.000000	5.71389e-11	1.000000
rad36	4.51877e-11	1.000000	4.51877e-11	1.000000
rad7	3.50672e-11	1.000000	3.50672e-11	1.000000
rad4	2.94508e-11	1.000000	2.94508e-11	1.000000
PhCCCH3+H	1.60406e-11	1.000000	1.60406e-11	1.000000
Ph+MeAc	9.47181e-12	1.000000	9.47181e-12	1.000000
rad30	4.40178e-12	1.000000	4.40178e-12	1.000000

Ph+Allene	3.55255e-12	1.000000	3.55255e-12	1.000000
PhCCH+CH3	3.49542e-12	1.000000	3.49542e-12	1.000000
rad5	2.85764e-12	1.000000	2.85764e-12	1.000000
rad25	7.22317e-13	1.000000	7.22317e-13	1.000000
PhCH2CCH+H	5.40871e-13	1.000000	5.40871e-13	1.000000
PhcycC3H3_A+H	4.27043e-13	1.000000	4.27043e-13	1.000000
rad27	2.66552e-13	1.000000	2.66552e-13	1.000000
rad13	1.34495e-13	1.000000	1.34495e-13	1.000000
rad14	2.01922e-14	1.000000	2.01922e-14	1.000000
rad60syn	1.44595e-14	1.000000	1.44595e-14	1.000000
rad37	7.24745e-15	1.000000	7.24745e-15	1.000000
rad28	7.05882e-15	1.000000	7.05882e-15	1.000000
rad60anti	6.91311e-15	1.000000	6.91311e-15	1.000000
PAH3+H	4.49603e-15	1.000000	4.49603e-15	1.000000
PAH7+H	1.38164e-15	1.000000	1.38164e-15	1.000000
rad59	9.60193e-16	1.000000	9.60193e-16	1.000000
rad38	2.65754e-16	1.000000	2.65754e-16	1.000000
rad33	2.32346e-16	1.000000	2.32346e-16	1.000000
rad24	1.50983e-16	1.000000	1.50983e-16	1.000000
Phenyl+cycC3H4	1.15744e-16	1.000000	0.00000	1.000000
PAH9+H	5.82952e-17	1.000000	5.82952e-17	1.000000
rad46	1.37593e-17	1.000000	1.37593e-17	1.000000
PAH10+CH3	4.72827e-18	1.000000	4.72827e-18	1.000000
rad43	5.95404e-19	1.000000	5.95404e-19	1.000000
rad31	3.38787e-19	1.000000	3.38787e-19	1.000000
rad50	5.18010e-20	1.000000	5.18010e-20	1.000000
rad39	3.75222e-20	1.000000	3.75222e-20	1.000000
rad70	3.39279e-20	1.000000	3.39279e-20	1.000000
rad58	3.04631e-20	1.000000	3.04631e-20	1.000000
rad62	5.68157e-21	1.000000	5.68157e-21	1.000000
PhcycC3H3_B+H	4.08431e-21	1.000000	4.08431e-21	1.000000
rad54	7.03198e-22	1.000000	7.03198e-22	1.000000
rad52	2.47491e-22	1.000000	2.47491e-22	1.000000
rad34	2.46223e-22	1.000000	2.46223e-22	1.000000
PAH1+H	1.41654e-22	1.000000	1.41654e-22	1.000000
Benzene+cycloprop-2-enylidene	7.66665e-23	1.000000	7.66665e-23	1.000000
rad51	4.71572e-23	1.000000	4.71572e-23	1.000000
rad41	3.60534e-24	1.000000	3.60534e-24	1.000000
rad55	3.57128e-24	1.000000	3.57128e-24	1.000000
rad42	1.48034e-25	1.000000	1.48034e-25	1.000000
rad65	5.36261e-26	1.000000	5.36261e-26	1.000000
rad47	4.54366e-26	1.000000	4.54366e-26	1.000000
rad53	7.79651e-32	1.000000	7.79651e-32	1.000000
rad61	1.39834e-34	1.000000	1.39834e-34	1.000000
rad19syn	1.00469e-35	1.000000	1.00469e-35	1.000000
rad64	6.39220e-36	1.000000	6.39220e-36	1.000000
rad68syn	3.37796e-37	1.000000	3.37796e-37	1.000000
rad68anti	2.76547e-37	1.000000	2.76547e-37	1.000000
rad8	5.25172e-38	1.000000	5.25172e-38	1.000000
rad56	1.22937e-38	1.000000	1.22937e-38	1.000000
Benzene+cycloprop-1-enylidene	1.10663e-41	1.000000	1.10663e-41	1.000000
rad40syn	9.39758e-43	1.000000	9.39758e-43	1.000000
rad40anti	7.36900e-43	1.000000	7.36900e-43	1.000000
rad73	3.03137e-44	1.000000	3.03137e-44	1.000000
PAH8+H	1.33154e-45	1.000000	1.33154e-45	1.000000
rad71	7.03541e-50	1.000000	7.03541e-50	1.000000

10000.0000 Pa, 50.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.72707e-17 (1.00)	1.72707e-17 (1.00)
Formation of rad19	1.72707e-17 (1.00)	1.72707e-17 (1.00)
H-abstraction to cyc2enyl	5.49905e-35 (3.18e-18)	5.49905e-35 (3.18e-18)
H-abstraction to cyc1enyl	4.93090e-50 (2.86e-33)	4.93090e-50 (2.86e-33)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.991279	0.991279	0.991279	0.991279
Indene+H	0.00576702	0.997046	0.00576702	0.997046
rad15	0.00295345	0.999999	0.00295345	0.999999
PhCHCCH2+H	6.54982e-07	1.00000	6.54982e-07	1.00000
rad19anti	4.12947e-08	1.00000	4.12947e-08	1.00000
rad12	3.61408e-08	1.00000	3.61408e-08	1.00000
rad2	2.49149e-08	1.00000	2.49149e-08	1.00000
rad11	1.90493e-08	1.00000	1.90493e-08	1.00000
rad6	1.27915e-08	1.00000	1.27915e-08	1.00000
rad22	5.62442e-09	1.00000	5.62442e-09	1.00000
rad26	3.85801e-09	1.00000	3.85801e-09	1.00000
C2H2+PhCH2	1.67534e-09	1.00000	1.67534e-09	1.00000

rad1	1.64656e-09	1.00000	1.64656e-09	1.00000
rad18	1.14073e-09	1.00000	1.14073e-09	1.00000
rad45	1.04013e-09	1.00000	1.04013e-09	1.00000
rad67	1.00860e-09	1.00000	1.00860e-09	1.00000
rad23	6.97303e-10	1.00000	6.97303e-10	1.00000
rad35	4.56640e-10	1.00000	4.56640e-10	1.00000
rad10	4.09876e-10	1.00000	4.09876e-10	1.00000
rad3	9.95173e-11	1.00000	9.95173e-11	1.00000
rad36	6.42518e-11	1.00000	6.42518e-11	1.00000
rad20	6.40472e-11	1.00000	6.40472e-11	1.00000
rad4	5.11113e-11	1.00000	5.11113e-11	1.00000
rad21	4.41966e-11	1.00000	4.41966e-11	1.00000
rad7	3.22129e-11	1.00000	3.22129e-11	1.00000
PhCCCH3+H	2.96915e-11	1.00000	2.96915e-11	1.00000
Ph+MeAc	1.76797e-11	1.00000	1.76797e-11	1.00000
PhCCH+CH3	8.26049e-12	1.00000	8.26049e-12	1.00000
rad30	6.81976e-12	1.00000	6.81976e-12	1.00000
Ph+Allene	6.29220e-12	1.00000	6.29220e-12	1.00000
rad5	3.92385e-12	1.00000	3.92385e-12	1.00000
PhCH2CCH+H	9.69446e-13	1.00000	9.69446e-13	1.00000
rad25	8.32616e-13	1.00000	8.32616e-13	1.00000
PhcycC3H3_A+H	5.15990e-13	1.00000	5.15990e-13	1.00000
rad27	3.28274e-13	1.00000	3.28274e-13	1.00000
rad13	1.96654e-13	1.00000	1.96654e-13	1.00000
rad14	3.88425e-14	1.00000	3.88425e-14	1.00000
rad60syn	2.32308e-14	1.00000	2.32308e-14	1.00000
rad28	1.55066e-14	1.00000	1.55066e-14	1.00000
rad37	1.35991e-14	1.00000	1.35991e-14	1.00000
rad60anti	1.11382e-14	1.00000	1.11382e-14	1.00000
PAH3+H	7.47889e-15	1.00000	7.47889e-15	1.00000
PAH7+H	2.67813e-15	1.00000	2.67813e-15	1.00000
rad59	1.59037e-15	1.00000	1.59037e-15	1.00000
rad38	5.69098e-16	1.00000	5.69098e-16	1.00000
rad33	3.22543e-16	1.00000	3.22543e-16	1.00000
Phenyl+cycC3H4	2.36646e-16	1.00000	0.00000	1.00000
PAH9+H	1.63933e-16	1.00000	1.63933e-16	1.00000
rad24	1.02459e-16	1.00000	1.02459e-16	1.00000
rad46	3.00687e-17	1.00000	3.00687e-17	1.00000
PAH10+CH3	9.26151e-18	1.00000	9.26151e-18	1.00000
Benzene+cycloprop-2-enylidene	3.18404e-18	1.00000	3.18404e-18	1.00000
rad43	1.25879e-18	1.00000	1.25879e-18	1.00000
rad31	4.65586e-19	1.00000	4.65586e-19	1.00000
rad50	1.17912e-19	1.00000	1.17912e-19	1.00000
rad39	1.10091e-19	1.00000	1.10091e-19	1.00000
rad70	7.24293e-20	1.00000	7.24293e-20	1.00000
rad58	5.58099e-20	1.00000	5.58099e-20	1.00000
rad62	1.71771e-20	1.00000	1.71771e-20	1.00000
PhcycC3H3_B+H	9.53271e-21	1.00000	9.53271e-21	1.00000
rad54	1.77904e-21	1.00000	1.77904e-21	1.00000
rad52	5.77920e-22	1.00000	5.77920e-22	1.00000
rad34	5.55678e-22	1.00000	5.55678e-22	1.00000
PAH1+H	2.98076e-22	1.00000	2.98076e-22	1.00000
rad51	1.13141e-22	1.00000	1.13141e-22	1.00000
rad55	9.32739e-24	1.00000	9.32739e-24	1.00000
rad41	8.99220e-24	1.00000	8.99220e-24	1.00000
rad42	5.13490e-25	1.00000	5.13490e-25	1.00000
rad65	1.69822e-25	1.00000	1.69822e-25	1.00000
rad47	7.32945e-26	1.00000	7.32945e-26	1.00000
rad53	3.06663e-31	1.00000	3.06663e-31	1.00000
Benzene+cycloprop-1-enylidene	2.85507e-33	1.00000	2.85507e-33	1.00000
rad61	5.34896e-34	1.00000	5.34896e-34	1.00000
rad64	3.15348e-35	1.00000	3.15348e-35	1.00000
rad19syn	1.30002e-35	1.00000	1.30002e-35	1.00000
rad68syn	1.31462e-36	1.00000	1.31462e-36	1.00000
rad68anti	1.07553e-36	1.00000	1.07553e-36	1.00000
rad56	5.82370e-38	1.00000	5.82370e-38	1.00000
rad8	1.71119e-39	1.00000	1.71119e-39	1.00000
rad40syn	5.10067e-42	1.00000	5.10067e-42	1.00000
rad40anti	4.01252e-42	1.00000	4.01252e-42	1.00000
rad73	1.56557e-43	1.00000	1.56557e-43	1.00000
PAH8+H	7.68283e-45	1.00000	7.68283e-45	1.00000
rad71	4.25972e-49	1.00000	4.25972e-49	1.00000

10000.0000 Pa, 60.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.93738e-17 (1.00)	6.93738e-17 (1.00)
Formation of rad19	6.93738e-17 (1.000)	6.93738e-17 (1.000)
H-abstraction to cyc2enyl	2.50609e-31 (3.61e-15)	2.50609e-31 (3.61e-15)

H-abstraction to cyclenyl | 7.62015e-44 (1.10e-27) 7.62015e-44 (1.10e-27)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.989864	0.989864	0.989864	0.989864
Indene+H	0.00730292	0.997167	0.00730292	0.997167
rad15	0.00283195	0.999999	0.00283195	0.999999
PhCHCCH2+H	8.38553e-07	1.000000	8.38553e-07	1.000000
rad19anti	3.48872e-08	1.000000	3.48872e-08	1.000000
rad2	3.18316e-08	1.000000	3.18316e-08	1.000000
rad12	3.14078e-08	1.000000	3.14078e-08	1.000000
rad11	2.15034e-08	1.000000	2.15034e-08	1.000000
rad6	1.90182e-08	1.000000	1.90182e-08	1.000000
rad22	6.76137e-09	1.000000	6.76137e-09	1.000000
rad26	4.95049e-09	1.000000	4.95049e-09	1.000000
C2H2+PhCH2	2.35316e-09	1.000000	2.35316e-09	1.000000
rad1	2.09382e-09	1.000000	2.09382e-09	1.000000
rad67	1.35773e-09	1.000000	1.35773e-09	1.000000
rad45	1.34410e-09	1.000000	1.34410e-09	1.000000
rad23	1.13396e-09	1.000000	1.13396e-09	1.000000
rad18	8.49854e-10	1.000000	8.49854e-10	1.000000
rad10	6.43559e-10	1.000000	6.43559e-10	1.000000
rad35	6.13406e-10	1.000000	6.13406e-10	1.000000
rad3	1.52351e-10	1.000000	1.52351e-10	1.000000
rad36	8.28764e-11	1.000000	8.28764e-11	1.000000
rad4	7.80829e-11	1.000000	7.80829e-11	1.000000
rad20	4.85970e-11	1.000000	4.85970e-11	1.000000
PhCCCH3+H	4.83416e-11	1.000000	4.83416e-11	1.000000
rad21	3.35230e-11	1.000000	3.35230e-11	1.000000
rad7	3.23276e-11	1.000000	3.23276e-11	1.000000
Ph+MeAc	2.90402e-11	1.000000	2.90402e-11	1.000000
PhCCH+CH3	1.61931e-11	1.000000	1.61931e-11	1.000000
Ph+Allene	9.82257e-12	1.000000	9.82257e-12	1.000000
rad30	9.45529e-12	1.000000	9.45529e-12	1.000000
rad5	5.07508e-12	1.000000	5.07508e-12	1.000000
PhCH2CCH+H	1.53203e-12	1.000000	1.53203e-12	1.000000
rad25	8.99827e-13	1.000000	8.99827e-13	1.000000
PhcycC3H3_A+H	6.25892e-13	1.000000	6.25892e-13	1.000000
rad27	3.84976e-13	1.000000	3.84976e-13	1.000000
rad13	2.62596e-13	1.000000	2.62596e-13	1.000000
rad14	6.29893e-14	1.000000	6.29893e-14	1.000000
rad60syn	3.31708e-14	1.000000	3.31708e-14	1.000000
rad28	2.88801e-14	1.000000	2.88801e-14	1.000000
rad37	2.24402e-14	1.000000	2.24402e-14	1.000000
rad60anti	1.59417e-14	1.000000	1.59417e-14	1.000000
PAH3+H	1.10022e-14	1.000000	1.10022e-14	1.000000
PAH7+H	4.44619e-15	1.000000	4.44619e-15	1.000000
Benzene+cycloprop-2-enylidene	3.61245e-15	1.000000	3.61245e-15	1.000000
rad59	2.33066e-15	1.000000	2.33066e-15	1.000000
rad38	1.01638e-15	1.000000	1.01638e-15	1.000000
Phenyl+cycC3H4	4.45865e-16	1.000000	0.000000	1.000000
rad33	4.15408e-16	1.000000	4.15408e-16	1.000000
PAH9+H	3.58794e-16	1.000000	3.58794e-16	1.000000
rad24	9.12246e-17	1.000000	9.12246e-17	1.000000
rad46	5.45712e-17	1.000000	5.45712e-17	1.000000
PAH10+CH3	1.60154e-17	1.000000	1.60154e-17	1.000000
rad43	2.28314e-18	1.000000	2.28314e-18	1.000000
rad31	6.04145e-19	1.000000	6.04145e-19	1.000000
rad39	2.60273e-19	1.000000	2.60273e-19	1.000000
rad50	2.22662e-19	1.000000	2.22662e-19	1.000000
rad70	1.32018e-19	1.000000	1.32018e-19	1.000000
rad58	8.98571e-20	1.000000	8.98571e-20	1.000000
PhcycC3H3_B+H	4.22135e-20	1.000000	4.22135e-20	1.000000
rad62	4.10507e-20	1.000000	4.10507e-20	1.000000
rad54	3.72898e-21	1.000000	3.72898e-21	1.000000
rad52	1.12014e-21	1.000000	1.12014e-21	1.000000
rad34	1.07325e-21	1.000000	1.07325e-21	1.000000
PAH1+H	5.57931e-22	1.000000	5.57931e-22	1.000000
rad51	2.25662e-22	1.000000	2.25662e-22	1.000000
rad55	2.02358e-23	1.000000	2.02358e-23	1.000000
rad41	1.94226e-23	1.000000	1.94226e-23	1.000000
rad42	1.42793e-24	1.000000	1.42793e-24	1.000000
rad65	4.19861e-25	1.000000	4.19861e-25	1.000000
rad47	1.04696e-25	1.000000	1.04696e-25	1.000000
Benzene+cycloprop-1-enylidene	1.09842e-27	1.000000	1.09842e-27	1.000000
rad53	1.11117e-30	1.000000	1.11117e-30	1.000000
rad61	2.12699e-33	1.000000	2.12699e-33	1.000000
rad64	1.41349e-34	1.000000	1.41349e-34	1.000000
rad19syn	1.98236e-35	1.000000	1.98236e-35	1.000000
rad68syn	5.46246e-36	1.000000	5.46246e-36	1.000000

rad68anti	4.46478e-36	1.000000	4.46478e-36	1.000000
rad56	2.73816e-37	1.000000	2.73816e-37	1.000000
rad8	1.65372e-40	1.000000	1.65372e-40	1.000000
rad40syn	3.07540e-41	1.000000	3.07540e-41	1.000000
rad40anti	2.42566e-41	1.000000	2.42566e-41	1.000000
rad73	8.69947e-43	1.000000	8.69947e-43	1.000000
PAH8+H	5.07307e-44	1.000000	5.07307e-44	1.000000
rad71	2.89818e-48	1.000000	2.89818e-48	1.000000

10000.0000 Pa, 70.0000000 K

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Rate constant          | True (fraction)          Effective (fraction)
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Total                  | 1.91520e-16 (1.00   ) 1.91520e-16 (1.00   )
Formation of rad19    | 1.91520e-16 (1.000  ) 1.91520e-16 (1.000  )
H-abstraction to cyc2enyl | 1.01125e-28 (5.28e-13) 1.01125e-28 (5.28e-13)
H-abstraction to cyclenyl | 1.97822e-39 (1.03e-23) 1.97822e-39 (1.03e-23)

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species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.988426	0.988426	0.988426	0.988426
Indene+H	0.00883576	0.997262	0.00883576	0.997262
rad15	0.00273751	0.999999	0.00273751	0.999999
PhCHCCH2+H	1.03171e-06	1.00000	1.03171e-06	1.00000
rad2	3.90835e-08	1.00000	3.90835e-08	1.00000
rad19anti	3.07341e-08	1.00000	3.07341e-08	1.00000
rad12	2.81987e-08	1.00000	2.81987e-08	1.00000
rad6	2.62071e-08	1.00000	2.62071e-08	1.00000
rad11	2.33993e-08	1.00000	2.33993e-08	1.00000
rad22	7.70381e-09	1.00000	7.70381e-09	1.00000
rad26	6.10387e-09	1.00000	6.10387e-09	1.00000
C2H2+PhCH2	3.09646e-09	1.00000	3.09646e-09	1.00000
rad1	2.56469e-09	1.00000	2.56469e-09	1.00000
rad67	1.73499e-09	1.00000	1.73499e-09	1.00000
rad23	1.66406e-09	1.00000	1.66406e-09	1.00000
rad45	1.64507e-09	1.00000	1.64507e-09	1.00000
rad10	9.34090e-10	1.00000	9.34090e-10	1.00000
rad35	7.82290e-10	1.00000	7.82290e-10	1.00000
rad18	6.60999e-10	1.00000	6.60999e-10	1.00000
rad3	2.15634e-10	1.00000	2.15634e-10	1.00000
rad4	1.10378e-10	1.00000	1.10378e-10	1.00000
rad36	1.01304e-10	1.00000	1.01304e-10	1.00000
PhCCH3+H	7.28356e-11	1.00000	7.28356e-11	1.00000
Ph+MeAc	4.41631e-11	1.00000	4.41631e-11	1.00000
rad20	3.88195e-11	1.00000	3.88195e-11	1.00000
rad7	3.48912e-11	1.00000	3.48912e-11	1.00000
PhCCH+CH3	2.83250e-11	1.00000	2.83250e-11	1.00000
rad21	2.67730e-11	1.00000	2.67730e-11	1.00000
Ph+Allene	1.42122e-11	1.00000	1.42122e-11	1.00000
rad30	1.23147e-11	1.00000	1.23147e-11	1.00000
rad5	6.32954e-12	1.00000	6.32954e-12	1.00000
PhCH2CCH+H	2.24496e-12	1.00000	2.24496e-12	1.00000
rad25	9.40113e-13	1.00000	9.40113e-13	1.00000
PhcycC3H3_A+H	7.62517e-13	1.00000	7.62517e-13	1.00000
Benzene+cycloprop-2-enylidene	5.28015e-13	1.00000	5.28015e-13	1.00000
rad27	4.40030e-13	1.00000	4.40030e-13	1.00000
rad13	3.32186e-13	1.00000	3.32186e-13	1.00000
rad14	9.23402e-14	1.00000	9.23402e-14	1.00000
rad28	4.85759e-14	1.00000	4.85759e-14	1.00000
rad60syn	4.43226e-14	1.00000	4.43226e-14	1.00000
rad37	3.42733e-14	1.00000	3.42733e-14	1.00000
rad60anti	2.13462e-14	1.00000	2.13462e-14	1.00000
PAH3+H	1.51054e-14	1.00000	1.51054e-14	1.00000
PAH7+H	6.74079e-15	1.00000	6.74079e-15	1.00000
rad59	3.18841e-15	1.00000	3.18841e-15	1.00000
rad38	1.63141e-15	1.00000	1.63141e-15	1.00000
Phenyl+cycC3H4	7.87707e-16	1.00000	0.00000	1.00000
PAH9+H	6.76767e-16	1.00000	6.76767e-16	1.00000
rad33	5.11417e-16	1.00000	5.11417e-16	1.00000
rad24	9.10321e-17	1.00000	9.10321e-17	1.00000
rad46	8.88094e-17	1.00000	8.88094e-17	1.00000
PAH10+CH3	2.57280e-17	1.00000	2.57280e-17	1.00000
rad43	3.78832e-18	1.00000	3.78832e-18	1.00000
rad31	7.57189e-19	1.00000	7.57189e-19	1.00000
rad39	5.39118e-19	1.00000	5.39118e-19	1.00000
rad50	3.76756e-19	1.00000	3.76756e-19	1.00000
PhcycC3H3_B+H	3.17645e-19	1.00000	3.17645e-19	1.00000
rad70	2.19540e-19	1.00000	2.19540e-19	1.00000
rad58	1.34638e-19	1.00000	1.34638e-19	1.00000
rad62	8.53121e-20	1.00000	8.53121e-20	1.00000

rad54	6.98810e-21	1.00000	6.98810e-21	1.00000
rad52	1.94614e-21	1.00000	1.94614e-21	1.00000
rad34	1.89511e-21	1.00000	1.89511e-21	1.00000
PAH1+H	9.76488e-22	1.00000	9.76488e-22	1.00000
rad51	4.03919e-22	1.00000	4.03919e-22	1.00000
rad55	3.93470e-23	1.00000	3.93470e-23	1.00000
rad41	3.86447e-23	1.00000	3.86447e-23	1.00000
Benzene+cycloprop-1-enylidene	1.03290e-23	1.00000	1.03290e-23	1.00000
rad42	3.48803e-24	1.00000	3.48803e-24	1.00000
rad65	8.97492e-25	1.00000	8.97492e-25	1.00000
rad47	1.39479e-25	1.00000	1.39479e-25	1.00000
rad53	3.94784e-30	1.00000	3.94784e-30	1.00000
rad61	9.21829e-33	1.00000	9.21829e-33	1.00000
rad64	6.20086e-34	1.00000	6.20086e-34	1.00000
rad19syn	3.32731e-35	1.00000	3.32731e-35	1.00000
rad68syn	2.53406e-35	1.00000	2.53406e-35	1.00000
rad68anti	2.06890e-35	1.00000	2.06890e-35	1.00000
rad56	1.36900e-36	1.00000	1.36900e-36	1.00000
rad40syn	2.11623e-40	1.00000	2.11623e-40	1.00000
rad40anti	1.67300e-40	1.00000	1.67300e-40	1.00000
rad8	3.07510e-41	1.00000	3.07510e-41	1.00000
rad73	5.42855e-42	1.00000	5.42855e-42	1.00000
PAH8+H	3.91048e-43	1.00000	3.91048e-43	1.00000
rad71	2.28513e-47	1.00000	2.28513e-47	1.00000

10000.0000 Pa, 80.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.17084e-16 (1.00)	4.17084e-16 (1.00)
Formation of rad19	4.17084e-16 (1.000)	4.17084e-16 (1.000)
H-abstraction to cyc2enyl	8.98751e-27 (2.15e-11)	8.98751e-27 (2.15e-11)
H-abstraction to cyclenyl	4.00120e-36 (9.59e-21)	4.00120e-36 (9.59e-21)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.986963	0.986963	0.986963	0.986963
Indene+H	0.0103751	0.997338	0.0103751	0.997338
rad15	0.00266090	0.999999	0.00266090	0.999999
PhCHCCH2+H	1.23653e-06	1.00000	1.23653e-06	1.00000
rad2	4.67491e-08	1.00000	4.67491e-08	1.00000
rad6	3.43478e-08	1.00000	3.43478e-08	1.00000
rad19anti	2.77473e-08	1.00000	2.77473e-08	1.00000
rad12	2.58664e-08	1.00000	2.58664e-08	1.00000
rad11	2.48603e-08	1.00000	2.48603e-08	1.00000
rad22	8.48804e-09	1.00000	8.48804e-09	1.00000
rad26	7.33116e-09	1.00000	7.33116e-09	1.00000
C2H2+PhCH2	3.91180e-09	1.00000	3.91180e-09	1.00000
rad1	3.06495e-09	1.00000	3.06495e-09	1.00000
rad23	2.28586e-09	1.00000	2.28586e-09	1.00000
rad67	2.14467e-09	1.00000	2.14467e-09	1.00000
rad45	1.94703e-09	1.00000	1.94703e-09	1.00000
rad10	1.28684e-09	1.00000	1.28684e-09	1.00000
rad35	9.65145e-10	1.00000	9.65145e-10	1.00000
rad18	5.32542e-10	1.00000	5.32542e-10	1.00000
rad3	2.89689e-10	1.00000	2.89689e-10	1.00000
rad4	1.48178e-10	1.00000	1.48178e-10	1.00000
rad36	1.19793e-10	1.00000	1.19793e-10	1.00000
PhCCCH3+H	1.04297e-10	1.00000	1.04297e-10	1.00000
Ph+MeAc	6.38611e-11	1.00000	6.38611e-11	1.00000
PhCCH+CH3	4.59415e-11	1.00000	4.59415e-11	1.00000
rad7	3.95891e-11	1.00000	3.95891e-11	1.00000
rad20	3.22615e-11	1.00000	3.22615e-11	1.00000
rad21	2.22447e-11	1.00000	2.22447e-11	1.00000
Benzene+cycloprop-2-enylidene	2.15484e-11	1.00000	2.15484e-11	1.00000
Ph+Allene	1.95669e-11	1.00000	1.95669e-11	1.00000
rad30	1.54240e-11	1.00000	1.54240e-11	1.00000
rad5	7.70767e-12	1.00000	7.70767e-12	1.00000
PhCH2CCH+H	3.13175e-12	1.00000	3.13175e-12	1.00000
rad25	9.62791e-13	1.00000	9.62791e-13	1.00000
PhcycC3H3_A+H	9.33426e-13	1.00000	9.33426e-13	1.00000
rad27	4.95354e-13	1.00000	4.95354e-13	1.00000
rad13	4.05673e-13	1.00000	4.05673e-13	1.00000
rad14	1.26797e-13	1.00000	1.26797e-13	1.00000
rad28	7.63257e-14	1.00000	7.63257e-14	1.00000
rad60syn	5.68299e-14	1.00000	5.68299e-14	1.00000
rad37	4.97707e-14	1.00000	4.97707e-14	1.00000
rad60anti	2.74236e-14	1.00000	2.74236e-14	1.00000
PAH3+H	1.98731e-14	1.00000	1.98731e-14	1.00000
PAH7+H	9.64187e-15	1.00000	9.64187e-15	1.00000

rad59	4.18017e-15	1.00000	4.18017e-15	1.00000
rad38	2.44510e-15	1.00000	2.44510e-15	1.00000
Phenyl+cycC3H4	1.32414e-15	1.00000	0.00000	1.00000
PAH9+H	1.15911e-15	1.00000	1.15911e-15	1.00000
rad33	6.11324e-16	1.00000	6.11324e-16	1.00000
rad46	1.34777e-16	1.00000	1.34777e-16	1.00000
rad24	9.47964e-17	1.00000	9.47964e-17	1.00000
PAH10+CH3	3.94475e-17	1.00000	3.94475e-17	1.00000
rad43	5.94369e-18	1.00000	5.94369e-18	1.00000
PhcycC3H3_B+H	2.12907e-18	1.00000	2.12907e-18	1.00000
rad39	1.02338e-18	1.00000	1.02338e-18	1.00000
rad31	9.27804e-19	1.00000	9.27804e-19	1.00000
rad50	5.94432e-19	1.00000	5.94432e-19	1.00000
rad70	3.44669e-19	1.00000	3.44669e-19	1.00000
rad58	1.93193e-19	1.00000	1.93193e-19	1.00000
rad62	1.62048e-19	1.00000	1.62048e-19	1.00000
rad54	1.21872e-20	1.00000	1.21872e-20	1.00000
Benzene+cycloprop-1-enylidene	9.59328e-21	1.00000	9.59328e-21	1.00000
rad34	3.16577e-21	1.00000	3.16577e-21	1.00000
rad52	3.15483e-21	1.00000	3.15483e-21	1.00000
PAH1+H	1.64140e-21	1.00000	1.64140e-21	1.00000
rad51	6.75413e-22	1.00000	6.75413e-22	1.00000
rad41	7.31493e-23	1.00000	7.31493e-23	1.00000
rad55	7.13788e-23	1.00000	7.13788e-23	1.00000
rad42	7.85163e-24	1.00000	7.85163e-24	1.00000
rad65	1.74953e-24	1.00000	1.74953e-24	1.00000
rad47	1.77943e-25	1.00000	1.77943e-25	1.00000
rad53	1.40382e-29	1.00000	1.40382e-29	1.00000
rad61	4.58940e-32	1.00000	4.58940e-32	1.00000
rad64	2.76940e-33	1.00000	2.76940e-33	1.00000
rad68syn	1.38762e-34	1.00000	1.38762e-34	1.00000
rad68anti	1.13145e-34	1.00000	1.13145e-34	1.00000
rad19syn	5.95243e-35	1.00000	5.95243e-35	1.00000
rad56	7.76149e-36	1.00000	7.76149e-36	1.00000
rad40syn	1.73039e-39	1.00000	1.73039e-39	1.00000
rad40anti	1.37093e-39	1.00000	1.37093e-39	1.00000
rad73	4.00345e-41	1.00000	4.00345e-41	1.00000
rad8	8.81873e-42	1.00000	8.81873e-42	1.00000
PAH8+H	3.65615e-42	1.00000	3.65615e-42	1.00000
rad71	2.18917e-46	1.00000	2.18917e-46	1.00000

10000.0000 Pa, 90.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.74016e-16 (1.00)	7.74016e-16 (1.00)
Formation of rad19	7.74016e-16 (1.000)	7.74016e-16 (1.000)
H-abstraction to cyc2enyl	2.91736e-25 (3.77e-10)	2.91736e-25 (3.77e-10)
H-abstraction to cyclenyl	1.47814e-33 (1.91e-18)	1.47814e-33 (1.91e-18)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.985472	0.985472	0.985472	0.985472
Indene+H	0.0119296	0.997402	0.0119296	0.997402
rad15	0.00259674	0.999998	0.00259674	0.999998
PhCHCCH2+H	1.45528e-06	1.000000	1.45528e-06	1.000000
rad2	5.49117e-08	1.000000	5.49117e-08	1.000000
rad6	4.34681e-08	1.000000	4.34681e-08	1.000000
rad11	2.59765e-08	1.000000	2.59765e-08	1.000000
rad19anti	2.54804e-08	1.000000	2.54804e-08	1.000000
rad12	2.40878e-08	1.000000	2.40878e-08	1.000000
rad22	9.14178e-09	1.000000	9.14178e-09	1.000000
rad26	8.64647e-09	1.000000	8.64647e-09	1.000000
C2H2+PhCH2	4.80886e-09	1.000000	4.80886e-09	1.000000
rad1	3.60073e-09	1.000000	3.60073e-09	1.000000
rad23	3.00060e-09	1.000000	3.00060e-09	1.000000
rad67	2.59216e-09	1.000000	2.59216e-09	1.000000
rad45	2.25378e-09	1.000000	2.25378e-09	1.000000
rad10	1.70893e-09	1.000000	1.70893e-09	1.000000
rad35	1.16429e-09	1.000000	1.16429e-09	1.000000
rad18	4.41237e-10	1.000000	4.41237e-10	1.000000
Benzene+cycloprop-2-enylidene	3.76912e-10	1.000000	3.76912e-10	1.000000
rad3	3.75112e-10	1.000000	3.75112e-10	1.000000
rad4	1.91807e-10	1.000000	1.91807e-10	1.000000
PhCCCH3+H	1.44193e-10	1.000000	1.44193e-10	1.000000
rad36	1.38587e-10	1.000000	1.38587e-10	1.000000
Ph+MeAc	8.92048e-11	1.000000	8.92048e-11	1.000000
PhCCH+CH3	7.06792e-11	1.000000	7.06792e-11	1.000000
rad7	4.62326e-11	1.000000	4.62326e-11	1.000000
rad20	2.76105e-11	1.000000	2.76105e-11	1.000000

Ph+Allene	2.60318e-11	1.00000	2.60318e-11	1.00000
rad21	1.90310e-11	1.00000	1.90310e-11	1.00000
rad30	1.88207e-11	1.00000	1.88207e-11	1.00000
rad5	9.23242e-12	1.00000	9.23242e-12	1.00000
PhCH2CCH+H	4.22406e-12	1.00000	4.22406e-12	1.00000
PhcycC3H3_A+H	1.14840e-12	1.00000	1.14840e-12	1.00000
rad25	9.73487e-13	1.00000	9.73487e-13	1.00000
rad27	5.52245e-13	1.00000	5.52245e-13	1.00000
rad13	4.83534e-13	1.00000	4.83534e-13	1.00000
rad14	1.66435e-13	1.00000	1.66435e-13	1.00000
rad28	1.14327e-13	1.00000	1.14327e-13	1.00000
rad60syn	7.09058e-14	1.00000	7.09058e-14	1.00000
rad37	6.98223e-14	1.00000	6.98223e-14	1.00000
rad60anti	3.42809e-14	1.00000	3.42809e-14	1.00000
PAH3+H	2.54272e-14	1.00000	2.54272e-14	1.00000
PAH7+H	1.32583e-14	1.00000	1.32583e-14	1.00000
rad59	5.32989e-15	1.00000	5.32989e-15	1.00000
rad38	3.49785e-15	1.00000	3.49785e-15	1.00000
Phenyl+cycC3H4	2.14260e-15	1.00000	0.00000	1.00000
PAH9+H	1.85777e-15	1.00000	1.85777e-15	1.00000
rad33	7.16054e-16	1.00000	7.16054e-16	1.00000
rad46	1.95081e-16	1.00000	1.95081e-16	1.00000
rad24	1.00287e-16	1.00000	1.00287e-16	1.00000
PAH10+CH3	5.86676e-17	1.00000	5.86676e-17	1.00000
PhcycC3H3_B+H	1.05684e-17	1.00000	1.05684e-17	1.00000
rad43	8.98987e-18	1.00000	8.98987e-18	1.00000
Benzene+cycloprop-1-enylidene	1.90970e-18	1.00000	1.90970e-18	1.00000
rad39	1.82918e-18	1.00000	1.82918e-18	1.00000
rad31	1.11960e-18	1.00000	1.11960e-18	1.00000
rad50	8.95008e-19	1.00000	8.95008e-19	1.00000
rad70	5.21127e-19	1.00000	5.21127e-19	1.00000
rad62	2.89687e-19	1.00000	2.89687e-19	1.00000
rad58	2.69837e-19	1.00000	2.69837e-19	1.00000
rad54	2.02573e-20	1.00000	2.02573e-20	1.00000
rad34	5.10435e-21	1.00000	5.10435e-21	1.00000
rad52	4.88497e-21	1.00000	4.88497e-21	1.00000
PAH1+H	2.69332e-21	1.00000	2.69332e-21	1.00000
rad51	1.08034e-21	1.00000	1.08034e-21	1.00000
rad41	1.34272e-22	1.00000	1.34272e-22	1.00000
rad55	1.23739e-22	1.00000	1.23739e-22	1.00000
rad42	1.67543e-23	1.00000	1.67543e-23	1.00000
rad65	3.20930e-24	1.00000	3.20930e-24	1.00000
rad47	2.20684e-25	1.00000	2.20684e-25	1.00000
rad53	4.94997e-29	1.00000	4.94997e-29	1.00000
rad61	2.76760e-31	1.00000	2.76760e-31	1.00000
rad64	1.27125e-32	1.00000	1.27125e-32	1.00000
rad68syn	9.73076e-34	1.00000	9.73076e-34	1.00000
rad68anti	7.92136e-34	1.00000	7.92136e-34	1.00000
rad19syn	1.11926e-34	1.00000	1.11926e-34	1.00000
rad56	5.35202e-35	1.00000	5.35202e-35	1.00000
rad40syn	1.79589e-38	1.00000	1.79589e-38	1.00000
rad40anti	1.42567e-38	1.00000	1.42567e-38	1.00000
rad73	3.76249e-40	1.00000	3.76249e-40	1.00000
PAH8+H	4.44999e-41	1.00000	4.44999e-41	1.00000
rad8	3.43172e-42	1.00000	3.43172e-42	1.00000
rad71	2.77232e-45	1.00000	2.77232e-45	1.00000

10000.0000 Pa, 100.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.28255e-15 (1.00)	1.28255e-15 (1.00)
Formation of rad19	1.28255e-15 (1.000)	1.28255e-15 (1.000)
H-abstraction to cyc2enyl	4.68359e-24 (3.65e-09)	4.68359e-24 (3.65e-09)
H-abstraction to cyc1enyl	1.66242e-31 (1.30e-16)	1.66242e-31 (1.30e-16)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.983949	0.983949	0.983949	0.983949
Indene+H	0.0135071	0.997456	0.0135071	0.997456
rad15	0.00254170	0.999998	0.00254170	0.999998
PhCHCCH2+H	1.69044e-06	0.999999	1.69044e-06	0.999999
rad2	6.36623e-08	1.000000	6.36623e-08	1.000000
rad6	5.36289e-08	1.000000	5.36289e-08	1.000000
rad11	2.68152e-08	1.000000	2.68152e-08	1.000000
rad19anti	2.36974e-08	1.000000	2.36974e-08	1.000000
rad12	2.26832e-08	1.000000	2.26832e-08	1.000000
rad26	1.00655e-08	1.000000	1.00655e-08	1.000000
rad22	9.68634e-09	1.000000	9.68634e-09	1.000000
C2H2+PhCH2	5.80004e-09	1.000000	5.80004e-09	1.000000

rad1	4.17875e-09	1.000000	4.17875e-09	1.000000
rad23	3.81220e-09	1.000000	3.81220e-09	1.000000
Benzene+cycloprop-2-enylidene	3.65179e-09	1.000000	3.65179e-09	1.000000
rad67	3.08395e-09	1.000000	3.08395e-09	1.000000
rad45	2.56902e-09	1.000000	2.56902e-09	1.000000
rad10	2.20946e-09	1.000000	2.20946e-09	1.000000
rad35	1.38249e-09	1.000000	1.38249e-09	1.000000
rad3	4.72758e-10	1.000000	4.72758e-10	1.000000
rad18	3.73830e-10	1.000000	3.73830e-10	1.000000
rad4	2.41724e-10	1.000000	2.41724e-10	1.000000
PhCCCH3+H	1.94434e-10	1.000000	1.94434e-10	1.000000
rad36	1.57925e-10	1.000000	1.57925e-10	1.000000
Ph+MeAc	1.21605e-10	1.000000	1.21605e-10	1.000000
PhCCH+CH3	1.04654e-10	1.000000	1.04654e-10	1.000000
rad7	5.47227e-11	1.000000	5.47227e-11	1.000000
Ph+Allene	3.37985e-11	1.000000	3.37985e-11	1.000000
rad20	2.41503e-11	1.000000	2.41503e-11	1.000000
rad30	2.25518e-11	1.000000	2.25518e-11	1.000000
rad21	1.66380e-11	1.000000	1.66380e-11	1.000000
rad5	1.09300e-11	1.000000	1.09300e-11	1.000000
PhCH2CCH+H	5.56357e-12	1.000000	5.56357e-12	1.000000
PhcycC3H3_A+H	1.42038e-12	1.000000	1.42038e-12	1.000000
rad25	9.75767e-13	1.000000	9.75767e-13	1.000000
rad27	6.11727e-13	1.000000	6.11727e-13	1.000000
rad13	5.66423e-13	1.000000	5.66423e-13	1.000000
rad14	2.11484e-13	1.000000	2.11484e-13	1.000000
rad28	1.65415e-13	1.000000	1.65415e-13	1.000000
rad37	9.56083e-14	1.000000	9.56083e-14	1.000000
rad60syn	8.68281e-14	1.000000	8.68281e-14	1.000000
rad60anti	4.20574e-14	1.000000	4.20574e-14	1.000000
PAH3+H	3.19298e-14	1.000000	3.19298e-14	1.000000
PAH7+H	1.77344e-14	1.000000	1.77344e-14	1.000000
rad59	6.66929e-15	1.000000	6.66929e-15	1.000000
rad38	4.84257e-15	1.000000	4.84257e-15	1.000000
Phenyl+cycC3H4	3.36872e-15	1.000000	0.000000	1.000000
PAH9+H	2.83970e-15	1.000000	2.83970e-15	1.000000
rad33	8.26689e-16	1.000000	8.26689e-16	1.000000
rad46	2.73156e-16	1.000000	2.73156e-16	1.000000
Benzene+cycloprop-1-enylidene	1.29619e-16	1.000000	1.29619e-16	1.000000
rad24	1.06733e-16	1.000000	1.06733e-16	1.000000
PAH10+CH3	8.55426e-17	1.000000	8.55426e-17	1.000000
PhcycC3H3_B+H	4.05259e-17	1.000000	4.05259e-17	1.000000
rad43	1.32722e-17	1.000000	1.32722e-17	1.000000
rad39	3.13404e-18	1.000000	3.13404e-18	1.000000
rad31	1.33693e-18	1.000000	1.33693e-18	1.000000
rad50	1.30504e-18	1.000000	1.30504e-18	1.000000
rad70	7.68554e-19	1.000000	7.68554e-19	1.000000
rad62	4.96628e-19	1.000000	4.96628e-19	1.000000
rad58	3.70638e-19	1.000000	3.70638e-19	1.000000
rad54	3.25953e-20	1.000000	3.25953e-20	1.000000
rad34	8.04699e-21	1.000000	8.04699e-21	1.000000
rad52	7.33417e-21	1.000000	7.33417e-21	1.000000
PAH1+H	4.36179e-21	1.000000	4.36179e-21	1.000000
rad51	1.67845e-21	1.000000	1.67845e-21	1.000000
rad41	2.42053e-22	1.000000	2.42053e-22	1.000000
rad55	2.08250e-22	1.000000	2.08250e-22	1.000000
rad42	3.45169e-23	1.000000	3.45169e-23	1.000000
rad65	5.65334e-24	1.000000	5.65334e-24	1.000000
rad47	2.68537e-25	1.000000	2.68537e-25	1.000000
rad53	1.69692e-28	1.000000	1.69692e-28	1.000000
rad61	1.99183e-30	1.000000	1.99183e-30	1.000000
rad64	5.89698e-32	1.000000	5.89698e-32	1.000000
rad68syn	9.13376e-33	1.000000	9.13376e-33	1.000000
rad68anti	7.41553e-33	1.000000	7.41553e-33	1.000000
rad56	4.58918e-34	1.000000	4.58918e-34	1.000000
rad19syn	2.20102e-34	1.000000	2.20102e-34	1.000000
rad40syn	2.54332e-37	1.000000	2.54332e-37	1.000000
rad40anti	2.02211e-37	1.000000	2.02211e-37	1.000000
rad73	4.84320e-39	1.000000	4.84320e-39	1.000000
PAH8+H	7.71889e-40	1.000000	7.71889e-40	1.000000
rad8	1.67231e-42	1.000000	1.67231e-42	1.000000
rad71	5.19718e-44	1.000000	5.19718e-44	1.000000

10000.0000 Pa, 110.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.95524e-15 (1.00)	1.95524e-15 (1.00)
Formation of rad19	1.95524e-15 (1.000)	1.95524e-15 (1.000)
H-abstraction to cyc2enyl	4.50936e-23 (2.31e-08)	4.50936e-23 (2.31e-08)

H-abstraction to cyclenyl | 7.87782e-30 (4.03e-15) 7.87782e-30 (4.03e-15)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.982389	0.982389	0.982389	0.982389
Indene+H	0.0151155	0.997504	0.0151155	0.997504
rad15	0.00249357	0.999998	0.00249357	0.999998
PhCHCCH2+H	1.94487e-06	1.000000	1.94487e-06	1.000000
rad2	7.31039e-08	1.000000	7.31039e-08	1.000000
rad6	6.49236e-08	1.000000	6.49236e-08	1.000000
rad11	2.74280e-08	1.000000	2.74280e-08	1.000000
Benzene+cycloprop-2-enylidene	2.30629e-08	1.000000	2.30629e-08	1.000000
rad19anti	2.22583e-08	1.000000	2.22583e-08	1.000000
rad12	2.15443e-08	1.000000	2.15443e-08	1.000000
rad26	1.16065e-08	1.000000	1.16065e-08	1.000000
rad22	1.01384e-08	1.000000	1.01384e-08	1.000000
C2H2+PhCH2	6.90066e-09	1.000000	6.90066e-09	1.000000
rad1	4.80669e-09	1.000000	4.80669e-09	1.000000
rad23	4.72717e-09	1.000000	4.72717e-09	1.000000
rad67	3.62784e-09	1.000000	3.62784e-09	1.000000
rad45	2.89654e-09	1.000000	2.89654e-09	1.000000
rad10	2.79982e-09	1.000000	2.79982e-09	1.000000
rad35	1.62308e-09	1.000000	1.62308e-09	1.000000
rad3	5.83757e-10	1.000000	5.83757e-10	1.000000
rad18	3.22451e-10	1.000000	3.22451e-10	1.000000
rad4	2.98534e-10	1.000000	2.98534e-10	1.000000
PhCCCH3+H	2.57520e-10	1.000000	2.57520e-10	1.000000
rad36	1.78053e-10	1.000000	1.78053e-10	1.000000
Ph+MeAc	1.62933e-10	1.000000	1.62933e-10	1.000000
PhCCH+CH3	1.50638e-10	1.000000	1.50638e-10	1.000000
rad7	6.50332e-11	1.000000	6.50332e-11	1.000000
Ph+Allene	4.31164e-11	1.000000	4.31164e-11	1.000000
rad30	2.66749e-11	1.000000	2.66749e-11	1.000000
rad20	2.14722e-11	1.000000	2.14722e-11	1.000000
rad21	1.47842e-11	1.000000	1.47842e-11	1.000000
rad5	1.28310e-11	1.000000	1.28310e-11	1.000000
PhCH2CCH+H	7.20498e-12	1.000000	7.20498e-12	1.000000
PhcycC3H3_A+H	1.76675e-12	1.000000	1.76675e-12	1.000000
rad25	9.71996e-13	1.000000	9.71996e-13	1.000000
rad27	6.74733e-13	1.000000	6.74733e-13	1.000000
rad13	6.55169e-13	1.000000	6.55169e-13	1.000000
rad14	2.62320e-13	1.000000	2.62320e-13	1.000000
rad28	2.33307e-13	1.000000	2.33307e-13	1.000000
rad37	1.28707e-13	1.000000	1.28707e-13	1.000000
rad60syn	1.04950e-13	1.000000	1.04950e-13	1.000000
rad60anti	5.09307e-14	1.000000	5.09307e-14	1.000000
PAH3+H	3.95917e-14	1.000000	3.95917e-14	1.000000
PAH7+H	2.32610e-14	1.000000	2.32610e-14	1.000000
rad59	8.23956e-15	1.000000	8.23956e-15	1.000000
rad38	6.54899e-15	1.000000	6.54899e-15	1.000000
Phenyl+cycC3H4	5.18583e-15	1.000000	0.000000	1.000000
PAH9+H	4.19301e-15	1.000000	4.19301e-15	1.000000
Benzene+cycloprop-1-enylidene	4.02908e-15	1.000000	4.02908e-15	1.000000
rad33	9.44484e-16	1.000000	9.44484e-16	1.000000
rad46	3.73559e-16	1.000000	3.73559e-16	1.000000
PhcycC3H3_B+H	1.27772e-16	1.000000	1.27772e-16	1.000000
PAH10+CH3	1.23226e-16	1.000000	1.23226e-16	1.000000
rad24	1.13876e-16	1.000000	1.13876e-16	1.000000
rad43	1.92933e-17	1.000000	1.92933e-17	1.000000
rad39	5.21295e-18	1.000000	5.21295e-18	1.000000
rad50	1.86152e-18	1.000000	1.86152e-18	1.000000
rad31	1.58509e-18	1.000000	1.58509e-18	1.000000
rad70	1.11541e-18	1.000000	1.11541e-18	1.000000
rad62	8.27155e-19	1.000000	8.27155e-19	1.000000
rad58	5.04193e-19	1.000000	5.04193e-19	1.000000
rad54	5.13343e-20	1.000000	5.13343e-20	1.000000
rad34	1.25165e-20	1.000000	1.25165e-20	1.000000
rad52	1.07884e-20	1.000000	1.07884e-20	1.000000
PAH1+H	7.02854e-21	1.000000	7.02854e-21	1.000000
rad51	2.56013e-21	1.000000	2.56013e-21	1.000000
rad41	4.32435e-22	1.000000	4.32435e-22	1.000000
rad55	3.44109e-22	1.000000	3.44109e-22	1.000000
rad42	6.95293e-23	1.000000	6.95293e-23	1.000000
rad65	9.69995e-24	1.000000	9.69995e-24	1.000000
rad47	3.22592e-25	1.000000	3.22592e-25	1.000000
rad53	5.58028e-28	1.000000	5.58028e-28	1.000000
rad61	1.51726e-29	1.000000	1.51726e-29	1.000000
rad64	2.69232e-31	1.000000	2.69232e-31	1.000000
rad68syn	1.00910e-31	1.000000	1.00910e-31	1.000000
rad68anti	8.15975e-32	1.000000	8.15975e-32	1.000000

rad56	4.42537e-33	1.00000	4.42537e-33	1.00000
rad19syn	4.52245e-34	1.00000	4.52245e-34	1.00000
rad40syn	4.80946e-36	1.00000	4.80946e-36	1.00000
rad40anti	3.82754e-36	1.00000	3.82754e-36	1.00000
rad73	8.11785e-38	1.00000	8.11785e-38	1.00000
PAH8+H	1.94794e-38	1.00000	1.94794e-38	1.00000
rad71	1.49246e-42	1.00000	1.49246e-42	1.00000
rad8	9.67649e-43	1.00000	9.67649e-43	1.00000

10000.0000 Pa, 120.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.79817e-15 (1.00)	2.79817e-15 (1.00)
Formation of rad19	2.79817e-15 (1.000)	2.79817e-15 (1.000)
H-abstraction to cyc2enyl	2.96039e-22 (1.06e-07)	2.96039e-22 (1.06e-07)
H-abstraction to cyclenyl	1.95323e-28 (6.98e-14)	1.95323e-28 (6.98e-14)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.980784	0.980784	0.980784	0.980784
Indene+H	0.0167626	0.997546	0.0167626	0.997546
rad15	0.00245082	0.999997	0.00245082	0.999997
PhCHCCH2+H	2.22191e-06	1.000000	2.22191e-06	1.000000
Benzene+cycloprop-2-enylidene	1.05797e-07	1.000000	1.05797e-07	1.000000
rad2	8.33556e-08	1.000000	8.33556e-08	1.000000
rad6	7.74800e-08	1.000000	7.74800e-08	1.000000
rad11	2.78550e-08	1.000000	2.78550e-08	1.000000
rad19anti	2.10744e-08	1.000000	2.10744e-08	1.000000
rad12	2.06018e-08	1.000000	2.06018e-08	1.000000
rad26	1.32905e-08	1.000000	1.32905e-08	1.000000
rad22	1.05113e-08	1.000000	1.05113e-08	1.000000
C2H2+PhCH2	8.12963e-09	1.000000	8.12963e-09	1.000000
rad23	5.75480e-09	1.000000	5.75480e-09	1.000000
rad1	5.49353e-09	1.000000	5.49353e-09	1.000000
rad67	4.23331e-09	1.000000	4.23331e-09	1.000000
rad10	3.49419e-09	1.000000	3.49419e-09	1.000000
rad45	3.24042e-09	1.000000	3.24042e-09	1.000000
rad35	1.89009e-09	1.000000	1.89009e-09	1.000000
rad3	7.09539e-10	1.000000	7.09539e-10	1.000000
rad4	3.63002e-10	1.000000	3.63002e-10	1.000000
PhCCCH3+H	3.36748e-10	1.000000	3.36748e-10	1.000000
rad18	2.82227e-10	1.000000	2.82227e-10	1.000000
Ph+MeAc	2.15696e-10	1.000000	2.15696e-10	1.000000
PhCCH+CH3	2.12309e-10	1.000000	2.12309e-10	1.000000
rad36	1.99235e-10	1.000000	1.99235e-10	1.000000
rad7	7.72018e-11	1.000000	7.72018e-11	1.000000
Ph+Allene	5.43094e-11	1.000000	5.43094e-11	1.000000
rad30	3.12607e-11	1.000000	3.12607e-11	1.000000
rad20	1.93313e-11	1.000000	1.93313e-11	1.000000
rad5	1.49714e-11	1.000000	1.49714e-11	1.000000
rad21	1.33012e-11	1.000000	1.33012e-11	1.000000
PhCH2CCH+H	9.22024e-12	1.000000	9.22024e-12	1.000000
PhcycC3H3_A+H	2.21112e-12	1.000000	2.21112e-12	1.000000
rad25	9.63799e-13	1.000000	9.63799e-13	1.000000
rad13	7.50791e-13	1.000000	7.50791e-13	1.000000
rad27	7.42200e-13	1.000000	7.42200e-13	1.000000
rad28	3.22941e-13	1.000000	3.22941e-13	1.000000
rad14	3.19474e-13	1.000000	3.19474e-13	1.000000
rad37	1.71251e-13	1.000000	1.71251e-13	1.000000
rad60syn	1.25716e-13	1.000000	1.25716e-13	1.000000
Benzene+cycloprop-1-enylidene	6.98038e-14	1.000000	6.98038e-14	1.000000
rad60anti	6.11255e-14	1.000000	6.11255e-14	1.000000
PAH3+H	4.86879e-14	1.000000	4.86879e-14	1.000000
PAH7+H	3.00899e-14	1.000000	3.00899e-14	1.000000
rad59	1.00941e-14	1.000000	1.00941e-14	1.000000
rad38	8.70984e-15	1.000000	8.70984e-15	1.000000
Phenyl+cycC3H4	7.86405e-15	1.000000	0.000000	1.000000
PAH9+H	6.03562e-15	1.000000	6.03562e-15	1.000000
rad33	1.07092e-15	1.000000	1.07092e-15	1.000000
rad46	5.02400e-16	1.000000	5.02400e-16	1.000000
PhcycC3H3_B+H	3.47939e-16	1.000000	3.47939e-16	1.000000
PAH10+CH3	1.76412e-16	1.000000	1.76412e-16	1.000000
rad24	1.21661e-16	1.000000	1.21661e-16	1.000000
rad43	2.77951e-17	1.000000	2.77951e-17	1.000000
rad39	8.49852e-18	1.000000	8.49852e-18	1.000000
rad50	2.61679e-18	1.000000	2.61679e-18	1.000000
rad31	1.87072e-18	1.000000	1.87072e-18	1.000000
rad70	1.60344e-18	1.000000	1.60344e-18	1.000000
rad62	1.35113e-18	1.000000	1.35113e-18	1.000000

rad58	6.82803e-19	1.000000	6.82803e-19	1.000000
rad54	7.97899e-20	1.000000	7.97899e-20	1.000000
rad34	1.93366e-20	1.000000	1.93366e-20	1.000000
rad52	1.56684e-20	1.000000	1.56684e-20	1.000000
PAH1+H	1.13409e-20	1.000000	1.13409e-20	1.000000
rad51	3.86454e-21	1.000000	3.86454e-21	1.000000
rad41	7.70806e-22	1.000000	7.70806e-22	1.000000
rad55	5.63070e-22	1.000000	5.63070e-22	1.000000
rad42	1.38174e-22	1.000000	1.38174e-22	1.000000
rad65	1.63826e-23	1.000000	1.63826e-23	1.000000
rad47	3.84248e-25	1.000000	3.84248e-25	1.000000
rad53	1.75422e-27	1.000000	1.75422e-27	1.000000
rad61	1.08014e-28	1.000000	1.08014e-28	1.000000
rad64	1.18651e-30	1.000000	1.18651e-30	1.000000
rad68syn	1.06192e-30	1.000000	1.06192e-30	1.000000
rad68anti	8.54642e-31	1.000000	8.54642e-31	1.000000
rad56	4.12577e-32	1.000000	4.12577e-32	1.000000
rad19syn	9.71731e-34	1.000000	9.71731e-34	1.000000
rad40syn	1.00090e-34	1.000000	1.00090e-34	1.000000
rad40anti	7.97825e-35	1.000000	7.97825e-35	1.000000
rad73	1.44509e-36	1.000000	1.44509e-36	1.000000
PAH8+H	6.33702e-37	1.000000	6.33702e-37	1.000000
rad71	5.79877e-41	1.000000	5.79877e-41	1.000000
rad8	6.40904e-43	1.000000	6.40904e-43	1.000000

10000.0000 Pa, 130.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.81236e-15 (1.00)	3.81236e-15 (1.00)
Formation of rad19	3.81236e-15 (1.000)	3.81236e-15 (1.000)
H-abstraction to cyc2enyl	1.44825e-21 (3.80e-07)	1.44825e-21 (3.80e-07)
H-abstraction to cyclenyl	2.94348e-27 (7.72e-13)	2.94348e-27 (7.72e-13)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.979128	0.979128	0.979128	0.979128
Indene+H	0.0184568	0.997584	0.0184568	0.997584
rad15	0.00241237	0.999997	0.00241237	0.999997
PhCHCCH2+H	2.52551e-06	0.999999	2.52551e-06	0.999999
Benzene+cycloprop-2-enylidene	3.79882e-07	1.000000	3.79882e-07	1.000000
rad2	9.45570e-08	1.000000	9.45570e-08	1.000000
rad6	9.14648e-08	1.000000	9.14648e-08	1.000000
rad11	2.81278e-08	1.000000	2.81278e-08	1.000000
rad19anti	2.00863e-08	1.000000	2.00863e-08	1.000000
rad12	1.98091e-08	1.000000	1.98091e-08	1.000000
rad26	1.51430e-08	1.000000	1.51430e-08	1.000000
rad22	1.08157e-08	1.000000	1.08157e-08	1.000000
C2H2+PhCH2	9.51029e-09	1.000000	9.51029e-09	1.000000
rad23	6.90738e-09	1.000000	6.90738e-09	1.000000
rad1	6.24989e-09	1.000000	6.24989e-09	1.000000
rad67	4.91195e-09	1.000000	4.91195e-09	1.000000
rad10	4.31017e-09	1.000000	4.31017e-09	1.000000
rad45	3.60515e-09	1.000000	3.60515e-09	1.000000
rad35	2.18842e-09	1.000000	2.18842e-09	1.000000
rad3	8.51884e-10	1.000000	8.51884e-10	1.000000
PhCCCH3+H	4.36500e-10	1.000000	4.36500e-10	1.000000
rad4	4.36080e-10	1.000000	4.36080e-10	1.000000
PhCCH+CH3	2.94596e-10	1.000000	2.94596e-10	1.000000
Ph+MeAc	2.83280e-10	1.000000	2.83280e-10	1.000000
rad18	2.50019e-10	1.000000	2.50019e-10	1.000000
rad36	2.21764e-10	1.000000	2.21764e-10	1.000000
rad7	9.13281e-11	1.000000	9.13281e-11	1.000000
Ph+Allene	6.77984e-11	1.000000	6.77984e-11	1.000000
rad30	3.63958e-11	1.000000	3.63958e-11	1.000000
rad20	1.75743e-11	1.000000	1.75743e-11	1.000000
rad5	1.73935e-11	1.000000	1.73935e-11	1.000000
rad21	1.20835e-11	1.000000	1.20835e-11	1.000000
PhCH2CCH+H	1.17044e-11	1.000000	1.17044e-11	1.000000
PhcycC3H3_A+H	2.78560e-12	1.000000	2.78560e-12	1.000000
rad25	9.52331e-13	1.000000	9.52331e-13	1.000000
rad13	8.54531e-13	1.000000	8.54531e-13	1.000000
rad27	8.15138e-13	1.000000	8.15138e-13	1.000000
Benzene+cycloprop-1-enylidene	7.72089e-13	1.000000	7.72089e-13	1.000000
rad28	4.40960e-13	1.000000	4.40960e-13	1.000000
rad14	3.83636e-13	1.000000	3.83636e-13	1.000000
rad37	2.26155e-13	1.000000	2.26155e-13	1.000000
rad60syn	1.49692e-13	1.000000	1.49692e-13	1.000000
rad60anti	7.29272e-14	1.000000	7.29272e-14	1.000000
PAH3+H	5.95777e-14	1.000000	5.95777e-14	1.000000

PAH7+H	3.85556e-14	1.00000	3.85556e-14	1.00000
rad59	1.23024e-14	1.00000	1.23024e-14	1.00000
Phenyl+cycC3H4	1.18033e-14	1.00000	0.00000	1.00000
rad38	1.14495e-14	1.00000	1.14495e-14	1.00000
PAH9+H	8.52764e-15	1.00000	8.52764e-15	1.00000
rad33	1.20775e-15	1.00000	1.20775e-15	1.00000
PhcycC3H3_B+H	8.48155e-16	1.00000	8.48155e-16	1.00000
rad46	6.67948e-16	1.00000	6.67948e-16	1.00000
PAH10+CH3	2.52193e-16	1.00000	2.52193e-16	1.00000
rad24	1.30129e-16	1.00000	1.30129e-16	1.00000
rad43	3.98889e-17	1.00000	3.98889e-17	1.00000
rad39	1.36823e-17	1.00000	1.36823e-17	1.00000
rad50	3.64577e-18	1.00000	3.64577e-18	1.00000
rad70	2.29459e-18	1.00000	2.29459e-18	1.00000
rad31	2.20215e-18	1.00000	2.20215e-18	1.00000
rad62	2.17995e-18	1.00000	2.17995e-18	1.00000
rad58	9.24256e-19	1.00000	9.24256e-19	1.00000
rad54	1.23201e-19	1.00000	1.23201e-19	1.00000
rad34	2.98206e-20	1.00000	2.98206e-20	1.00000
rad52	2.26023e-20	1.00000	2.26023e-20	1.00000
PAH1+H	1.84163e-20	1.00000	1.84163e-20	1.00000
rad51	5.80959e-21	1.00000	5.80959e-21	1.00000
rad41	1.37766e-21	1.00000	1.37766e-21	1.00000
rad55	9.18556e-22	1.00000	9.18556e-22	1.00000
rad42	2.72593e-22	1.00000	2.72593e-22	1.00000
rad65	2.74589e-23	1.00000	2.74589e-23	1.00000
rad47	4.55296e-25	1.00000	4.55296e-25	1.00000
rad53	5.28700e-27	1.00000	5.28700e-27	1.00000
rad61	6.77559e-28	1.00000	6.77559e-28	1.00000
rad68syn	9.45237e-30	1.00000	9.45237e-30	1.00000
rad68anti	7.56944e-30	1.00000	7.56944e-30	1.00000
rad64	5.00478e-30	1.00000	5.00478e-30	1.00000
rad56	3.39341e-31	1.00000	3.39341e-31	1.00000
rad19syn	2.18658e-33	1.00000	2.18658e-33	1.00000
rad40syn	1.84657e-33	1.00000	1.84657e-33	1.00000
rad40anti	1.47675e-33	1.00000	1.47675e-33	1.00000
rad73	2.27266e-35	1.00000	2.27266e-35	1.00000
PAH8+H	1.89469e-35	1.00000	1.89469e-35	1.00000
rad71	2.10695e-39	1.00000	2.10695e-39	1.00000
rad8	4.73416e-43	1.00000	4.73416e-43	1.00000

10000.0000 Pa, 140.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.99515e-15 (1.00)	4.99515e-15 (1.00)
Formation of rad19	4.99514e-15 (1.000)	4.99514e-15 (1.000)
H-abstraction to cyc2enyl	5.62488e-21 (1.13e-06)	5.62488e-21 (1.13e-06)
H-abstraction to cyclenyl	3.00047e-26 (6.01e-12)	3.00047e-26 (6.01e-12)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.977411	0.977411	0.977411	0.977411
Indene+H	0.0202070	0.997618	0.0202070	0.997618
rad15	0.00237739	0.999995	0.00237739	0.999995
PhCHCCH2+H	2.86042e-06	0.999998	2.86042e-06	0.999998
Benzene+cycloprop-2-enylidene	1.12607e-06	0.999999	1.12607e-06	0.999999
rad6	1.07089e-07	0.999999	1.07089e-07	0.999999
rad2	1.06873e-07	0.999999	1.06873e-07	0.999999
rad11	2.82721e-08	0.999999	2.82721e-08	0.999999
rad19anti	1.92531e-08	1.000000	1.92531e-08	1.000000
rad12	1.91338e-08	1.000000	1.91338e-08	1.000000
rad26	1.71943e-08	1.000000	1.71943e-08	1.000000
C2H2+PhCH2	1.10714e-08	1.000000	1.10714e-08	1.000000
rad22	1.10606e-08	1.000000	1.10606e-08	1.000000
rad23	8.20063e-09	1.000000	8.20063e-09	1.000000
rad1	7.08841e-09	1.000000	7.08841e-09	1.000000
rad67	5.67791e-09	1.000000	5.67791e-09	1.000000
rad10	5.26949e-09	1.000000	5.26949e-09	1.000000
rad45	3.99579e-09	1.000000	3.99579e-09	1.000000
rad35	2.52406e-09	1.000000	2.52406e-09	1.000000
rad3	1.01297e-09	1.000000	1.01297e-09	1.000000
PhCCCH3+H	5.62640e-10	1.000000	5.62640e-10	1.000000
rad4	5.18932e-10	1.000000	5.18932e-10	1.000000
PhCCH+CH3	4.04148e-10	1.000000	4.04148e-10	1.000000
Ph+MeAc	3.70298e-10	1.000000	3.70298e-10	1.000000
rad36	2.45974e-10	1.000000	2.45974e-10	1.000000
rad18	2.23732e-10	1.000000	2.23732e-10	1.000000
rad7	1.07574e-10	1.000000	1.07574e-10	1.000000
Ph+Allene	8.41307e-11	1.000000	8.41307e-11	1.000000

rad30	4.21865e-11	1.000000	4.21865e-11	1.000000
rad5	2.01472e-11	1.000000	2.01472e-11	1.000000
rad20	1.61011e-11	1.000000	1.61011e-11	1.000000
PhCH2CCH+H	1.47832e-11	1.000000	1.47832e-11	1.000000
rad21	1.10620e-11	1.000000	1.10620e-11	1.000000
Benzene+cycloprop-1-enylidene	6.00677e-12	1.000000	6.00677e-12	1.000000
PhcycC3H3_A+H	3.53390e-12	1.000000	3.53390e-12	1.000000
rad13	9.67882e-13	1.000000	9.67882e-13	1.000000
rad25	9.38423e-13	1.000000	9.38423e-13	1.000000
rad27	8.94667e-13	1.000000	8.94667e-13	1.000000
rad28	5.96381e-13	1.000000	5.96381e-13	1.000000
rad14	4.55672e-13	1.000000	4.55672e-13	1.000000
rad37	2.97434e-13	1.000000	2.97434e-13	1.000000
rad60syn	1.77592e-13	1.000000	1.77592e-13	1.000000
rad60anti	8.66980e-14	1.000000	8.66980e-14	1.000000
PAH3+H	7.27324e-14	1.000000	7.27324e-14	1.000000
PAH7+H	4.91029e-14	1.000000	4.91029e-14	1.000000
Phenyl+cycC3H4	1.75966e-14	1.000000	0.000000	1.000000
rad59	1.49550e-14	1.000000	1.49550e-14	1.000000
rad38	1.49364e-14	1.000000	1.49364e-14	1.000000
PAH9+H	1.18891e-14	1.000000	1.18891e-14	1.000000
PhcycC3H3_B+H	1.89911e-15	1.000000	1.89911e-15	1.000000
rad33	1.35706e-15	1.000000	1.35706e-15	1.000000
rad46	8.81490e-16	1.000000	8.81490e-16	1.000000
PAH10+CH3	3.61441e-16	1.000000	3.61441e-16	1.000000
rad24	1.39375e-16	1.000000	1.39375e-16	1.000000
rad43	5.72585e-17	1.000000	5.72585e-17	1.000000
rad39	2.18872e-17	1.000000	2.18872e-17	1.000000
rad50	5.05715e-18	1.000000	5.05715e-18	1.000000
rad62	3.49280e-18	1.000000	3.49280e-18	1.000000
rad70	3.28159e-18	1.000000	3.28159e-18	1.000000
rad31	2.58993e-18	1.000000	2.58993e-18	1.000000
rad58	1.25449e-18	1.000000	1.25449e-18	1.000000
rad54	1.89974e-19	1.000000	1.89974e-19	1.000000
rad34	4.60814e-20	1.000000	4.60814e-20	1.000000
rad52	3.25413e-20	1.000000	3.25413e-20	1.000000
PAH1+H	3.02154e-20	1.000000	3.02154e-20	1.000000
rad51	8.74180e-21	1.000000	8.74180e-21	1.000000
rad41	2.47747e-21	1.000000	2.47747e-21	1.000000
rad55	1.50186e-21	1.000000	1.50186e-21	1.000000
rad42	5.36034e-22	1.000000	5.36034e-22	1.000000
rad65	4.59651e-23	1.000000	4.59651e-23	1.000000
rad47	5.38036e-25	1.000000	5.38036e-25	1.000000
rad53	1.53578e-26	1.000000	1.53578e-26	1.000000
rad61	3.70786e-27	1.000000	3.70786e-27	1.000000
rad68syn	6.92304e-29	1.000000	6.92304e-29	1.000000
rad68anti	5.51477e-29	1.000000	5.51477e-29	1.000000
rad64	2.01888e-29	1.000000	2.01888e-29	1.000000
rad56	2.39726e-30	1.000000	2.39726e-30	1.000000
rad40syn	2.74355e-32	1.000000	2.74355e-32	1.000000
rad40anti	2.20486e-32	1.000000	2.20486e-32	1.000000
rad19syn	5.16045e-33	1.000000	5.16045e-33	1.000000
PAH8+H	4.48648e-34	1.000000	4.48648e-34	1.000000
rad73	2.93050e-34	1.000000	2.93050e-34	1.000000
rad71	6.01880e-38	1.000000	6.01880e-38	1.000000
rad8	3.82704e-43	1.000000	3.82704e-43	1.000000

10000.0000 Pa, 150.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.34137e-15 (1.00)	6.34137e-15 (1.00)
Formation of rad19	6.34135e-15 (1.000)	6.34135e-15 (1.000)
H-abstraction to cyc2enyl	1.81685e-20 (2.87e-06)	1.81685e-20 (2.87e-06)
H-abstraction to cyclenyl	2.23765e-25 (3.53e-11)	2.23765e-25 (3.53e-11)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.975625	0.975625	0.975625	0.975625
Indene+H	0.0220227	0.997648	0.0220227	0.997648
rad15	0.00234525	0.999993	0.00234525	0.999993
PhCHCCH2+H	3.23229e-06	0.999996	3.23229e-06	0.999996
Benzene+cycloprop-2-enylidene	2.86508e-06	0.999999	2.86508e-06	0.999999
rad6	1.24617e-07	0.999999	1.24617e-07	0.999999
rad2	1.20497e-07	1.000000	1.20497e-07	1.000000
rad11	2.83080e-08	1.000000	2.83080e-08	1.000000
rad26	1.94807e-08	1.000000	1.94807e-08	1.000000
rad12	1.85526e-08	1.000000	1.85526e-08	1.000000
rad19anti	1.85457e-08	1.000000	1.85457e-08	1.000000
C2H2+PhCH2	1.28484e-08	1.000000	1.28484e-08	1.000000

rad22	1.12530e-08	1.000000	1.12530e-08	1.000000
rad23	9.65411e-09	1.000000	9.65411e-09	1.000000
rad1	8.02420e-09	1.000000	8.02420e-09	1.000000
rad67	6.54861e-09	1.000000	6.54861e-09	1.000000
rad10	6.39889e-09	1.000000	6.39889e-09	1.000000
rad45	4.41812e-09	1.000000	4.41812e-09	1.000000
rad35	2.90433e-09	1.000000	2.90433e-09	1.000000
rad3	1.19541e-09	1.000000	1.19541e-09	1.000000
PhCCCH3+H	7.23062e-10	1.000000	7.23062e-10	1.000000
rad4	6.12967e-10	1.000000	6.12967e-10	1.000000
PhCCH+CH3	5.49990e-10	1.000000	5.49990e-10	1.000000
Ph+MeAc	4.83073e-10	1.000000	4.83073e-10	1.000000
rad36	2.72246e-10	1.000000	2.72246e-10	1.000000
rad18	2.01922e-10	1.000000	2.01922e-10	1.000000
rad7	1.26169e-10	1.000000	1.26169e-10	1.000000
Ph+Allene	1.04019e-10	1.000000	1.04019e-10	1.000000
rad30	4.87639e-11	1.000000	4.87639e-11	1.000000
Benzene+cycloprop-1-enylidene	3.52865e-11	1.000000	3.52865e-11	1.000000
rad5	2.32901e-11	1.000000	2.32901e-11	1.000000
PhCH2CCH+H	1.86239e-11	1.000000	1.86239e-11	1.000000
rad20	1.48436e-11	1.000000	1.48436e-11	1.000000
rad21	1.01900e-11	1.000000	1.01900e-11	1.000000
PhcycC3H3_A+H	4.51550e-12	1.000000	4.51550e-12	1.000000
rad13	1.09264e-12	1.000000	1.09264e-12	1.000000
rad27	9.82062e-13	1.000000	9.82062e-13	1.000000
rad25	9.22689e-13	1.000000	9.22689e-13	1.000000
rad28	8.01545e-13	1.000000	8.01545e-13	1.000000
rad14	5.36642e-13	1.000000	5.36642e-13	1.000000
rad37	3.90671e-13	1.000000	3.90671e-13	1.000000
rad60syn	2.10324e-13	1.000000	2.10324e-13	1.000000
rad60anti	1.02900e-13	1.000000	1.02900e-13	1.000000
PAH3+H	8.87728e-14	1.000000	8.87728e-14	1.000000
PAH7+H	6.23266e-14	1.000000	6.23266e-14	1.000000
Phenyl+cycC3H4	2.61227e-14	1.000000	0.00000	1.000000
rad38	1.93996e-14	1.000000	1.93996e-14	1.000000
rad59	1.81705e-14	1.000000	1.81705e-14	1.000000
PAH9+H	1.64253e-14	1.000000	1.64253e-14	1.000000
PhcycC3H3_B+H	3.97977e-15	1.000000	3.97977e-15	1.000000
rad33	1.52131e-15	1.000000	1.52131e-15	1.000000
rad46	1.15856e-15	1.000000	1.15856e-15	1.000000
PAH10+CH3	5.21039e-16	1.000000	5.21039e-16	1.000000
rad24	1.49534e-16	1.000000	1.49534e-16	1.000000
rad43	8.24852e-17	1.000000	8.24852e-17	1.000000
rad39	3.49629e-17	1.000000	3.49629e-17	1.000000
rad50	7.01032e-18	1.000000	7.01032e-18	1.000000
rad62	5.57990e-18	1.000000	5.57990e-18	1.000000
rad70	4.70434e-18	1.000000	4.70434e-18	1.000000
rad31	3.04754e-18	1.000000	3.04754e-18	1.000000
rad58	1.71165e-18	1.000000	1.71165e-18	1.000000
rad54	2.93777e-19	1.000000	2.93777e-19	1.000000
rad34	7.15429e-20	1.000000	7.15429e-20	1.000000
PAH1+H	5.02276e-20	1.000000	5.02276e-20	1.000000
rad52	4.69443e-20	1.000000	4.69443e-20	1.000000
rad51	1.32200e-20	1.000000	1.32200e-20	1.000000
rad41	4.49207e-21	1.000000	4.49207e-21	1.000000
rad55	2.47116e-21	1.000000	2.47116e-21	1.000000
rad42	1.05302e-21	1.000000	1.05302e-21	1.000000
rad65	7.72221e-23	1.000000	7.72221e-23	1.000000
rad47	6.35440e-25	1.000000	6.35440e-25	1.000000
rad53	4.32306e-26	1.000000	4.32306e-26	1.000000
rad61	1.78918e-26	1.000000	1.78918e-26	1.000000
rad68syn	4.22095e-28	1.000000	4.22095e-28	1.000000
rad68anti	3.34316e-28	1.000000	3.34316e-28	1.000000
rad64	7.81039e-29	1.000000	7.81039e-29	1.000000
rad56	1.46238e-29	1.000000	1.46238e-29	1.000000
rad40syn	3.22322e-31	1.000000	3.22322e-31	1.000000
rad40anti	2.60570e-31	1.000000	2.60570e-31	1.000000
rad19syn	1.27909e-32	1.000000	1.27909e-32	1.000000
PAH8+H	8.06482e-33	1.000000	8.06482e-33	1.000000
rad73	3.06802e-33	1.000000	3.06802e-33	1.000000
rad71	1.29237e-36	1.000000	1.29237e-36	1.000000
rad8	3.33872e-43	1.000000	3.33872e-43	1.000000

10000.0000 Pa, 160.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.84423e-15 (1.00)	7.84423e-15 (1.00)
Formation of rad19	7.84418e-15 (1.000)	7.84418e-15 (1.000)
H-abstraction to cyc2enyl	5.05321e-20 (6.44e-06)	5.05321e-20 (6.44e-06)

H-abstraction to cyclenyl | 1.29479e-24 (1.65e-10) 1.29479e-24 (1.65e-10)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.973760	0.973760	0.973760	0.973760
Indene+H	0.0239146	0.997674	0.0239146	0.997674
rad15	0.00231549	0.999990	0.00231549	0.999990
Benzene+cycloprop-2-enylidene	6.44194e-06	0.999996	6.44194e-06	0.999996
PhCHCCH2+H	3.64790e-06	1.000000	3.64790e-06	1.000000
rad6	1.44368e-07	1.000000	1.44368e-07	1.000000
rad2	1.35656e-07	1.000000	1.35656e-07	1.000000
rad11	2.82523e-08	1.000000	2.82523e-08	1.000000
rad26	2.20460e-08	1.000000	2.20460e-08	1.000000
rad12	1.80486e-08	1.000000	1.80486e-08	1.000000
rad19anti	1.79433e-08	1.000000	1.79433e-08	1.000000
C2H2+PhCH2	1.48848e-08	1.000000	1.48848e-08	1.000000
rad22	1.13989e-08	1.000000	1.13989e-08	1.000000
rad23	1.12917e-08	1.000000	1.12917e-08	1.000000
rad1	9.07519e-09	1.000000	9.07519e-09	1.000000
rad10	7.73096e-09	1.000000	7.73096e-09	1.000000
rad67	7.54535e-09	1.000000	7.54535e-09	1.000000
rad45	4.87882e-09	1.000000	4.87882e-09	1.000000
rad35	3.33820e-09	1.000000	3.33820e-09	1.000000
rad3	1.40233e-09	1.000000	1.40233e-09	1.000000
PhCCCH3+H	9.28431e-10	1.000000	9.28431e-10	1.000000
PhCCH+CH3	7.44418e-10	1.000000	7.44418e-10	1.000000
rad4	7.19869e-10	1.000000	7.19869e-10	1.000000
Ph+MeAc	6.30321e-10	1.000000	6.30321e-10	1.000000
rad36	3.01026e-10	1.000000	3.01026e-10	1.000000
rad18	1.83571e-10	1.000000	1.83571e-10	1.000000
Benzene+cycloprop-1-enylidene	1.65062e-10	1.000000	1.65062e-10	1.000000
rad7	1.47413e-10	1.000000	1.47413e-10	1.000000
Ph+Allene	1.28389e-10	1.000000	1.28389e-10	1.000000
rad30	5.62885e-11	1.000000	5.62885e-11	1.000000
rad5	2.68883e-11	1.000000	2.68883e-11	1.000000
PhCH2CCH+H	2.34493e-11	1.000000	2.34493e-11	1.000000
rad20	1.37544e-11	1.000000	1.37544e-11	1.000000
rad21	9.43474e-12	1.000000	9.43474e-12	1.000000
PhcycC3H3_A+H	5.81125e-12	1.000000	5.81125e-12	1.000000
rad13	1.23092e-12	1.000000	1.23092e-12	1.000000
rad27	1.07878e-12	1.000000	1.07878e-12	1.000000
rad28	1.07344e-12	1.000000	1.07344e-12	1.000000
rad25	9.05586e-13	1.000000	9.05586e-13	1.000000
rad14	6.27814e-13	1.000000	6.27814e-13	1.000000
rad37	5.13686e-13	1.000000	5.13686e-13	1.000000
rad60syn	2.49043e-13	1.000000	2.49043e-13	1.000000
rad60anti	1.22119e-13	1.000000	1.22119e-13	1.000000
PAH3+H	1.08518e-13	1.000000	1.08518e-13	1.000000
PAH7+H	7.90226e-14	1.000000	7.90226e-14	1.000000
Phenyl+cycC3H4	3.86810e-14	1.000000	0.000000	1.000000
rad38	2.51543e-14	1.000000	2.51543e-14	1.000000
PAH9+H	2.25632e-14	1.000000	2.25632e-14	1.000000
rad59	2.21045e-14	1.000000	2.21045e-14	1.000000
PhcycC3H3_B+H	7.91344e-15	1.000000	7.91344e-15	1.000000
rad33	1.70341e-15	1.000000	1.70341e-15	1.000000
rad46	1.52067e-15	1.000000	1.52067e-15	1.000000
PAH10+CH3	7.57505e-16	1.000000	7.57505e-16	1.000000
rad24	1.60770e-16	1.000000	1.60770e-16	1.000000
rad43	1.19561e-16	1.000000	1.19561e-16	1.000000
rad39	5.59978e-17	1.000000	5.59978e-17	1.000000
rad50	9.74128e-18	1.000000	9.74128e-18	1.000000
rad62	8.91355e-18	1.000000	8.91355e-18	1.000000
rad70	6.77515e-18	1.000000	6.77515e-18	1.000000
rad31	3.59223e-18	1.000000	3.59223e-18	1.000000
rad58	2.35211e-18	1.000000	2.35211e-18	1.000000
rad54	4.57102e-19	1.000000	4.57102e-19	1.000000
rad34	1.11783e-19	1.000000	1.11783e-19	1.000000
PAH1+H	8.47395e-20	1.000000	8.47395e-20	1.000000
rad52	6.80747e-20	1.000000	6.80747e-20	1.000000
rad51	2.01570e-20	1.000000	2.01570e-20	1.000000
rad41	8.21939e-21	1.000000	8.21939e-21	1.000000
rad55	4.10378e-21	1.000000	4.10378e-21	1.000000
rad42	2.06830e-21	1.000000	2.06830e-21	1.000000
rad65	1.30666e-22	1.000000	1.30666e-22	1.000000
rad47	7.51376e-25	1.000000	7.51376e-25	1.000000
rad53	1.18466e-25	1.000000	1.18466e-25	1.000000
rad61	7.73896e-26	1.000000	7.73896e-26	1.000000
rad68syn	2.19180e-27	1.000000	2.19180e-27	1.000000
rad68anti	1.72517e-27	1.000000	1.72517e-27	1.000000
rad64	2.90905e-28	1.000000	2.90905e-28	1.000000

rad56	7.82969e-29	1.00000	7.82969e-29	1.00000
rad40syn	3.04195e-30	1.00000	3.04195e-30	1.00000
rad40anti	2.47477e-30	1.00000	2.47477e-30	1.00000
PAH8+H	1.11397e-31	1.00000	1.11397e-31	1.00000
rad19syn	3.33334e-32	1.00000	3.33334e-32	1.00000
rad73	2.65059e-32	1.00000	2.65059e-32	1.00000
rad71	2.11231e-35	1.00000	2.11231e-35	1.00000
rad8	3.11051e-43	1.00000	3.11051e-43	1.00000

10000.0000 Pa, 170.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	9.49598e-15 (1.00)	9.49598e-15 (1.00)
Formation of rad19	9.49586e-15 (1.000)	9.49586e-15 (1.000)
H-abstraction to cyc2enyl	1.24279e-19 (1.31e-05)	1.24279e-19 (1.31e-05)
H-abstraction to cyclenyl	6.08025e-24 (6.40e-10)	6.08025e-24 (6.40e-10)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.971800	0.971800	0.971800	0.971800
Indene+H	0.0258942	0.997694	0.0258942	0.997694
rad15	0.00228768	0.999982	0.00228768	0.999982
Benzene+cycloprop-2-enylidene	1.30875e-05	0.999995	1.30875e-05	0.999995
PhCHCCH2+H	4.11535e-06	0.999999	4.11535e-06	0.999999
rad6	1.66739e-07	0.999999	1.66739e-07	0.999999
rad2	1.52618e-07	1.000000	1.52618e-07	1.000000
rad11	2.81184e-08	1.000000	2.81184e-08	1.000000
rad26	2.49424e-08	1.000000	2.49424e-08	1.000000
rad12	1.76085e-08	1.000000	1.76085e-08	1.000000
rad19anti	1.74301e-08	1.000000	1.74301e-08	1.000000
C2H2+PhCH2	1.72345e-08	1.000000	1.72345e-08	1.000000
rad23	1.31424e-08	1.000000	1.31424e-08	1.000000
rad22	1.15032e-08	1.000000	1.15032e-08	1.000000
rad1	1.02628e-08	1.000000	1.02628e-08	1.000000
rad10	9.30521e-09	1.000000	9.30521e-09	1.000000
rad67	8.69428e-09	1.000000	8.69428e-09	1.000000
rad45	5.38555e-09	1.000000	5.38555e-09	1.000000
rad35	3.83658e-09	1.000000	3.83658e-09	1.000000
rad3	1.63744e-09	1.000000	1.63744e-09	1.000000
PhCCCH3+H	1.19322e-09	1.000000	1.19322e-09	1.000000
PhCCH+CH3	1.00421e-09	1.000000	1.00421e-09	1.000000
rad4	8.41637e-10	1.000000	8.41637e-10	1.000000
Ph+MeAc	8.24108e-10	1.000000	8.24108e-10	1.000000
Benzene+cycloprop-1-enylidene	6.40297e-10	1.000000	6.40297e-10	1.000000
rad36	3.32829e-10	1.000000	3.32829e-10	1.000000
rad7	1.71687e-10	1.000000	1.71687e-10	1.000000
rad18	1.67937e-10	1.000000	1.67937e-10	1.000000
Ph+Allene	1.58450e-10	1.000000	1.58450e-10	1.000000
rad30	6.49582e-11	1.000000	6.49582e-11	1.000000
rad5	3.10156e-11	1.000000	3.10156e-11	1.000000
PhCH2CCH+H	2.95561e-11	1.000000	2.95561e-11	1.000000
rad20	1.27992e-11	1.000000	1.27992e-11	1.000000
rad21	8.77253e-12	1.000000	8.77253e-12	1.000000
PhcycC3H3_A+H	7.53086e-12	1.000000	7.53086e-12	1.000000
rad28	1.43557e-12	1.000000	1.43557e-12	1.000000
rad13	1.38527e-12	1.000000	1.38527e-12	1.000000
rad27	1.18648e-12	1.000000	1.18648e-12	1.000000
rad25	8.87455e-13	1.000000	8.87455e-13	1.000000
rad14	7.30682e-13	1.000000	7.30682e-13	1.000000
rad37	6.77499e-13	1.000000	6.77499e-13	1.000000
rad60syn	2.95215e-13	1.000000	2.95215e-13	1.000000
rad60anti	1.45107e-13	1.000000	1.45107e-13	1.000000
PAH3+H	1.33052e-13	1.000000	1.33052e-13	1.000000
PAH7+H	1.00260e-13	1.000000	1.00260e-13	1.000000
Phenyl+cycC3H4	5.71865e-14	1.000000	0.00000	1.000000
rad38	3.26353e-14	1.000000	3.26353e-14	1.000000
PAH9+H	3.09035e-14	1.000000	3.09035e-14	1.000000
rad59	2.69613e-14	1.000000	2.69613e-14	1.000000
PhcycC3H3_B+H	1.50835e-14	1.000000	1.50835e-14	1.000000
rad46	1.99781e-15	1.000000	1.99781e-15	1.000000
rad33	1.90686e-15	1.000000	1.90686e-15	1.000000
PAH10+CH3	1.11295e-15	1.000000	1.11295e-15	1.000000
rad43	1.74712e-16	1.000000	1.74712e-16	1.000000
rad24	1.73282e-16	1.000000	1.73282e-16	1.000000
rad39	9.02102e-17	1.000000	9.02102e-17	1.000000
rad62	1.42645e-17	1.000000	1.42645e-17	1.000000
rad50	1.36028e-17	1.000000	1.36028e-17	1.000000
rad70	9.81774e-18	1.000000	9.81774e-18	1.000000
rad31	4.24624e-18	1.000000	4.24624e-18	1.000000

rad58	3.25982e-18	1.000000	3.25982e-18	1.000000
rad54	7.17345e-19	1.000000	7.17345e-19	1.000000
rad34	1.75929e-19	1.000000	1.75929e-19	1.000000
PAH1+H	1.45194e-19	1.000000	1.45194e-19	1.000000
rad52	9.94817e-20	1.000000	9.94817e-20	1.000000
rad51	3.10613e-20	1.000000	3.10613e-20	1.000000
rad41	1.51752e-20	1.000000	1.51752e-20	1.000000
rad55	6.89090e-21	1.000000	6.89090e-21	1.000000
rad42	4.06103e-21	1.000000	4.06103e-21	1.000000
rad65	2.23209e-22	1.000000	2.23209e-22	1.000000
rad47	8.90921e-25	1.000000	8.90921e-25	1.000000
rad53	3.17176e-25	1.000000	3.17176e-25	1.000000
rad61	3.04991e-25	1.000000	3.04991e-25	1.000000
rad68syn	9.92465e-27	1.000000	9.92465e-27	1.000000
rad68anti	7.75876e-27	1.000000	7.75876e-27	1.000000
rad64	1.04699e-27	1.000000	1.04699e-27	1.000000
rad56	3.74628e-28	1.000000	3.74628e-28	1.000000
rad40syn	2.36435e-29	1.000000	2.36435e-29	1.000000
rad40anti	1.93576e-29	1.000000	1.93576e-29	1.000000
PAH8+H	1.21107e-30	1.000000	1.21107e-30	1.000000
rad73	1.93317e-31	1.000000	1.93317e-31	1.000000
rad19syn	9.14047e-32	1.000000	9.14047e-32	1.000000
rad71	2.67618e-34	1.000000	2.67618e-34	1.000000
rad8	3.07002e-43	1.000000	3.07002e-43	1.000000

10000.0000 Pa, 180.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.12884e-14 (1.00)	1.12884e-14 (1.00)
Formation of rad19	1.12881e-14 (1.000)	1.12881e-14 (1.000)
H-abstraction to cyc2enyl	2.75916e-19 (2.44e-05)	2.75916e-19 (2.44e-05)
H-abstraction to cyclenyl	2.39955e-23 (2.13e-09)	2.39955e-23 (2.13e-09)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.969735	0.969735	0.969735	0.969735
Indene+H	0.0279736	0.997709	0.0279736	0.997709
rad15	0.00226150	0.999970	0.00226150	0.999970
Benzene+cycloprop-2-enylidene	2.44424e-05	0.999995	2.44424e-05	0.999995
PhCHCCH2+H	4.64432e-06	1.000000	4.64432e-06	1.000000
rad6	1.92205e-07	1.000000	1.92205e-07	1.000000
rad2	1.71695e-07	1.000000	1.71695e-07	1.000000
rad26	2.82325e-08	1.000000	2.82325e-08	1.000000
rad11	2.79175e-08	1.000000	2.79175e-08	1.000000
C2H2+PhCH2	1.99632e-08	1.000000	1.99632e-08	1.000000
rad12	1.72226e-08	1.000000	1.72226e-08	1.000000
rad19anti	1.69948e-08	1.000000	1.69948e-08	1.000000
rad23	1.52406e-08	1.000000	1.52406e-08	1.000000
rad1	1.16123e-08	1.000000	1.16123e-08	1.000000
rad22	1.15701e-08	1.000000	1.15701e-08	1.000000
rad10	1.11691e-08	1.000000	1.11691e-08	1.000000
rad67	1.00274e-08	1.000000	1.00274e-08	1.000000
rad45	5.94719e-09	1.000000	5.94719e-09	1.000000
rad35	4.41283e-09	1.000000	4.41283e-09	1.000000
Benzene+cycloprop-1-enylidene	2.12567e-09	1.000000	2.12567e-09	1.000000
rad3	1.90502e-09	1.000000	1.90502e-09	1.000000
PhCCCH3+H	1.53713e-09	1.000000	1.53713e-09	1.000000
PhCCH+CH3	1.35227e-09	1.000000	1.35227e-09	1.000000
Ph+MeAc	1.08120e-09	1.000000	1.08120e-09	1.000000
rad4	9.80615e-10	1.000000	9.80615e-10	1.000000
rad36	3.68258e-10	1.000000	3.68258e-10	1.000000
rad7	1.99464e-10	1.000000	1.99464e-10	1.000000
Ph+Allene	1.95776e-10	1.000000	1.95776e-10	1.000000
rad18	1.54474e-10	1.000000	1.54474e-10	1.000000
rad30	7.50157e-11	1.000000	7.50157e-11	1.000000
PhCH2CCH+H	3.73412e-11	1.000000	3.73412e-11	1.000000
rad5	3.57529e-11	1.000000	3.57529e-11	1.000000
rad20	1.19527e-11	1.000000	1.19527e-11	1.000000
PhcycC3H3_A+H	9.82295e-12	1.000000	9.82295e-12	1.000000
rad21	8.18588e-12	1.000000	8.18588e-12	1.000000
rad28	1.92058e-12	1.000000	1.92058e-12	1.000000
rad13	1.55869e-12	1.000000	1.55869e-12	1.000000
rad27	1.30709e-12	1.000000	1.30709e-12	1.000000
rad37	8.97741e-13	1.000000	8.97741e-13	1.000000
rad25	8.68558e-13	1.000000	8.68558e-13	1.000000
rad14	8.46991e-13	1.000000	8.46991e-13	1.000000
rad60syn	3.50707e-13	1.000000	3.50707e-13	1.000000
rad60anti	1.72821e-13	1.000000	1.72821e-13	1.000000
PAH3+H	1.63815e-13	1.000000	1.63815e-13	1.000000

PAH7+H	1.27480e-13	1.00000	1.27480e-13	1.00000
Phenyl+cycC3H4	8.44531e-14	1.00000	0.00000	1.00000
rad38	4.24473e-14	1.00000	4.24473e-14	1.00000
PAH9+H	4.22963e-14	1.00000	4.22963e-14	1.00000
rad59	3.30107e-14	1.00000	3.30107e-14	1.00000
PhcycC3H3_B+H	2.77704e-14	1.00000	2.77704e-14	1.00000
rad46	2.63204e-15	1.00000	2.63204e-15	1.00000
rad33	2.13575e-15	1.00000	2.13575e-15	1.00000
PAH10+CH3	1.65484e-15	1.00000	1.65484e-15	1.00000
rad43	2.57711e-16	1.00000	2.57711e-16	1.00000
rad24	1.87301e-16	1.00000	1.87301e-16	1.00000
rad39	1.46513e-16	1.00000	1.46513e-16	1.00000
rad62	2.28922e-17	1.00000	2.28922e-17	1.00000
rad50	1.91269e-17	1.00000	1.91269e-17	1.00000
rad70	1.43276e-17	1.00000	1.43276e-17	1.00000
rad31	5.03840e-18	1.00000	5.03840e-18	1.00000
rad58	4.56023e-18	1.00000	4.56023e-18	1.00000
rad54	1.13725e-18	1.00000	1.13725e-18	1.00000
rad34	2.78940e-19	1.00000	2.78940e-19	1.00000
PAH1+H	2.52597e-19	1.00000	2.52597e-19	1.00000
rad52	1.46785e-19	1.00000	1.46785e-19	1.00000
rad51	4.84518e-20	1.00000	4.84518e-20	1.00000
rad41	2.82452e-20	1.00000	2.82452e-20	1.00000
rad55	1.17098e-20	1.00000	1.17098e-20	1.00000
rad42	7.96399e-21	1.00000	7.96399e-21	1.00000
rad65	3.85421e-22	1.00000	3.85421e-22	1.00000
rad61	1.11085e-24	1.00000	1.11085e-24	1.00000
rad47	1.06080e-24	1.00000	1.06080e-24	1.00000
rad53	8.31912e-25	1.00000	8.31912e-25	1.00000
rad68syn	4.00216e-26	1.00000	4.00216e-26	1.00000
rad68anti	3.10616e-26	1.00000	3.10616e-26	1.00000
rad64	3.65223e-27	1.00000	3.65223e-27	1.00000
rad56	1.62845e-27	1.00000	1.62845e-27	1.00000
rad40syn	1.55282e-28	1.00000	1.55282e-28	1.00000
rad40anti	1.27920e-28	1.00000	1.27920e-28	1.00000
PAH8+H	1.06982e-29	1.00000	1.06982e-29	1.00000
rad73	1.21773e-30	1.00000	1.21773e-30	1.00000
rad19syn	2.63862e-31	1.00000	2.63862e-31	1.00000
rad71	2.72514e-33	1.00000	2.72514e-33	1.00000
rad8	3.19030e-43	1.00000	3.19030e-43	1.00000

10000.0000 Pa, 190.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.32132e-14 (1.00)	1.32132e-14 (1.00)
Formation of rad19	1.32126e-14 (1.000)	1.32126e-14 (1.000)
H-abstraction to cyc2enyl	5.62053e-19 (4.25e-05)	5.62053e-19 (4.25e-05)
H-abstraction to cyclenyl	8.18073e-23 (6.19e-09)	8.18073e-23 (6.19e-09)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.967549	0.967549	0.967549	0.967549
Indene+H	0.0301664	0.997715	0.0301664	0.997715
rad15	0.00223670	0.999952	0.00223670	0.999952
Benzene+cycloprop-2-enylidene	4.25373e-05	0.999994	4.25373e-05	0.999994
PhCHCCH2+H	5.24636e-06	1.000000	5.24636e-06	1.000000
rad6	2.21341e-07	1.000000	2.21341e-07	1.000000
rad2	1.93243e-07	1.000000	1.93243e-07	1.000000
rad26	3.19914e-08	1.000000	3.19914e-08	1.000000
rad11	2.76589e-08	1.000000	2.76589e-08	1.000000
C2H2+PhCH2	2.31520e-08	1.000000	2.31520e-08	1.000000
rad23	1.76274e-08	1.000000	1.76274e-08	1.000000
rad12	1.68831e-08	1.000000	1.68831e-08	1.000000
rad19anti	1.66291e-08	1.000000	1.66291e-08	1.000000
rad10	1.33791e-08	1.000000	1.33791e-08	1.000000
rad1	1.31536e-08	1.000000	1.31536e-08	1.000000
rad22	1.16029e-08	1.000000	1.16029e-08	1.000000
rad67	1.15839e-08	1.000000	1.15839e-08	1.000000
rad45	6.57399e-09	1.000000	6.57399e-09	1.000000
Benzene+cycloprop-1-enylidene	6.19133e-09	1.000000	6.19133e-09	1.000000
rad35	5.08325e-09	1.000000	5.08325e-09	1.000000
rad3	2.21009e-09	1.000000	2.21009e-09	1.000000
PhCCCH3+H	1.98700e-09	1.000000	1.98700e-09	1.000000
PhCCH+CH3	1.81987e-09	1.000000	1.81987e-09	1.000000
Ph+MeAc	1.42497e-09	1.000000	1.42497e-09	1.000000
rad4	1.13954e-09	1.000000	1.13954e-09	1.000000
rad36	4.08018e-10	1.000000	4.08018e-10	1.000000
Ph+Allene	2.42423e-10	1.000000	2.42423e-10	1.000000
rad7	2.31321e-10	1.000000	2.31321e-10	1.000000

rad18	1.42768e-10	1.00000	1.42768e-10	1.00000
rad30	8.67586e-11	1.00000	8.67586e-11	1.00000
PhCH2CCH+H	4.73356e-11	1.00000	4.73356e-11	1.00000
rad5	4.11867e-11	1.00000	4.11867e-11	1.00000
PhcycC3H3_A+H	1.28885e-11	1.00000	1.28885e-11	1.00000
rad20	1.11958e-11	1.00000	1.11958e-11	1.00000
rad21	7.66157e-12	1.00000	7.66157e-12	1.00000
rad28	2.57398e-12	1.00000	2.57398e-12	1.00000
rad13	1.75473e-12	1.00000	1.75473e-12	1.00000
rad27	1.44277e-12	1.00000	1.44277e-12	1.00000
rad37	1.19671e-12	1.00000	1.19671e-12	1.00000
rad14	9.78754e-13	1.00000	9.78754e-13	1.00000
rad25	8.49096e-13	1.00000	8.49096e-13	1.00000
rad60syn	4.17902e-13	1.00000	4.17902e-13	1.00000
rad60anti	2.06484e-13	1.00000	2.06484e-13	1.00000
PAH3+H	2.02722e-13	1.00000	2.02722e-13	1.00000
PAH7+H	1.62632e-13	1.00000	1.62632e-13	1.00000
Phenyl+cycC3H4	1.24598e-13	1.00000	0.00000	1.00000
PAH9+H	5.79496e-14	1.00000	5.79496e-14	1.00000
rad38	5.54363e-14	1.00000	5.54363e-14	1.00000
PhcycC3H3_B+H	4.96720e-14	1.00000	4.96720e-14	1.00000
rad59	4.06087e-14	1.00000	4.06087e-14	1.00000
rad46	3.48264e-15	1.00000	3.48264e-15	1.00000
PAH10+CH3	2.49227e-15	1.00000	2.49227e-15	1.00000
rad33	2.39495e-15	1.00000	2.39495e-15	1.00000
rad43	3.83975e-16	1.00000	3.83975e-16	1.00000
rad39	2.40276e-16	1.00000	2.40276e-16	1.00000
rad24	2.03099e-16	1.00000	2.03099e-16	1.00000
rad62	3.68537e-17	1.00000	3.68537e-17	1.00000
rad50	2.71221e-17	1.00000	2.71221e-17	1.00000
rad70	2.10654e-17	1.00000	2.10654e-17	1.00000
rad58	6.44169e-18	1.00000	6.44169e-18	1.00000
rad31	6.00627e-18	1.00000	6.00627e-18	1.00000
rad54	1.82292e-18	1.00000	1.82292e-18	1.00000
PAH1+H	4.45754e-19	1.00000	4.45754e-19	1.00000
rad34	4.45390e-19	1.00000	4.45390e-19	1.00000
rad52	2.18967e-19	1.00000	2.18967e-19	1.00000
rad51	7.65748e-20	1.00000	7.65748e-20	1.00000
rad41	5.29227e-20	1.00000	5.29227e-20	1.00000
rad55	2.01385e-20	1.00000	2.01385e-20	1.00000
rad42	1.55791e-20	1.00000	1.55791e-20	1.00000
rad65	6.72945e-22	1.00000	6.72945e-22	1.00000
rad61	3.78369e-24	1.00000	3.78369e-24	1.00000
rad53	2.14173e-24	1.00000	2.14173e-24	1.00000
rad47	1.27004e-24	1.00000	1.27004e-24	1.00000
rad68syn	1.46300e-25	1.00000	1.46300e-25	1.00000
rad68anti	1.12695e-25	1.00000	1.12695e-25	1.00000
rad64	1.23758e-26	1.00000	1.23758e-26	1.00000
rad56	6.52046e-27	1.00000	6.52046e-27	1.00000
rad40syn	8.81317e-28	1.00000	8.81317e-28	1.00000
rad40anti	7.30295e-28	1.00000	7.30295e-28	1.00000
PAH8+H	7.87866e-29	1.00000	7.87866e-29	1.00000
rad73	6.75608e-30	1.00000	6.75608e-30	1.00000
rad19syn	8.01975e-31	1.00000	8.01975e-31	1.00000
rad71	2.28897e-32	1.00000	2.28897e-32	1.00000
rad8	3.47403e-43	1.00000	3.47403e-43	1.00000

10000.0000 Pa, 200.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.52621e-14 (1.00)	1.52621e-14 (1.00)
Formation of rad19	1.52610e-14 (1.000)	1.52610e-14 (1.000)
H-abstraction to cyc2enyl	1.06427e-18 (6.97e-05)	1.06427e-18 (6.97e-05)
H-abstraction to cyc1enyl	2.46309e-22 (1.61e-08)	2.46309e-22 (1.61e-08)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.965224	0.965224	0.965224	0.965224
Indene+H	0.0324870	0.997711	0.0324870	0.997711
rad15	0.00221305	0.999924	0.00221305	0.999924
Benzene+cycloprop-2-enylidene	6.97330e-05	0.999993	6.97330e-05	0.999993
PhCHCCH2+H	5.93527e-06	0.999999	5.93527e-06	0.999999
rad6	2.54838e-07	1.000000	2.54838e-07	1.000000
rad2	2.17678e-07	1.000000	2.17678e-07	1.000000
rad26	3.63086e-08	1.000000	3.63086e-08	1.000000
rad11	2.73507e-08	1.000000	2.73507e-08	1.000000
C2H2+PhCH2	2.69001e-08	1.000000	2.69001e-08	1.000000
rad23	2.03507e-08	1.000000	2.03507e-08	1.000000
rad12	1.65839e-08	1.000000	1.65839e-08	1.000000

rad19anti	1.63270e-08	1.00000	1.63270e-08	1.00000
Benzene+cycloprop-1-enylidene	1.61386e-08	1.00000	1.61386e-08	1.00000
rad10	1.60021e-08	1.00000	1.60021e-08	1.00000
rad1	1.49220e-08	1.00000	1.49220e-08	1.00000
rad67	1.34118e-08	1.00000	1.34118e-08	1.00000
rad22	1.16047e-08	1.00000	1.16047e-08	1.00000
rad45	7.27781e-09	1.00000	7.27781e-09	1.00000
rad35	5.86772e-09	1.00000	5.86772e-09	1.00000
PhCCCH3+H	2.57950e-09	1.00000	2.57950e-09	1.00000
rad3	2.55838e-09	1.00000	2.55838e-09	1.00000
PhCCH+CH3	2.44970e-09	1.00000	2.44970e-09	1.00000
Ph+MeAc	1.88801e-09	1.00000	1.88801e-09	1.00000
rad4	1.32158e-09	1.00000	1.32158e-09	1.00000
rad36	4.52932e-10	1.00000	4.52932e-10	1.00000
Ph+Allene	3.01073e-10	1.00000	3.01073e-10	1.00000
rad7	2.67958e-10	1.00000	2.67958e-10	1.00000
rad18	1.32503e-10	1.00000	1.32503e-10	1.00000
rad30	1.00553e-10	1.00000	1.00553e-10	1.00000
PhCH2CCH+H	6.02515e-11	1.00000	6.02515e-11	1.00000
rad5	4.74066e-11	1.00000	4.74066e-11	1.00000
PhcycC3H3_A+H	1.69983e-11	1.00000	1.69983e-11	1.00000
rad20	1.05139e-11	1.00000	1.05139e-11	1.00000
rad21	7.18947e-12	1.00000	7.18947e-12	1.00000
rad28	3.45935e-12	1.00000	3.45935e-12	1.00000
rad13	1.97756e-12	1.00000	1.97756e-12	1.00000
rad37	1.60638e-12	1.00000	1.60638e-12	1.00000
rad27	1.59600e-12	1.00000	1.59600e-12	1.00000
rad14	1.12827e-12	1.00000	1.12827e-12	1.00000
rad25	8.29232e-13	1.00000	8.29232e-13	1.00000
rad60syn	4.99838e-13	1.00000	4.99838e-13	1.00000
PAH3+H	2.52332e-13	1.00000	2.52332e-13	1.00000
rad60anti	2.47665e-13	1.00000	2.47665e-13	1.00000
PAH7+H	2.08358e-13	1.00000	2.08358e-13	1.00000
Phenyl+cycC3H4	1.83620e-13	1.00000	0.00000	1.00000
PhcycC3H3_B+H	8.66947e-14	1.00000	8.66947e-14	1.00000
PAH9+H	7.95867e-14	1.00000	7.95867e-14	1.00000
rad38	7.27936e-14	1.00000	7.27936e-14	1.00000
rad59	5.02270e-14	1.00000	5.02270e-14	1.00000
rad46	4.63371e-15	1.00000	4.63371e-15	1.00000
PAH10+CH3	3.80291e-15	1.00000	3.80291e-15	1.00000
rad33	2.69022e-15	1.00000	2.69022e-15	1.00000
rad43	5.77921e-16	1.00000	5.77921e-16	1.00000
rad39	3.98217e-16	1.00000	3.98217e-16	1.00000
rad24	2.20992e-16	1.00000	2.20992e-16	1.00000
rad62	5.95022e-17	1.00000	5.95022e-17	1.00000
rad50	3.88266e-17	1.00000	3.88266e-17	1.00000
rad70	3.12006e-17	1.00000	3.12006e-17	1.00000
rad58	9.18797e-18	1.00000	9.18797e-18	1.00000
rad31	7.19916e-18	1.00000	7.19916e-18	1.00000
rad54	2.95493e-18	1.00000	2.95493e-18	1.00000
PAH1+H	7.96693e-19	1.00000	7.96693e-19	1.00000
rad34	7.15637e-19	1.00000	7.15637e-19	1.00000
rad52	3.30490e-19	1.00000	3.30490e-19	1.00000
rad51	1.22648e-19	1.00000	1.22648e-19	1.00000
rad41	9.96419e-20	1.00000	9.96419e-20	1.00000
rad55	3.50302e-20	1.00000	3.50302e-20	1.00000
rad42	3.03562e-20	1.00000	3.03562e-20	1.00000
rad65	1.18761e-21	1.00000	1.18761e-21	1.00000
rad61	1.21661e-23	1.00000	1.21661e-23	1.00000
rad53	5.41921e-24	1.00000	5.41921e-24	1.00000
rad47	1.53084e-24	1.00000	1.53084e-24	1.00000
rad68syn	4.91908e-25	1.00000	4.91908e-25	1.00000
rad68anti	3.76044e-25	1.00000	3.76044e-25	1.00000
rad64	4.07897e-26	1.00000	4.07897e-26	1.00000
rad56	2.43164e-26	1.00000	2.43164e-26	1.00000
rad40syn	4.40379e-27	1.00000	4.40379e-27	1.00000
rad40anti	3.66950e-27	1.00000	3.66950e-27	1.00000
PAH8+H	4.94118e-28	1.00000	4.94118e-28	1.00000
rad73	3.35393e-29	1.00000	3.35393e-29	1.00000
rad19syn	2.56581e-30	1.00000	2.56581e-30	1.00000
rad71	1.61933e-31	1.00000	1.61933e-31	1.00000
rad8	3.94958e-43	1.00000	3.94958e-43	1.00000

10000.0000 Pa, 210.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.74272e-14 (1.00)	1.74272e-14 (1.00)
Formation of rad19	1.74253e-14 (1.000)	1.74253e-14 (1.000)
H-abstraction to cyc2enyl	1.89310e-18 (0.000109)	1.89310e-18 (0.000109)

H-abstraction to cyclenyl | 6.66714e-22 (3.83e-08) 6.66714e-22 (3.83e-08)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.962742	0.962742	0.962742	0.962742
Indene+H	0.0349513	0.997694	0.0349513	0.997694
rad15	0.00219032	0.999884	0.00219032	0.999884
Benzene+cycloprop-2-enylidene	0.000108629	0.999993	0.000108629	0.999993
PhCHCCH2+H	6.72748e-06	0.999999	6.72748e-06	0.999999
rad6	2.93528e-07	1.000000	2.93528e-07	1.000000
rad2	2.45471e-07	1.000000	2.45471e-07	1.000000
rad26	4.12908e-08	1.000000	4.12908e-08	1.000000
Benzene+cycloprop-1-enylidene	3.82571e-08	1.000000	3.82571e-08	1.000000
C2H2+PhCH2	3.13297e-08	1.000000	3.13297e-08	1.000000
rad11	2.69999e-08	1.000000	2.69999e-08	1.000000
rad23	2.34669e-08	1.000000	2.34669e-08	1.000000
rad10	1.91154e-08	1.000000	1.91154e-08	1.000000
rad1	1.69587e-08	1.000000	1.69587e-08	1.000000
rad12	1.63204e-08	1.000000	1.63204e-08	1.000000
rad19anti	1.60843e-08	1.000000	1.60843e-08	1.000000
rad67	1.55699e-08	1.000000	1.55699e-08	1.000000
rad22	1.15780e-08	1.000000	1.15780e-08	1.000000
rad45	8.07236e-09	1.000000	8.07236e-09	1.000000
rad35	6.79048e-09	1.000000	6.79048e-09	1.000000
PhCCCH3+H	3.36471e-09	1.000000	3.36471e-09	1.000000
PhCCH+CH3	3.29980e-09	1.000000	3.29980e-09	1.000000
rad3	2.95642e-09	1.000000	2.95642e-09	1.000000
Ph+MeAc	2.51591e-09	1.000000	2.51591e-09	1.000000
rad4	1.53037e-09	1.000000	1.53037e-09	1.000000
rad36	5.03968e-10	1.000000	5.03968e-10	1.000000
Ph+Allene	3.75239e-10	1.000000	3.75239e-10	1.000000
rad7	3.10215e-10	1.000000	3.10215e-10	1.000000
rad18	1.23432e-10	1.000000	1.23432e-10	1.000000
rad30	1.16848e-10	1.000000	1.16848e-10	1.000000
PhCH2CCH+H	7.70451e-11	1.000000	7.70451e-11	1.000000
rad5	5.45014e-11	1.000000	5.45014e-11	1.000000
PhcycC3H3_A+H	2.25170e-11	1.000000	2.25170e-11	1.000000
rad20	9.89551e-12	1.000000	9.89551e-12	1.000000
rad21	6.76162e-12	1.000000	6.76162e-12	1.000000
rad28	4.66577e-12	1.000000	4.66577e-12	1.000000
rad13	2.23216e-12	1.000000	2.23216e-12	1.000000
rad37	2.17281e-12	1.000000	2.17281e-12	1.000000
rad27	1.76957e-12	1.000000	1.76957e-12	1.000000
rad14	1.29816e-12	1.000000	1.29816e-12	1.000000
rad25	8.09100e-13	1.000000	8.09100e-13	1.000000
rad60syn	6.00403e-13	1.000000	6.00403e-13	1.000000
PAH3+H	3.16069e-13	1.000000	3.16069e-13	1.000000
rad60anti	2.98375e-13	1.000000	2.98375e-13	1.000000
Phenyl+cycC3H4	2.70219e-13	1.000000	0.000000	1.000000
PAH7+H	2.68267e-13	1.000000	2.68267e-13	1.000000
PhcycC3H3_B+H	1.48143e-13	1.000000	1.48143e-13	1.000000
PAH9+H	1.09675e-13	1.000000	1.09675e-13	1.000000
rad38	9.62063e-14	1.000000	9.62063e-14	1.000000
rad59	6.24922e-14	1.000000	6.24922e-14	1.000000
rad46	6.20502e-15	1.000000	6.20502e-15	1.000000
PAH10+CH3	5.87795e-15	1.000000	5.87795e-15	1.000000
rad33	3.02845e-15	1.000000	3.02845e-15	1.000000
rad43	8.78291e-16	1.000000	8.78291e-16	1.000000
rad39	6.67110e-16	1.000000	6.67110e-16	1.000000
rad24	2.41344e-16	1.000000	2.41344e-16	1.000000
rad62	9.62863e-17	1.000000	9.62863e-17	1.000000
rad50	5.61492e-17	1.000000	5.61492e-17	1.000000
rad70	4.65346e-17	1.000000	4.65346e-17	1.000000
rad58	1.32278e-17	1.000000	1.32278e-17	1.000000
rad31	8.68215e-18	1.000000	8.68215e-18	1.000000
rad54	4.84232e-18	1.000000	4.84232e-18	1.000000
PAH1+H	1.43944e-18	1.000000	1.43944e-18	1.000000
rad34	1.15593e-18	1.000000	1.15593e-18	1.000000
rad52	5.04828e-19	1.000000	5.04828e-19	1.000000
rad51	1.99028e-19	1.000000	1.99028e-19	1.000000
rad41	1.88136e-19	1.000000	1.88136e-19	1.000000
rad55	6.15637e-20	1.000000	6.15637e-20	1.000000
rad42	5.88291e-20	1.000000	5.88291e-20	1.000000
rad65	2.11645e-21	1.000000	2.11645e-21	1.000000
rad61	3.71960e-23	1.000000	3.71960e-23	1.000000
rad53	1.34874e-23	1.000000	1.34874e-23	1.000000
rad47	1.85996e-24	1.000000	1.85996e-24	1.000000
rad68syn	1.53914e-24	1.000000	1.53914e-24	1.000000
rad68anti	1.16781e-24	1.000000	1.16781e-24	1.000000
rad64	1.30790e-25	1.000000	1.30790e-25	1.000000

rad56	8.51572e-26	1.00000	8.51572e-26	1.00000
rad40syn	1.96625e-26	1.00000	1.96625e-26	1.00000
rad40anti	1.64701e-26	1.00000	1.64701e-26	1.00000
PAH8+H	2.68460e-27	1.00000	2.68460e-27	1.00000
rad73	1.50763e-28	1.00000	1.50763e-28	1.00000
rad19syn	8.63574e-30	1.00000	8.63574e-30	1.00000
rad71	9.81278e-31	1.00000	9.81278e-31	1.00000
rad8	4.67501e-43	1.00000	4.67501e-43	1.00000

10000.0000 Pa, 220.000000 K

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Rate constant          | True (fraction)          Effective (fraction)
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Total                  | 1.97009e-14 (1.00   )  1.97009e-14 (1.00   )
Formation of rad19    | 1.96977e-14 (1.000  )  1.96977e-14 (1.000  )
H-abstraction to cyc2enyl | 3.19064e-18 (0.000162) 3.19064e-18 (0.000162)
H-abstraction to cyclenyl | 1.64627e-21 (8.36e-08) 1.64627e-21 (8.36e-08)

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species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.960085	0.960085	0.960085	0.960085
Indene+H	0.0375760	0.997661	0.0375760	0.997661
rad15	0.00216836	0.999830	0.00216836	0.999830
Benzene+cycloprop-2-enylidene	0.000161954	0.999992	0.000161954	0.999992
PhCHCCH2+H	7.64261e-06	0.999999	7.64261e-06	0.999999
rad6	3.38407e-07	1.000000	3.38407e-07	1.000000
rad2	2.77156e-07	1.000000	2.77156e-07	1.000000
Benzene+cycloprop-1-enylidene	8.35632e-08	1.000000	8.35632e-08	1.000000
rad26	4.70656e-08	1.000000	4.70656e-08	1.000000
C2H2+PhCH2	3.65906e-08	1.000000	3.65906e-08	1.000000
rad23	2.70420e-08	1.000000	2.70420e-08	1.000000
rad11	2.66125e-08	1.000000	2.66125e-08	1.000000
rad10	2.28090e-08	1.000000	2.28090e-08	1.000000
rad1	1.93116e-08	1.000000	1.93116e-08	1.000000
rad67	1.81301e-08	1.000000	1.81301e-08	1.000000
rad12	1.60886e-08	1.000000	1.60886e-08	1.000000
rad19anti	1.58985e-08	1.000000	1.58985e-08	1.000000
rad22	1.15254e-08	1.000000	1.15254e-08	1.000000
rad45	8.97348e-09	1.000000	8.97348e-09	1.000000
rad35	7.88114e-09	1.000000	7.88114e-09	1.000000
PhCCH+CH3	4.44899e-09	1.000000	4.44899e-09	1.000000
PhCCCH3+H	4.41105e-09	1.000000	4.41105e-09	1.000000
rad3	3.41160e-09	1.000000	3.41160e-09	1.000000
Ph+MeAc	3.37234e-09	1.000000	3.37234e-09	1.000000
rad4	1.77006e-09	1.000000	1.77006e-09	1.000000
rad36	5.62255e-10	1.000000	5.62255e-10	1.000000
Ph+Allene	4.69517e-10	1.000000	4.69517e-10	1.000000
rad7	3.59105e-10	1.000000	3.59105e-10	1.000000
rad30	1.36198e-10	1.000000	1.36198e-10	1.000000
rad18	1.15360e-10	1.000000	1.15360e-10	1.000000
PhCH2CCH+H	9.90029e-11	1.000000	9.90029e-11	1.000000
rad5	6.25553e-11	1.000000	6.25553e-11	1.000000
PhcycC3H3_A+H	2.99330e-11	1.000000	2.99330e-11	1.000000
rad20	9.33164e-12	1.000000	9.33164e-12	1.000000
rad21	6.37178e-12	1.000000	6.37178e-12	1.000000
rad28	6.31823e-12	1.000000	6.31823e-12	1.000000
rad37	2.96268e-12	1.000000	2.96268e-12	1.000000
rad13	2.52437e-12	1.000000	2.52437e-12	1.000000
rad27	1.96660e-12	1.000000	1.96660e-12	1.000000
rad14	1.49134e-12	1.000000	1.49134e-12	1.000000
rad25	7.88815e-13	1.000000	7.88815e-13	1.000000
rad60syn	7.24573e-13	1.000000	7.24573e-13	1.000000
PAH3+H	3.98520e-13	1.000000	3.98520e-13	1.000000
Phenyl+cycC3H4	3.96946e-13	1.000000	0.000000	1.000000
rad60anti	3.61197e-13	1.000000	3.61197e-13	1.000000
PAH7+H	3.47299e-13	1.000000	3.47299e-13	1.000000
PhcycC3H3_B+H	2.48482e-13	1.000000	2.48482e-13	1.000000
PAH9+H	1.51754e-13	1.000000	1.51754e-13	1.000000
rad38	1.28078e-13	1.000000	1.28078e-13	1.000000
rad59	7.82373e-14	1.000000	7.82373e-14	1.000000
PAH10+CH3	9.19704e-15	1.000000	9.19704e-15	1.000000
rad46	8.36809e-15	1.000000	8.36809e-15	1.000000
rad33	3.41775e-15	1.000000	3.41775e-15	1.000000
rad43	1.34658e-15	1.000000	1.34658e-15	1.000000
rad39	1.12928e-15	1.000000	1.12928e-15	1.000000
rad24	2.64582e-16	1.000000	2.64582e-16	1.000000
rad62	1.56016e-16	1.000000	1.56016e-16	1.000000
rad50	8.20522e-17	1.000000	8.20522e-17	1.000000
rad70	6.98421e-17	1.000000	6.98421e-17	1.000000
rad58	1.92098e-17	1.000000	1.92098e-17	1.000000

rad31	1.05419e-17	1.00000	1.05419e-17	1.00000
rad54	8.01597e-18	1.00000	8.01597e-18	1.00000
PAH1+H	2.62350e-18	1.00000	2.62350e-18	1.00000
rad34	1.87487e-18	1.00000	1.87487e-18	1.00000
rad52	7.80307e-19	1.00000	7.80307e-19	1.00000
rad41	3.55478e-19	1.00000	3.55478e-19	1.00000
rad51	3.26995e-19	1.00000	3.26995e-19	1.00000
rad42	1.13227e-19	1.00000	1.13227e-19	1.00000
rad55	1.09160e-19	1.00000	1.09160e-19	1.00000
rad65	3.80367e-21	1.00000	3.80367e-21	1.00000
rad61	1.08688e-22	1.00000	1.08688e-22	1.00000
rad53	3.30244e-23	1.00000	3.30244e-23	1.00000
rad68syn	4.52255e-24	1.00000	4.52255e-24	1.00000
rad68anti	3.40678e-24	1.00000	3.40678e-24	1.00000
rad47	2.28069e-24	1.00000	2.28069e-24	1.00000
rad64	4.07506e-25	1.00000	4.07506e-25	1.00000
rad56	2.81629e-25	1.00000	2.81629e-25	1.00000
rad40syn	7.93533e-26	1.00000	7.93533e-26	1.00000
rad40anti	6.67981e-26	1.00000	6.67981e-26	1.00000
PAH8+H	1.28137e-26	1.00000	1.28137e-26	1.00000
rad73	6.18930e-28	1.00000	6.18930e-28	1.00000
rad19syn	3.05447e-29	1.00000	3.05447e-29	1.00000
rad71	5.16702e-30	1.00000	5.16702e-30	1.00000
rad8	5.75036e-43	1.00000	5.75036e-43	1.00000

10000.0000 Pa, 230.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.20761e-14 (1.00)	2.20761e-14 (1.00)
Formation of rad19	2.20710e-14 (1.000)	2.20710e-14 (1.000)
H-abstraction to cyc2enyl	5.13155e-18 (0.000232)	5.13155e-18 (0.000232)
H-abstraction to cyclenyl	3.75316e-21 (1.70e-07)	3.75316e-21 (1.70e-07)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.957231	0.957231	0.957231	0.957231
Indene+H	0.0403791	0.997610	0.0403791	0.997610
rad15	0.00214700	0.999757	0.00214700	0.999757
Benzene+cycloprop-2-enylidene	0.000232448	0.999990	0.000232448	0.999990
PhCHCCH2+H	8.70406e-06	0.999999	8.70406e-06	0.999999
rad6	3.90673e-07	0.999999	3.90673e-07	0.999999
rad2	3.13329e-07	0.999999	3.13329e-07	0.999999
Benzene+cycloprop-1-enylidene	1.70010e-07	0.999999	1.70010e-07	0.999999
rad26	5.37848e-08	0.999999	5.37848e-08	0.999999
C2H2+PhCH2	4.28670e-08	1.000000	4.28670e-08	1.000000
rad23	3.11519e-08	1.000000	3.11519e-08	1.000000
rad10	2.71844e-08	1.000000	2.71844e-08	1.000000
rad11	2.61946e-08	1.000000	2.61946e-08	1.000000
rad1	2.20365e-08	1.000000	2.20365e-08	1.000000
rad67	2.11806e-08	1.000000	2.11806e-08	1.000000
rad12	1.58854e-08	1.000000	1.58854e-08	1.000000
rad19anti	1.57685e-08	1.000000	1.57685e-08	1.000000
rad22	1.14492e-08	1.000000	1.14492e-08	1.000000
rad45	9.99937e-09	1.000000	9.99937e-09	1.000000
rad35	9.17585e-09	1.000000	9.17585e-09	1.000000
PhCCH+CH3	6.00377e-09	1.000000	6.00377e-09	1.000000
PhCCCH3+H	5.81174e-09	1.000000	5.81174e-09	1.000000
Ph+MeAc	4.54617e-09	1.000000	4.54617e-09	1.000000
rad3	3.93213e-09	1.000000	3.93213e-09	1.000000
rad4	2.04532e-09	1.000000	2.04532e-09	1.000000
rad36	6.29117e-10	1.000000	6.29117e-10	1.000000
Ph+Allene	5.89933e-10	1.000000	5.89933e-10	1.000000
rad7	4.15836e-10	1.000000	4.15836e-10	1.000000
rad30	1.59282e-10	1.000000	1.59282e-10	1.000000
PhCH2CCH+H	1.27856e-10	1.000000	1.27856e-10	1.000000
rad18	1.08134e-10	1.000000	1.08134e-10	1.000000
rad5	7.16427e-11	1.000000	7.16427e-11	1.000000
PhcycC3H3_A+H	3.98992e-11	1.000000	3.98992e-11	1.000000
rad20	8.81514e-12	1.000000	8.81514e-12	1.000000
rad28	8.59228e-12	1.000000	8.59228e-12	1.000000
rad21	6.01497e-12	1.000000	6.01497e-12	1.000000
rad37	4.07276e-12	1.000000	4.07276e-12	1.000000
rad13	2.86111e-12	1.000000	2.86111e-12	1.000000
rad27	2.19055e-12	1.000000	2.19055e-12	1.000000
rad14	1.71106e-12	1.000000	1.71106e-12	1.000000
rad60syn	8.78728e-13	1.000000	8.78728e-13	1.000000
rad25	7.68482e-13	1.000000	7.68482e-13	1.000000
Phenyl+cycC3H4	5.81817e-13	1.000000	0.00000	1.000000
PAH3+H	5.05861e-13	1.000000	5.05861e-13	1.000000

PAH7+H	4.52262e-13	1.000000	4.52262e-13	1.000000
rad60anti	4.39459e-13	1.000000	4.39459e-13	1.000000
PhcycC3H3_B+H	4.09922e-13	1.000000	4.09922e-13	1.000000
PAH9+H	2.10920e-13	1.000000	2.10920e-13	1.000000
rad38	1.71854e-13	1.000000	1.71854e-13	1.000000
rad59	9.85731e-14	1.000000	9.85731e-14	1.000000
PAH10+CH3	1.45532e-14	1.000000	1.45532e-14	1.000000
rad46	1.13696e-14	1.000000	1.13696e-14	1.000000
rad33	3.86780e-15	1.000000	3.86780e-15	1.000000
rad43	2.08025e-15	1.000000	2.08025e-15	1.000000
rad39	1.93014e-15	1.000000	1.93014e-15	1.000000
rad24	2.91201e-16	1.000000	2.91201e-16	1.000000
rad62	2.52850e-16	1.000000	2.52850e-16	1.000000
rad50	1.21155e-16	1.000000	1.21155e-16	1.000000
rad70	1.05395e-16	1.000000	1.05395e-16	1.000000
rad58	2.81170e-17	1.000000	2.81170e-17	1.000000
rad54	1.33902e-17	1.000000	1.33902e-17	1.000000
rad31	1.28943e-17	1.000000	1.28943e-17	1.000000
PAH1+H	4.81250e-18	1.000000	4.81250e-18	1.000000
rad34	3.04992e-18	1.000000	3.04992e-18	1.000000
rad52	1.21984e-18	1.000000	1.21984e-18	1.000000
rad41	6.70704e-19	1.000000	6.70704e-19	1.000000
rad51	5.43351e-19	1.000000	5.43351e-19	1.000000
rad42	2.16129e-19	1.000000	2.16129e-19	1.000000
rad55	1.94966e-19	1.000000	1.94966e-19	1.000000
rad65	6.88279e-21	1.000000	6.88279e-21	1.000000
rad61	3.04516e-22	1.000000	3.04516e-22	1.000000
rad53	7.95133e-23	1.000000	7.95133e-23	1.000000
rad68syn	1.25650e-23	1.000000	1.25650e-23	1.000000
rad68anti	9.40109e-24	1.000000	9.40109e-24	1.000000
rad47	2.82582e-24	1.000000	2.82582e-24	1.000000
rad64	1.23055e-24	1.000000	1.23055e-24	1.000000
rad56	8.82442e-25	1.000000	8.82442e-25	1.000000
rad40syn	2.92056e-25	1.000000	2.92056e-25	1.000000
rad40anti	2.46987e-25	1.000000	2.46987e-25	1.000000
PAH8+H	5.43620e-26	1.000000	5.43620e-26	1.000000
rad73	2.33482e-27	1.000000	2.33482e-27	1.000000
rad19syn	1.13368e-28	1.000000	1.13368e-28	1.000000
rad71	2.39401e-29	1.000000	2.39401e-29	1.000000
rad8	7.34270e-43	1.000000	7.34270e-43	1.000000

10000.0000 Pa, 240.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.45462e-14 (1.00)	2.45462e-14 (1.00)
Formation of rad19	2.45383e-14 (1.000)	2.45383e-14 (1.000)
H-abstraction to cyc2enyl	7.92234e-18 (0.000323)	7.92234e-18 (0.000323)
H-abstraction to cyclenyl	7.97958e-21 (3.25e-07)	7.97958e-21 (3.25e-07)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.954160	0.954160	0.954160	0.954160
Indene+H	0.0433801	0.997540	0.0433801	0.997540
rad15	0.00212610	0.999666	0.00212610	0.999666
Benzene+cycloprop-2-enylidene	0.000322752	0.999989	0.000322752	0.999989
PhCHCCH2+H	9.93974e-06	0.999999	9.93974e-06	0.999999
rad6	4.51756e-07	0.999999	4.51756e-07	0.999999
rad2	3.54652e-07	0.999999	3.54652e-07	0.999999
Benzene+cycloprop-1-enylidene	3.25084e-07	1.000000	3.25084e-07	1.000000
rad26	6.16290e-08	1.000000	6.16290e-08	1.000000
C2H2+PhCH2	5.03853e-08	1.000000	5.03853e-08	1.000000
rad23	3.58843e-08	1.000000	3.58843e-08	1.000000
rad10	3.23558e-08	1.000000	3.23558e-08	1.000000
rad11	2.57517e-08	1.000000	2.57517e-08	1.000000
rad1	2.51973e-08	1.000000	2.51973e-08	1.000000
rad67	2.48295e-08	1.000000	2.48295e-08	1.000000
rad12	1.57086e-08	1.000000	1.57086e-08	1.000000
rad19anti	1.56946e-08	1.000000	1.56946e-08	1.000000
rad22	1.13516e-08	1.000000	1.13516e-08	1.000000
rad45	1.11710e-08	1.000000	1.11710e-08	1.000000
rad35	1.07187e-08	1.000000	1.07187e-08	1.000000
PhCCH+CH3	8.10747e-09	1.000000	8.10747e-09	1.000000
PhCCCH3+H	7.69365e-09	1.000000	7.69365e-09	1.000000
Ph+MeAc	6.16110e-09	1.000000	6.16110e-09	1.000000
rad3	4.52708e-09	1.000000	4.52708e-09	1.000000
rad4	2.36138e-09	1.000000	2.36138e-09	1.000000
Ph+Allene	7.44395e-10	1.000000	7.44395e-10	1.000000
rad36	7.06100e-10	1.000000	7.06100e-10	1.000000
rad7	4.81856e-10	1.000000	4.81856e-10	1.000000

rad30	1.86936e-10	1.000000	1.86936e-10	1.000000
PhCH2CCH+H	1.65939e-10	1.000000	1.65939e-10	1.000000
rad18	1.01629e-10	1.000000	1.01629e-10	1.000000
rad5	8.18227e-11	1.000000	8.18227e-11	1.000000
PhcycC3H3_A+H	5.32842e-11	1.000000	5.32842e-11	1.000000
rad28	1.17347e-11	1.000000	1.17347e-11	1.000000
rad20	8.34026e-12	1.000000	8.34026e-12	1.000000
rad21	5.68720e-12	1.000000	5.68720e-12	1.000000
rad37	5.64400e-12	1.000000	5.64400e-12	1.000000
rad13	3.25057e-12	1.000000	3.25057e-12	1.000000
rad27	2.44522e-12	1.000000	2.44522e-12	1.000000
rad14	1.96091e-12	1.000000	1.96091e-12	1.000000
rad60syn	1.07106e-12	1.000000	1.07106e-12	1.000000
Phenyl+cycC3H4	8.50530e-13	1.000000	0.00000	1.000000
rad25	7.48200e-13	1.000000	7.48200e-13	1.000000
PhcycC3H3_B+H	6.66144e-13	1.000000	6.66144e-13	1.000000
PAH3+H	6.46399e-13	1.000000	6.46399e-13	1.000000
PAH7+H	5.92601e-13	1.000000	5.92601e-13	1.000000
rad60anti	5.37440e-13	1.000000	5.37440e-13	1.000000
PAH9+H	2.94513e-13	1.000000	2.94513e-13	1.000000
rad38	2.32491e-13	1.000000	2.32491e-13	1.000000
rad59	1.24983e-13	1.000000	1.24983e-13	1.000000
PAH10+CH3	2.32597e-14	1.000000	2.32597e-14	1.000000
rad46	1.55653e-14	1.000000	1.55653e-14	1.000000
rad33	4.39014e-15	1.000000	4.39014e-15	1.000000
rad39	3.32695e-15	1.000000	3.32695e-15	1.000000
rad43	3.23323e-15	1.000000	3.23323e-15	1.000000
rad62	4.09364e-16	1.000000	4.09364e-16	1.000000
rad24	3.21773e-16	1.000000	3.21773e-16	1.000000
rad50	1.80694e-16	1.000000	1.80694e-16	1.000000
rad70	1.59764e-16	1.000000	1.59764e-16	1.000000
rad58	4.14384e-17	1.000000	4.14384e-17	1.000000
rad54	2.25401e-17	1.000000	2.25401e-17	1.000000
rad31	1.58962e-17	1.000000	1.58962e-17	1.000000
PAH1+H	8.86359e-18	1.000000	8.86359e-18	1.000000
rad34	4.97007e-18	1.000000	4.97007e-18	1.000000
rad52	1.92701e-18	1.000000	1.92701e-18	1.000000
rad41	1.26089e-18	1.000000	1.26089e-18	1.000000
rad51	9.11888e-19	1.000000	9.11888e-19	1.000000
rad42	4.08594e-19	1.000000	4.08594e-19	1.000000
rad55	3.50107e-19	1.000000	3.50107e-19	1.000000
rad65	1.25169e-20	1.000000	1.25169e-20	1.000000
rad61	8.19274e-22	1.000000	8.19274e-22	1.000000
rad53	1.88009e-22	1.000000	1.88009e-22	1.000000
rad68syn	3.31686e-23	1.000000	3.31686e-23	1.000000
rad68anti	2.46623e-23	1.000000	2.46623e-23	1.000000
rad64	3.58827e-24	1.000000	3.58827e-24	1.000000
rad47	3.54227e-24	1.000000	3.54227e-24	1.000000
rad56	2.62345e-24	1.000000	2.62345e-24	1.000000
rad40syn	9.87152e-25	1.000000	9.87152e-25	1.000000
rad40anti	8.38424e-25	1.000000	8.38424e-25	1.000000
PAH8+H	2.07067e-25	1.000000	2.07067e-25	1.000000
rad73	8.13040e-27	1.000000	8.13040e-27	1.000000
rad19syn	4.40657e-28	1.000000	4.40657e-28	1.000000
rad71	9.87022e-29	1.000000	9.87022e-29	1.000000
rad8	9.73532e-43	1.000000	9.73532e-43	1.000000

10000.0000 Pa, 250.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.71048e-14 (1.00)	2.71048e-14 (1.00)
Formation of rad19	2.70930e-14 (1.000)	2.70930e-14 (1.000)
H-abstraction to cyc2enyl	1.17991e-17 (0.000435)	1.17991e-17 (0.000435)
H-abstraction to cyc1enyl	1.59554e-20 (5.89e-07)	1.59554e-20 (5.89e-07)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.950846	0.950846	0.950846	0.950846
Indene+H	0.0465996	0.997446	0.0465996	0.997446
rad15	0.00210553	0.999551	0.00210553	0.999551
Benzene+cycloprop-2-enylidene	0.000435312	0.999987	0.000435312	0.999987
PhCHCCH2+H	1.13829e-05	0.999998	1.13829e-05	0.999998
Benzene+cycloprop-1-enylidene	5.88656e-07	0.999999	5.88656e-07	0.999999
rad6	5.23376e-07	0.999999	5.23376e-07	0.999999
rad2	4.01846e-07	1.000000	4.01846e-07	1.000000
rad26	7.08129e-08	1.000000	7.08129e-08	1.000000
C2H2+PhCH2	5.94243e-08	1.000000	5.94243e-08	1.000000
rad23	4.13401e-08	1.000000	4.13401e-08	1.000000
rad10	3.84486e-08	1.000000	3.84486e-08	1.000000

rad67	2.92093e-08	1.000000	2.92093e-08	1.000000
rad1	2.88670e-08	1.000000	2.88670e-08	1.000000
rad11	2.52891e-08	1.000000	2.52891e-08	1.000000
rad19anti	1.56781e-08	1.000000	1.56781e-08	1.000000
rad12	1.55561e-08	1.000000	1.55561e-08	1.000000
rad35	1.25636e-08	1.000000	1.25636e-08	1.000000
rad45	1.25124e-08	1.000000	1.25124e-08	1.000000
rad22	1.12349e-08	1.000000	1.12349e-08	1.000000
PhCCH+CH3	1.09517e-08	1.000000	1.09517e-08	1.000000
PhCCCH3+H	1.02286e-08	1.000000	1.02286e-08	1.000000
Ph+MeAc	8.38866e-09	1.000000	8.38866e-09	1.000000
rad3	5.20629e-09	1.000000	5.20629e-09	1.000000
rad4	2.72398e-09	1.000000	2.72398e-09	1.000000
Ph+Allene	9.43287e-10	1.000000	9.43287e-10	1.000000
rad36	7.95007e-10	1.000000	7.95007e-10	1.000000
rad7	5.58895e-10	1.000000	5.58895e-10	1.000000
rad30	2.20191e-10	1.000000	2.20191e-10	1.000000
PhCH2CCH+H	2.16398e-10	1.000000	2.16398e-10	1.000000
rad18	9.57425e-11	1.000000	9.57425e-11	1.000000
rad5	9.31328e-11	1.000000	9.31328e-11	1.000000
PhcycC3H3_A+H	7.12389e-11	1.000000	7.12389e-11	1.000000
rad28	1.60920e-11	1.000000	1.60920e-11	1.000000
rad20	7.90240e-12	1.000000	7.90240e-12	1.000000
rad37	7.88186e-12	1.000000	7.88186e-12	1.000000
rad21	5.38524e-12	1.000000	5.38524e-12	1.000000
rad13	3.70240e-12	1.000000	3.70240e-12	1.000000
rad27	2.73468e-12	1.000000	2.73468e-12	1.000000
rad14	2.24471e-12	1.000000	2.24471e-12	1.000000
rad60syn	1.31209e-12	1.000000	1.31209e-12	1.000000
Phenyl+cycC3H4	1.23950e-12	1.000000	0.000000	1.000000
PhcycC3H3_B+H	1.06758e-12	1.000000	1.06758e-12	1.000000
PAH3+H	8.31333e-13	1.000000	8.31333e-13	1.000000
PAH7+H	7.81503e-13	1.000000	7.81503e-13	1.000000
rad25	7.28063e-13	1.000000	7.28063e-13	1.000000
rad60anti	6.60663e-13	1.000000	6.60663e-13	1.000000
PAH9+H	4.13117e-13	1.000000	4.13117e-13	1.000000
rad38	3.17156e-13	1.000000	3.17156e-13	1.000000
rad59	1.59445e-13	1.000000	1.59445e-13	1.000000
PAH10+CH3	3.74890e-14	1.000000	3.74890e-14	1.000000
rad46	2.14701e-14	1.000000	2.14701e-14	1.000000
rad39	5.77402e-15	1.000000	5.77402e-15	1.000000
rad43	5.04727e-15	1.000000	5.04727e-15	1.000000
rad33	4.99849e-15	1.000000	4.99849e-15	1.000000
rad62	6.61223e-16	1.000000	6.61223e-16	1.000000
rad24	3.56962e-16	1.000000	3.56962e-16	1.000000
rad50	2.72030e-16	1.000000	2.72030e-16	1.000000
rad70	2.43021e-16	1.000000	2.43021e-16	1.000000
rad58	6.14261e-17	1.000000	6.14261e-17	1.000000
rad54	3.81733e-17	1.000000	3.81733e-17	1.000000
rad31	1.97605e-17	1.000000	1.97605e-17	1.000000
PAH1+H	1.63480e-17	1.000000	1.63480e-17	1.000000
rad34	8.10320e-18	1.000000	8.10320e-18	1.000000
rad52	3.07272e-18	1.000000	3.07272e-18	1.000000
rad41	2.35662e-18	1.000000	2.35662e-18	1.000000
rad51	1.54313e-18	1.000000	1.54313e-18	1.000000
rad42	7.64024e-19	1.000000	7.64024e-19	1.000000
rad55	6.30788e-19	1.000000	6.30788e-19	1.000000
rad65	2.28289e-20	1.000000	2.28289e-20	1.000000
rad61	2.11702e-21	1.000000	2.11702e-21	1.000000
rad53	4.35650e-22	1.000000	4.35650e-22	1.000000
rad68syn	8.34602e-23	1.000000	8.34602e-23	1.000000
rad68anti	6.17088e-23	1.000000	6.17088e-23	1.000000
rad64	1.00625e-23	1.000000	1.00625e-23	1.000000
rad56	7.40248e-24	1.000000	7.40248e-24	1.000000
rad47	4.49807e-24	1.000000	4.49807e-24	1.000000
rad40syn	3.08188e-24	1.000000	3.08188e-24	1.000000
rad40anti	2.62808e-24	1.000000	2.62808e-24	1.000000
PAH8+H	7.14475e-25	1.000000	7.14475e-25	1.000000
rad73	2.62346e-26	1.000000	2.62346e-26	1.000000
rad19syn	1.78935e-27	1.000000	1.78935e-27	1.000000
rad71	3.65811e-28	1.000000	3.65811e-28	1.000000
rad8	1.34283e-42	1.000000	1.34283e-42	1.000000

10000.0000 Pa, 260.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.97464e-14 (1.00)	2.97464e-14 (1.00)
Formation of rad19	2.97293e-14 (0.999)	2.97293e-14 (0.999)
H-abstraction to cyc2enyl	1.70236e-17 (0.000572)	1.70236e-17 (0.000572)

H-abstraction to cyclenyl | 3.02186e-20 (1.02e-06) 3.02186e-20 (1.02e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.947268	0.947268	0.947268	0.947268
Indene+H	0.0500597	0.997327	0.0500597	0.997327
rad15	0.00208516	0.999412	0.00208516	0.999412
Benzene+cycloprop-2-enylidene	0.000572291	0.999985	0.000572291	0.999985
PhCHCCH2+H	1.30734e-05	0.999998	1.30734e-05	0.999998
Benzene+cycloprop-1-enylidene	1.01588e-06	0.999999	1.01588e-06	0.999999
rad6	6.07584e-07	0.999999	6.07584e-07	0.999999
rad2	4.55680e-07	1.000000	4.55680e-07	1.000000
rad26	8.15908e-08	1.000000	8.15908e-08	1.000000
C2H2+PhCH2	7.03262e-08	1.000000	7.03262e-08	1.000000
rad23	4.76339e-08	1.000000	4.76339e-08	1.000000
rad10	4.55983e-08	1.000000	4.55983e-08	1.000000
rad67	3.44820e-08	1.000000	3.44820e-08	1.000000
rad1	3.31278e-08	1.000000	3.31278e-08	1.000000
rad11	2.48122e-08	1.000000	2.48122e-08	1.000000
rad19anti	1.57215e-08	1.000000	1.57215e-08	1.000000
rad12	1.54267e-08	1.000000	1.54267e-08	1.000000
PhCCH+CH3	1.47909e-08	1.000000	1.47909e-08	1.000000
rad35	1.47763e-08	1.000000	1.47763e-08	1.000000
rad45	1.40508e-08	1.000000	1.40508e-08	1.000000
PhCCCH3+H	1.36482e-08	1.000000	1.36482e-08	1.000000
Ph+MeAc	1.14654e-08	1.000000	1.14654e-08	1.000000
rad22	1.11013e-08	1.000000	1.11013e-08	1.000000
rad3	5.98025e-09	1.000000	5.98025e-09	1.000000
rad4	3.13938e-09	1.000000	3.13938e-09	1.000000
Ph+Allene	1.20024e-09	1.000000	1.20024e-09	1.000000
rad36	8.97936e-10	1.000000	8.97936e-10	1.000000
rad7	6.49015e-10	1.000000	6.49015e-10	1.000000
PhCH2CCH+H	2.83469e-10	1.000000	2.83469e-10	1.000000
rad30	2.60318e-10	1.000000	2.60318e-10	1.000000
rad5	1.05584e-10	1.000000	1.05584e-10	1.000000
PhcycC3H3_A+H	9.52798e-11	1.000000	9.52798e-11	1.000000
rad18	9.03928e-11	1.000000	9.03928e-11	1.000000
rad28	2.21503e-11	1.000000	2.21503e-11	1.000000
rad37	1.10859e-11	1.000000	1.10859e-11	1.000000
rad20	7.49783e-12	1.000000	7.49783e-12	1.000000
rad21	5.10649e-12	1.000000	5.10649e-12	1.000000
rad13	4.22801e-12	1.000000	4.22801e-12	1.000000
rad27	3.06328e-12	1.000000	3.06328e-12	1.000000
rad14	2.56659e-12	1.000000	2.56659e-12	1.000000
Phenyl+cycC3H4	1.79995e-12	1.000000	0.000000	1.000000
PhcycC3H3_B+H	1.68879e-12	1.000000	1.68879e-12	1.000000
rad60syn	1.61534e-12	1.000000	1.61534e-12	1.000000
PAH3+H	1.07575e-12	1.000000	1.07575e-12	1.000000
PAH7+H	1.03750e-12	1.000000	1.03750e-12	1.000000
rad60anti	8.16247e-13	1.000000	8.16247e-13	1.000000
rad25	7.08170e-13	1.000000	7.08170e-13	1.000000
PAH9+H	5.81986e-13	1.000000	5.81986e-13	1.000000
rad38	4.36236e-13	1.000000	4.36236e-13	1.000000
rad59	2.04609e-13	1.000000	2.04609e-13	1.000000
PAH10+CH3	6.08205e-14	1.000000	6.08205e-14	1.000000
rad46	2.98303e-14	1.000000	2.98303e-14	1.000000
rad39	1.00693e-14	1.000000	1.00693e-14	1.000000
rad43	7.89895e-15	1.000000	7.89895e-15	1.000000
rad33	5.70919e-15	1.000000	5.70919e-15	1.000000
rad62	1.06413e-15	1.000000	1.06413e-15	1.000000
rad50	4.13009e-16	1.000000	4.13009e-16	1.000000
rad24	3.97536e-16	1.000000	3.97536e-16	1.000000
rad70	3.70533e-16	1.000000	3.70533e-16	1.000000
rad58	9.14749e-17	1.000000	9.14749e-17	1.000000
rad54	6.49160e-17	1.000000	6.49160e-17	1.000000
PAH1+H	3.01083e-17	1.000000	3.01083e-17	1.000000
rad31	2.47798e-17	1.000000	2.47798e-17	1.000000
rad34	1.32006e-17	1.000000	1.32006e-17	1.000000
rad52	4.93832e-18	1.000000	4.93832e-18	1.000000
rad41	4.36888e-18	1.000000	4.36888e-18	1.000000
rad51	2.62770e-18	1.000000	2.62770e-18	1.000000
rad42	1.41109e-18	1.000000	1.41109e-18	1.000000
rad55	1.13750e-18	1.000000	1.13750e-18	1.000000
rad65	4.16568e-20	1.000000	4.16568e-20	1.000000
rad61	5.25092e-21	1.000000	5.25092e-21	1.000000
rad53	9.86549e-22	1.000000	9.86549e-22	1.000000
rad68syn	2.00587e-22	1.000000	2.00587e-22	1.000000
rad68anti	1.47574e-22	1.000000	1.47574e-22	1.000000
rad64	2.70347e-23	1.000000	2.70347e-23	1.000000
rad56	1.98219e-23	1.000000	1.98219e-23	1.000000

rad40syn	8.93152e-24	1.00000	8.93152e-24	1.00000
rad40anti	7.64494e-24	1.00000	7.64494e-24	1.00000
rad47	5.79356e-24	1.00000	5.79356e-24	1.00000
PAH8+H	2.25117e-24	1.00000	2.25117e-24	1.00000
rad73	7.87193e-26	1.00000	7.87193e-26	1.00000
rad19syn	7.56793e-27	1.00000	7.56793e-27	1.00000
rad71	1.23010e-27	1.00000	1.23010e-27	1.00000
rad8	1.93604e-42	1.00000	1.93604e-42	1.00000

10000.0000 Pa, 270.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.24655e-14 (1.00)	3.24655e-14 (1.00)
Formation of rad19	3.24415e-14 (0.999)	3.24415e-14 (0.999)
H-abstraction to cyc2enyl	2.38790e-17 (0.000736)	2.38790e-17 (0.000736)
H-abstraction to cyclenyl	5.45397e-20 (1.68e-06)	5.45397e-20 (1.68e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.943397	0.943397	0.943397	0.943397
Indene+H	0.0537839	0.997181	0.0537839	0.997181
rad15	0.00206489	0.999246	0.00206489	0.999246
Benzene+cycloprop-2-enylidene	0.000735519	0.999981	0.000735519	0.999981
PhCHCCH2+H	1.50585e-05	0.999996	1.50585e-05	0.999996
Benzene+cycloprop-1-enylidene	1.67993e-06	0.999998	1.67993e-06	0.999998
rad6	7.06839e-07	0.999999	7.06839e-07	0.999999
rad2	5.16960e-07	0.999999	5.16960e-07	0.999999
rad26	9.42629e-08	0.999999	9.42629e-08	0.999999
C2H2+PhCH2	8.35119e-08	0.999999	8.35119e-08	0.999999
rad23	5.48955e-08	1.000000	5.48955e-08	1.000000
rad10	5.39479e-08	1.000000	5.39479e-08	1.000000
rad67	4.08464e-08	1.000000	4.08464e-08	1.000000
rad1	3.80713e-08	1.000000	3.80713e-08	1.000000
rad11	2.43263e-08	1.000000	2.43263e-08	1.000000
PhCCH+CH3	1.99601e-08	1.000000	1.99601e-08	1.000000
PhCCCH3+H	1.82620e-08	1.000000	1.82620e-08	1.000000
rad35	1.74370e-08	1.000000	1.74370e-08	1.000000
rad19anti	1.58289e-08	1.000000	1.58289e-08	1.000000
rad45	1.58174e-08	1.000000	1.58174e-08	1.000000
Ph+MeAc	1.57152e-08	1.000000	1.57152e-08	1.000000
rad12	1.53191e-08	1.000000	1.53191e-08	1.000000
rad22	1.09534e-08	1.000000	1.09534e-08	1.000000
rad3	6.85987e-09	1.000000	6.85987e-09	1.000000
rad4	3.61422e-09	1.000000	3.61422e-09	1.000000
Ph+Allene	1.53313e-09	1.000000	1.53313e-09	1.000000
rad36	1.01731e-09	1.000000	1.01731e-09	1.000000
rad7	7.54671e-10	1.000000	7.54671e-10	1.000000
PhCH2CCH+H	3.72855e-10	1.000000	3.72855e-10	1.000000
rad30	3.08876e-10	1.000000	3.08876e-10	1.000000
PhcycC3H3_A+H	1.27393e-10	1.000000	1.27393e-10	1.000000
rad5	1.19158e-10	1.000000	1.19158e-10	1.000000
rad18	8.55110e-11	1.000000	8.55110e-11	1.000000
rad28	3.05888e-11	1.000000	3.05888e-11	1.000000
rad37	1.56917e-11	1.000000	1.56917e-11	1.000000
rad20	7.12350e-12	1.000000	7.12350e-12	1.000000
rad21	4.84884e-12	1.000000	4.84884e-12	1.000000
rad13	4.84088e-12	1.000000	4.84088e-12	1.000000
rad27	3.43550e-12	1.000000	3.43550e-12	1.000000
rad14	2.93075e-12	1.000000	2.93075e-12	1.000000
PhcycC3H3_B+H	2.63830e-12	1.000000	2.63830e-12	1.000000
Phenyl+cycC3H4	2.60318e-12	1.000000	0.000000	1.000000
rad60syn	1.99819e-12	1.000000	1.99819e-12	1.000000
PAH3+H	1.39998e-12	1.000000	1.39998e-12	1.000000
PAH7+H	1.38681e-12	1.000000	1.38681e-12	1.000000
rad60anti	1.01336e-12	1.000000	1.01336e-12	1.000000
PAH9+H	8.23053e-13	1.000000	8.23053e-13	1.000000
rad25	6.88615e-13	1.000000	6.88615e-13	1.000000
rad38	6.04781e-13	1.000000	6.04781e-13	1.000000
rad59	2.64003e-13	1.000000	2.64003e-13	1.000000
PAH10+CH3	9.91027e-14	1.000000	9.91027e-14	1.000000
rad46	4.17260e-14	1.000000	4.17260e-14	1.000000
rad39	1.76001e-14	1.000000	1.76001e-14	1.000000
rad43	1.23686e-14	1.000000	1.23686e-14	1.000000
rad33	6.54169e-15	1.000000	6.54169e-15	1.000000
rad62	1.70392e-15	1.000000	1.70392e-15	1.000000
rad50	6.31573e-16	1.000000	6.31573e-16	1.000000
rad70	5.65580e-16	1.000000	5.65580e-16	1.000000
rad24	4.44381e-16	1.000000	4.44381e-16	1.000000
rad58	1.36669e-16	1.000000	1.36669e-16	1.000000

rad54	1.10591e-16	1.000000	1.10591e-16	1.000000
PAH1+H	5.51964e-17	1.000000	5.51964e-17	1.000000
rad31	3.13583e-17	1.000000	3.13583e-17	1.000000
rad34	2.14556e-17	1.000000	2.14556e-17	1.000000
rad41	8.01478e-18	1.000000	8.01478e-18	1.000000
rad52	7.98456e-18	1.000000	7.98456e-18	1.000000
rad51	4.49162e-18	1.000000	4.49162e-18	1.000000
rad42	2.57046e-18	1.000000	2.57046e-18	1.000000
rad55	2.04725e-18	1.000000	2.04725e-18	1.000000
rad65	7.58381e-20	1.000000	7.58381e-20	1.000000
rad61	1.24906e-20	1.000000	1.24906e-20	1.000000
rad53	2.17673e-21	1.000000	2.17673e-21	1.000000
rad68syn	4.61050e-22	1.000000	4.61050e-22	1.000000
rad68anti	3.37733e-22	1.000000	3.37733e-22	1.000000
rad64	6.93840e-23	1.000000	6.93840e-23	1.000000
rad56	5.03698e-23	1.000000	5.03698e-23	1.000000
rad40syn	2.41374e-23	1.000000	2.41374e-23	1.000000
rad40anti	2.07325e-23	1.000000	2.07325e-23	1.000000
rad47	7.57913e-24	1.000000	7.57913e-24	1.000000
PAH8+H	6.52450e-24	1.000000	6.52450e-24	1.000000
rad73	2.20434e-25	1.000000	2.20434e-25	1.000000
rad19syn	3.32212e-26	1.000000	3.32212e-26	1.000000
rad71	3.78471e-27	1.000000	3.78471e-27	1.000000
rad8	2.94373e-42	1.000000	2.94373e-42	1.000000

10000.0000 Pa, 280.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.52572e-14 (1.00)	3.52572e-14 (1.00)
Formation of rad19	3.52244e-14 (0.999)	3.52244e-14 (0.999)
H-abstraction to cyc2enyl	3.26639e-17 (0.000926)	3.26639e-17 (0.000926)
H-abstraction to cyclenyl	9.42926e-20 (2.67e-06)	9.42926e-20 (2.67e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.939210	0.939210	0.939210	0.939210
Indene+H	0.0577973	0.997007	0.0577973	0.997007
rad15	0.00204460	0.999051	0.00204460	0.999051
Benzene+cycloprop-2-enylidene	0.000926445	0.999978	0.000926445	0.999978
PhCHCCH2+H	1.73944e-05	0.999995	1.73944e-05	0.999995
Benzene+cycloprop-1-enylidene	2.67442e-06	0.999998	2.67442e-06	0.999998
rad6	8.24067e-07	0.999999	8.24067e-07	0.999999
rad2	5.86509e-07	0.999999	5.86509e-07	0.999999
rad26	1.09181e-07	1.000000	1.09181e-07	1.000000
C2H2+PhCH2	9.94977e-08	1.000000	9.94977e-08	1.000000
rad10	6.36437e-08	1.000000	6.36437e-08	1.000000
rad23	6.32705e-08	1.000000	6.32705e-08	1.000000
rad67	4.85447e-08	1.000000	4.85447e-08	1.000000
rad1	4.37982e-08	1.000000	4.37982e-08	1.000000
PhCCH+CH3	2.68954e-08	1.000000	2.68954e-08	1.000000
PhCCCH3+H	2.44811e-08	1.000000	2.44811e-08	1.000000
rad11	2.38365e-08	1.000000	2.38365e-08	1.000000
Ph+MeAc	2.15775e-08	1.000000	2.15775e-08	1.000000
rad35	2.06432e-08	1.000000	2.06432e-08	1.000000
rad45	1.78471e-08	1.000000	1.78471e-08	1.000000
rad19anti	1.60059e-08	1.000000	1.60059e-08	1.000000
rad12	1.52326e-08	1.000000	1.52326e-08	1.000000
rad22	1.07935e-08	1.000000	1.07935e-08	1.000000
rad3	7.85621e-09	1.000000	7.85621e-09	1.000000
rad4	4.15544e-09	1.000000	4.15544e-09	1.000000
Ph+Allene	1.96534e-09	1.000000	1.96534e-09	1.000000
rad36	1.15594e-09	1.000000	1.15594e-09	1.000000
rad7	8.78780e-10	1.000000	8.78780e-10	1.000000
PhCH2CCH+H	4.92190e-10	1.000000	4.92190e-10	1.000000
rad30	3.67784e-10	1.000000	3.67784e-10	1.000000
PhcycC3H3_A+H	1.70157e-10	1.000000	1.70157e-10	1.000000
rad5	1.33799e-10	1.000000	1.33799e-10	1.000000
rad18	8.10402e-11	1.000000	8.10402e-11	1.000000
rad28	4.23522e-11	1.000000	4.23522e-11	1.000000
rad37	2.23294e-11	1.000000	2.23294e-11	1.000000
rad20	6.77699e-12	1.000000	6.77699e-12	1.000000
rad13	5.55684e-12	1.000000	5.55684e-12	1.000000
rad21	4.61055e-12	1.000000	4.61055e-12	1.000000
PhcycC3H3_B+H	4.07161e-12	1.000000	4.07161e-12	1.000000
rad27	3.85582e-12	1.000000	3.85582e-12	1.000000
Phenyl+cycC3H4	3.74739e-12	1.000000	0.000000	1.000000
rad14	3.34147e-12	1.000000	3.34147e-12	1.000000
rad60syn	2.48285e-12	1.000000	2.48285e-12	1.000000
PAH7+H	1.86658e-12	1.000000	1.86658e-12	1.000000

PAH3+H	1.83125e-12	1.00000	1.83125e-12	1.00000
rad60anti	1.26380e-12	1.00000	1.26380e-12	1.00000
PAH9+H	1.16771e-12	1.00000	1.16771e-12	1.00000
rad38	8.44550e-13	1.00000	8.44550e-13	1.00000
rad25	6.69497e-13	1.00000	6.69497e-13	1.00000
rad59	3.42325e-13	1.00000	3.42325e-13	1.00000
PAH10+CH3	1.61770e-13	1.00000	1.61770e-13	1.00000
rad46	5.87168e-14	1.00000	5.87168e-14	1.00000
rad39	3.07419e-14	1.00000	3.07419e-14	1.00000
rad43	1.93381e-14	1.00000	1.93381e-14	1.00000
rad33	7.51911e-15	1.00000	7.51911e-15	1.00000
rad62	2.71078e-15	1.00000	2.71078e-15	1.00000
rad50	9.71193e-16	1.00000	9.71193e-16	1.00000
rad70	8.63046e-16	1.00000	8.63046e-16	1.00000
rad24	4.98511e-16	1.00000	4.98511e-16	1.00000
rad58	2.04555e-16	1.00000	2.04555e-16	1.00000
rad54	1.88232e-16	1.00000	1.88232e-16	1.00000
PAH1+H	1.00388e-16	1.00000	1.00388e-16	1.00000
rad31	4.00599e-17	1.00000	4.00599e-17	1.00000
rad34	3.47353e-17	1.00000	3.47353e-17	1.00000
rad41	1.45150e-17	1.00000	1.45150e-17	1.00000
rad52	1.29585e-17	1.00000	1.29585e-17	1.00000
rad51	7.68473e-18	1.00000	7.68473e-18	1.00000
rad42	4.61122e-18	1.00000	4.61122e-18	1.00000
rad55	3.66580e-18	1.00000	3.66580e-18	1.00000
rad65	1.37323e-19	1.00000	1.37323e-19	1.00000
rad61	2.84739e-20	1.00000	2.84739e-20	1.00000
rad53	4.66583e-21	1.00000	4.66583e-21	1.00000
rad68syn	1.01439e-21	1.00000	1.01439e-21	1.00000
rad68anti	7.40299e-22	1.00000	7.40299e-22	1.00000
rad64	1.69801e-22	1.00000	1.69801e-22	1.00000
rad56	1.21511e-22	1.00000	1.21511e-22	1.00000
rad40syn	6.10893e-23	1.00000	6.10893e-23	1.00000
rad40anti	5.26428e-23	1.00000	5.26428e-23	1.00000
PAH8+H	1.75109e-23	1.00000	1.75109e-23	1.00000
rad47	1.00840e-23	1.00000	1.00840e-23	1.00000
rad73	5.78154e-25	1.00000	5.78154e-25	1.00000
rad19syn	1.50750e-25	1.00000	1.50750e-25	1.00000
rad71	1.07360e-26	1.00000	1.07360e-26	1.00000
rad8	4.79041e-42	1.00000	4.79041e-42	1.00000

10000.0000 Pa, 290.000000 K

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Rate constant      | True (fraction)      Effective (fraction)
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Total              | 3.81171e-14 (1.00   ) 3.81171e-14 (1.00   )
Formation of rad19| 3.80733e-14 (0.999  ) 3.80733e-14 (0.999  )
H-abstraction to cyc2enyl| 4.36868e-17 (0.00115) 4.36868e-17 (0.00115)
H-abstraction to cyclenyl| 1.56861e-19 (4.12e-06) 1.56861e-19 (4.12e-06)

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species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.934677	0.934677	0.934677	0.934677
Indene+H	0.0621265	0.996803	0.0621265	0.996803
rad15	0.00202420	0.998827	0.00202420	0.998827
Benzene+cycloprop-2-enylidene	0.00114612	0.999973	0.00114612	0.999973
PhCHCCH2+H	2.01483e-05	0.999994	2.01483e-05	0.999994
Benzene+cycloprop-1-enylidene	4.11523e-06	0.999998	4.11523e-06	0.999998
rad6	9.62744e-07	0.999999	9.62744e-07	0.999999
rad2	6.65130e-07	0.999999	6.65130e-07	0.999999
rad26	1.26757e-07	0.999999	1.26757e-07	0.999999
C2H2+PhCH2	1.18915e-07	1.000000	1.18915e-07	1.000000
rad10	7.48309e-08	1.000000	7.48309e-08	1.000000
rad23	7.29203e-08	1.000000	7.29203e-08	1.000000
rad67	5.78719e-08	1.000000	5.78719e-08	1.000000
rad1	5.04168e-08	1.000000	5.04168e-08	1.000000
PhCCH+CH3	3.61585e-08	1.000000	3.61585e-08	1.000000
PhCCCH3+H	3.28444e-08	1.000000	3.28444e-08	1.000000
Ph+MeAc	2.96414e-08	1.000000	2.96414e-08	1.000000
rad35	2.45134e-08	1.000000	2.45134e-08	1.000000
rad11	2.33487e-08	1.000000	2.33487e-08	1.000000
rad45	2.01789e-08	1.000000	2.01789e-08	1.000000
rad19anti	1.62598e-08	1.000000	1.62598e-08	1.000000
rad12	1.51670e-08	1.000000	1.51670e-08	1.000000
rad22	1.06239e-08	1.000000	1.06239e-08	1.000000
rad3	8.98004e-09	1.000000	8.98004e-09	1.000000
rad4	4.77003e-09	1.000000	4.77003e-09	1.000000
Ph+Allene	2.52732e-09	1.000000	2.52732e-09	1.000000
rad36	1.31702e-09	1.000000	1.31702e-09	1.000000
rad7	1.02479e-09	1.000000	1.02479e-09	1.000000

PhCH2CCH+H	6.51645e-10	1.00000	6.51645e-10	1.00000
rad30	4.39391e-10	1.00000	4.39391e-10	1.00000
PhcycC3H3_A+H	2.26886e-10	1.00000	2.26886e-10	1.00000
rad5	1.49415e-10	1.00000	1.49415e-10	1.00000
rad18	7.69330e-11	1.00000	7.69330e-11	1.00000
rad28	5.87428e-11	1.00000	5.87428e-11	1.00000
rad37	3.19026e-11	1.00000	3.19026e-11	1.00000
rad20	6.45631e-12	1.00000	6.45631e-12	1.00000
rad13	6.39450e-12	1.00000	6.39450e-12	1.00000
PhcycC3H3_B+H	6.20719e-12	1.00000	6.20719e-12	1.00000
Phenyl+cycC3H4	5.36582e-12	1.00000	0.00000	1.00000
rad21	4.39025e-12	1.00000	4.39025e-12	1.00000
rad27	4.32865e-12	1.00000	4.32865e-12	1.00000
rad14	3.80289e-12	1.00000	3.80289e-12	1.00000
rad60syn	3.09770e-12	1.00000	3.09770e-12	1.00000
PAH7+H	2.52961e-12	1.00000	2.52961e-12	1.00000
PAH3+H	2.40589e-12	1.00000	2.40589e-12	1.00000
PAH9+H	1.66057e-12	1.00000	1.66057e-12	1.00000
rad60anti	1.58265e-12	1.00000	1.58265e-12	1.00000
rad38	1.18679e-12	1.00000	1.18679e-12	1.00000
rad25	6.50918e-13	1.00000	6.50918e-13	1.00000
rad59	4.45782e-13	1.00000	4.45782e-13	1.00000
PAH10+CH3	2.63777e-13	1.00000	2.63777e-13	1.00000
rad46	8.30384e-14	1.00000	8.30384e-14	1.00000
rad39	5.34810e-14	1.00000	5.34810e-14	1.00000
rad43	3.01252e-14	1.00000	3.01252e-14	1.00000
rad33	8.66883e-15	1.00000	8.66883e-15	1.00000
rad62	4.27848e-15	1.00000	4.27848e-15	1.00000
rad50	1.49875e-15	1.00000	1.49875e-15	1.00000
rad70	1.31448e-15	1.00000	1.31448e-15	1.00000
rad24	5.61089e-16	1.00000	5.61089e-16	1.00000
rad54	3.19115e-16	1.00000	3.19115e-16	1.00000
rad58	3.06180e-16	1.00000	3.06180e-16	1.00000
PAH1+H	1.80517e-16	1.00000	1.80517e-16	1.00000
rad34	5.59073e-17	1.00000	5.59073e-17	1.00000
rad31	5.16782e-17	1.00000	5.16782e-17	1.00000
rad41	2.58900e-17	1.00000	2.58900e-17	1.00000
rad52	2.10544e-17	1.00000	2.10544e-17	1.00000
rad51	1.31175e-17	1.00000	1.31175e-17	1.00000
rad42	8.13410e-18	1.00000	8.13410e-18	1.00000
rad55	6.50836e-18	1.00000	6.50836e-18	1.00000
rad65	2.46505e-19	1.00000	2.46505e-19	1.00000
rad61	6.21860e-20	1.00000	6.21860e-20	1.00000
rad53	9.69216e-21	1.00000	9.69216e-21	1.00000
rad68syn	2.13810e-21	1.00000	2.13810e-21	1.00000
rad68anti	1.55539e-21	1.00000	1.55539e-21	1.00000
rad64	3.95975e-22	1.00000	3.95975e-22	1.00000
rad56	2.78536e-22	1.00000	2.78536e-22	1.00000
rad40syn	1.45386e-22	1.00000	1.45386e-22	1.00000
rad40anti	1.25666e-22	1.00000	1.25666e-22	1.00000
PAH8+H	4.37882e-23	1.00000	4.37882e-23	1.00000
rad47	1.36641e-23	1.00000	1.36641e-23	1.00000
rad73	1.42551e-24	1.00000	1.42551e-24	1.00000
rad19syn	7.03943e-25	1.00000	7.03943e-25	1.00000
rad71	2.82717e-26	1.00000	2.82717e-26	1.00000
rad8	8.51800e-42	1.00000	8.51800e-42	1.00000

10000.0000 Pa, 300.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.34809e-14 (1.00)	5.34809e-14 (1.00)
Formation of rad19	5.34010e-14 (0.999)	5.34010e-14 (0.999)
H-abstraction to cyc2enyl	7.95823e-17 (0.00149)	7.95823e-17 (0.00149)
H-abstraction to cyc1enyl	3.44981e-19 (6.45e-06)	3.44981e-19 (6.45e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.905780	0.905780	0.905780	0.905780
Indene+H	0.0907095	0.996490	0.0907095	0.996490
rad15	0.00197029	0.998460	0.00197029	0.998460
Benzene+cycloprop-2-enylidene	0.00148805	0.999948	0.00148805	0.999948
PhCHCCH2+H	4.01206e-05	0.999988	4.01206e-05	0.999988
Benzene+cycloprop-1-enylidene	6.45054e-06	0.999995	6.45054e-06	0.999995
rad6	2.19178e-06	0.999997	2.19178e-06	0.999997
rad2	1.10347e-06	0.999998	1.10347e-06	0.999998
C2H2+PhCH2	3.12126e-07	0.999998	3.12126e-07	0.999998
rad26	2.70116e-07	0.999999	2.70116e-07	0.999999
PhCCH+CH3	1.70822e-07	0.999999	1.70822e-07	0.999999
Ph+MeAc	1.59512e-07	0.999999	1.59512e-07	0.999999

PhCCCH3+H	1.54556e-07	0.999999	1.54556e-07	0.999999
rad67	1.42668e-07	0.999999	1.42668e-07	0.999999
rad10	1.33093e-07	0.999999	1.33093e-07	0.999999
rad23	1.30870e-07	0.999999	1.30870e-07	0.999999
rad1	8.34587e-08	1.000000	8.34587e-08	1.000000
rad35	5.83387e-08	1.000000	5.83387e-08	1.000000
rad45	3.75738e-08	1.000000	3.75738e-08	1.000000
rad19anti	2.18741e-08	1.000000	2.18741e-08	1.000000
rad12	2.01254e-08	1.000000	2.01254e-08	1.000000
rad11	1.98529e-08	1.000000	1.98529e-08	1.000000
rad3	1.51897e-08	1.000000	1.51897e-08	1.000000
rad22	1.08150e-08	1.000000	1.08150e-08	1.000000
Ph+Allene	7.59902e-09	1.000000	7.59902e-09	1.000000
rad4	7.59013e-09	1.000000	7.59013e-09	1.000000
PhCH2CCH+H	3.02101e-09	1.000000	3.02101e-09	1.000000
rad7	2.26261e-09	1.000000	2.26261e-09	1.000000
rad36	1.28232e-09	1.000000	1.28232e-09	1.000000
rad30	1.05287e-09	1.000000	1.05287e-09	1.000000
rad28	4.06644e-10	1.000000	4.06644e-10	1.000000
PhcycC3H3_A+H	3.25285e-10	1.000000	3.25285e-10	1.000000
rad37	2.98937e-10	1.000000	2.98937e-10	1.000000
rad5	2.20979e-10	1.000000	2.20979e-10	1.000000
rad18	7.52656e-11	1.000000	7.52656e-11	1.000000
PAH7+H	2.11018e-11	1.000000	2.11018e-11	1.000000
PAH9+H	1.59003e-11	1.000000	1.59003e-11	1.000000
rad13	1.29498e-11	1.000000	1.29498e-11	1.000000
PAH3+H	1.11902e-11	1.000000	1.11902e-11	1.000000
PhcycC3H3_B+H	1.09019e-11	1.000000	1.09019e-11	1.000000
rad38	1.01629e-11	1.000000	1.01629e-11	1.000000
rad60syn	9.49394e-12	1.000000	9.49394e-12	1.000000
Phenyl+cycC3H4	8.21025e-12	1.000000	0.000000	1.000000
rad27	6.91001e-12	1.000000	6.91001e-12	1.000000
PAH10+CH3	6.84349e-12	1.000000	6.84349e-12	1.000000
rad14	5.92058e-12	1.000000	5.92058e-12	1.000000
rad20	5.45605e-12	1.000000	5.45605e-12	1.000000
rad60anti	4.98013e-12	1.000000	4.98013e-12	1.000000
rad21	3.87530e-12	1.000000	3.87530e-12	1.000000
rad39	2.52270e-12	1.000000	2.52270e-12	1.000000
rad59	1.82252e-12	1.000000	1.82252e-12	1.000000
rad46	7.42517e-13	1.000000	7.42517e-13	1.000000
rad25	6.02667e-13	1.000000	6.02667e-13	1.000000
rad43	3.65103e-13	1.000000	3.65103e-13	1.000000
rad62	5.26431e-14	1.000000	5.26431e-14	1.000000
rad50	2.83240e-14	1.000000	2.83240e-14	1.000000
rad33	1.96921e-14	1.000000	1.96921e-14	1.000000
rad70	1.40613e-14	1.000000	1.40613e-14	1.000000
rad54	1.29251e-14	1.000000	1.29251e-14	1.000000
PAH1+H	6.14170e-15	1.000000	6.14170e-15	1.000000
rad58	2.71816e-15	1.000000	2.71816e-15	1.000000
rad24	1.16327e-15	1.000000	1.16327e-15	1.000000
rad34	8.77863e-16	1.000000	8.77863e-16	1.000000
rad41	7.89812e-16	1.000000	7.89812e-16	1.000000
rad52	6.44355e-16	1.000000	6.44355e-16	1.000000
rad51	5.94806e-16	1.000000	5.94806e-16	1.000000
rad55	3.67319e-16	1.000000	3.67319e-16	1.000000
rad31	2.54765e-16	1.000000	2.54765e-16	1.000000
rad42	2.08379e-16	1.000000	2.08379e-16	1.000000
rad61	2.10657e-17	1.000000	2.10657e-17	1.000000
rad65	1.61964e-17	1.000000	1.61964e-17	1.000000
rad53	2.88009e-18	1.000000	2.88009e-18	1.000000
rad64	7.35395e-19	1.000000	7.35395e-19	1.000000
rad56	3.65138e-19	1.000000	3.65138e-19	1.000000
rad68syn	3.27117e-19	1.000000	3.27117e-19	1.000000
rad68anti	2.28309e-19	1.000000	2.28309e-19	1.000000
rad19syn	1.12973e-19	1.000000	1.12973e-19	1.000000
rad40syn	8.65048e-20	1.000000	8.65048e-20	1.000000
PAH8+H	8.27537e-20	1.000000	8.27537e-20	1.000000
rad40anti	7.43217e-20	1.000000	7.43217e-20	1.000000
rad73	7.80111e-21	1.000000	7.80111e-21	1.000000
rad71	1.28343e-21	1.000000	1.28343e-21	1.000000
rad47	1.76621e-22	1.000000	1.76621e-22	1.000000
rad72	1.06415e-25	1.000000	1.06415e-25	1.000000
rad8	2.31148e-32	1.000000	2.31148e-32	1.000000

10000.0000 Pa, 310.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.92544e-14 (1.00)	5.92544e-14 (1.00)
Formation of rad19	5.91462e-14 (0.998)	5.91462e-14 (0.998)

H-abstraction to cyc2enyl | 1.07628e-16 (0.00182) 1.07628e-16 (0.00182)
H-abstraction to cyclenyl | 5.62537e-19 (9.49e-06) 5.62537e-19 (9.49e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.924327	0.924327	0.924327	0.924327
Indene+H	0.0718339	0.996161	0.0718339	0.996161
rad15	0.00198237	0.998143	0.00198237	0.998143
Benzene+cycloprop-2-enylidene	0.00181637	0.999960	0.00181637	0.999960
PhCHCCH2+H	2.72350e-05	0.999987	2.72350e-05	0.999987
Benzene+cycloprop-1-enylidene	9.49359e-06	0.999997	9.49359e-06	0.999997
rad6	1.32139e-06	0.999998	1.32139e-06	0.999998
rad2	8.52398e-07	0.999999	8.52398e-07	0.999999
rad26	1.71823e-07	0.999999	1.71823e-07	0.999999
C2H2+PhCH2	1.71245e-07	0.999999	1.71245e-07	0.999999
rad10	1.02200e-07	0.999999	1.02200e-07	0.999999
rad23	9.67489e-08	0.999999	9.67489e-08	0.999999
rad67	8.29009e-08	0.999999	8.29009e-08	0.999999
rad1	6.67823e-08	0.999999	6.67823e-08	0.999999
PhCCH+CH3	6.46885e-08	1.000000	6.46885e-08	1.000000
PhCCCH3+H	5.89767e-08	1.000000	5.89767e-08	1.000000
Ph+MeAc	5.57170e-08	1.000000	5.57170e-08	1.000000
rad35	3.48398e-08	1.000000	3.48398e-08	1.000000
rad45	2.59208e-08	1.000000	2.59208e-08	1.000000
rad11	2.23975e-08	1.000000	2.23975e-08	1.000000
rad19anti	1.70386e-08	1.000000	1.70386e-08	1.000000
rad12	1.50959e-08	1.000000	1.50959e-08	1.000000
rad3	1.16469e-08	1.000000	1.16469e-08	1.000000
rad22	1.02641e-08	1.000000	1.02641e-08	1.000000
rad4	6.24514e-09	1.000000	6.24514e-09	1.000000
Ph+Allene	4.20830e-09	1.000000	4.20830e-09	1.000000
rad36	1.72129e-09	1.000000	1.72129e-09	1.000000
rad7	1.39921e-09	1.000000	1.39921e-09	1.000000
PhCH2CCH+H	1.14849e-09	1.000000	1.14849e-09	1.000000
rad30	6.32641e-10	1.000000	6.32641e-10	1.000000
PhcycC3H3_A+H	4.00017e-10	1.000000	4.00017e-10	1.000000
rad5	1.83000e-10	1.000000	1.83000e-10	1.000000
rad28	1.13107e-10	1.000000	1.13107e-10	1.000000
rad18	6.96459e-11	1.000000	6.96459e-11	1.000000
rad37	6.54682e-11	1.000000	6.54682e-11	1.000000
PhcycC3H3_B+H	1.38864e-11	1.000000	1.38864e-11	1.000000
Phenyl+cycC3H4	1.07882e-11	1.000000	0.00000	1.000000
rad13	8.52374e-12	1.000000	8.52374e-12	1.000000
rad20	5.88554e-12	1.000000	5.88554e-12	1.000000
rad27	5.44635e-12	1.000000	5.44635e-12	1.000000
rad14	4.89162e-12	1.000000	4.89162e-12	1.000000
rad60syn	4.87019e-12	1.000000	4.87019e-12	1.000000
PAH7+H	4.73296e-12	1.000000	4.73296e-12	1.000000
PAH3+H	4.19129e-12	1.000000	4.19129e-12	1.000000
rad21	3.99880e-12	1.000000	3.99880e-12	1.000000
PAH9+H	3.36539e-12	1.000000	3.36539e-12	1.000000
rad60anti	2.50682e-12	1.000000	2.50682e-12	1.000000
rad38	2.37395e-12	1.000000	2.37395e-12	1.000000
rad59	7.62950e-13	1.000000	7.62950e-13	1.000000
PAH10+CH3	6.90368e-13	1.000000	6.90368e-13	1.000000
rad25	6.15711e-13	1.000000	6.15711e-13	1.000000
rad46	1.67616e-13	1.000000	1.67616e-13	1.000000
rad39	1.57695e-13	1.000000	1.57695e-13	1.000000
rad43	7.16907e-14	1.000000	7.16907e-14	1.000000
rad33	1.16180e-14	1.000000	1.16180e-14	1.000000
rad62	1.03445e-14	1.000000	1.03445e-14	1.000000
rad50	3.57198e-15	1.000000	3.57198e-15	1.000000
rad70	3.00949e-15	1.000000	3.00949e-15	1.000000
rad54	8.94738e-16	1.000000	8.94738e-16	1.000000
rad24	7.16920e-16	1.000000	7.16920e-16	1.000000
rad58	6.80700e-16	1.000000	6.80700e-16	1.000000
PAH1+H	5.57027e-16	1.000000	5.57027e-16	1.000000
rad34	1.41133e-16	1.000000	1.41133e-16	1.000000
rad31	8.86429e-17	1.000000	8.86429e-17	1.000000
rad41	7.80185e-17	1.000000	7.80185e-17	1.000000
rad52	5.50888e-17	1.000000	5.50888e-17	1.000000
rad51	3.74357e-17	1.000000	3.74357e-17	1.000000
rad42	2.39219e-17	1.000000	2.39219e-17	1.000000
rad55	1.97314e-17	1.000000	1.97314e-17	1.000000
rad65	7.63899e-19	1.000000	7.63899e-19	1.000000
rad61	2.61093e-19	1.000000	2.61093e-19	1.000000
rad53	3.78118e-20	1.000000	3.78118e-20	1.000000
rad68syn	8.38267e-21	1.000000	8.38267e-21	1.000000
rad68anti	6.06744e-21	1.000000	6.06744e-21	1.000000
rad64	1.86659e-21	1.000000	1.86659e-21	1.000000

rad56	1.26302e-21	1.000000	1.26302e-21	1.000000
rad40syn	6.95193e-22	1.000000	6.95193e-22	1.000000
rad40anti	6.04245e-22	1.000000	6.04245e-22	1.000000
PAH8+H	2.26323e-22	1.000000	2.26323e-22	1.000000
rad47	2.66379e-23	1.000000	2.66379e-23	1.000000
rad19syn	1.63881e-23	1.000000	1.63881e-23	1.000000
rad73	7.30314e-24	1.000000	7.30314e-24	1.000000
rad71	1.60618e-25	1.000000	1.60618e-25	1.000000
rad8	3.81400e-41	1.000000	3.81400e-41	1.000000

10000.0000 Pa, 400.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.29463e-13 (1.00)	1.29463e-13 (1.00)
Formation of rad19	1.28526e-13 (0.993)	1.28526e-13 (0.993)
H-abstraction to cyc2enyl	9.19357e-16 (0.00710)	9.19357e-16 (0.00710)
H-abstraction to cyclenyl	1.69485e-17 (0.000131)	1.69485e-17 (0.000131)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.796589	0.796589	0.796589	0.796589
Indene+H	0.194254	0.990843	0.194254	0.990843
Benzene+cycloprop-2-enylidene	0.00710133	0.997944	0.00710133	0.997944
rad15	0.00167193	0.999616	0.00167193	0.999616
PhCHCCH2+H	0.000224080	0.999840	0.000224080	0.999840
Benzene+cycloprop-1-enylidene	0.000130914	0.999971	0.000130914	0.999971
rad6	1.25061e-05	0.999984	1.25061e-05	0.999984
rad2	2.72623e-06	0.999986	2.72623e-06	0.999986
Ph+MeAc	2.53571e-06	0.999989	2.53571e-06	0.999989
C2H2+PhCH2	2.45820e-06	0.999991	2.45820e-06	0.999991
PhCCCH3+H	2.03771e-06	0.999993	2.03771e-06	0.999993
PhCCH+CH3	1.90995e-06	0.999995	1.90995e-06	0.999995
rad26	1.20789e-06	0.999996	1.20789e-06	0.999996
rad67	1.08182e-06	0.999997	1.08182e-06	0.999997
rad23	4.48941e-07	0.999998	4.48941e-07	0.999998
rad35	4.24062e-07	0.999998	4.24062e-07	0.999998
rad10	3.72686e-07	0.999999	3.72686e-07	0.999999
rad19anti	2.57284e-07	0.999999	2.57284e-07	0.999999
rad1	2.54486e-07	0.999999	2.54486e-07	0.999999
Ph+Allene	1.50398e-07	0.999999	1.50398e-07	0.999999
rad45	1.34574e-07	1.000000	1.34574e-07	1.000000
PhCH2CCH+H	6.87845e-08	1.000000	6.87845e-08	1.000000
rad3	3.76847e-08	1.000000	3.76847e-08	1.000000
rad12	2.60744e-08	1.000000	2.60744e-08	1.000000
rad11	2.07751e-08	1.000000	2.07751e-08	1.000000
rad4	1.99263e-08	1.000000	1.99263e-08	1.000000
rad7	1.23696e-08	1.000000	1.23696e-08	1.000000
rad37	1.04937e-08	1.000000	1.04937e-08	1.000000
rad22	9.64726e-09	1.000000	9.64726e-09	1.000000
rad28	9.17851e-09	1.000000	9.17851e-09	1.000000
rad30	8.44822e-09	1.000000	8.44822e-09	1.000000
rad36	5.16092e-09	1.000000	5.16092e-09	1.000000
PhcycC3H3_A+H	5.14848e-09	1.000000	5.14848e-09	1.000000
PAH7+H	1.84603e-09	1.000000	1.84603e-09	1.000000
PAH9+H	6.22422e-10	1.000000	6.22422e-10	1.000000
PAH10+CH3	5.98923e-10	1.000000	5.98923e-10	1.000000
PhcycC3H3_B+H	4.76125e-10	1.000000	4.76125e-10	1.000000
rad38	4.63285e-10	1.000000	4.63285e-10	1.000000
rad5	3.78486e-10	1.000000	3.78486e-10	1.000000
rad39	3.71712e-10	1.000000	3.71712e-10	1.000000
PAH3+H	2.44878e-10	1.000000	2.44878e-10	1.000000
Phenyl+cycC3H4	2.22360e-10	1.000000	0.000000	1.000000
rad60syn	1.24062e-10	1.000000	1.24062e-10	1.000000
rad60anti	6.76212e-11	1.000000	6.76212e-11	1.000000
rad13	6.70041e-11	1.000000	6.70041e-11	1.000000
rad18	5.41857e-11	1.000000	5.41857e-11	1.000000
rad46	3.72943e-11	1.000000	3.72943e-11	1.000000
rad59	3.65980e-11	1.000000	3.65980e-11	1.000000
rad27	1.63838e-11	1.000000	1.63838e-11	1.000000
rad43	1.47003e-11	1.000000	1.47003e-11	1.000000
rad14	1.43013e-11	1.000000	1.43013e-11	1.000000
rad20	4.90008e-12	1.000000	4.90008e-12	1.000000
rad21	3.51488e-12	1.000000	3.51488e-12	1.000000
rad50	3.44879e-12	1.000000	3.44879e-12	1.000000
rad54	2.32565e-12	1.000000	2.32565e-12	1.000000
rad62	1.89049e-12	1.000000	1.89049e-12	1.000000
PAH1+H	1.06898e-12	1.000000	1.06898e-12	1.000000
rad70	9.75235e-13	1.000000	9.75235e-13	1.000000
rad25	5.98737e-13	1.000000	5.98737e-13	1.000000

rad51	1.68233e-13	1.000000	1.68233e-13	1.000000
rad58	1.64040e-13	1.000000	1.64040e-13	1.000000
rad52	1.21779e-13	1.000000	1.21779e-13	1.000000
rad33	1.13925e-13	1.000000	1.13925e-13	1.000000
rad34	8.87848e-14	1.000000	8.87848e-14	1.000000
rad55	8.59669e-14	1.000000	8.59669e-14	1.000000
rad41	7.23068e-14	1.000000	7.23068e-14	1.000000
rad19syn	2.04905e-14	1.000000	2.04905e-14	1.000000
rad42	1.49079e-14	1.000000	1.49079e-14	1.000000
rad31	9.63394e-15	1.000000	9.63394e-15	1.000000
rad61	8.68889e-15	1.000000	8.68889e-15	1.000000
rad24	5.14220e-15	1.000000	5.14220e-15	1.000000
rad65	5.03096e-15	1.000000	5.03096e-15	1.000000
rad53	1.67967e-15	1.000000	1.67967e-15	1.000000
rad64	6.33299e-16	1.000000	6.33299e-16	1.000000
rad56	3.78195e-16	1.000000	3.78195e-16	1.000000
rad68syn	1.52938e-16	1.000000	1.52938e-16	1.000000
rad68anti	1.04739e-16	1.000000	1.04739e-16	1.000000
PAH8+H	7.83946e-17	1.000000	7.83946e-17	1.000000
rad40syn	5.01576e-17	1.000000	5.01576e-17	1.000000
rad40anti	4.18467e-17	1.000000	4.18467e-17	1.000000
rad73	3.63346e-17	1.000000	3.63346e-17	1.000000
rad71	1.36134e-17	1.000000	1.36134e-17	1.000000
rad47	7.50928e-20	1.000000	7.50928e-20	1.000000
rad72	1.83771e-20	1.000000	1.83771e-20	1.000000
rad8	1.66240e-29	1.000000	1.66240e-29	1.000000

10000.0000 Pa, 500.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.52837e-13 (1.00)	2.52837e-13 (1.00)
Formation of rad19	2.47941e-13 (0.981)	2.47941e-13 (0.981)
H-abstraction to cyc2enyl	4.69058e-15 (0.0186)	4.69058e-15 (0.0186)
H-abstraction to cyc1enyl	2.05381e-16 (0.000812)	2.05381e-16 (0.000812)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.590299	0.590299	0.590299	0.590299
Indene+H	0.387679	0.977977	0.387679	0.977977
Benzene+cycloprop-2-enylidene	0.0185518	0.996529	0.0185518	0.996529
PhCHCCH2+H	0.00127642	0.997806	0.00127642	0.997806
rad15	0.00121302	0.999019	0.00121302	0.999019
Benzene+cycloprop-1-enylidene	0.000812306	0.999831	0.000812306	0.999831
rad6	6.34738e-05	0.999894	6.34738e-05	0.999894
Ph+MeAc	2.44155e-05	0.999919	2.44155e-05	0.999919
C2H2+PhCH2	2.03988e-05	0.999939	2.03988e-05	0.999939
PhCCCH3+H	1.65501e-05	0.999956	1.65501e-05	0.999956
PhCCH+CH3	1.29918e-05	0.999969	1.29918e-05	0.999969
rad67	8.12136e-06	0.999977	8.12136e-06	0.999977
rad2	4.30078e-06	0.999981	4.30078e-06	0.999981
Ph+Allene	3.50193e-06	0.999985	3.50193e-06	0.999985
rad19anti	3.50104e-06	0.999988	3.50104e-06	0.999988
rad26	3.31710e-06	0.999992	3.31710e-06	0.999992
rad35	3.07566e-06	0.999995	3.07566e-06	0.999995
PhCH2CCH+H	1.59838e-06	0.999996	1.59838e-06	0.999996
rad23	1.16085e-06	0.999997	1.16085e-06	0.999997
rad10	5.80292e-07	0.999998	5.80292e-07	0.999998
rad1	5.14803e-07	0.999998	5.14803e-07	0.999998
rad45	4.76783e-07	0.999999	4.76783e-07	0.999999
rad37	2.06293e-07	0.999999	2.06293e-07	0.999999
PAH7+H	1.02818e-07	0.999999	1.02818e-07	0.999999
rad28	1.01605e-07	0.999999	1.01605e-07	0.999999
PhcycC3H3_A+H	7.66326e-08	0.999999	7.66326e-08	0.999999
rad30	6.99488e-08	0.999999	6.99488e-08	0.999999
rad7	6.08548e-08	1.000000	6.08548e-08	1.000000
rad3	6.07951e-08	1.000000	6.07951e-08	1.000000
rad12	4.59242e-08	1.000000	4.59242e-08	1.000000
rad11	4.29229e-08	1.000000	4.29229e-08	1.000000
rad4	3.43346e-08	1.000000	3.43346e-08	1.000000
PAH10+CH3	2.69439e-08	1.000000	2.69439e-08	1.000000
rad36	2.21875e-08	1.000000	2.21875e-08	1.000000
rad39	2.17451e-08	1.000000	2.17451e-08	1.000000
PhcycC3H3_B+H	2.07094e-08	1.000000	2.07094e-08	1.000000
PAH9+H	1.83345e-08	1.000000	1.83345e-08	1.000000
rad38	1.44372e-08	1.000000	1.44372e-08	1.000000
rad22	1.08387e-08	1.000000	1.08387e-08	1.000000
PAH3+H	5.28599e-09	1.000000	5.28599e-09	1.000000
Phenyl+cycC3H4	3.56029e-09	1.000000	0.000000	1.000000
rad60syn	1.64815e-09	1.000000	1.64815e-09	1.000000

rad46	1.51846e-09	1.000000	1.51846e-09	1.000000
rad60anti	9.30744e-10	1.000000	9.30744e-10	1.000000
rad59	7.17447e-10	1.000000	7.17447e-10	1.000000
rad5	3.63726e-10	1.000000	3.63726e-10	1.000000
rad50	3.45729e-10	1.000000	3.45729e-10	1.000000
rad13	3.37289e-10	1.000000	3.37289e-10	1.000000
rad43	3.35961e-10	1.000000	3.35961e-10	1.000000
rad54	2.54478e-10	1.000000	2.54478e-10	1.000000
rad19syn	1.46129e-10	1.000000	1.46129e-10	1.000000
PAH1+H	1.08866e-10	1.000000	1.08866e-10	1.000000
rad70	5.86404e-11	1.000000	5.86404e-11	1.000000
rad18	5.27890e-11	1.000000	5.27890e-11	1.000000
rad51	3.89357e-11	1.000000	3.89357e-11	1.000000
rad62	3.84374e-11	1.000000	3.84374e-11	1.000000
rad27	2.37801e-11	1.000000	2.37801e-11	1.000000
rad14	2.00332e-11	1.000000	2.00332e-11	1.000000
rad52	1.85759e-11	1.000000	1.85759e-11	1.000000
rad55	1.17756e-11	1.000000	1.17756e-11	1.000000
rad20	9.60107e-12	1.000000	9.60107e-12	1.000000
rad58	8.66982e-12	1.000000	8.66982e-12	1.000000
rad34	7.53377e-12	1.000000	7.53377e-12	1.000000
rad21	7.12885e-12	1.000000	7.12885e-12	1.000000
rad41	3.60405e-12	1.000000	3.60405e-12	1.000000
rad61	2.13541e-12	1.000000	2.13541e-12	1.000000
rad25	1.18980e-12	1.000000	1.18980e-12	1.000000
rad65	1.15440e-12	1.000000	1.15440e-12	1.000000
rad33	6.94997e-13	1.000000	6.94997e-13	1.000000
rad31	6.93431e-13	1.000000	6.93431e-13	1.000000
rad53	5.96487e-13	1.000000	5.96487e-13	1.000000
rad42	5.82647e-13	1.000000	5.82647e-13	1.000000
rad56	2.73451e-13	1.000000	2.73451e-13	1.000000
rad64	2.34955e-13	1.000000	2.34955e-13	1.000000
rad73	1.25923e-13	1.000000	1.25923e-13	1.000000
PAH8+H	1.08980e-13	1.000000	1.08980e-13	1.000000
rad71	1.08291e-13	1.000000	1.08291e-13	1.000000
rad68syn	6.66854e-14	1.000000	6.66854e-14	1.000000
rad68anti	4.45027e-14	1.000000	4.45027e-14	1.000000
rad40syn	2.88573e-14	1.000000	2.88573e-14	1.000000
rad24	2.67782e-14	1.000000	2.67782e-14	1.000000
rad40anti	2.24662e-14	1.000000	2.24662e-14	1.000000
rad72	1.42372e-15	1.000000	1.42372e-15	1.000000
rad47	8.53434e-17	1.000000	8.53434e-17	1.000000
rad8	1.78490e-25	1.000000	1.78490e-25	1.000000

10000.0000 Pa, 600.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.35570e-13 (1.00)	4.35570e-13 (1.00)
Formation of rad19	4.18892e-13 (0.962)	4.18892e-13 (0.962)
H-abstraction to cyc2enyl	1.54751e-14 (0.0355)	1.54751e-14 (0.0355)
H-abstraction to cyclenyl	1.20343e-15 (0.00276)	1.20343e-15 (0.00276)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.615472	0.615472	0.615472	0.615472
rad9	0.339221	0.954693	0.339221	0.954693
Benzene+cycloprop-2-enylidene	0.0355285	0.990221	0.0355285	0.990221
PhCHCCH2+H	0.00559011	0.995812	0.00559011	0.995812
Benzene+cycloprop-1-enylidene	0.00276289	0.998574	0.00276289	0.998574
rad15	0.000667115	0.999242	0.000667115	0.999242
rad6	0.000184989	0.999427	0.000184989	0.999427
Ph+MeAc	0.000139300	0.999566	0.000139300	0.999566
C2H2+PhCH2	0.000126230	0.999692	0.000126230	0.999692
PhCCCH3+H	8.09675e-05	0.999773	8.09675e-05	0.999773
PhCCH+CH3	5.79177e-05	0.999831	5.79177e-05	0.999831
Ph+Allene	4.99246e-05	0.999881	4.99246e-05	0.999881
rad67	4.47737e-05	0.999926	4.47737e-05	0.999926
PhCH2CCH+H	2.28505e-05	0.999949	2.28505e-05	0.999949
rad35	1.65616e-05	0.999965	1.65616e-05	0.999965
rad19anti	9.38274e-06	0.999974	9.38274e-06	0.999974
rad2	5.81278e-06	0.999980	5.81278e-06	0.999980
rad26	4.18637e-06	0.999984	4.18637e-06	0.999984
rad23	2.39683e-06	0.999987	2.39683e-06	0.999987
PhcycC3H3_A+H	2.16172e-06	0.999989	2.16172e-06	0.999989
rad37	1.89599e-06	0.999991	1.89599e-06	0.999991
PAH7+H	1.78636e-06	0.999993	1.78636e-06	0.999993
PhcycC3H3_B+H	1.75974e-06	0.999994	1.75974e-06	0.999994
rad45	1.40486e-06	0.999996	1.40486e-06	0.999996
rad1	8.62405e-07	0.999997	8.62405e-07	0.999997

PAH10+CH3	5.77964e-07	0.999997	5.77964e-07	0.999997
rad10	5.18847e-07	0.999998	5.18847e-07	0.999998
rad30	4.39267e-07	0.999998	4.39267e-07	0.999998
rad28	3.97477e-07	0.999999	3.97477e-07	0.999999
rad39	3.67133e-07	0.999999	3.67133e-07	0.999999
PAH9+H	3.33653e-07	0.999999	3.33653e-07	0.999999
rad38	2.48561e-07	1.000000	2.48561e-07	1.000000
rad7	1.75119e-07	1.000000	1.75119e-07	1.000000
rad12	1.28535e-07	1.000000	1.28535e-07	1.000000
rad11	1.02488e-07	1.000000	1.02488e-07	1.000000
PAH3+H	9.03038e-08	1.000000	9.03038e-08	1.000000
rad36	8.33660e-08	1.000000	8.33660e-08	1.000000
rad3	7.59166e-08	1.000000	7.59166e-08	1.000000
rad4	4.64002e-08	1.000000	4.64002e-08	1.000000
rad46	3.91535e-08	1.000000	3.91535e-08	1.000000
Phenyl+cycC3H4	3.65009e-08	1.000000	0.000000	1.000000
rad50	2.18920e-08	1.000000	2.18920e-08	1.000000
rad60syn	1.65079e-08	1.000000	1.65079e-08	1.000000
rad22	1.64312e-08	1.000000	1.64312e-08	1.000000
rad19syn	1.52354e-08	1.000000	1.52354e-08	1.000000
rad59	1.06967e-08	1.000000	1.06967e-08	1.000000
rad60anti	9.65969e-09	1.000000	9.65969e-09	1.000000
rad54	8.32059e-09	1.000000	8.32059e-09	1.000000
PAH1+H	5.21425e-09	1.000000	5.21425e-09	1.000000
rad51	5.02245e-09	1.000000	5.02245e-09	1.000000
rad43	4.45250e-09	1.000000	4.45250e-09	1.000000
rad70	1.89012e-09	1.000000	1.89012e-09	1.000000
rad52	1.67287e-09	1.000000	1.67287e-09	1.000000
rad13	1.10797e-09	1.000000	1.10797e-09	1.000000
rad62	4.60994e-10	1.000000	4.60994e-10	1.000000
rad55	4.55460e-10	1.000000	4.55460e-10	1.000000
rad58	4.06387e-10	1.000000	4.06387e-10	1.000000
rad34	3.38914e-10	1.000000	3.38914e-10	1.000000
rad61	2.53953e-10	1.000000	2.53953e-10	1.000000
rad5	2.18343e-10	1.000000	2.18343e-10	1.000000
rad65	1.39710e-10	1.000000	1.39710e-10	1.000000
rad41	1.12129e-10	1.000000	1.12129e-10	1.000000
rad71	1.08452e-10	1.000000	1.08452e-10	1.000000
rad73	8.44433e-11	1.000000	8.44433e-11	1.000000
rad18	7.94713e-11	1.000000	7.94713e-11	1.000000
rad53	4.96264e-11	1.000000	4.96264e-11	1.000000
PAH8+H	4.86304e-11	1.000000	4.86304e-11	1.000000
rad56	3.75113e-11	1.000000	3.75113e-11	1.000000
rad20	3.06892e-11	1.000000	3.06892e-11	1.000000
rad21	2.44638e-11	1.000000	2.44638e-11	1.000000
rad27	2.28757e-11	1.000000	2.28757e-11	1.000000
rad64	2.01247e-11	1.000000	2.01247e-11	1.000000
rad14	1.83095e-11	1.000000	1.83095e-11	1.000000
rad31	1.75487e-11	1.000000	1.75487e-11	1.000000
rad42	1.31316e-11	1.000000	1.31316e-11	1.000000
rad68syn	1.20215e-11	1.000000	1.20215e-11	1.000000
rad40syn	8.17256e-12	1.000000	8.17256e-12	1.000000
rad68anti	7.87216e-12	1.000000	7.87216e-12	1.000000
rad40anti	6.46582e-12	1.000000	6.46582e-12	1.000000
rad33	3.25376e-12	1.000000	3.25376e-12	1.000000
rad25	3.15867e-12	1.000000	3.15867e-12	1.000000
rad72	3.13662e-12	1.000000	3.13662e-12	1.000000
rad24	2.02067e-13	1.000000	2.02067e-13	1.000000
rad47	3.99776e-14	1.000000	3.99776e-14	1.000000
rad8	8.11054e-22	1.000000	8.11054e-22	1.000000

10000.0000 Pa, 700.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.91694e-13 (1.00)	6.91694e-13 (1.00)
Formation of rad19	6.47922e-13 (0.937)	6.47922e-13 (0.937)
H-abstraction to cyc2enyl	3.91858e-14 (0.0567)	3.91858e-14 (0.0567)
H-abstraction to cyc1enyl	4.58543e-15 (0.00663)	4.58542e-15 (0.00663)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.741188	0.741188	0.741188	0.741188
rad9	0.175448	0.916636	0.175448	0.916636
Benzene+cycloprop-2-enylidene	0.0566520	0.973288	0.0566520	0.973288
PhCHCCH2+H	0.0173668	0.990655	0.0173668	0.990655
Benzene+cycloprop-1-enylidene	0.00662927	0.997284	0.00662927	0.997284
Ph+MeAc	0.000503768	0.997788	0.000503768	0.997788
C2H2+PhCH2	0.000485968	0.998274	0.000485968	0.998274
Ph+Allene	0.000316121	0.998590	0.000316122	0.998590

PhCCCH3+H	0.000257310	0.998848	0.000257310	0.998848
rad6	0.000254820	0.999102	0.000254820	0.999102
rad15	0.000244493	0.999347	0.000244493	0.999347
PhCCH+CH3	0.000176887	0.999524	0.000176887	0.999524
rad67	0.000166916	0.999691	0.000166916	0.999691
PhCH2CCH+H	0.000152016	0.999843	0.000152016	0.999843
rad35	6.08959e-05	0.999904	6.08959e-05	0.999904
PhcycC3H3_A+H	1.76308e-05	0.999921	1.76308e-05	0.999921
PhcycC3H3_B+H	1.72431e-05	0.999939	1.72431e-05	0.999939
PAH7+H	1.09429e-05	0.999949	1.09430e-05	0.999949
rad37	9.27311e-06	0.999959	9.27311e-06	0.999959
rad19anti	8.86047e-06	0.999968	8.86048e-06	0.999968
rad2	5.80738e-06	0.999973	5.80738e-06	0.999973
PAH10+CH3	4.97213e-06	0.999978	4.97213e-06	0.999978
rad23	3.17403e-06	0.999982	3.17403e-06	0.999982
rad26	2.72877e-06	0.999984	2.72877e-06	0.999984
PAH9+H	2.60332e-06	0.999987	2.60332e-06	0.999987
rad39	2.16674e-06	0.999989	2.16674e-06	0.999989
rad45	2.07680e-06	0.999991	2.07680e-06	0.999991
rad38	1.90076e-06	0.999993	1.90076e-06	0.999993
rad30	1.86108e-06	0.999995	1.86108e-06	0.999995
rad1	1.04077e-06	0.999996	1.04077e-06	0.999996
PAH3+H	7.49232e-07	0.999997	7.49233e-07	0.999997
rad12	6.65010e-07	0.999997	6.65010e-07	0.999997
rad28	5.97949e-07	0.999998	5.97949e-07	0.999998
rad46	3.64181e-07	0.999998	3.64181e-07	0.999998
rad10	3.22242e-07	0.999999	3.22242e-07	0.999999
rad50	2.87639e-07	0.999999	2.87639e-07	0.999999
Phenyl+cycC3H4	2.70349e-07	0.999999	0.00000	0.999999
rad7	2.44479e-07	0.999999	2.44479e-07	0.999999
rad36	1.58737e-07	1.000000	1.58737e-07	0.999999
rad11	1.42126e-07	1.000000	1.42126e-07	0.999999
rad60syn	1.00374e-07	1.000000	1.00374e-07	1.000000
rad19syn	8.88007e-08	1.000000	8.88007e-08	1.000000
rad59	8.25386e-08	1.000000	8.25386e-08	1.000000
rad54	8.03580e-08	1.000000	8.03581e-08	1.000000
rad51	7.99196e-08	1.000000	7.99196e-08	1.000000
rad60anti	6.01608e-08	1.000000	6.01608e-08	1.000000
rad3	5.95855e-08	1.000000	5.95855e-08	1.000000
PAH1+H	5.91118e-08	1.000000	5.91118e-08	1.000000
rad4	4.01602e-08	1.000000	4.01602e-08	1.000000
rad43	3.07100e-08	1.000000	3.07100e-08	1.000000
rad52	2.42419e-08	1.000000	2.42420e-08	1.000000
rad22	2.00063e-08	1.000000	2.00063e-08	1.000000
rad70	1.90710e-08	1.000000	1.90710e-08	1.000000
rad55	4.75139e-09	1.000000	4.75139e-09	1.000000
rad58	4.59148e-09	1.000000	4.59148e-09	1.000000
rad34	3.77707e-09	1.000000	3.77707e-09	1.000000
rad61	3.17862e-09	1.000000	3.17862e-09	1.000000
rad62	2.94690e-09	1.000000	2.94690e-09	1.000000
rad71	2.52560e-09	1.000000	2.52561e-09	1.000000
rad65	2.16123e-09	1.000000	2.16123e-09	1.000000
rad13	2.12818e-09	1.000000	2.12818e-09	1.000000
rad73	1.84319e-09	1.000000	1.84319e-09	1.000000
rad41	1.14615e-09	1.000000	1.14615e-09	1.000000
PAH8+H	6.87449e-10	1.000000	6.87449e-10	1.000000
rad53	6.21401e-10	1.000000	6.21401e-10	1.000000
rad56	4.84296e-10	1.000000	4.84297e-10	1.000000
rad64	2.68718e-10	1.000000	2.68718e-10	1.000000
rad68syn	1.58941e-10	1.000000	1.58941e-10	1.000000
rad18	1.19885e-10	1.000000	1.19885e-10	1.000000
rad42	1.19778e-10	1.000000	1.19778e-10	1.000000
rad40syn	1.12858e-10	1.000000	1.12858e-10	1.000000
rad68anti	1.03969e-10	1.000000	1.03969e-10	1.000000
rad5	9.57008e-11	1.000000	9.57008e-11	1.000000
rad20	9.43042e-11	1.000000	9.43042e-11	1.000000
rad40anti	8.98471e-11	1.000000	8.98471e-11	1.000000
rad31	8.54090e-11	1.000000	8.54090e-11	1.000000
rad21	8.46279e-11	1.000000	8.46279e-11	1.000000
rad72	8.18961e-11	1.000000	8.18961e-11	1.000000
rad27	2.07354e-11	1.000000	2.07354e-11	1.000000
rad14	1.38274e-11	1.000000	1.38274e-11	1.000000
rad33	1.16119e-11	1.000000	1.16119e-11	1.000000
rad25	6.13051e-12	1.000000	6.13052e-12	1.000000
rad47	3.52881e-12	1.000000	3.52881e-12	1.000000
rad24	1.95580e-12	1.000000	1.95580e-12	1.000000
rad8	8.11504e-18	1.000000	8.11504e-18	1.000000

10000.0000 Pa, 800.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.03759e-12 (1.00)	1.03758e-12 (1.00)
Formation of rad19	9.41065e-13 (0.907)	9.41063e-13 (0.907)
H-abstraction to cyc2enyl	8.32953e-14 (0.0803)	8.32953e-14 (0.0803)
H-abstraction to cyc1enyl	1.32261e-14 (0.0127)	1.32261e-14 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.737041	0.737041	0.737041	0.737041
rad9	0.120186	0.857227	0.120187	0.857228
Benzene+cycloprop-2-enylidene	0.0802780	0.937505	0.0802781	0.937506
PhCHCCH2+H	0.0430488	0.980553	0.0430488	0.980555
Benzene+cycloprop-1-enylidene	0.0127470	0.993300	0.0127470	0.993302
Ph+MeAc	0.00137468	0.994675	0.00137468	0.994677
C2H2+PhCH2	0.00132551	0.996000	0.00132552	0.996002
Ph+Allene	0.00114321	0.997144	0.00114321	0.997146
PhCCCH3+H	0.000626383	0.997770	0.000626384	0.997772
PhCH2CCH+H	0.000624201	0.998394	0.000624202	0.998396
rad67	0.000482989	0.998877	0.000482989	0.998879
PhCCH+CH3	0.000406611	0.999284	0.000406611	0.999286
rad6	0.000197488	0.999481	0.000197489	0.999483
rad35	0.000174712	0.999656	0.000174712	0.999658
rad15	8.89497e-05	0.999745	8.89498e-05	0.999747
PhcycC3H3_A+H	4.81255e-05	0.999793	4.81256e-05	0.999795
PhcycC3H3_B+H	4.41168e-05	0.999837	4.41169e-05	0.999839
PAH7+H	3.45363e-05	0.999872	3.45364e-05	0.999874
rad37	3.16461e-05	0.999903	3.16462e-05	0.999905
PAH10+CH3	2.85592e-05	0.999932	2.85592e-05	0.999934
PAH9+H	1.03926e-05	0.999942	1.03926e-05	0.999944
rad38	8.16947e-06	0.999951	8.16949e-06	0.999952
rad19anti	6.75013e-06	0.999957	6.75014e-06	0.999959
rad39	6.36807e-06	0.999964	6.36808e-06	0.999966
rad30	6.12160e-06	0.999970	6.12161e-06	0.999972
rad12	5.24600e-06	0.999975	5.24601e-06	0.999977
PAH3+H	4.36442e-06	0.999979	4.36443e-06	0.999981
rad2	3.72500e-06	0.999983	3.72501e-06	0.999985
rad23	3.28766e-06	0.999986	3.28767e-06	0.999988
rad45	2.49613e-06	0.999989	2.49613e-06	0.999991
rad46	1.52214e-06	0.999990	1.52214e-06	0.999992
Phenyl+cycC3H4	1.34512e-06	0.999992	0.000000	0.999992
rad50	1.28956e-06	0.999993	1.28956e-06	0.999994
rad26	1.28206e-06	0.999994	1.28206e-06	0.999995
rad1	7.96649e-07	0.999995	7.96650e-07	0.999996
rad28	4.77122e-07	0.999996	4.77123e-07	0.999996
rad60syn	4.55681e-07	0.999996	4.55681e-07	0.999997
rad59	4.53265e-07	0.999997	4.53266e-07	0.999997
rad54	4.17574e-07	0.999997	4.17575e-07	0.999998
PAH1+H	4.02522e-07	0.999997	4.02523e-07	0.999998
rad51	3.64213e-07	0.999998	3.64213e-07	0.999998
rad60anti	2.78634e-07	0.999998	2.78634e-07	0.999999
rad36	2.34113e-07	0.999998	2.34113e-07	0.999999
rad7	2.03981e-07	0.999998	2.03982e-07	0.999999
rad10	1.66307e-07	0.999999	1.66307e-07	0.999999
rad43	1.48963e-07	0.999999	1.48963e-07	0.999999
rad19syn	1.44435e-07	0.999999	1.44435e-07	0.999999
rad11	1.27944e-07	0.999999	1.27944e-07	1.000000
rad70	1.16820e-07	0.999999	1.16821e-07	1.000000
rad52	1.09783e-07	0.999999	1.09783e-07	1.000000
rad3	3.41356e-08	0.999999	3.41357e-08	1.000000
rad58	3.28865e-08	0.999999	3.28865e-08	1.000000
rad55	2.71478e-08	0.999999	2.71478e-08	1.000000
rad34	2.55129e-08	0.999999	2.55130e-08	1.000000
rad61	2.53997e-08	0.999999	2.53997e-08	1.000000
rad4	2.50954e-08	0.999999	2.50954e-08	1.000000
rad22	1.92421e-08	0.999999	1.92421e-08	1.000000
rad62	1.22735e-08	0.999999	1.22735e-08	1.000000
rad71	1.15527e-08	0.999999	1.15527e-08	1.000000
rad65	9.94924e-09	0.999999	9.94924e-09	1.000000
rad73	8.43403e-09	0.999999	8.43404e-09	1.000000
rad41	7.47446e-09	0.999999	7.47447e-09	1.000000
PAH8+H	4.77205e-09	0.999999	4.77206e-09	1.000000
rad53	4.71282e-09	0.999999	4.71283e-09	1.000000
rad56	3.95879e-09	0.999999	3.95879e-09	1.000000
rad13	3.27416e-09	0.999999	3.27416e-09	1.000000
rad64	1.80898e-09	0.999999	1.80898e-09	1.000000
rad68syn	1.21450e-09	0.999999	1.21451e-09	1.000000
rad40syn	8.22359e-10	0.999999	8.22361e-10	1.000000
rad68anti	7.94914e-10	0.999999	7.94915e-10	1.000000
rad42	6.67584e-10	1.000000	6.67585e-10	1.000000

rad40anti	6.49654e-10	1.000000	6.49654e-10	1.000000
rad72	3.75251e-10	1.000000	3.75251e-10	1.000000
rad21	3.72244e-10	1.000000	3.72244e-10	1.000000
rad20	3.47768e-10	1.000000	3.47769e-10	1.000000
rad18	1.90791e-10	1.000000	1.90791e-10	1.000000
rad31	1.81587e-10	1.000000	1.81587e-10	1.000000
rad33	4.60404e-11	1.000000	4.60405e-11	1.000000
rad24	4.27997e-11	1.000000	4.27998e-11	1.000000
rad5	3.88304e-11	1.000000	3.88305e-11	1.000000
rad47	3.40215e-11	1.000000	3.40216e-11	1.000000
rad27	2.17772e-11	1.000000	2.17772e-11	1.000000
rad25	1.07864e-11	1.000000	1.07864e-11	1.000000
rad14	1.06968e-11	1.000000	1.06968e-11	1.000000
rad8	1.06096e-13	1.000000	1.06096e-13	1.000000

10000.0000 Pa, 900.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.49199e-12 (1.00)	1.49199e-12 (1.00)
Formation of rad19	1.30395e-12 (0.874)	1.30394e-12 (0.874)
H-abstraction to cyc2enyl	1.56554e-13 (0.105)	1.56554e-13 (0.105)
H-abstraction to cyclenyl	3.14892e-14 (0.0211)	3.14890e-14 (0.0211)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.686916	0.686916	0.686920	0.686920
Benzene+cycloprop-2-enylidene	0.104929	0.791846	0.104930	0.791850
PhCHCCH2+H	0.0889277	0.880774	0.0889285	0.880778
rad9	0.0831258	0.963899	0.0831262	0.963904
Benzene+cycloprop-1-enylidene	0.0211054	0.985005	0.0211054	0.985010
Ph+MeAc	0.00301008	0.988015	0.00301010	0.988020
C2H2+PhCH2	0.00288931	0.990904	0.00288933	0.990909
Ph+Allene	0.00279997	0.993704	0.00279998	0.993709
PhCH2CCH+H	0.00182491	0.995529	0.00182492	0.995534
PhCCCH3+H	0.00123926	0.996768	0.00123926	0.996773
rad67	0.00112520	0.997894	0.00112520	0.997898
PhCCH+CH3	0.000805593	0.998699	0.000805597	0.998704
rad35	0.000406441	0.999106	0.000406443	0.999110
PhcycC3H3_A+H	0.000149098	0.999255	0.000149099	0.999260
PhcycC3H3_B+H	0.000142142	0.999397	0.000142142	0.999402
rad6	0.000120539	0.999517	0.000120540	0.999522
PAH10+CH3	0.000115304	0.999633	0.000115305	0.999638
rad37	7.82665e-05	0.999711	7.82669e-05	0.999716
PAH7+H	7.51003e-05	0.999786	7.51007e-05	0.999791
rad15	4.07972e-05	0.999827	4.07975e-05	0.999832
PAH9+H	3.32536e-05	0.999860	3.32537e-05	0.999865
rad38	2.67134e-05	0.999887	2.67135e-05	0.999892
rad12	2.07492e-05	0.999908	2.07494e-05	0.999912
PAH3+H	2.02533e-05	0.999928	2.02533e-05	0.999933
rad30	1.61525e-05	0.999944	1.61527e-05	0.999949
rad39	1.30318e-05	0.999957	1.30319e-05	0.999962
Phenyl+cycC3H4	5.19964e-06	0.999962	0.000000	0.999962
rad46	5.16950e-06	0.999967	5.16953e-06	0.999967
rad50	4.97911e-06	0.999972	4.97913e-06	0.999972
rad19anti	4.92350e-06	0.999977	4.92353e-06	0.999977
rad23	3.35412e-06	0.999981	3.35414e-06	0.999980
rad45	3.05593e-06	0.999984	3.05596e-06	0.999983
rad2	2.21272e-06	0.999986	2.21274e-06	0.999986
PAH1+H	2.04865e-06	0.999988	2.04866e-06	0.999988
rad59	1.95154e-06	0.999990	1.95155e-06	0.999990
rad60syn	1.62627e-06	0.999992	1.62627e-06	0.999991
rad51	1.49116e-06	0.999993	1.49117e-06	0.999993
rad54	1.33819e-06	0.999994	1.33820e-06	0.999994
rad60anti	1.01365e-06	0.999995	1.01366e-06	0.999995
rad1	5.58846e-07	0.999996	5.58850e-07	0.999996
rad26	5.53665e-07	0.999996	5.53668e-07	0.999996
rad43	5.47828e-07	0.999997	5.47831e-07	0.999997
rad70	5.13434e-07	0.999998	5.13437e-07	0.999997
rad52	4.37036e-07	0.999998	4.37038e-07	0.999998
rad36	3.05043e-07	0.999998	3.05044e-07	0.999998
rad28	2.94296e-07	0.999999	2.94297e-07	0.999998
rad58	2.05594e-07	0.999999	2.05595e-07	0.999998
rad61	1.73002e-07	0.999999	1.73003e-07	0.999999
rad19syn	1.51739e-07	0.999999	1.51739e-07	0.999999
rad7	1.49386e-07	0.999999	1.49387e-07	0.999999
rad34	1.28430e-07	0.999999	1.28431e-07	0.999999
rad11	1.11654e-07	1.000000	1.11655e-07	0.999999
rad55	9.58740e-08	1.000000	9.58739e-08	0.999999
rad10	9.05410e-08	1.000000	9.05419e-08	0.999999

rad71	5.11379e-08	1.000000	5.11382e-08	0.999999
PAH8+H	4.46325e-08	1.000000	4.46328e-08	0.999999
rad65	4.16534e-08	1.000000	4.16535e-08	1.000000
rad41	3.82983e-08	1.000000	3.82984e-08	1.000000
rad62	3.73171e-08	1.000000	3.73172e-08	1.000000
rad73	3.70647e-08	1.000000	3.70648e-08	1.000000
rad56	2.43220e-08	1.000000	2.43221e-08	1.000000
rad53	2.41805e-08	1.000000	2.41806e-08	1.000000
rad22	2.22677e-08	1.000000	2.22678e-08	1.000000
rad3	2.09658e-08	1.000000	2.09660e-08	1.000000
rad4	1.63470e-08	1.000000	1.63471e-08	1.000000
rad64	9.10305e-09	1.000000	9.10313e-09	1.000000
rad68syn	9.09099e-09	1.000000	9.09107e-09	1.000000
rad40syn	6.97348e-09	1.000000	6.97351e-09	1.000000
rad13	5.94794e-09	1.000000	5.94798e-09	1.000000
rad68anti	5.92176e-09	1.000000	5.92179e-09	1.000000
rad40anti	5.55634e-09	1.000000	5.55636e-09	1.000000
rad21	2.87421e-09	1.000000	2.87422e-09	1.000000
rad42	2.73353e-09	1.000000	2.73354e-09	1.000000
rad20	1.95416e-09	1.000000	1.95417e-09	1.000000
rad72	1.66970e-09	1.000000	1.66971e-09	1.000000
rad24	7.92947e-10	1.000000	7.92952e-10	1.000000
rad18	5.18498e-10	1.000000	5.18501e-10	1.000000
rad33	2.80684e-10	1.000000	2.80685e-10	1.000000
rad31	2.67255e-10	1.000000	2.67257e-10	1.000000
rad47	1.67546e-10	1.000000	1.67547e-10	1.000000
rad8	1.21586e-10	1.000000	1.21586e-10	1.000000
rad27	3.42302e-11	1.000000	3.42305e-11	1.000000
rad25	2.71054e-11	1.000000	2.71056e-11	1.000000
rad5	1.63604e-11	1.000000	1.63604e-11	1.000000
rad14	1.26662e-11	1.000000	1.26663e-11	1.000000

10000.0000 Pa, 1000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.07591e-12 (1.00)	2.07587e-12 (1.00)
Formation of rad19	1.74189e-12 (0.839)	1.74186e-12 (0.839)
H-abstraction to cyc2enyl	2.68753e-13 (0.129)	2.68753e-13 (0.129)
H-abstraction to cyclenyl	6.52627e-14 (0.0314)	6.52614e-14 (0.0314)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.634413	0.634413	0.634424	0.634424
PhCHCCH2+H	0.131297	0.765710	0.131299	0.765723
Benzene+cycloprop-2-enylidene	0.129463	0.895173	0.129465	0.895189
rad9	0.0500337	0.945207	0.0500346	0.945223
Benzene+cycloprop-1-enylidene	0.0314382	0.976645	0.0314381	0.976661
Ph+MeAc	0.00455720	0.981202	0.00455727	0.981219
C2H2+PhCH2	0.00438849	0.985591	0.00438856	0.985607
Ph+Allene	0.00437051	0.989961	0.00437059	0.989978
PhCH2CCH+H	0.00314873	0.993110	0.00314878	0.993127
PhCCCH3+H	0.00177361	0.994884	0.00177364	0.994900
rad67	0.00175697	0.996641	0.00175700	0.996657
PhCCH+CH3	0.00119946	0.997840	0.00119948	0.997857
rad35	0.000635757	0.998476	0.000635768	0.998493
PhcycC3H3_A+H	0.000321892	0.998798	0.000321898	0.998814
PhcycC3H3_B+H	0.000320747	0.999119	0.000320753	0.999135
PAH10+CH3	0.000227344	0.999346	0.000227347	0.999363
rad37	0.000122165	0.999468	0.000122167	0.999485
PAH7+H	0.000112963	0.999581	0.000112965	0.999598
rad6	7.58349e-05	0.999657	7.58362e-05	0.999674
PAH9+H	6.33636e-05	0.999720	6.33647e-05	0.999737
rad38	4.99821e-05	0.999770	4.99830e-05	0.999787
PAH3+H	4.35283e-05	0.999814	4.35291e-05	0.999830
rad12	3.78772e-05	0.999852	3.78778e-05	0.999868
rad30	2.68820e-05	0.999879	2.68825e-05	0.999895
rad15	2.49348e-05	0.999904	2.49353e-05	0.999920
rad39	1.94845e-05	0.999923	1.94849e-05	0.999940
Phenyl+cycC3H4	1.69547e-05	0.999940	0.00000	0.999940
rad50	1.09529e-05	0.999951	1.09531e-05	0.999951
rad46	1.03031e-05	0.999961	1.03034e-05	0.999961
PAH1+H	4.52215e-06	0.999966	4.52223e-06	0.999965
rad59	4.05720e-06	0.999970	4.05728e-06	0.999969
rad19anti	3.62903e-06	0.999973	3.62909e-06	0.999973
rad51	3.47104e-06	0.999977	3.47110e-06	0.999976
rad45	3.38920e-06	0.999980	3.38927e-06	0.999980
rad23	3.27956e-06	0.999984	3.27962e-06	0.999983
rad60syn	3.11874e-06	0.999987	3.11880e-06	0.999986
rad54	2.33074e-06	0.999989	2.33078e-06	0.999989

rad60anti	1.96051e-06	0.999991	1.96055e-06	0.999991
rad2	1.60075e-06	0.999993	1.60078e-06	0.999992
rad70	1.06516e-06	0.999994	1.06517e-06	0.999993
rad43	1.05581e-06	0.999995	1.05583e-06	0.999994
rad52	9.88190e-07	0.999996	9.88204e-07	0.999995
rad58	4.97821e-07	0.999996	4.97830e-07	0.999996
rad1	4.35718e-07	0.999997	4.35725e-07	0.999996
rad61	4.24639e-07	0.999997	4.24647e-07	0.999997
rad36	3.34786e-07	0.999997	3.34792e-07	0.999997
rad34	2.82617e-07	0.999998	2.82622e-07	0.999997
rad26	2.77696e-07	0.999998	2.77701e-07	0.999998
rad28	1.86269e-07	0.999998	1.86273e-07	0.999998
rad55	1.74925e-07	0.999998	1.74928e-07	0.999998
rad19syn	1.42446e-07	0.999998	1.42448e-07	0.999998
rad7	1.41412e-07	0.999999	1.41415e-07	0.999998
rad11	1.39811e-07	0.999999	1.39813e-07	0.999998
rad71	1.35710e-07	0.999999	1.35713e-07	0.999998
PAH8+H	1.27170e-07	0.999999	1.27172e-07	0.999999
rad65	9.70116e-08	0.999999	9.70130e-08	0.999999
rad73	9.59895e-08	0.999999	9.59918e-08	0.999999
rad41	8.51996e-08	0.999999	8.52010e-08	0.999999
rad10	7.22744e-08	0.999999	7.22757e-08	0.999999
rad62	6.62563e-08	0.999999	6.62575e-08	0.999999
rad56	5.68497e-08	0.999999	5.68506e-08	0.999999
rad53	5.23577e-08	1.000000	5.23587e-08	0.999999
rad22	4.45057e-08	1.000000	4.45065e-08	0.999999
rad21	2.47897e-08	1.000000	2.47901e-08	0.999999
rad68syn	2.35473e-08	1.000000	2.35477e-08	0.999999
rad64	2.03825e-08	1.000000	2.03829e-08	0.999999
rad40syn	1.90767e-08	1.000000	1.90770e-08	0.999999
rad13	1.64038e-08	1.000000	1.64041e-08	0.999999
rad68anti	1.53083e-08	1.000000	1.53086e-08	0.999999
rad40anti	1.52706e-08	1.000000	1.52709e-08	0.999999
rad3	1.52610e-08	1.000000	1.52613e-08	0.999999
rad4	1.20823e-08	1.000000	1.20825e-08	0.999999
rad20	1.17765e-08	1.000000	1.17767e-08	0.999999
rad8	9.67766e-09	1.000000	9.67780e-09	0.999999
rad42	5.57303e-09	1.000000	5.57313e-09	0.999999
rad24	5.03808e-09	1.000000	5.03817e-09	0.999999
rad72	4.63239e-09	1.000000	4.63247e-09	0.999999
rad18	2.32855e-09	1.000000	2.32859e-09	0.999999
rad33	1.84908e-09	1.000000	1.84912e-09	0.999999
rad47	4.01253e-10	1.000000	4.01260e-10	0.999999
rad31	3.11689e-10	1.000000	3.11694e-10	0.999999
rad25	1.40889e-10	1.000000	1.40891e-10	0.999999
rad27	1.09486e-10	1.000000	1.09488e-10	0.999999
rad14	2.55761e-11	1.000000	2.55767e-11	0.999999
rad5	9.03567e-12	1.000000	9.03581e-12	0.999999

10000.0000 Pa, 1100.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.81236e-12 (1.00)	2.81222e-12 (1.00)
Formation of rad19	2.25993e-12 (0.804)	2.25980e-12 (0.804)
H-abstraction to cyc2enyl	4.30538e-13 (0.153)	4.30538e-13 (0.153)
H-abstraction to cyc1enyl	1.21896e-13 (0.0433)	1.21889e-13 (0.0433)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.598552	0.598552	0.598581	0.598581
Benzene+cycloprop-2-enylidene	0.153088	0.751639	0.153095	0.751677
PhCHCCH2+H	0.144622	0.896261	0.144629	0.896306
Benzene+cycloprop-1-enylidene	0.0433429	0.939604	0.0433425	0.939648
rad9	0.0341669	0.973771	0.0341686	0.973817
Ph+MeAc	0.00504922	0.978820	0.00504947	0.978867
Ph+Allene	0.00487356	0.983693	0.00487381	0.983740
C2H2+PhCH2	0.00486866	0.988562	0.00486890	0.988609
PhCH2CCH+H	0.00359151	0.992154	0.00359169	0.992201
rad67	0.00195929	0.994113	0.00195939	0.994160
PhCCCH3+H	0.00193798	0.996051	0.00193808	0.996098
PhCCH+CH3	0.00133110	0.997382	0.00133116	0.997430
rad35	0.000709480	0.998091	0.000709516	0.998139
PhcycC3H3_A+H	0.000458685	0.998550	0.000458709	0.998598
PhcycC3H3_B+H	0.000445732	0.998996	0.000445754	0.999044
PAH10+CH3	0.000266400	0.999262	0.000266414	0.999310
rad37	0.000135557	0.999398	0.000135564	0.999446
PAH7+H	0.000125816	0.999524	0.000125823	0.999571
PAH9+H	7.43979e-05	0.999598	7.44017e-05	0.999646
rad38	5.82147e-05	0.999656	5.82175e-05	0.999704

PAH3+H	5.23832e-05	0.999709	5.23859e-05	0.999756
rad6	5.12742e-05	0.999760	5.12767e-05	0.999808
rad12	4.77275e-05	0.999808	4.77299e-05	0.999855
Phenyl+cycC3H4	4.76032e-05	0.999855	0.00000	0.999855
rad30	3.04150e-05	0.999886	3.04165e-05	0.999886
rad15	2.44179e-05	0.999910	2.44191e-05	0.999910
rad39	2.18450e-05	0.999932	2.18461e-05	0.999932
rad50	1.34574e-05	0.999945	1.34581e-05	0.999945
rad46	1.22658e-05	0.999958	1.22665e-05	0.999958
PAH1+H	5.47074e-06	0.999963	5.47102e-06	0.999963
rad59	4.84020e-06	0.999968	4.84044e-06	0.999968
rad51	4.34976e-06	0.999972	4.34998e-06	0.999972
rad60syn	3.64818e-06	0.999976	3.64836e-06	0.999976
rad45	3.37126e-06	0.999979	3.37143e-06	0.999979
rad23	3.02333e-06	0.999982	3.02347e-06	0.999982
rad19anti	2.70528e-06	0.999985	2.70542e-06	0.999985
rad54	2.65208e-06	0.999988	2.65220e-06	0.999988
rad60anti	2.29802e-06	0.999990	2.29813e-06	0.999990
rad2	1.33524e-06	0.999991	1.33531e-06	0.999991
rad70	1.26876e-06	0.999993	1.26883e-06	0.999993
rad43	1.23372e-06	0.999994	1.23378e-06	0.999994
rad52	1.22555e-06	0.999995	1.22561e-06	0.999995
rad58	6.18237e-07	0.999996	6.18268e-07	0.999996
rad61	5.27478e-07	0.999996	5.27505e-07	0.999996
rad1	3.67126e-07	0.999997	3.67144e-07	0.999997
rad34	3.41820e-07	0.999997	3.41837e-07	0.999997
rad36	3.28408e-07	0.999997	3.28424e-07	0.999997
rad11	2.63404e-07	0.999997	2.63418e-07	0.999998
rad55	2.01142e-07	0.999998	2.01152e-07	0.999998
rad7	1.88785e-07	0.999998	1.88795e-07	0.999998
rad26	1.82401e-07	0.999998	1.82409e-07	0.999998
rad71	1.79141e-07	0.999998	1.79149e-07	0.999998
PAH8+H	1.65623e-07	0.999998	1.65631e-07	0.999999
rad19syn	1.28394e-07	0.999999	1.28400e-07	0.999999
rad28	1.26505e-07	0.999999	1.26512e-07	0.999999
rad73	1.25385e-07	0.999999	1.25391e-07	0.999999
rad65	1.21349e-07	0.999999	1.21356e-07	0.999999
rad21	1.10401e-07	0.999999	1.10406e-07	0.999999
rad41	1.03250e-07	0.999999	1.03255e-07	0.999999
rad8	9.67473e-08	0.999999	9.67529e-08	0.999999
rad22	9.27938e-08	0.999999	9.27986e-08	0.999999
rad10	9.16246e-08	0.999999	9.16286e-08	1.000000
rad62	7.62456e-08	0.999999	7.62494e-08	1.000000
rad56	6.96435e-08	1.000000	6.96470e-08	1.000000
rad53	6.28297e-08	1.000000	6.28329e-08	1.000000
rad13	5.62949e-08	1.000000	5.62976e-08	1.000000
rad20	3.96504e-08	1.000000	3.96523e-08	1.000000
rad68syn	2.97935e-08	1.000000	2.97950e-08	1.000000
rad64	2.48739e-08	1.000000	2.48752e-08	1.000000
rad40syn	2.45340e-08	1.000000	2.45352e-08	1.000000
rad40anti	1.96677e-08	1.000000	1.96687e-08	1.000000
rad68anti	1.93579e-08	1.000000	1.93589e-08	1.000000
rad24	1.27011e-08	1.000000	1.27017e-08	1.000000
rad3	1.22907e-08	1.000000	1.22914e-08	1.000000
rad4	9.73870e-09	1.000000	9.73917e-09	1.000000
rad18	8.26503e-09	1.000000	8.26544e-09	1.000000
rad42	6.62778e-09	1.000000	6.62811e-09	1.000000
rad33	6.44439e-09	1.000000	6.44472e-09	1.000000
rad72	6.23863e-09	1.000000	6.23894e-09	1.000000
rad25	8.63717e-10	1.000000	8.63765e-10	1.000000
rad27	5.04920e-10	1.000000	5.04946e-10	1.000000
rad47	4.87181e-10	1.000000	4.87205e-10	1.000000
rad31	3.12335e-10	1.000000	3.12350e-10	1.000000
rad14	6.97084e-11	1.000000	6.97118e-11	1.000000
rad5	7.55813e-12	1.000000	7.55851e-12	1.000000

10000.0000 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	3.72623e-12 (1.00)	3.72576e-12 (1.00)		
Formation of rad19	2.86288e-12 (0.768)	2.86245e-12 (0.768)		
H-abstraction to cyc2enyl	6.53266e-13 (0.175)	6.53266e-13 (0.175)		
H-abstraction to cyclenyl	2.10085e-13 (0.0564)	2.10053e-13 (0.0564)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.572481	0.572481	0.572553	0.572553
Benzene+cycloprop-2-enylidene	0.175315	0.747796	0.175337	0.747890
PhCHCCH2+H	0.143688	0.891484	0.143705	0.891596

Benzene+cycloprop-1-enylidene	0.0563801	0.947864	0.0563786	0.947974
rad9	0.0258215	0.973685	0.0258248	0.973799
Ph+MeAc	0.00501110	0.978696	0.00501172	0.978811
Ph+Allene	0.00484983	0.983546	0.00485044	0.983661
C2H2+PhCH2	0.00482205	0.988368	0.00482266	0.988484
PhCH2CCH+H	0.00351883	0.991887	0.00351927	0.992003
rad67	0.00193819	0.993825	0.00193843	0.993941
PhCCCH3+H	0.00193356	0.995759	0.00193381	0.995875
PhCCH+CH3	0.00131541	0.997074	0.00131558	0.997191
rad35	0.000701461	0.997776	0.000701550	0.997892
PhcycC3H3_A+H	0.000609753	0.998385	0.000609829	0.998502
PhcycC3H3_B+H	0.000564628	0.998950	0.000564700	0.999067
PAH10+CH3	0.000256339	0.999206	0.000256372	0.999323
rad37	0.000134491	0.999341	0.000134508	0.999458
PAH7+H	0.000125506	0.999466	0.000125521	0.999583
Phenyl+cycC3H4	0.000117647	0.999584	0.000000	0.999583
PAH9+H	7.15355e-05	0.999655	7.15445e-05	0.999655
rad38	5.62082e-05	0.999712	5.62153e-05	0.999711
PAH3+H	5.00692e-05	0.999762	5.00755e-05	0.999761
rad12	4.94711e-05	0.999811	4.94773e-05	0.999811
rad6	3.67167e-05	0.999848	3.67213e-05	0.999847
rad15	3.51390e-05	0.999883	3.51435e-05	0.999882
rad30	2.98602e-05	0.999913	2.98640e-05	0.999912
rad39	2.17589e-05	0.999935	2.17616e-05	0.999934
rad50	1.28109e-05	0.999947	1.28125e-05	0.999947
rad46	1.17417e-05	0.999959	1.17432e-05	0.999959
PAH1+H	5.21572e-06	0.999964	5.21638e-06	0.999964
rad59	4.63922e-06	0.999969	4.63981e-06	0.999969
rad51	4.13829e-06	0.999973	4.13881e-06	0.999973
rad60syn	3.52497e-06	0.999977	3.52542e-06	0.999976
rad45	3.24446e-06	0.999980	3.24487e-06	0.999979
rad23	2.77106e-06	0.999983	2.77141e-06	0.999982
rad54	2.60762e-06	0.999985	2.60795e-06	0.999985
rad60anti	2.21841e-06	0.999988	2.21870e-06	0.999987
rad19anti	2.04417e-06	0.999990	2.04442e-06	0.999989
rad70	1.21686e-06	0.999991	1.21701e-06	0.999990
rad43	1.18967e-06	0.999992	1.18982e-06	0.999991
rad52	1.16593e-06	0.999993	1.16608e-06	0.999993
rad2	1.14737e-06	0.999994	1.14752e-06	0.999994
rad11	6.40686e-07	0.999995	6.40767e-07	0.999994
rad58	5.86432e-07	0.999996	5.86506e-07	0.999995
rad61	4.98904e-07	0.999996	4.98967e-07	0.999996
rad34	3.26146e-07	0.999996	3.26187e-07	0.999996
rad7	3.22387e-07	0.999997	3.22427e-07	0.999996
rad1	3.15182e-07	0.999997	3.15221e-07	0.999996
rad36	3.13813e-07	0.999997	3.13852e-07	0.999997
rad8	2.88628e-07	0.999998	2.88664e-07	0.999997
rad21	2.50596e-07	0.999998	2.50628e-07	0.999997
rad55	1.96406e-07	0.999998	1.96430e-07	0.999998
rad71	1.71761e-07	0.999998	1.71783e-07	0.999998
rad10	1.68598e-07	0.999998	1.68619e-07	0.999998
rad26	1.64008e-07	0.999999	1.64029e-07	0.999998
PAH8+H	1.56814e-07	0.999999	1.56834e-07	0.999998
rad13	1.42708e-07	0.999999	1.42726e-07	0.999998
rad22	1.42529e-07	0.999999	1.42547e-07	0.999998
rad73	1.19915e-07	0.999999	1.19931e-07	0.999999
rad65	1.15385e-07	0.999999	1.15399e-07	0.999999
rad19syn	1.13957e-07	0.999999	1.13972e-07	0.999999
rad41	9.82339e-08	0.999999	9.82466e-08	0.999999
rad28	9.14114e-08	1.000000	9.14227e-08	0.999999
rad62	7.45010e-08	1.000000	7.45104e-08	0.999999
rad20	7.40796e-08	1.000000	7.40889e-08	0.999999
rad56	6.61881e-08	1.000000	6.61964e-08	0.999999
rad53	6.00791e-08	1.000000	6.00867e-08	0.999999
rad68syn	2.82023e-08	1.000000	2.82059e-08	0.999999
rad64	2.37751e-08	1.000000	2.37782e-08	0.999999
rad40syn	2.32073e-08	1.000000	2.32102e-08	0.999999
rad18	2.02088e-08	1.000000	2.02114e-08	0.999999
rad40anti	1.86033e-08	1.000000	1.86056e-08	0.999999
rad68anti	1.83246e-08	1.000000	1.83269e-08	0.999999
rad24	1.80768e-08	1.000000	1.80791e-08	0.999999
rad33	1.19299e-08	1.000000	1.19314e-08	0.999999
rad3	1.01163e-08	1.000000	1.01176e-08	0.999999
rad4	8.00420e-09	1.000000	8.00521e-09	0.999999
rad42	6.37532e-09	1.000000	6.37613e-09	0.999999
rad72	6.01653e-09	1.000000	6.01729e-09	0.999999
rad25	3.04091e-09	1.000000	3.04129e-09	0.999999
rad27	1.54435e-09	1.000000	1.54454e-09	0.999999
rad47	4.40034e-10	1.000000	4.40090e-10	0.999999
rad31	2.98872e-10	1.000000	2.98909e-10	0.999999

rad14	1.63929e-10	1.00000	1.63950e-10	0.999999
rad5	9.93372e-12	1.00000	9.93491e-12	0.999999

10000.0000 Pa, 1300.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.84401e-12 (1.00)	4.84262e-12 (1.00)
Formation of rad19	3.55537e-12 (0.734)	3.55411e-12 (0.734)
H-abstraction to cyc2enyl	9.48893e-13 (0.196)	9.48893e-13 (0.196)
H-abstraction to cyc1enyl	3.39740e-13 (0.0701)	3.39620e-13 (0.0701)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.544980	0.544980	0.545135	0.545135
Benzene+cycloprop-2-enylidene	0.195890	0.740870	0.195946	0.741081
PhCHCCH2+H	0.142840	0.883710	0.142881	0.883962
Benzene+cycloprop-1-enylidene	0.0701362	0.953846	0.0701313	0.954093
rad9	0.0194704	0.973317	0.0194760	0.973569
Ph+MeAc	0.00497340	0.978290	0.00497482	0.978544
Ph+Allene	0.00483791	0.983128	0.00483929	0.983383
C2H2+PhCH2	0.00476692	0.987895	0.00476828	0.988151
PhCH2CCH+H	0.00342090	0.991316	0.00342188	0.991573
PhCCCH3+H	0.00193497	0.993251	0.00193552	0.993509
rad67	0.00191607	0.995167	0.00191662	0.995426
PhCCH+CH3	0.00128831	0.996455	0.00128868	0.996714
PhcycC3H3_A+H	0.000878655	0.997334	0.000878902	0.997593
PhcycC3H3_B+H	0.000799650	0.998133	0.000799880	0.998393
rad35	0.000692597	0.998826	0.000692795	0.999086
Phenyl+cycC3H4	0.000260616	0.999087	0.000000	0.999086
PAH10+CH3	0.000241422	0.999328	0.000241491	0.999327
rad37	0.000134313	0.999462	0.000134351	0.999462
PAH7+H	0.000124440	0.999587	0.000124475	0.999586
PAH9+H	6.65208e-05	0.999653	6.65398e-05	0.999653
rad15	6.14628e-05	0.999715	6.14804e-05	0.999714
rad38	5.29818e-05	0.999768	5.29970e-05	0.999767
PAH3+H	4.58647e-05	0.999814	4.58778e-05	0.999813
rad12	4.58458e-05	0.999860	4.58589e-05	0.999859
rad30	2.91542e-05	0.999889	2.91625e-05	0.999888
rad6	2.89340e-05	0.999918	2.89422e-05	0.999917
rad39	2.13046e-05	0.999939	2.13107e-05	0.999938
rad50	1.13635e-05	0.999950	1.13667e-05	0.999950
rad46	1.07464e-05	0.999961	1.07495e-05	0.999960
PAH1+H	4.74943e-06	0.999966	4.75078e-06	0.999965
rad59	4.28955e-06	0.999970	4.29078e-06	0.999969
rad51	3.61067e-06	0.999974	3.61169e-06	0.999973
rad60syn	3.32966e-06	0.999977	3.33061e-06	0.999976
rad45	3.09906e-06	0.999980	3.09993e-06	0.999979
rad23	2.66311e-06	0.999983	2.66386e-06	0.999982
rad54	2.57048e-06	0.999985	2.57121e-06	0.999985
rad60anti	2.09091e-06	0.999987	2.09151e-06	0.999987
rad19anti	1.56678e-06	0.999989	1.56723e-06	0.999988
rad11	1.45876e-06	0.999990	1.45918e-06	0.999990
rad70	1.12806e-06	0.999992	1.12838e-06	0.999991
rad43	1.12241e-06	0.999993	1.12274e-06	0.999992
rad52	1.02568e-06	0.999994	1.02598e-06	0.999993
rad2	9.70460e-07	0.999995	9.70737e-07	0.999994
rad7	6.01764e-07	0.999995	6.01936e-07	0.999995
rad58	5.19998e-07	0.999996	5.20146e-07	0.999995
rad8	4.79670e-07	0.999996	4.79807e-07	0.999996
rad61	4.40780e-07	0.999997	4.40905e-07	0.999996
rad10	3.71521e-07	0.999997	3.71628e-07	0.999996
rad21	3.64618e-07	0.999997	3.64721e-07	0.999997
rad36	2.99075e-07	0.999998	2.99161e-07	0.999997
rad34	2.97273e-07	0.999998	2.97358e-07	0.999997
rad1	2.66904e-07	0.999998	2.66980e-07	0.999998
rad13	2.25635e-07	0.999999	2.25700e-07	0.999998
rad26	2.03523e-07	0.999999	2.03581e-07	0.999998
rad55	1.91214e-07	0.999999	1.91268e-07	0.999998
rad22	1.78424e-07	0.999999	1.78475e-07	0.999998
rad71	1.45626e-07	0.999999	1.45667e-07	0.999999
PAH8+H	1.33572e-07	0.999999	1.33611e-07	0.999999
rad73	1.02074e-07	1.000000	1.02103e-07	0.999999
rad65	1.00834e-07	1.000000	1.00863e-07	0.999999
rad19syn	1.00708e-07	1.000000	1.00737e-07	0.999999
rad20	9.70541e-08	1.000000	9.70818e-08	0.999999
rad41	8.89987e-08	1.000000	8.90241e-08	0.999999
rad28	7.31184e-08	1.000000	7.31393e-08	0.999999
rad62	7.18921e-08	1.000000	7.19127e-08	0.999999
rad56	5.97689e-08	1.000000	5.97859e-08	0.999999

rad53	5.55404e-08	1.00000	5.55563e-08	1.000000
rad18	4.55968e-08	1.00000	4.56098e-08	1.000000
rad68syn	2.45817e-08	1.00000	2.45888e-08	1.000000
rad64	2.15873e-08	1.00000	2.15935e-08	1.000000
rad24	2.04241e-08	1.00000	2.04300e-08	1.000000
rad40syn	1.99355e-08	1.00000	1.99412e-08	1.000000
rad68anti	1.59801e-08	1.00000	1.59846e-08	1.000000
rad40anti	1.59589e-08	1.00000	1.59634e-08	1.000000
rad33	1.51123e-08	1.00000	1.51166e-08	1.000000
rad3	8.18447e-09	1.00000	8.18683e-09	1.000000
rad4	6.46124e-09	1.00000	6.46309e-09	1.000000
rad25	6.03136e-09	1.00000	6.03309e-09	1.000000
rad42	5.93506e-09	1.00000	5.93675e-09	1.000000
rad72	5.07351e-09	1.00000	5.07496e-09	1.000000
rad27	2.83865e-09	1.00000	2.83947e-09	1.000000
rad47	3.61952e-10	1.00000	3.62056e-10	1.000000
rad31	2.84885e-10	1.00000	2.84967e-10	1.000000
rad14	2.67963e-10	1.00000	2.68039e-10	1.000000
rad5	2.12408e-11	1.00000	2.12468e-11	1.000000

10000.0000 Pa, 1400.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.19360e-12 (1.00)	6.18997e-12 (1.00)
Formation of rad19	4.34185e-12 (0.701)	4.33861e-12 (0.701)
H-abstraction to cyc2enyl	1.32990e-12 (0.215)	1.32990e-12 (0.215)
H-abstraction to cyclenyl	5.21850e-13 (0.0843)	5.21461e-13 (0.0842)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.511190	0.511190	0.511490	0.511490
Benzene+cycloprop-2-enylidene	0.214721	0.725911	0.214847	0.726337
PhCHCCH2+H	0.146948	0.872859	0.147035	0.873372
Benzene+cycloprop-1-enylidene	0.0842564	0.957116	0.0842429	0.957615
rad9	0.0142598	0.971376	0.0142682	0.971883
Ph+MeAc	0.00512153	0.976497	0.00512453	0.977007
Ph+Allene	0.00502365	0.981521	0.00502659	0.982034
C2H2+PhCH2	0.00489213	0.986413	0.00489500	0.986929
PhCH2CCH+H	0.00350274	0.989916	0.00350479	0.990434
PhCCCH3+H	0.00199556	0.991911	0.00199673	0.992430
rad67	0.00197412	0.993885	0.00197528	0.994406
PhcycC3H3_A+H	0.00135231	0.995238	0.00135310	0.995759
PhCCH+CH3	0.00130436	0.996542	0.00130513	0.997064
PhcycC3H3_B+H	0.00126490	0.997807	0.00126564	0.998330
rad35	0.000712772	0.998520	0.000713190	0.999043
Phenyl+cycC3H4	0.000523428	0.999043	0.000000	0.999043
PAH10+CH3	0.000242920	0.999286	0.000243062	0.999286
rad37	0.000140063	0.999426	0.000140145	0.999426
PAH7+H	0.000127174	0.999553	0.000127248	0.999553
rad15	0.000104801	0.999658	0.000104863	0.999658
PAH9+H	6.54116e-05	0.999723	6.54500e-05	0.999724
rad38	5.29194e-05	0.999776	5.29504e-05	0.999776
PAH3+H	4.46997e-05	0.999821	4.47259e-05	0.999821
rad12	3.97710e-05	0.999861	3.97943e-05	0.999861
rad30	2.98902e-05	0.999891	2.99078e-05	0.999891
rad6	2.63486e-05	0.999917	2.63641e-05	0.999917
rad39	2.13497e-05	0.999938	2.13623e-05	0.999939
rad50	1.05193e-05	0.999949	1.05255e-05	0.999949
rad46	1.03780e-05	0.999959	1.03841e-05	0.999960
PAH1+H	4.61001e-06	0.999964	4.61272e-06	0.999964
rad59	4.22212e-06	0.999968	4.22460e-06	0.999968
rad60syn	3.34012e-06	0.999971	3.34208e-06	0.999972
rad51	3.25094e-06	0.999975	3.25284e-06	0.999975
rad45	2.93291e-06	0.999978	2.93463e-06	0.999978
rad23	2.81931e-06	0.999980	2.82097e-06	0.999981
rad54	2.69064e-06	0.999983	2.69222e-06	0.999983
rad11	2.44569e-06	0.999986	2.44713e-06	0.999986
rad60anti	2.09374e-06	0.999988	2.09497e-06	0.999988
rad19anti	1.21754e-06	0.999989	1.21825e-06	0.999989
rad43	1.12727e-06	0.999990	1.12793e-06	0.999990
rad70	1.11421e-06	0.999991	1.11487e-06	0.999991
rad7	9.89921e-07	0.999992	9.90498e-07	0.999992
rad52	9.37064e-07	0.999993	9.37614e-07	0.999993
rad2	7.99313e-07	0.999994	7.99780e-07	0.999994
rad10	7.19964e-07	0.999995	7.20381e-07	0.999995
rad8	6.01948e-07	0.999995	6.02301e-07	0.999995
rad58	4.87232e-07	0.999996	4.87519e-07	0.999996
rad21	4.24557e-07	0.999996	4.24806e-07	0.999996
rad61	4.12704e-07	0.999996	4.12946e-07	0.999997

rad26	3.27444e-07	0.999997	3.27636e-07	0.999997
rad34	2.88439e-07	0.999997	2.88609e-07	0.999997
rad36	2.83214e-07	0.999997	2.83380e-07	0.999998
rad13	2.58163e-07	0.999998	2.58315e-07	0.999998
rad1	2.20786e-07	0.999998	2.20916e-07	0.999998
rad22	2.10799e-07	0.999998	2.10922e-07	0.999998
rad55	1.98786e-07	0.999998	1.98903e-07	0.999999
rad71	1.22556e-07	0.999998	1.22628e-07	0.999999
PAH8+H	1.16984e-07	0.999999	1.17053e-07	0.999999
rad20	1.05828e-07	0.999999	1.05891e-07	0.999999
rad18	9.24277e-08	0.999999	9.24816e-08	0.999999
rad65	9.11897e-08	0.999999	9.12431e-08	0.999999
rad19syn	8.90607e-08	0.999999	8.91130e-08	0.999999
rad73	8.69674e-08	0.999999	8.70187e-08	0.999999
rad41	8.58584e-08	0.999999	8.59084e-08	0.999999
rad62	7.32330e-08	0.999999	7.32759e-08	0.999999
rad28	6.82116e-08	0.999999	6.82517e-08	1.000000
rad56	5.79722e-08	0.999999	5.80062e-08	1.000000
rad53	5.53132e-08	0.999999	5.53457e-08	1.000000
rad68syn	2.24551e-08	0.999999	2.24684e-08	1.000000
rad24	2.14372e-08	0.999999	2.14497e-08	1.000000
rad64	2.08156e-08	0.999999	2.08278e-08	1.000000
rad40syn	1.77609e-08	0.999999	1.77714e-08	1.000000
rad33	1.55283e-08	0.999999	1.55374e-08	1.000000
rad68anti	1.46094e-08	0.999999	1.46180e-08	1.000000
rad40anti	1.41827e-08	0.999999	1.41910e-08	1.000000
rad25	8.27690e-09	0.999999	8.28174e-09	1.000000
rad3	6.45067e-09	0.999999	6.45446e-09	1.000000
rad42	5.88001e-09	0.999999	5.88346e-09	1.000000
rad4	5.07586e-09	0.999999	5.07884e-09	1.000000
rad72	4.18128e-09	0.999999	4.18374e-09	1.000000
rad27	3.73729e-09	0.999999	3.73948e-09	1.000000
rad14	3.30771e-10	0.999999	3.30965e-10	1.000000
rad47	3.06542e-10	0.999999	3.06722e-10	1.000000
rad31	2.72006e-10	0.999999	2.72166e-10	1.000000
rad5	7.49982e-11	0.999999	7.50422e-11	1.000000

10000.0000 Pa, 1500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.80417e-12 (1.00)	7.79561e-12 (1.00)
Formation of rad19	5.22661e-12 (0.670)	5.21915e-12 (0.669)
H-abstraction to cyc2enyl	1.80920e-12 (0.232)	1.80920e-12 (0.232)
H-abstraction to cyc1enyl	7.68359e-13 (0.0985)	7.67262e-13 (0.0984)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.471299	0.471299	0.471816	0.471816
Benzene+cycloprop-2-enylidene	0.231825	0.703124	0.232079	0.703896
PhCHCCH2+H	0.155887	0.859011	0.156057	0.859953
Benzene+cycloprop-1-enylidene	0.0984549	0.957465	0.0984223	0.958375
rad9	0.0101731	0.967638	0.0101842	0.968559
Ph+MeAc	0.00545517	0.973094	0.00546116	0.974021
Ph+Allene	0.00540302	0.978497	0.00540896	0.979430
C2H2+PhCH2	0.00520497	0.983702	0.00521068	0.984640
PhCH2CCH+H	0.00379417	0.987496	0.00379834	0.988439
rad67	0.00211441	0.989610	0.00211674	0.990555
PhCCCH3+H	0.00210849	0.991719	0.00211080	0.992666
PhcycC3H3_A+H	0.00208945	0.993808	0.00209175	0.994758
PhcycC3H3_B+H	0.00205144	0.995860	0.00205369	0.996812
PhCCH+CH3	0.00137179	0.997231	0.00137330	0.998185
Phenyl+cycC3H4	0.000956200	0.998188	0.000000	0.998185
rad35	0.000763126	0.998951	0.000763965	0.998949
PAH10+CH3	0.000266103	0.999217	0.000266396	0.999215
rad37	0.000151225	0.999368	0.000151391	0.999367
rad15	0.000142039	0.999510	0.000142195	0.999509
PAH7+H	0.000134095	0.999644	0.000134243	0.999643
PAH9+H	7.01673e-05	0.999714	7.02438e-05	0.999713
rad38	5.72054e-05	0.999772	5.72682e-05	0.999771
PAH3+H	4.82387e-05	0.999820	4.82917e-05	0.999819
rad12	3.31397e-05	0.999853	3.31761e-05	0.999852
rad30	3.22494e-05	0.999885	3.22848e-05	0.999884
rad6	2.75187e-05	0.999913	2.75489e-05	0.999912
rad39	2.20993e-05	0.999935	2.21235e-05	0.999934
rad46	1.10424e-05	0.999946	1.10546e-05	0.999945
rad50	1.09083e-05	0.999957	1.09203e-05	0.999956
PAH1+H	4.98885e-06	0.999962	4.99433e-06	0.999961
rad59	4.57189e-06	0.999966	4.57690e-06	0.999966
rad60syn	3.62645e-06	0.999970	3.63044e-06	0.999969

rad23	3.29543e-06	0.999973	3.29905e-06	0.999973
rad51	3.29496e-06	0.999976	3.29858e-06	0.999976
rad11	3.09960e-06	0.999980	3.10300e-06	0.999979
rad54	2.98260e-06	0.999983	2.98588e-06	0.999982
rad45	2.73384e-06	0.999985	2.73685e-06	0.999985
rad60anti	2.27310e-06	0.999988	2.27560e-06	0.999987
rad7	1.27275e-06	0.999989	1.27414e-06	0.999988
rad43	1.22833e-06	0.999990	1.22967e-06	0.999989
rad70	1.21003e-06	0.999991	1.21136e-06	0.999991
rad10	1.06621e-06	0.999992	1.06739e-06	0.999992
rad52	9.61933e-07	0.999993	9.62993e-07	0.999993
rad19anti	9.58510e-07	0.999994	9.59565e-07	0.999994
rad8	6.57229e-07	0.999995	6.57951e-07	0.999994
rad2	6.41745e-07	0.999996	6.42450e-07	0.999995
rad26	5.99446e-07	0.999996	6.00104e-07	0.999996
rad58	5.16190e-07	0.999997	5.16756e-07	0.999996
rad21	4.45492e-07	0.999997	4.45981e-07	0.999996
rad61	4.39537e-07	0.999998	4.40019e-07	0.999997
rad34	3.11410e-07	0.999998	3.11752e-07	0.999997
rad36	2.64581e-07	0.999998	2.64871e-07	0.999997
rad22	2.44915e-07	0.999998	2.45184e-07	0.999998
rad13	2.43800e-07	0.999999	2.44068e-07	0.999998
rad55	2.21294e-07	0.999999	2.21538e-07	0.999998
rad1	1.78486e-07	0.999999	1.78682e-07	0.999998
rad18	1.41881e-07	0.999999	1.42037e-07	0.999999
PAH8+H	1.17614e-07	0.999999	1.17743e-07	0.999999
rad71	1.14641e-07	0.999999	1.14767e-07	0.999999
rad20	1.04855e-07	1.000000	1.04971e-07	0.999999
rad65	9.29438e-08	1.000000	9.30455e-08	0.999999
rad41	9.25647e-08	1.000000	9.26659e-08	0.999999
rad73	8.28263e-08	1.000000	8.29174e-08	0.999999
rad62	7.94898e-08	1.000000	7.95772e-08	0.999999
rad19syn	7.89915e-08	1.000000	7.90785e-08	0.999999
rad28	7.43999e-08	1.000000	7.44810e-08	0.999999
rad56	6.39002e-08	1.000000	6.39703e-08	0.999999
rad53	6.15228e-08	1.000000	6.15904e-08	0.999999
rad68syn	2.34199e-08	1.000000	2.34456e-08	1.000000
rad64	2.24239e-08	1.000000	2.24485e-08	1.000000
rad24	2.19946e-08	1.000000	2.20187e-08	1.000000
rad40syn	1.81518e-08	1.000000	1.81718e-08	1.000000
rad68anti	1.52464e-08	1.000000	1.52632e-08	1.000000
rad40anti	1.44627e-08	1.000000	1.44786e-08	1.000000
rad33	1.41922e-08	1.000000	1.42078e-08	1.000000
rad25	9.26538e-09	1.000000	9.27556e-09	1.000000
rad42	6.39175e-09	1.000000	6.39877e-09	1.000000
rad3	4.96774e-09	1.000000	4.97319e-09	1.000000
rad27	4.08265e-09	1.000000	4.08713e-09	1.000000
rad4	3.89105e-09	1.000000	3.89532e-09	1.000000
rad72	3.77543e-09	1.000000	3.77958e-09	1.000000
rad5	3.63751e-10	1.000000	3.64150e-10	1.000000
rad14	3.42851e-10	1.000000	3.43227e-10	1.000000
rad47	2.93266e-10	1.000000	2.93588e-10	1.000000
rad31	2.58894e-10	1.000000	2.59178e-10	1.000000

1000.00000 Pa, 20.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.24541e-22 (1.00)	1.24541e-22 (1.00)
Formation of rad19	1.24541e-22 (1.00)	1.24541e-22 (1.00)
H-abstraction to cyc2enyl	3.84323e-68 (3.09e-46)	3.84323e-68 (3.09e-46)
H-abstraction to cyclenyl	6.26313e-106 (5.03e-84)	6.26313e-106 (5.03e-84)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.982279	0.982279	0.982279	0.982279
Indene+H	0.0152977	0.997577	0.0152977	0.997577
rad15	0.00242171	0.999998	0.00242171	0.999998
PhCHCCH2+H	1.61398e-06	1.000000	1.61398e-06	1.000000
rad2	5.94208e-08	1.000000	5.94208e-08	1.000000
rad6	5.32302e-08	1.000000	5.32302e-08	1.000000
rad11	2.22624e-08	1.000000	2.22624e-08	1.000000
rad19anti	1.95189e-08	1.000000	1.95189e-08	1.000000
rad12	1.93666e-08	1.000000	1.93666e-08	1.000000
rad26	9.47150e-09	1.000000	9.47150e-09	1.000000
rad22	8.48715e-09	1.000000	8.48715e-09	1.000000
C2H2+PhCH2	5.40221e-09	1.000000	5.40221e-09	1.000000
rad23	4.02199e-09	1.000000	4.02199e-09	1.000000
rad1	3.82283e-09	1.000000	3.82283e-09	1.000000
rad67	2.79382e-09	1.000000	2.79382e-09	1.000000

rad45	2.33230e-09	1.00000	2.33230e-09	1.00000
rad10	2.18682e-09	1.00000	2.18682e-09	1.00000
rad35	1.26439e-09	1.00000	1.26439e-09	1.00000
rad3	4.59329e-10	1.00000	4.59329e-10	1.00000
rad18	2.43766e-10	1.00000	2.43766e-10	1.00000
rad4	2.33622e-10	1.00000	2.33622e-10	1.00000
PhCCCH3+H	1.75533e-10	1.00000	1.75533e-10	1.00000
rad36	1.43497e-10	1.00000	1.43497e-10	1.00000
Ph+MeAc	1.04247e-10	1.00000	1.04247e-10	1.00000
PhCCH+CH3	9.81727e-11	1.00000	9.81727e-11	1.00000
rad7	4.98497e-11	1.00000	4.98497e-11	1.00000
Ph+Allene	2.83821e-11	1.00000	2.83821e-11	1.00000
rad30	2.07918e-11	1.00000	2.07918e-11	1.00000
rad20	1.51781e-11	1.00000	1.51781e-11	1.00000
rad21	1.03939e-11	1.00000	1.03939e-11	1.00000
rad5	8.28201e-12	1.00000	8.28201e-12	1.00000
PhCH2CCH+H	4.38661e-12	1.00000	4.38661e-12	1.00000
rad25	7.47331e-13	1.00000	7.47331e-13	1.00000
rad27	5.10231e-13	1.00000	5.10231e-13	1.00000
rad13	4.91521e-13	1.00000	4.91521e-13	1.00000
PhcycC3H3_A+H	3.84872e-13	1.00000	3.84872e-13	1.00000
rad14	1.93721e-13	1.00000	1.93721e-13	1.00000
rad28	1.57689e-13	1.00000	1.57689e-13	1.00000
rad37	8.09064e-14	1.00000	8.09064e-14	1.00000
rad60syn	7.36119e-14	1.00000	7.36119e-14	1.00000
rad60anti	3.53838e-14	1.00000	3.53838e-14	1.00000
PAH3+H	2.43098e-14	1.00000	2.43098e-14	1.00000
PAH7+H	1.41052e-14	1.00000	1.41052e-14	1.00000
rad59	5.15760e-15	1.00000	5.15760e-15	1.00000
rad38	4.53183e-15	1.00000	4.53183e-15	1.00000
PAH9+H	2.94203e-15	1.00000	2.94203e-15	1.00000
rad33	6.98175e-16	1.00000	6.98175e-16	1.00000
rad46	2.46695e-16	1.00000	2.46695e-16	1.00000
rad24	8.29915e-17	1.00000	8.29915e-17	1.00000
PAH10+CH3	5.11577e-17	1.00000	5.11577e-17	1.00000
Phenyl+cycC3H4	2.77435e-17	1.00000	0.00000	1.00000
rad43	8.07362e-18	1.00000	8.07362e-18	1.00000
rad39	2.60224e-18	1.00000	2.60224e-18	1.00000
rad31	1.11666e-18	1.00000	1.11666e-18	1.00000
rad50	9.92388e-19	1.00000	9.92388e-19	1.00000
rad70	3.93540e-19	1.00000	3.93540e-19	1.00000
rad62	2.85938e-19	1.00000	2.85938e-19	1.00000
rad58	1.81507e-19	1.00000	1.81507e-19	1.00000
rad54	2.02181e-20	1.00000	2.02181e-20	1.00000
rad52	4.87045e-21	1.00000	4.87045e-21	1.00000
rad34	2.87052e-21	1.00000	2.87052e-21	1.00000
PAH1+H	1.43739e-21	1.00000	1.43739e-21	1.00000
rad51	9.42632e-22	1.00000	9.42632e-22	1.00000
PhcycC3H3_B+H	2.62862e-22	1.00000	2.62862e-22	1.00000
rad55	1.01803e-22	1.00000	1.01803e-22	1.00000
rad41	4.50764e-23	1.00000	4.50764e-23	1.00000
rad42	6.85501e-24	1.00000	6.85501e-24	1.00000
rad65	3.04301e-24	1.00000	3.04301e-24	1.00000
rad47	1.76222e-25	1.00000	1.76222e-25	1.00000
rad53	1.09028e-30	1.00000	1.09028e-30	1.00000
rad61	6.33340e-34	1.00000	6.33340e-34	1.00000
rad64	2.05786e-34	1.00000	2.05786e-34	1.00000
rad19syn	1.43952e-36	1.00000	1.43952e-36	1.00000
rad68syn	7.32561e-37	1.00000	7.32561e-37	1.00000
rad68anti	6.01065e-37	1.00000	6.01065e-37	1.00000
rad56	1.02072e-37	1.00000	1.02072e-37	1.00000
rad40syn	2.56661e-42	1.00000	2.56661e-42	1.00000
rad40anti	2.03146e-42	1.00000	2.03146e-42	1.00000
rad73	1.11936e-43	1.00000	1.11936e-43	1.00000
rad8	5.55843e-44	1.00000	5.55843e-44	1.00000
PAH8+H	2.84369e-45	1.00000	2.84369e-45	1.00000
Benzene+cycloprop-2-enylidene	3.08591e-46	1.00000	3.08591e-46	1.00000
rad71	1.94839e-49	1.00000	1.94839e-49	1.00000
Benzene+cycloprop-1-enylidene	5.02895e-84	1.00000	5.02895e-84	1.00000

1000.00000 Pa, 30.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.13009e-20 (1.00)	8.13009e-20 (1.00)
Formation of rad19	8.13009e-20 (1.00)	8.13009e-20 (1.00)
H-abstraction to cyc2enyl	1.08880e-49 (1.34e-30)	1.08880e-49 (1.34e-30)
H-abstraction to cyclenyl	7.55172e-75 (9.29e-56)	7.55172e-75 (9.29e-56)

species	PYtrue	Cumul	PYeffective	Cumul
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rad9	0.966757	0.966757	0.966757	0.966757
Indene+H	0.0311564	0.997913	0.0311564	0.997913
rad15	0.00208282	0.999996	0.00208282	0.999996
PhCHCCH2+H	3.29241e-06	1.000000	3.29241e-06	1.000000
rad6	1.34459e-07	1.000000	1.34459e-07	1.000000
rad2	1.16679e-07	1.000000	1.16679e-07	1.000000
rad26	1.92802e-08	1.000000	1.92802e-08	1.000000
rad11	1.63291e-08	1.000000	1.63291e-08	1.000000
rad12	1.32235e-08	1.000000	1.32235e-08	1.000000
C2H2+PhCH2	1.23564e-08	1.000000	1.23564e-08	1.000000
rad19anti	1.18449e-08	1.000000	1.18449e-08	1.000000
rad23	1.15124e-08	1.000000	1.15124e-08	1.000000
rad1	7.44465e-09	1.000000	7.44465e-09	1.000000
rad22	7.30119e-09	1.000000	7.30119e-09	1.000000
rad10	7.25645e-09	1.000000	7.25645e-09	1.000000
rad67	5.99019e-09	1.000000	5.99019e-09	1.000000
rad45	3.74584e-09	1.000000	3.74584e-09	1.000000
rad35	2.70658e-09	1.000000	2.70658e-09	1.000000
rad3	1.27505e-09	1.000000	1.27505e-09	1.000000
PhCCCH3+H	7.12816e-10	1.000000	7.12816e-10	1.000000
rad4	6.46410e-10	1.000000	6.46410e-10	1.000000
PhCCH+CH3	6.09061e-10	1.000000	6.09061e-10	1.000000
Ph+MeAc	4.28515e-10	1.000000	4.28515e-10	1.000000
rad36	2.30065e-10	1.000000	2.30065e-10	1.000000
rad7	1.25696e-10	1.000000	1.25696e-10	1.000000
Ph+Allene	8.24920e-11	1.000000	8.24920e-11	1.000000
rad18	6.76837e-11	1.000000	6.76837e-11	1.000000
rad30	4.58870e-11	1.000000	4.58870e-11	1.000000
rad5	1.46988e-11	1.000000	1.46988e-11	1.000000
PhCH2CCH+H	1.30520e-11	1.000000	1.30520e-11	1.000000
rad20	4.55387e-12	1.000000	4.55387e-12	1.000000
rad21	3.07412e-12	1.000000	3.07412e-12	1.000000
rad28	9.04281e-13	1.000000	9.04281e-13	1.000000
rad13	8.67226e-13	1.000000	8.67226e-13	1.000000
rad27	7.34188e-13	1.000000	7.34188e-13	1.000000
rad14	4.94048e-13	1.000000	4.94048e-13	1.000000
rad25	4.43342e-13	1.000000	4.43342e-13	1.000000
PhcycC3H3_A+H	4.20664e-13	1.000000	4.20664e-13	1.000000
rad37	3.38563e-13	1.000000	3.38563e-13	1.000000
rad60syn	1.67181e-13	1.000000	1.67181e-13	1.000000
rad60anti	8.05424e-14	1.000000	8.05424e-14	1.000000
PAH3+H	5.67640e-14	1.000000	5.67640e-14	1.000000
PAH7+H	4.43234e-14	1.000000	4.43234e-14	1.000000
PAH9+H	2.12180e-14	1.000000	2.12180e-14	1.000000
rad38	1.97969e-14	1.000000	1.97969e-14	1.000000
rad59	1.20016e-14	1.000000	1.20016e-14	1.000000
rad33	1.14313e-15	1.000000	1.14313e-15	1.000000
rad46	1.10062e-15	1.000000	1.10062e-15	1.000000
PAH10+CH3	2.18286e-16	1.000000	2.18286e-16	1.000000
rad24	9.33308e-17	1.000000	9.33308e-17	1.000000
Phenyl+cycC3H4	5.25665e-17	1.000000	0.00000	1.000000
rad43	3.58060e-17	1.000000	3.58060e-17	1.000000
rad39	3.12159e-17	1.000000	3.12159e-17	1.000000
rad50	4.66359e-18	1.000000	4.66359e-18	1.000000
rad62	2.29745e-18	1.000000	2.29745e-18	1.000000
rad31	2.28664e-18	1.000000	2.28664e-18	1.000000
rad70	1.40126e-18	1.000000	1.40126e-18	1.000000
rad58	4.55759e-19	1.000000	4.55759e-19	1.000000
rad54	1.33094e-19	1.000000	1.33094e-19	1.000000
rad52	2.35577e-20	1.000000	2.35577e-20	1.000000
rad34	1.07617e-20	1.000000	1.07617e-20	1.000000
PAH1+H	6.33484e-21	1.000000	6.33484e-21	1.000000
rad51	4.68642e-21	1.000000	4.68642e-21	1.000000
rad55	6.88529e-22	1.000000	6.88529e-22	1.000000
rad41	2.18888e-22	1.000000	2.18888e-22	1.000000
PhcycC3H3_B+H	2.05993e-22	1.000000	2.05993e-22	1.000000
rad42	6.09898e-23	1.000000	6.09898e-23	1.000000
rad65	2.56806e-23	1.000000	2.56806e-23	1.000000
rad47	3.15234e-25	1.000000	3.15234e-25	1.000000
rad53	7.70182e-30	1.000000	7.70182e-30	1.000000
Benzene+cycloprop-2-enylidene	1.33923e-30	1.000000	1.33923e-30	1.000000
rad61	3.36245e-33	1.000000	3.36245e-33	1.000000
rad64	2.70779e-33	1.000000	2.70779e-33	1.000000
rad68syn	2.31526e-36	1.000000	2.31526e-36	1.000000
rad68anti	1.89996e-36	1.000000	1.89996e-36	1.000000
rad19syn	8.58166e-37	1.000000	8.58166e-37	1.000000
rad56	6.67556e-37	1.000000	6.67556e-37	1.000000
rad40syn	1.27737e-41	1.000000	1.27737e-41	1.000000
rad40anti	1.01462e-41	1.000000	1.01462e-41	1.000000

rad73	5.92987e-43	1.000000	5.92987e-43	1.000000
PAH8+H	1.32563e-44	1.000000	1.32563e-44	1.000000
rad8	3.20655e-46	1.000000	3.20655e-46	1.000000
rad71	1.02833e-48	1.000000	1.02833e-48	1.000000
Benzene+cycloprop-1-enylidene	9.28861e-56	1.000000	9.28861e-56	1.000000

1000.00000 Pa, 40.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.24819e-18 (1.00)	2.24819e-18 (1.00)
Formation of rad19	2.24819e-18 (1.00)	2.24819e-18 (1.00)
H-abstraction to cyc2enyl	1.72361e-40 (7.67e-23)	1.72361e-40 (7.67e-23)
H-abstraction to cyclenyl	2.48792e-59 (1.11e-41)	2.48792e-59 (1.11e-41)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.951824	0.951824	0.951824	0.951824
Indene+H	0.0462645	0.998089	0.0462645	0.998089
rad15	0.00190552	0.999994	0.00190552	0.999994
PhCHCCH2+H	4.96401e-06	0.999999	4.96401e-06	0.999999
rad6	2.15045e-07	0.999999	2.15045e-07	0.999999
rad2	1.71009e-07	0.999999	1.71009e-07	0.999999
rad26	2.90298e-08	0.999999	2.90298e-08	0.999999
C2H2+PhCH2	1.94718e-08	0.999999	1.94718e-08	0.999999
rad23	1.88703e-08	0.999999	1.88703e-08	0.999999
rad10	1.35037e-08	0.999999	1.35037e-08	0.999999
rad11	1.12372e-08	0.999999	1.12372e-08	0.999999
rad12	1.09460e-08	0.999999	1.09460e-08	0.999999
rad1	1.08908e-08	0.999999	1.08908e-08	0.999999
rad67	9.22662e-09	0.999999	9.22662e-09	0.999999
rad19anti	9.07448e-09	1.000000	9.07448e-09	1.000000
rad22	5.43030e-09	1.000000	5.43030e-09	1.000000
rad45	4.76407e-09	1.000000	4.76407e-09	1.000000
rad35	4.16348e-09	1.000000	4.16348e-09	1.000000
rad3	2.10728e-09	1.000000	2.10728e-09	1.000000
PhCCH+CH3	1.63114e-09	1.000000	1.63114e-09	1.000000
PhCCCH3+H	1.59221e-09	1.000000	1.59221e-09	1.000000
rad4	1.06736e-09	1.000000	1.06736e-09	1.000000
Ph+MeAc	9.67102e-10	1.000000	9.67102e-10	1.000000
rad36	2.92358e-10	1.000000	2.92358e-10	1.000000
rad7	1.94830e-10	1.000000	1.94830e-10	1.000000
Ph+Allene	1.44752e-10	1.000000	1.44752e-10	1.000000
rad30	7.12782e-11	1.000000	7.12782e-11	1.000000
rad18	3.08592e-11	1.000000	3.08592e-11	1.000000
PhCH2CCH+H	2.33173e-11	1.000000	2.33173e-11	1.000000
rad5	1.96453e-11	1.000000	1.96453e-11	1.000000
rad28	2.35370e-12	1.000000	2.35370e-12	1.000000
rad20	2.01376e-12	1.000000	2.01376e-12	1.000000
rad21	1.34491e-12	1.000000	1.34491e-12	1.000000
rad13	1.14217e-12	1.000000	1.14217e-12	1.000000
rad27	9.11844e-13	1.000000	9.11844e-13	1.000000
rad37	7.77250e-13	1.000000	7.77250e-13	1.000000
rad14	7.54599e-13	1.000000	7.54599e-13	1.000000
PhcycC3H3_A+H	4.80519e-13	1.000000	4.80519e-13	1.000000
rad25	2.72944e-13	1.000000	2.72944e-13	1.000000
rad60syn	2.64019e-13	1.000000	2.64019e-13	1.000000
rad60anti	1.27372e-13	1.000000	1.27372e-13	1.000000
PAH3+H	9.12615e-14	1.000000	9.12615e-14	1.000000
PAH7+H	8.08385e-14	1.000000	8.08385e-14	1.000000
PAH9+H	5.97745e-14	1.000000	5.97745e-14	1.000000
rad38	4.43454e-14	1.000000	4.43454e-14	1.000000
rad59	1.92496e-14	1.000000	1.92496e-14	1.000000
rad46	2.49263e-15	1.000000	2.49263e-15	1.000000
rad33	1.46048e-15	1.000000	1.46048e-15	1.000000
PAH10+CH3	5.17072e-16	1.000000	5.17072e-16	1.000000
rad39	1.26484e-16	1.000000	1.26484e-16	1.000000
Phenyl+cycC3H4	1.15739e-16	1.000000	0.000000	1.000000
rad24	9.99306e-17	1.000000	9.99306e-17	1.000000
rad43	8.49132e-17	1.000000	8.49132e-17	1.000000
rad50	1.09429e-17	1.000000	1.09429e-17	1.000000
rad62	7.10357e-18	1.000000	7.10357e-18	1.000000
rad31	3.43498e-18	1.000000	3.43498e-18	1.000000
rad70	2.79737e-18	1.000000	2.79737e-18	1.000000
rad58	7.76507e-19	1.000000	7.76507e-19	1.000000
rad54	3.81619e-19	1.000000	3.81619e-19	1.000000
rad52	5.65102e-20	1.000000	5.65102e-20	1.000000
rad34	2.26026e-20	1.000000	2.26026e-20	1.000000
PAH1+H	1.58408e-20	1.000000	1.58408e-20	1.000000
rad51	1.15079e-20	1.000000	1.15079e-20	1.000000

rad55	2.03419e-21	1.000000	2.03419e-21	1.000000
rad41	5.86304e-22	1.000000	5.86304e-22	1.000000
PhcycC3H3_B+H	3.54004e-22	1.000000	3.54004e-22	1.000000
rad42	2.13345e-22	1.000000	2.13345e-22	1.000000
rad65	8.21978e-23	1.000000	8.21978e-23	1.000000
Benzene+cycloprop-2-enylidene	7.66665e-23	1.000000	7.66665e-23	1.000000
rad47	4.26810e-25	1.000000	4.26810e-25	1.000000
rad53	2.99604e-29	1.000000	2.99604e-29	1.000000
rad64	1.54375e-32	1.000000	1.54375e-32	1.000000
rad61	1.29114e-32	1.000000	1.29114e-32	1.000000
rad68syn	6.85814e-36	1.000000	6.85814e-36	1.000000
rad68anti	5.62534e-36	1.000000	5.62534e-36	1.000000
rad56	2.83598e-36	1.000000	2.83598e-36	1.000000
rad19syn	8.74800e-37	1.000000	8.74800e-37	1.000000
rad40syn	5.36872e-41	1.000000	5.36872e-41	1.000000
rad40anti	4.26972e-41	1.000000	4.26972e-41	1.000000
Benzene+cycloprop-1-enylidene	1.10663e-41	1.000000	1.10663e-41	1.000000
rad73	2.47863e-42	1.000000	2.47863e-42	1.000000
PAH8+H	5.57705e-44	1.000000	5.57705e-44	1.000000
rad8	3.66801e-47	1.000000	3.66801e-47	1.000000
rad71	4.62861e-48	1.000000	4.62861e-48	1.000000

1000.00000 Pa, 50.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.72707e-17 (1.00)	1.72707e-17 (1.00)
Formation of rad19	1.72707e-17 (1.00)	1.72707e-17 (1.00)
H-abstraction to cyc2enyl	5.49905e-35 (3.18e-18)	5.49905e-35 (3.18e-18)
H-abstraction to cyclenyl	4.93090e-50 (2.86e-33)	4.93090e-50 (2.86e-33)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.937329	0.937329	0.937329	0.937329
Indene+H	0.0608785	0.998207	0.0608785	0.998207
rad15	0.00178546	0.999993	0.00178546	0.999993
PhCHCCH2+H	6.67013e-06	1.000000	6.67013e-06	1.000000
rad6	2.96105e-07	1.000000	2.96105e-07	1.000000
rad2	2.24617e-07	1.000000	2.24617e-07	1.000000
rad26	3.89788e-08	1.000000	3.89788e-08	1.000000
C2H2+PhCH2	2.68590e-08	1.000000	2.68590e-08	1.000000
rad23	2.58166e-08	1.000000	2.58166e-08	1.000000
rad10	2.03108e-08	1.000000	2.03108e-08	1.000000
rad1	1.43065e-08	1.000000	1.43065e-08	1.000000
rad67	1.25909e-08	1.000000	1.25909e-08	1.000000
rad12	9.69042e-09	1.000000	9.69042e-09	1.000000
rad11	8.05853e-09	1.000000	8.05853e-09	1.000000
rad19anti	7.58235e-09	1.000000	7.58235e-09	1.000000
rad35	5.67386e-09	1.000000	5.67386e-09	1.000000
rad45	5.64662e-09	1.000000	5.64662e-09	1.000000
rad22	4.07519e-09	1.000000	4.07519e-09	1.000000
PhCCH+CH3	3.21170e-09	1.000000	3.21170e-09	1.000000
rad3	2.91879e-09	1.000000	2.91879e-09	1.000000
PhCCCH3+H	2.83394e-09	1.000000	2.83394e-09	1.000000
Ph+MeAc	1.73818e-09	1.000000	1.73818e-09	1.000000
rad4	1.47805e-09	1.000000	1.47805e-09	1.000000
rad36	3.46287e-10	1.000000	3.46287e-10	1.000000
rad7	2.56724e-10	1.000000	2.56724e-10	1.000000
Ph+Allene	2.13616e-10	1.000000	2.13616e-10	1.000000
rad30	9.76081e-11	1.000000	9.76081e-11	1.000000
PhCH2CCH+H	3.49396e-11	1.000000	3.49396e-11	1.000000
rad5	2.36331e-11	1.000000	2.36331e-11	1.000000
rad18	1.73210e-11	1.000000	1.73210e-11	1.000000
rad28	4.57952e-12	1.000000	4.57952e-12	1.000000
rad37	1.42036e-12	1.000000	1.42036e-12	1.000000
rad13	1.38011e-12	1.000000	1.38011e-12	1.000000
rad20	1.07381e-12	1.000000	1.07381e-12	1.000000
rad27	1.07270e-12	1.000000	1.07270e-12	1.000000
rad14	9.82912e-13	1.000000	9.82912e-13	1.000000
rad21	7.11601e-13	1.000000	7.11601e-13	1.000000
PhcycC3H3_A+H	5.64106e-13	1.000000	5.64106e-13	1.000000
rad60syn	3.66921e-13	1.000000	3.66921e-13	1.000000
rad25	1.82078e-13	1.000000	1.82078e-13	1.000000
rad60anti	1.77239e-13	1.000000	1.77239e-13	1.000000
PAH3+H	1.28991e-13	1.000000	1.28991e-13	1.000000
PAH7+H	1.22820e-13	1.000000	1.22820e-13	1.000000
PAH9+H	1.20701e-13	1.000000	1.20701e-13	1.000000
rad38	7.82325e-14	1.000000	7.82325e-14	1.000000
rad59	2.71447e-14	1.000000	2.71447e-14	1.000000
rad46	4.43379e-15	1.000000	4.43379e-15	1.000000

rad33	1.73561e-15	1.00000	1.73561e-15	1.00000
PAH10+CH3	9.82827e-16	1.00000	9.82827e-16	1.00000
rad39	3.40542e-16	1.00000	3.40542e-16	1.00000
Phenyl+cycC3H4	2.36666e-16	1.00000	0.00000	1.00000
rad43	1.60219e-16	1.00000	1.60219e-16	1.00000
rad24	1.06210e-16	1.00000	1.06210e-16	1.00000
rad50	2.00871e-17	1.00000	2.00871e-17	1.00000
rad62	1.56770e-17	1.00000	1.56770e-17	1.00000
rad70	4.59880e-18	1.00000	4.59880e-18	1.00000
rad31	4.59781e-18	1.00000	4.59781e-18	1.00000
Benzene+cycloprop-2-enylidene	3.18404e-18	1.00000	3.18404e-18	1.00000
rad58	1.16532e-18	1.00000	1.16532e-18	1.00000
rad54	8.10661e-19	1.00000	8.10661e-19	1.00000
rad52	1.05944e-19	1.00000	1.05944e-19	1.00000
rad34	3.91532e-20	1.00000	3.91532e-20	1.00000
PAH1+H	3.22254e-20	1.00000	3.22254e-20	1.00000
rad51	2.20908e-20	1.00000	2.20908e-20	1.00000
rad55	4.46315e-21	1.00000	4.46315e-21	1.00000
rad41	1.27836e-21	1.00000	1.27836e-21	1.00000
PhcycC3H3_B+H	1.21255e-21	1.00000	1.21255e-21	1.00000
rad42	5.40151e-22	1.00000	5.40151e-22	1.00000
rad65	1.87239e-22	1.00000	1.87239e-22	1.00000
rad47	5.31356e-25	1.00000	5.31356e-25	1.00000
rad53	1.00648e-28	1.00000	1.00648e-28	1.00000
rad64	6.91007e-32	1.00000	6.91007e-32	1.00000
rad61	4.81074e-32	1.00000	4.81074e-32	1.00000
Benzene+cycloprop-1-enylidene	2.85507e-33	1.00000	2.85507e-33	1.00000
rad68syn	2.25460e-35	1.00000	2.25460e-35	1.00000
rad68anti	1.84783e-35	1.00000	1.84783e-35	1.00000
rad56	1.14710e-35	1.00000	1.14710e-35	1.00000
rad19syn	1.17076e-36	1.00000	1.17076e-36	1.00000
rad40syn	2.45122e-40	1.00000	2.45122e-40	1.00000
rad40anti	1.95064e-40	1.00000	1.95064e-40	1.00000
rad73	1.08306e-41	1.00000	1.08306e-41	1.00000
PAH8+H	2.65215e-43	1.00000	2.65215e-43	1.00000
rad71	2.30537e-47	1.00000	2.30537e-47	1.00000
rad8	1.10284e-47	1.00000	1.10284e-47	1.00000

1000.00000 Pa, 60.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.93738e-17 (1.00)	6.93738e-17 (1.00)
Formation of rad19	6.93738e-17 (1.000)	6.93738e-17 (1.000)
H-abstraction to cyc2enyl	2.50609e-31 (3.61e-15)	2.50609e-31 (3.61e-15)
H-abstraction to cyclenyl	7.62015e-44 (1.10e-27)	7.62015e-44 (1.10e-27)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.923151	0.923151	0.923151	0.923151
Indene+H	0.0751456	0.998297	0.0751456	0.998297
rad15	0.00169413	0.999991	0.00169413	0.999991
PhCHCCH2+H	8.43255e-06	0.999999	8.43255e-06	0.999999
rad6	3.79356e-07	1.000000	3.79356e-07	1.000000
rad2	2.78468e-07	1.000000	2.78468e-07	1.000000
rad26	4.92600e-08	1.000000	4.92600e-08	1.000000
C2H2+PhCH2	3.46113e-08	1.000000	3.46113e-08	1.000000
rad23	3.24231e-08	1.000000	3.24231e-08	1.000000
rad10	2.74101e-08	1.000000	2.74101e-08	1.000000
rad1	1.77558e-08	1.000000	1.77558e-08	1.000000
rad67	1.61327e-08	1.000000	1.61327e-08	1.000000
rad12	8.86807e-09	1.000000	8.86807e-09	1.000000
rad35	7.25947e-09	1.000000	7.25947e-09	1.000000
rad19anti	6.62621e-09	1.000000	6.62621e-09	1.000000
rad45	6.45714e-09	1.000000	6.45714e-09	1.000000
rad11	6.06506e-09	1.000000	6.06506e-09	1.000000
PhCCH+CH3	5.40498e-09	1.000000	5.40498e-09	1.000000
PhCCCH3+H	4.47480e-09	1.000000	4.47480e-09	1.000000
rad3	3.71339e-09	1.000000	3.71339e-09	1.000000
rad22	3.15758e-09	1.000000	3.15758e-09	1.000000
Ph+MeAc	2.77076e-09	1.000000	2.77076e-09	1.000000
rad4	1.88059e-09	1.000000	1.88059e-09	1.000000
rad36	3.95778e-10	1.000000	3.95778e-10	1.000000
rad7	3.15271e-10	1.000000	3.15271e-10	1.000000
Ph+Allene	2.89531e-10	1.000000	2.89531e-10	1.000000
rad30	1.25255e-10	1.000000	1.25255e-10	1.000000
PhCH2CCH+H	4.80125e-11	1.000000	4.80125e-11	1.000000
rad5	2.68964e-11	1.000000	2.68964e-11	1.000000
rad18	1.09497e-11	1.000000	1.09497e-11	1.000000
rad28	7.67587e-12	1.000000	7.67587e-12	1.000000

rad37	2.30137e-12	1.00000	2.30137e-12	1.00000
rad13	1.60472e-12	1.00000	1.60472e-12	1.00000
rad27	1.22593e-12	1.00000	1.22593e-12	1.00000
rad14	1.19074e-12	1.00000	1.19074e-12	1.00000
PhcycC3H3_A+H	6.71911e-13	1.00000	6.71911e-13	1.00000
rad20	6.45991e-13	1.00000	6.45991e-13	1.00000
rad60syn	4.77707e-13	1.00000	4.77707e-13	1.00000
rad21	4.25586e-13	1.00000	4.25586e-13	1.00000
rad60anti	2.31045e-13	1.00000	2.31045e-13	1.00000
PAH9+H	2.06183e-13	1.00000	2.06183e-13	1.00000
PAH7+H	1.70826e-13	1.00000	1.70826e-13	1.00000
PAH3+H	1.70823e-13	1.00000	1.70823e-13	1.00000
rad25	1.30030e-13	1.00000	1.30030e-13	1.00000
rad38	1.22185e-13	1.00000	1.22185e-13	1.00000
rad59	3.58621e-14	1.00000	3.58621e-14	1.00000
rad46	6.97432e-15	1.00000	6.97432e-15	1.00000
Benzene+cycloprop-2-enylidene	3.61245e-15	1.00000	3.61245e-15	1.00000
rad33	1.99683e-15	1.00000	1.99683e-15	1.00000
PAH10+CH3	1.66513e-15	1.00000	1.66513e-15	1.00000
rad39	7.41652e-16	1.00000	7.41652e-16	1.00000
Phenyl+cycC3H4	4.45916e-16	1.00000	0.00000	1.00000
rad43	2.68610e-16	1.00000	2.68610e-16	1.00000
rad24	1.12423e-16	1.00000	1.12423e-16	1.00000
rad50	3.25669e-17	1.00000	3.25669e-17	1.00000
rad62	2.92136e-17	1.00000	2.92136e-17	1.00000
rad70	6.87947e-18	1.00000	6.87947e-18	1.00000
rad31	5.80159e-18	1.00000	5.80159e-18	1.00000
rad58	1.64323e-18	1.00000	1.64323e-18	1.00000
rad54	1.47926e-18	1.00000	1.47926e-18	1.00000
rad52	1.75436e-19	1.00000	1.75436e-19	1.00000
rad34	6.17743e-20	1.00000	6.17743e-20	1.00000
PAH1+H	5.89486e-20	1.00000	5.89486e-20	1.00000
rad51	3.74833e-20	1.00000	3.74833e-20	1.00000
PhcycC3H3_B+H	1.74732e-20	1.00000	1.74732e-20	1.00000
rad55	8.42576e-21	1.00000	8.42576e-21	1.00000
rad41	2.50985e-21	1.00000	2.50985e-21	1.00000
rad42	1.16362e-21	1.00000	1.16362e-21	1.00000
rad65	3.59884e-22	1.00000	3.59884e-22	1.00000
rad47	6.36131e-25	1.00000	6.36131e-25	1.00000
Benzene+cycloprop-1-enylidene	1.09842e-27	1.00000	1.09842e-27	1.00000
rad53	3.27436e-28	1.00000	3.27436e-28	1.00000
rad64	2.85123e-31	1.00000	2.85123e-31	1.00000
rad61	1.87037e-31	1.00000	1.87037e-31	1.00000
rad68syn	8.37399e-35	1.00000	8.37399e-35	1.00000
rad68anti	6.85625e-35	1.00000	6.85625e-35	1.00000
rad56	4.82592e-35	1.00000	4.82592e-35	1.00000
rad19syn	1.82213e-36	1.00000	1.82213e-36	1.00000
rad40syn	1.25979e-39	1.00000	1.25979e-39	1.00000
rad40anti	1.00291e-39	1.00000	1.00291e-39	1.00000
rad73	5.21098e-41	1.00000	5.21098e-41	1.00000
PAH8+H	1.45781e-42	1.00000	1.45781e-42	1.00000
rad71	1.31625e-46	1.00000	1.31625e-46	1.00000
rad8	5.30004e-48	1.00000	5.30004e-48	1.00000

1000.00000 Pa, 70.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.91520e-16 (1.00)	1.91520e-16 (1.00)
Formation of rad19	1.91520e-16 (1.000)	1.91520e-16 (1.000)
H-abstraction to cyc2enyl	1.01125e-28 (5.28e-13)	1.01125e-28 (5.28e-13)
H-abstraction to cyclenyl	1.97822e-39 (1.03e-23)	1.97822e-39 (1.03e-23)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.909197	0.909197	0.909197	0.909197
Indene+H	0.0891722	0.998369	0.0891722	0.998369
rad15	0.00161984	0.999989	0.00161984	0.999989
PhCHCCH2+H	1.02695e-05	0.999999	1.02695e-05	0.999999
rad6	4.66135e-07	1.000000	4.66135e-07	1.000000
rad2	3.33167e-07	1.000000	3.33167e-07	1.000000
rad26	5.99818e-08	1.000000	5.99818e-08	1.000000
C2H2+PhCH2	4.28212e-08	1.000000	4.28212e-08	1.000000
rad23	3.87801e-08	1.000000	3.87801e-08	1.000000
rad10	3.46904e-08	1.000000	3.46904e-08	1.000000
rad1	2.12800e-08	1.000000	2.12800e-08	1.000000
rad67	1.98964e-08	1.000000	1.98964e-08	1.000000
rad35	8.93963e-09	1.000000	8.93963e-09	1.000000
PhCCH+CH3	8.28410e-09	1.000000	8.28410e-09	1.000000
rad12	8.27397e-09	1.000000	8.27397e-09	1.000000

rad45	7.21897e-09	1.00000	7.21897e-09	1.00000
PhCCCH3+H	6.56733e-09	1.00000	6.56733e-09	1.00000
rad19anti	5.95010e-09	1.00000	5.95010e-09	1.00000
rad11	4.76204e-09	1.00000	4.76204e-09	1.00000
rad3	4.50103e-09	1.00000	4.50103e-09	1.00000
Ph+MeAc	4.10521e-09	1.00000	4.10521e-09	1.00000
rad22	2.52816e-09	1.00000	2.52816e-09	1.00000
rad4	2.28014e-09	1.00000	2.28014e-09	1.00000
rad36	4.42289e-10	1.00000	4.42289e-10	1.00000
Ph+Allene	3.73590e-10	1.00000	3.73590e-10	1.00000
rad7	3.73016e-10	1.00000	3.73016e-10	1.00000
rad30	1.54558e-10	1.00000	1.54558e-10	1.00000
PhCH2CCH+H	6.27595e-11	1.00000	6.27595e-11	1.00000
rad5	2.95824e-11	1.00000	2.95824e-11	1.00000
rad28	1.17697e-11	1.00000	1.17697e-11	1.00000
rad18	7.48373e-12	1.00000	7.48373e-12	1.00000
rad37	3.46555e-12	1.00000	3.46555e-12	1.00000
rad13	1.82702e-12	1.00000	1.82702e-12	1.00000
rad14	1.38645e-12	1.00000	1.38645e-12	1.00000
rad27	1.37597e-12	1.00000	1.37597e-12	1.00000
PhcycC3H3_A+H	8.08299e-13	1.00000	8.08299e-13	1.00000
rad60syn	5.98165e-13	1.00000	5.98165e-13	1.00000
Benzene+cycloprop-2-enylidene	5.28015e-13	1.00000	5.28015e-13	1.00000
rad20	4.23302e-13	1.00000	4.23302e-13	1.00000
PAH9+H	3.19110e-13	1.00000	3.19110e-13	1.00000
rad60anti	2.89677e-13	1.00000	2.89677e-13	1.00000
rad21	2.77601e-13	1.00000	2.77601e-13	1.00000
PAH7+H	2.26004e-13	1.00000	2.26004e-13	1.00000
PAH3+H	2.17685e-13	1.00000	2.17685e-13	1.00000
rad38	1.77423e-13	1.00000	1.77423e-13	1.00000
rad25	9.80046e-14	1.00000	9.80046e-14	1.00000
rad59	4.55864e-14	1.00000	4.55864e-14	1.00000
rad46	1.01949e-14	1.00000	1.01949e-14	1.00000
PAH10+CH3	2.63349e-15	1.00000	2.63349e-15	1.00000
rad33	2.25672e-15	1.00000	2.25672e-15	1.00000
rad39	1.42232e-15	1.00000	1.42232e-15	1.00000
Phenyl+cycC3H4	7.87799e-16	1.00000	0.00000	1.00000
rad43	4.19665e-16	1.00000	4.19665e-16	1.00000
rad24	1.18553e-16	1.00000	1.18553e-16	1.00000
rad62	4.93127e-17	1.00000	4.93127e-17	1.00000
rad50	4.90683e-17	1.00000	4.90683e-17	1.00000
rad70	9.75767e-18	1.00000	9.75767e-18	1.00000
rad31	7.06863e-18	1.00000	7.06863e-18	1.00000
rad54	2.46936e-18	1.00000	2.46936e-18	1.00000
rad58	2.23680e-18	1.00000	2.23680e-18	1.00000
rad52	2.70129e-19	1.00000	2.70129e-19	1.00000
PhcycC3H3_B+H	2.44078e-19	1.00000	2.44078e-19	1.00000
PAH1+H	1.01376e-19	1.00000	1.01376e-19	1.00000
rad34	9.25198e-20	1.00000	9.25198e-20	1.00000
rad51	5.92026e-20	1.00000	5.92026e-20	1.00000
rad55	1.45756e-20	1.00000	1.45756e-20	1.00000
rad41	4.63528e-21	1.00000	4.63528e-21	1.00000
rad42	2.28332e-21	1.00000	2.28332e-21	1.00000
rad65	6.26874e-22	1.00000	6.26874e-22	1.00000
Benzene+cycloprop-1-enylidene	1.03290e-23	1.00000	1.03290e-23	1.00000
rad47	7.45169e-25	1.00000	7.45169e-25	1.00000
rad53	1.08385e-27	1.00000	1.08385e-27	1.00000
rad64	1.16913e-30	1.00000	1.16913e-30	1.00000
rad61	7.96129e-31	1.00000	7.96129e-31	1.00000
rad68syn	3.59071e-34	1.00000	3.59071e-34	1.00000
rad68anti	2.93655e-34	1.00000	2.93655e-34	1.00000
rad56	2.22636e-34	1.00000	2.22636e-34	1.00000
rad19syn	3.10083e-36	1.00000	3.10083e-36	1.00000
rad40syn	7.46904e-39	1.00000	7.46904e-39	1.00000
rad40anti	5.94805e-39	1.00000	5.94805e-39	1.00000
rad73	2.85881e-40	1.00000	2.85881e-40	1.00000
PAH8+H	9.42364e-42	1.00000	9.42364e-42	1.00000
rad71	8.82092e-46	1.00000	8.82092e-46	1.00000
rad8	3.35041e-48	1.00000	3.35041e-48	1.00000

1000.00000 Pa, 80.0000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	4.17084e-16 (1.00)	4.17084e-16 (1.00)		
Formation of rad19	4.17084e-16 (1.000)	4.17084e-16 (1.000)		
H-abstraction to cyc2enyl	8.98751e-27 (2.15e-11)	8.98751e-27 (2.15e-11)		
H-abstraction to cyclenyl	4.00120e-36 (9.59e-21)	4.00120e-36 (9.59e-21)		
species	PYtrue	Cumul	PYeffective	Cumul

rad9	0.895385	0.895385	0.895385	0.895385
Indene+H	0.103045	0.998430	0.103045	0.998430
rad15	0.00155669	0.999987	0.00155669	0.999987
PhCHCCH2+H	1.21993e-05	0.999999	1.21993e-05	0.999999
rad6	5.57603e-07	0.999999	5.57603e-07	0.999999
rad2	3.89179e-07	1.000000	3.89179e-07	1.000000
rad26	7.12513e-08	1.000000	7.12513e-08	1.000000
C2H2+PhCH2	5.15890e-08	1.000000	5.15890e-08	1.000000
rad23	4.49613e-08	1.000000	4.49613e-08	1.000000
rad10	4.21170e-08	1.000000	4.21170e-08	1.000000
rad1	2.49121e-08	1.000000	2.49121e-08	1.000000
rad67	2.39292e-08	1.000000	2.39292e-08	1.000000
PhCCH+CH3	1.19467e-08	1.000000	1.19467e-08	1.000000
rad35	1.07347e-08	1.000000	1.07347e-08	1.000000
PhCCCH3+H	9.18190e-09	1.000000	9.18190e-09	1.000000
rad45	7.94510e-09	1.000000	7.94510e-09	1.000000
rad12	7.81652e-09	1.000000	7.81652e-09	1.000000
Ph+MeAc	5.79525e-09	1.000000	5.79525e-09	1.000000
rad19anti	5.44063e-09	1.000000	5.44063e-09	1.000000
rad3	5.29137e-09	1.000000	5.29137e-09	1.000000
rad11	3.87338e-09	1.000000	3.87338e-09	1.000000
rad4	2.68169e-09	1.000000	2.68169e-09	1.000000
rad22	2.08384e-09	1.000000	2.08384e-09	1.000000
rad36	4.86649e-10	1.000000	4.86649e-10	1.000000
Ph+Allene	4.67308e-10	1.000000	4.67308e-10	1.000000
rad7	4.31611e-10	1.000000	4.31611e-10	1.000000
rad30	1.85878e-10	1.000000	1.85878e-10	1.000000
PhCH2CCH+H	7.94978e-11	1.000000	7.94978e-11	1.000000
rad5	3.17947e-11	1.000000	3.17947e-11	1.000000
Benzene+cycloprop-2-enylidene	2.15484e-11	1.000000	2.15484e-11	1.000000
rad28	1.70294e-11	1.000000	1.70294e-11	1.000000
rad18	5.40632e-12	1.000000	5.40632e-12	1.000000
rad37	4.97324e-12	1.000000	4.97324e-12	1.000000
rad13	2.05345e-12	1.000000	2.05345e-12	1.000000
rad14	1.57574e-12	1.000000	1.57574e-12	1.000000
rad27	1.52558e-12	1.000000	1.52558e-12	1.000000
PhcycC3H3_A+H	9.80269e-13	1.000000	9.80269e-13	1.000000
rad60syn	7.30313e-13	1.000000	7.30313e-13	1.000000
PAH9+H	4.63363e-13	1.000000	4.63363e-13	1.000000
rad60anti	3.54144e-13	1.000000	3.54144e-13	1.000000
rad20	2.95705e-13	1.000000	2.95705e-13	1.000000
PAH7+H	2.89986e-13	1.000000	2.89986e-13	1.000000
PAH3+H	2.70681e-13	1.000000	2.70681e-13	1.000000
rad38	2.45670e-13	1.000000	2.45670e-13	1.000000
rad21	1.93213e-13	1.000000	1.93213e-13	1.000000
rad25	7.70853e-14	1.000000	7.70853e-14	1.000000
rad59	5.65359e-14	1.000000	5.65359e-14	1.000000
rad46	1.42082e-14	1.000000	1.42082e-14	1.000000
PAH10+CH3	3.98589e-15	1.000000	3.98589e-15	1.000000
rad33	2.52262e-15	1.000000	2.52262e-15	1.000000
rad39	2.51135e-15	1.000000	2.51135e-15	1.000000
Phenyl+cycC3H4	1.32429e-15	1.000000	0.000000	1.000000
rad43	6.26661e-16	1.000000	6.26661e-16	1.000000
rad24	1.24608e-16	1.000000	1.24608e-16	1.000000
rad62	7.81758e-17	1.000000	7.81758e-17	1.000000
rad50	7.05401e-17	1.000000	7.05401e-17	1.000000
rad70	1.34023e-17	1.000000	1.34023e-17	1.000000
rad31	8.41989e-18	1.000000	8.41989e-18	1.000000
rad54	3.89697e-18	1.000000	3.89697e-18	1.000000
rad58	2.98142e-18	1.000000	2.98142e-18	1.000000
PhcycC3H3_B+H	1.95457e-18	1.000000	1.95457e-18	1.000000
rad52	3.97225e-19	1.000000	3.97225e-19	1.000000
PAH1+H	1.67938e-19	1.000000	1.67938e-19	1.000000
rad34	1.34384e-19	1.000000	1.34384e-19	1.000000
rad51	8.94219e-20	1.000000	8.94219e-20	1.000000
rad55	2.38806e-20	1.000000	2.38806e-20	1.000000
Benzene+cycloprop-1-enylidene	9.59328e-21	1.000000	9.59328e-21	1.000000
rad41	8.24411e-21	1.000000	8.24411e-21	1.000000
rad42	4.22788e-21	1.000000	4.22788e-21	1.000000
rad65	1.02680e-21	1.000000	1.02680e-21	1.000000
rad47	8.61467e-25	1.000000	8.61467e-25	1.000000
rad53	3.68195e-27	1.000000	3.68195e-27	1.000000
rad64	4.95436e-30	1.000000	4.95436e-30	1.000000
rad61	3.92010e-30	1.000000	3.92010e-30	1.000000
rad68syn	1.86830e-33	1.000000	1.86830e-33	1.000000
rad68anti	1.52604e-33	1.000000	1.52604e-33	1.000000
rad56	1.19630e-33	1.000000	1.19630e-33	1.000000
rad19syn	5.60285e-36	1.000000	5.60285e-36	1.000000
rad40syn	5.34835e-38	1.000000	5.34835e-38	1.000000

rad40anti	4.26075e-38	1.00000	4.26075e-38	1.00000
rad73	1.88732e-39	1.00000	1.88732e-39	1.00000
PAH8+H	7.48232e-41	1.00000	7.48232e-41	1.00000
rad71	7.28035e-45	1.00000	7.28035e-45	1.00000
rad8	2.53318e-48	1.00000	2.53318e-48	1.00000

1000.00000 Pa, 90.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.74016e-16 (1.00)	7.74016e-16 (1.00)
Formation of rad19	7.74016e-16 (1.000)	7.74016e-16 (1.000)
H-abstraction to cyc2enyl	2.91736e-25 (3.77e-10)	2.91736e-25 (3.77e-10)
H-abstraction to cyclenyl	1.47814e-33 (1.91e-18)	1.47814e-33 (1.91e-18)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.881647	0.881647	0.881647	0.881647
Indene+H	0.116836	0.998483	0.116836	0.998483
rad15	0.00150132	0.999984	0.00150132	0.999984
PhCHCCH2+H	1.42412e-05	0.999999	1.42412e-05	0.999999
rad6	6.54865e-07	0.999999	6.54865e-07	0.999999
rad2	4.46883e-07	1.000000	4.46883e-07	1.000000
rad26	8.31784e-08	1.000000	8.31784e-08	1.000000
C2H2+PhCH2	6.10243e-08	1.000000	6.10243e-08	1.000000
rad23	5.10234e-08	1.000000	5.10234e-08	1.000000
rad10	4.96916e-08	1.000000	4.96916e-08	1.000000
rad1	2.86799e-08	1.000000	2.86799e-08	1.000000
rad67	2.82829e-08	1.000000	2.82829e-08	1.000000
PhCCH+CH3	1.65185e-08	1.000000	1.65185e-08	1.000000
rad35	1.26670e-08	1.000000	1.26670e-08	1.000000
PhCCCH3+H	1.24090e-08	1.000000	1.24090e-08	1.000000
rad45	8.64457e-09	1.000000	8.64457e-09	1.000000
Ph+MeAc	7.91037e-09	1.000000	7.91037e-09	1.000000
rad12	7.44810e-09	1.000000	7.44810e-09	1.000000
rad3	6.09248e-09	1.000000	6.09248e-09	1.000000
rad19anti	5.03933e-09	1.000000	5.03933e-09	1.000000
rad11	3.24487e-09	1.000000	3.24487e-09	1.000000
rad4	3.08944e-09	1.000000	3.08944e-09	1.000000
rad22	1.76071e-09	1.000000	1.76071e-09	1.000000
Ph+Allene	5.72570e-10	1.000000	5.72570e-10	1.000000
rad36	5.29441e-10	1.000000	5.29441e-10	1.000000
rad7	4.92249e-10	1.000000	4.92249e-10	1.000000
Benzene+cycloprop-2-enylidene	3.76912e-10	1.000000	3.76912e-10	1.000000
rad30	2.19611e-10	1.000000	2.19611e-10	1.000000
PhCH2CCH+H	9.86319e-11	1.000000	9.86319e-11	1.000000
rad5	3.36075e-11	1.000000	3.36075e-11	1.000000
rad28	2.36741e-11	1.000000	2.36741e-11	1.000000
rad37	6.90379e-12	1.000000	6.90379e-12	1.000000
rad18	4.07110e-12	1.000000	4.07110e-12	1.000000
rad13	2.28855e-12	1.000000	2.28855e-12	1.000000
rad14	1.76250e-12	1.000000	1.76250e-12	1.000000
rad27	1.67663e-12	1.000000	1.67663e-12	1.000000
PhcycC3H3_A+H	1.19736e-12	1.000000	1.19736e-12	1.000000
rad60syn	8.76472e-13	1.000000	8.76472e-13	1.000000
PAH9+H	6.44020e-13	1.000000	6.44020e-13	1.000000
rad60anti	4.25611e-13	1.000000	4.25611e-13	1.000000
PAH7+H	3.64932e-13	1.000000	3.64932e-13	1.000000
PAH3+H	3.31138e-13	1.000000	3.31138e-13	1.000000
rad38	3.29210e-13	1.000000	3.29210e-13	1.000000
rad20	2.17132e-13	1.000000	2.17132e-13	1.000000
rad21	1.41450e-13	1.000000	1.41450e-13	1.000000
rad59	6.89716e-14	1.000000	6.89716e-14	1.000000
rad25	6.27488e-14	1.000000	6.27488e-14	1.000000
rad46	1.91632e-14	1.000000	1.91632e-14	1.000000
PAH10+CH3	5.86094e-15	1.000000	5.86094e-15	1.000000
rad39	4.19141e-15	1.000000	4.19141e-15	1.000000
rad33	2.79974e-15	1.000000	2.79974e-15	1.000000
Phenyl+cycC3H4	2.14281e-15	1.000000	0.000000	1.000000
rad43	9.07939e-16	1.000000	9.07939e-16	1.000000
rad24	1.30615e-16	1.000000	1.30615e-16	1.000000
rad62	1.18855e-16	1.000000	1.18855e-16	1.000000
rad50	9.82645e-17	1.000000	9.82645e-17	1.000000
rad70	1.80461e-17	1.000000	1.80461e-17	1.000000
PhcycC3H3_B+H	1.02814e-17	1.000000	1.02814e-17	1.000000
rad31	9.87627e-18	1.000000	9.87627e-18	1.000000
rad54	5.92779e-18	1.000000	5.92779e-18	1.000000
rad58	3.92455e-18	1.000000	3.92455e-18	1.000000
Benzene+cycloprop-1-enylidene	1.90970e-18	1.000000	1.90970e-18	1.000000
rad52	5.66689e-19	1.000000	5.66689e-19	1.000000

PAH1+H	2.72023e-19	1.00000	2.72023e-19	1.00000
rad34	1.91686e-19	1.00000	1.91686e-19	1.00000
rad51	1.31246e-19	1.00000	1.31246e-19	1.00000
rad55	3.77909e-20	1.00000	3.77909e-20	1.00000
rad41	1.43236e-20	1.00000	1.43236e-20	1.00000
rad42	7.54134e-21	1.00000	7.54134e-21	1.00000
rad65	1.61607e-21	1.00000	1.61607e-21	1.00000
rad47	9.87687e-25	1.00000	9.87687e-25	1.00000
rad53	1.25164e-26	1.00000	1.25164e-26	1.00000
rad61	2.36425e-29	1.00000	2.36425e-29	1.00000
rad64	2.18120e-29	1.00000	2.18120e-29	1.00000
rad68syn	1.29752e-32	1.00000	1.29752e-32	1.00000
rad68anti	1.05827e-32	1.00000	1.05827e-32	1.00000
rad56	8.08229e-33	1.00000	8.08229e-33	1.00000
rad19syn	1.06154e-35	1.00000	1.06154e-35	1.00000
rad40syn	5.03791e-37	1.00000	5.03791e-37	1.00000
rad40anti	4.01518e-37	1.00000	4.01518e-37	1.00000
rad73	1.64704e-38	1.00000	1.64704e-38	1.00000
PAH8+H	7.98667e-40	1.00000	7.98667e-40	1.00000
rad71	8.16078e-44	1.00000	8.16078e-44	1.00000
rad8	2.17277e-48	1.00000	2.17277e-48	1.00000

1000.00000 Pa, 100.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.28255e-15 (1.00)	1.28255e-15 (1.00)
Formation of rad19	1.28255e-15 (1.000)	1.28255e-15 (1.000)
H-abstraction to cyc2enyl	4.68359e-24 (3.65e-09)	4.68359e-24 (3.65e-09)
H-abstraction to cyclenyl	1.66242e-31 (1.30e-16)	1.66242e-31 (1.30e-16)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.867922	0.867922	0.867922	0.867922
Indene+H	0.130608	0.998530	0.130608	0.998530
rad15	0.00145160	0.999982	0.00145160	0.999982
PhCHCCH2+H	1.64158e-05	0.999998	1.64158e-05	0.999998
rad6	7.59063e-07	0.999999	7.59063e-07	0.999999
rad2	5.06606e-07	0.999999	5.06606e-07	0.999999
rad26	9.58796e-08	0.999999	9.58796e-08	0.999999
C2H2+PhCH2	7.12500e-08	0.999999	7.12500e-08	0.999999
rad10	5.74333e-08	1.000000	5.74333e-08	1.000000
rad23	5.70106e-08	1.000000	5.70106e-08	1.000000
rad67	3.30156e-08	1.000000	3.30156e-08	1.000000
rad1	3.26091e-08	1.000000	3.26091e-08	1.000000
PhCCH+CH3	2.21589e-08	1.000000	2.21589e-08	1.000000
PhCCH3+H	1.63631e-08	1.000000	1.63631e-08	1.000000
rad35	1.47611e-08	1.000000	1.47611e-08	1.000000
Ph+MeAc	1.05395e-08	1.000000	1.05395e-08	1.000000
rad45	9.32438e-09	1.000000	9.32438e-09	1.000000
rad12	7.14126e-09	1.000000	7.14126e-09	1.000000
rad3	6.91102e-09	1.000000	6.91102e-09	1.000000
rad19anti	4.71276e-09	1.000000	4.71276e-09	1.000000
Benzene+cycloprop-2-enylidene	3.65179e-09	1.000000	3.65179e-09	1.000000
rad4	3.50689e-09	1.000000	3.50689e-09	1.000000
rad11	2.78719e-09	1.000000	2.78719e-09	1.000000
rad22	1.51931e-09	1.000000	1.51931e-09	1.000000
Ph+Allene	6.91681e-10	1.000000	6.91681e-10	1.000000
rad36	5.71122e-10	1.000000	5.71122e-10	1.000000
rad7	5.55919e-10	1.000000	5.55919e-10	1.000000
rad30	2.56196e-10	1.000000	2.56196e-10	1.000000
PhCH2CCH+H	1.20669e-10	1.000000	1.20669e-10	1.000000
rad5	3.50757e-11	1.000000	3.50757e-11	1.000000
rad28	3.19856e-11	1.000000	3.19856e-11	1.000000
rad37	9.36148e-12	1.000000	9.36148e-12	1.000000
rad18	3.16644e-12	1.000000	3.16644e-12	1.000000
rad13	2.53610e-12	1.000000	2.53610e-12	1.000000
rad14	1.94949e-12	1.000000	1.94949e-12	1.000000
rad27	1.83050e-12	1.000000	1.83050e-12	1.000000
PhcycC3H3_A+H	1.47241e-12	1.000000	1.47241e-12	1.000000
rad60syn	1.03937e-12	1.000000	1.03937e-12	1.000000
PAH9+H	8.67640e-13	1.000000	8.67640e-13	1.000000
rad60anti	5.05448e-13	1.000000	5.05448e-13	1.000000
PAH7+H	4.53678e-13	1.000000	4.53678e-13	1.000000
rad38	4.31009e-13	1.000000	4.31009e-13	1.000000
PAH3+H	4.00685e-13	1.000000	4.00685e-13	1.000000
rad20	1.65976e-13	1.000000	1.65976e-13	1.000000
rad21	1.07858e-13	1.000000	1.07858e-13	1.000000
rad59	8.32117e-14	1.000000	8.32117e-14	1.000000
rad25	5.25432e-14	1.000000	5.25432e-14	1.000000

rad46	2.52533e-14	1.000000	2.52533e-14	1.000000
PAH10+CH3	8.45665e-15	1.000000	8.45665e-15	1.000000
rad39	6.72562e-15	1.000000	6.72562e-15	1.000000
Phenyl+cycC3H4	3.36902e-15	1.000000	0.000000	1.000000
rad33	3.09248e-15	1.000000	3.09248e-15	1.000000
rad43	1.28897e-15	1.000000	1.28897e-15	1.000000
rad62	1.75617e-16	1.000000	1.75617e-16	1.000000
rad24	1.36609e-16	1.000000	1.36609e-16	1.000000
rad50	1.33970e-16	1.000000	1.33970e-16	1.000000
Benzene+cycloprop-1-enylidene	1.29619e-16	1.000000	1.29619e-16	1.000000
PhcycC3H3_B+H	4.03211e-17	1.000000	4.03211e-17	1.000000
rad70	2.40094e-17	1.000000	2.40094e-17	1.000000
rad31	1.14599e-17	1.000000	1.14599e-17	1.000000
rad54	8.80138e-18	1.000000	8.80138e-18	1.000000
rad58	5.13087e-18	1.000000	5.13087e-18	1.000000
rad52	7.92370e-19	1.000000	7.92370e-19	1.000000
PAH1+H	4.35215e-19	1.000000	4.35215e-19	1.000000
rad34	2.70710e-19	1.000000	2.70710e-19	1.000000
rad51	1.89147e-19	1.000000	1.89147e-19	1.000000
rad55	5.85106e-20	1.000000	5.85106e-20	1.000000
rad41	2.45441e-20	1.000000	2.45441e-20	1.000000
rad42	1.31311e-20	1.000000	1.31311e-20	1.000000
rad65	2.47836e-21	1.000000	2.47836e-21	1.000000
rad47	1.12652e-24	1.000000	1.12652e-24	1.000000
rad53	4.12172e-26	1.000000	4.12172e-26	1.000000
rad61	1.71834e-28	1.000000	1.71834e-28	1.000000
rad64	9.72612e-29	1.000000	9.72612e-29	1.000000
rad68syn	1.28194e-31	1.000000	1.28194e-31	1.000000
rad68anti	1.04282e-31	1.000000	1.04282e-31	1.000000
rad56	7.03034e-32	1.000000	7.03034e-32	1.000000
rad19syn	2.10002e-35	1.000000	2.10002e-35	1.000000
rad40syn	6.99566e-36	1.000000	6.99566e-36	1.000000
rad40anti	5.57757e-36	1.000000	5.57757e-36	1.000000
rad73	2.12291e-37	1.000000	2.12291e-37	1.000000
PAH8+H	1.31284e-38	1.000000	1.31284e-38	1.000000
rad71	1.44600e-42	1.000000	1.44600e-42	1.000000
rad8	2.04736e-48	1.000000	2.04736e-48	1.000000

1000.00000 Pa, 110.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.95524e-15 (1.00)	1.95524e-15 (1.00)
Formation of rad19	1.95524e-15 (1.000)	1.95524e-15 (1.000)
H-abstraction to cyc2enyl	4.50936e-23 (2.31e-08)	4.50936e-23 (2.31e-08)
H-abstraction to cyclenyl	7.87782e-30 (4.03e-15)	7.87782e-30 (4.03e-15)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.854155	0.854155	0.854155	0.854155
Indene+H	0.144418	0.998573	0.144418	0.998573
rad15	0.00140613	0.999979	0.00140613	0.999979
PhCHCCH2+H	1.87461e-05	0.999998	1.87461e-05	0.999998
rad6	8.71444e-07	0.999999	8.71444e-07	0.999999
rad2	5.68645e-07	0.999999	5.68645e-07	0.999999
rad26	1.09483e-07	0.999999	1.09483e-07	0.999999
C2H2+PhCH2	8.24082e-08	0.999999	8.24082e-08	0.999999
rad10	6.53700e-08	1.000000	6.53700e-08	1.000000
rad23	6.29588e-08	1.000000	6.29588e-08	1.000000
rad67	3.81946e-08	1.000000	3.81946e-08	1.000000
rad1	3.67239e-08	1.000000	3.67239e-08	1.000000
PhCCH+CH3	2.90682e-08	1.000000	2.90682e-08	1.000000
Benzene+cycloprop-2-enylidene	2.30629e-08	1.000000	2.30629e-08	1.000000
PhCCCH3+H	2.11892e-08	1.000000	2.11892e-08	1.000000
rad35	1.70457e-08	1.000000	1.70457e-08	1.000000
Ph+MeAc	1.37967e-08	1.000000	1.37967e-08	1.000000
rad45	9.99025e-09	1.000000	9.99025e-09	1.000000
rad3	7.75257e-09	1.000000	7.75257e-09	1.000000
rad12	6.87892e-09	1.000000	6.87892e-09	1.000000
rad19anti	4.44032e-09	1.000000	4.44032e-09	1.000000
rad4	3.93704e-09	1.000000	3.93704e-09	1.000000
rad11	2.44649e-09	1.000000	2.44649e-09	1.000000
rad22	1.33476e-09	1.000000	1.33476e-09	1.000000
Ph+Allene	8.27493e-10	1.000000	8.27493e-10	1.000000
rad7	6.23546e-10	1.000000	6.23546e-10	1.000000
rad36	6.12070e-10	1.000000	6.12070e-10	1.000000
rad30	2.96146e-10	1.000000	2.96146e-10	1.000000
PhCH2CCH+H	1.46247e-10	1.000000	1.46247e-10	1.000000
rad28	4.23274e-11	1.000000	4.23274e-11	1.000000
rad5	3.62410e-11	1.000000	3.62410e-11	1.000000

rad37	1.24843e-11	1.000000	1.24843e-11	1.000000
rad13	2.79964e-12	1.000000	2.79964e-12	1.000000
rad18	2.52774e-12	1.000000	2.52774e-12	1.000000
rad14	2.13878e-12	1.000000	2.13878e-12	1.000000
rad27	1.98832e-12	1.000000	1.98832e-12	1.000000
PhcycC3H3_A+H	1.82282e-12	1.000000	1.82282e-12	1.000000
rad60syn	1.22228e-12	1.000000	1.22228e-12	1.000000
PAH9+H	1.14267e-12	1.000000	1.14267e-12	1.000000
rad60anti	5.95311e-13	1.000000	5.95311e-13	1.000000
PAH7+H	5.60003e-13	1.000000	5.60003e-13	1.000000
rad38	5.54914e-13	1.000000	5.54914e-13	1.000000
PAH3+H	4.81357e-13	1.000000	4.81357e-13	1.000000
rad20	1.31177e-13	1.000000	1.31177e-13	1.000000
rad59	9.96512e-14	1.000000	9.96512e-14	1.000000
rad21	8.50691e-14	1.000000	8.50691e-14	1.000000
rad25	4.50596e-14	1.000000	4.50596e-14	1.000000
rad46	3.27300e-14	1.000000	3.27300e-14	1.000000
PAH10+CH3	1.20600e-14	1.000000	1.20600e-14	1.000000
rad39	1.04993e-14	1.000000	1.04993e-14	1.000000
Phenyl+cycC3H4	5.18625e-15	1.000000	0.00000	1.000000
Benzene+cycloprop-1-enylidene	4.02908e-15	1.000000	4.02908e-15	1.000000
rad33	3.40505e-15	1.000000	3.40505e-15	1.000000
rad43	1.80547e-15	1.000000	1.80547e-15	1.000000
rad62	2.54479e-16	1.000000	2.54479e-16	1.000000
rad50	1.80004e-16	1.000000	1.80004e-16	1.000000
rad24	1.42630e-16	1.000000	1.42630e-16	1.000000
PhcycC3H3_B+H	1.28348e-16	1.000000	1.28348e-16	1.000000
rad70	3.17378e-17	1.000000	3.17378e-17	1.000000
rad31	1.31952e-17	1.000000	1.31952e-17	1.000000
rad54	1.28695e-17	1.000000	1.28695e-17	1.000000
rad58	6.68991e-18	1.000000	6.68991e-18	1.000000
rad52	1.09372e-18	1.000000	1.09372e-18	1.000000
PAH1+H	6.92933e-19	1.000000	6.92933e-19	1.000000
rad34	3.80718e-19	1.000000	3.80718e-19	1.000000
rad51	2.69660e-19	1.000000	2.69660e-19	1.000000
rad55	8.94494e-20	1.000000	8.94494e-20	1.000000
rad41	4.17635e-20	1.000000	4.17635e-20	1.000000
rad42	2.25236e-20	1.000000	2.25236e-20	1.000000
rad65	3.73960e-21	1.000000	3.73960e-21	1.000000
rad47	1.28095e-24	1.000000	1.28095e-24	1.000000
rad53	1.29106e-25	1.000000	1.29106e-25	1.000000
rad61	1.32148e-27	1.000000	1.32148e-27	1.000000
rad64	4.24672e-28	1.000000	4.24672e-28	1.000000
rad68syn	1.52042e-30	1.000000	1.52042e-30	1.000000
rad68anti	1.23156e-30	1.000000	1.23156e-30	1.000000
rad56	6.93437e-31	1.000000	6.93437e-31	1.000000
rad40syn	1.42104e-34	1.000000	1.42104e-34	1.000000
rad40anti	1.13457e-34	1.000000	1.13457e-34	1.000000
rad19syn	4.33593e-35	1.000000	4.33593e-35	1.000000
rad73	3.82430e-36	1.000000	3.82430e-36	1.000000
PAH8+H	3.52958e-37	1.000000	3.52958e-37	1.000000
rad71	4.35801e-41	1.000000	4.35801e-41	1.000000
rad8	2.07584e-48	1.000000	2.07584e-48	1.000000

1000.00000 Pa, 120.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.79817e-15 (1.00)	2.79817e-15 (1.00)
Formation of rad19	2.79817e-15 (1.000)	2.79817e-15 (1.000)
H-abstraction to cyc2enyl	2.96039e-22 (1.06e-07)	2.96039e-22 (1.06e-07)
H-abstraction to cyclenyl	1.95323e-28 (6.98e-14)	1.95323e-28 (6.98e-14)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.840294	0.840294	0.840294	0.840294
Indene+H	0.158319	0.998613	0.158319	0.998613
rad15	0.00136392	0.999977	0.00136392	0.999977
PhCHCCH2+H	2.12587e-05	0.999998	2.12587e-05	0.999998
rad6	9.93427e-07	0.999999	9.93427e-07	0.999999
rad2	6.33274e-07	1.000000	6.33274e-07	1.000000
rad26	1.24133e-07	1.000000	1.24133e-07	1.000000
Benzene+cycloprop-2-enylidene	1.05797e-07	1.000000	1.05797e-07	1.000000
C2H2+PhCH2	9.46669e-08	1.000000	9.46669e-08	1.000000
rad10	7.35335e-08	1.000000	7.35335e-08	1.000000
rad23	6.88981e-08	1.000000	6.88981e-08	1.000000
rad67	4.38993e-08	1.000000	4.38993e-08	1.000000
rad1	4.10486e-08	1.000000	4.10486e-08	1.000000
PhCCH+CH3	3.74983e-08	1.000000	3.74983e-08	1.000000
PhCCCH3+H	2.70702e-08	1.000000	2.70702e-08	1.000000

rad35	1.95544e-08	1.00000	1.95544e-08	1.00000
Ph+MeAc	1.78284e-08	1.00000	1.78284e-08	1.00000
rad45	1.06470e-08	1.00000	1.06470e-08	1.00000
rad3	8.62199e-09	1.00000	8.62199e-09	1.00000
rad12	6.64980e-09	1.00000	6.64980e-09	1.00000
rad4	4.38252e-09	1.00000	4.38252e-09	1.00000
rad19anti	4.20859e-09	1.00000	4.20859e-09	1.00000
rad11	2.18901e-09	1.00000	2.18901e-09	1.00000
rad22	1.19094e-09	1.00000	1.19094e-09	1.00000
Ph+Allene	9.83574e-10	1.00000	9.83574e-10	1.00000
rad7	6.96078e-10	1.00000	6.96078e-10	1.00000
rad36	6.52612e-10	1.00000	6.52612e-10	1.00000
rad30	3.40064e-10	1.00000	3.40064e-10	1.00000
PhCH2CCH+H	1.76182e-10	1.00000	1.76182e-10	1.00000
rad28	5.51706e-11	1.00000	5.51706e-11	1.00000
rad5	3.71365e-11	1.00000	3.71365e-11	1.00000
rad37	1.64565e-11	1.00000	1.64565e-11	1.00000
rad13	3.08283e-12	1.00000	3.08283e-12	1.00000
rad14	2.33197e-12	1.00000	2.33197e-12	1.00000
PhcycC3H3_A+H	2.27226e-12	1.00000	2.27226e-12	1.00000
rad27	2.15101e-12	1.00000	2.15101e-12	1.00000
rad18	2.06169e-12	1.00000	2.06169e-12	1.00000
PAH9+H	1.48002e-12	1.00000	1.48002e-12	1.00000
rad60syn	1.42923e-12	1.00000	1.42923e-12	1.00000
rad38	7.05943e-13	1.00000	7.05943e-13	1.00000
rad60anti	6.97233e-13	1.00000	6.97233e-13	1.00000
PAH7+H	6.89031e-13	1.00000	6.89031e-13	1.00000
PAH3+H	5.75736e-13	1.00000	5.75736e-13	1.00000
rad59	1.18789e-13	1.00000	1.18789e-13	1.00000
rad20	1.06663e-13	1.00000	1.06663e-13	1.00000
Benzene+cycloprop-1-enylidene	6.98038e-14	1.00000	6.98038e-14	1.00000
rad21	6.90530e-14	1.00000	6.90530e-14	1.00000
rad46	4.19219e-14	1.00000	4.19219e-14	1.00000
rad25	3.94470e-14	1.00000	3.94470e-14	1.00000
PAH10+CH3	1.70928e-14	1.00000	1.70928e-14	1.00000
rad39	1.60857e-14	1.00000	1.60857e-14	1.00000
Phenyl+cycC3H4	7.86462e-15	1.00000	0.00000	1.00000
rad33	3.74188e-15	1.00000	3.74188e-15	1.00000
rad43	2.50798e-15	1.00000	2.50798e-15	1.00000
rad62	3.64009e-16	1.00000	3.64009e-16	1.00000
PhcycC3H3_B+H	3.50941e-16	1.00000	3.50941e-16	1.00000
rad50	2.39587e-16	1.00000	2.39587e-16	1.00000
rad24	1.48717e-16	1.00000	1.48717e-16	1.00000
rad70	4.18590e-17	1.00000	4.18590e-17	1.00000
rad54	1.86569e-17	1.00000	1.86569e-17	1.00000
rad31	1.51104e-17	1.00000	1.51104e-17	1.00000
rad58	8.72738e-18	1.00000	8.72738e-18	1.00000
rad52	1.49839e-18	1.00000	1.49839e-18	1.00000
PAH1+H	1.10427e-18	1.00000	1.10427e-18	1.00000
rad34	5.35546e-19	1.00000	5.35546e-19	1.00000
rad51	3.82475e-19	1.00000	3.82475e-19	1.00000
rad55	1.35974e-19	1.00000	1.35974e-19	1.00000
rad41	7.09188e-20	1.00000	7.09188e-20	1.00000
rad42	3.83053e-20	1.00000	3.83053e-20	1.00000
rad65	5.59244e-21	1.00000	5.59244e-21	1.00000
rad47	1.45445e-24	1.00000	1.45445e-24	1.00000
rad53	3.83492e-25	1.00000	3.83492e-25	1.00000
rad61	9.43316e-27	1.00000	9.43316e-27	1.00000
rad64	1.77512e-27	1.00000	1.77512e-27	1.00000
rad68syn	1.66615e-29	1.00000	1.66615e-29	1.00000
rad68anti	1.34296e-29	1.00000	1.34296e-29	1.00000
rad56	6.50020e-30	1.00000	6.50020e-30	1.00000
rad40syn	3.21304e-33	1.00000	3.21304e-33	1.00000
rad40anti	2.57751e-33	1.00000	2.57751e-33	1.00000
rad19syn	9.35424e-35	1.00000	9.35424e-35	1.00000
rad73	7.31558e-35	1.00000	7.31558e-35	1.00000
PAH8+H	1.34635e-35	1.00000	1.34635e-35	1.00000
rad71	1.99400e-39	1.00000	1.99400e-39	1.00000
rad8	2.23310e-48	1.00000	2.23310e-48	1.00000

1000.00000 Pa, 130.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.81236e-15 (1.00)	3.81236e-15 (1.00)
Formation of rad19	3.81236e-15 (1.000)	3.81236e-15 (1.000)
H-abstraction to cyc2enyl	1.44825e-21 (3.80e-07)	1.44825e-21 (3.80e-07)
H-abstraction to cyclenyl	2.94348e-27 (7.72e-13)	2.94348e-27 (7.72e-13)

species	PYtrue	Cumul	PYeffective	Cumul
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rad9	0.826288	0.826288	0.826288	0.826288
Indene+H	0.172361	0.998649	0.172361	0.998649
rad15	0.00132423	0.999973	0.00132423	0.999973
PhCHCCH2+H	2.39843e-05	0.999997	2.39843e-05	0.999997
rad6	1.12666e-06	0.999998	1.12666e-06	0.999998
rad2	7.00750e-07	0.999999	7.00750e-07	0.999999
Benzene+cycloprop-2-enylidene	3.79882e-07	0.999999	3.79882e-07	0.999999
rad26	1.39994e-07	0.999999	1.39994e-07	0.999999
C2H2+PhCH2	1.08226e-07	0.999999	1.08226e-07	0.999999
rad10	8.19568e-08	0.999999	8.19568e-08	0.999999
rad23	7.48546e-08	0.999999	7.48546e-08	0.999999
rad67	5.02249e-08	0.999999	5.02249e-08	0.999999
PhCCH+CH3	4.77651e-08	1.000000	4.77651e-08	1.000000
rad1	4.56073e-08	1.000000	4.56073e-08	1.000000
PhCCCH3+H	3.42381e-08	1.000000	3.42381e-08	1.000000
Ph+MeAc	2.28230e-08	1.000000	2.28230e-08	1.000000
rad35	2.23273e-08	1.000000	2.23273e-08	1.000000
rad45	1.12988e-08	1.000000	1.12988e-08	1.000000
rad3	9.52351e-09	1.000000	9.52351e-09	1.000000
rad12	6.44611e-09	1.000000	6.44611e-09	1.000000
rad4	4.84568e-09	1.000000	4.84568e-09	1.000000
rad19anti	4.00839e-09	1.000000	4.00839e-09	1.000000
rad11	1.99289e-09	1.000000	1.99289e-09	1.000000
Ph+Allene	1.16442e-09	1.000000	1.16442e-09	1.000000
rad22	1.07708e-09	1.000000	1.07708e-09	1.000000
rad7	7.74546e-10	1.000000	7.74546e-10	1.000000
rad36	6.93035e-10	1.000000	6.93035e-10	1.000000
rad30	3.88672e-10	1.000000	3.88672e-10	1.000000
PhCH2CCH+H	2.11518e-10	1.000000	2.11518e-10	1.000000
rad28	7.11286e-11	1.000000	7.11286e-11	1.000000
rad5	3.77888e-11	1.000000	3.77888e-11	1.000000
rad37	2.15259e-11	1.000000	2.15259e-11	1.000000
rad13	3.38970e-12	1.000000	3.38970e-12	1.000000
PhcycC3H3_A+H	2.85300e-12	1.000000	2.85300e-12	1.000000
rad14	2.53037e-12	1.000000	2.53037e-12	1.000000
rad27	2.31937e-12	1.000000	2.31937e-12	1.000000
PAH9+H	1.89383e-12	1.000000	1.89383e-12	1.000000
rad18	1.71237e-12	1.000000	1.71237e-12	1.000000
rad60syn	1.66517e-12	1.000000	1.66517e-12	1.000000
rad38	8.90671e-13	1.000000	8.90671e-13	1.000000
PAH7+H	8.47821e-13	1.000000	8.47821e-13	1.000000
rad60anti	8.13733e-13	1.000000	8.13733e-13	1.000000
Benzene+cycloprop-1-enylidene	7.72089e-13	1.000000	7.72089e-13	1.000000
PAH3+H	6.87127e-13	1.000000	6.87127e-13	1.000000
rad59	1.41260e-13	1.000000	1.41260e-13	1.000000
rad20	8.89079e-14	1.000000	8.89079e-14	1.000000
rad21	5.74752e-14	1.000000	5.74752e-14	1.000000
rad46	5.32599e-14	1.000000	5.32599e-14	1.000000
rad25	3.51697e-14	1.000000	3.51697e-14	1.000000
rad39	2.43511e-14	1.000000	2.43511e-14	1.000000
PAH10+CH3	2.41842e-14	1.000000	2.41842e-14	1.000000
Phenyl+cycC3H4	1.18041e-14	1.000000	0.000000	1.000000
rad33	4.10784e-15	1.000000	4.10784e-15	1.000000
rad43	3.46863e-15	1.000000	3.46863e-15	1.000000
PhcycC3H3_B+H	8.56797e-16	1.000000	8.56797e-16	1.000000
rad62	5.16492e-16	1.000000	5.16492e-16	1.000000
rad50	3.17181e-16	1.000000	3.17181e-16	1.000000
rad24	1.54907e-16	1.000000	1.54907e-16	1.000000
rad70	5.52655e-17	1.000000	5.52655e-17	1.000000
rad54	2.69582e-17	1.000000	2.69582e-17	1.000000
rad31	1.72381e-17	1.000000	1.72381e-17	1.000000
rad58	1.14216e-17	1.000000	1.14216e-17	1.000000
rad52	2.04622e-18	1.000000	2.04622e-18	1.000000
PAH1+H	1.76935e-18	1.000000	1.76935e-18	1.000000
rad34	7.56091e-19	1.000000	7.56091e-19	1.000000
rad51	5.42158e-19	1.000000	5.42158e-19	1.000000
rad55	2.06671e-19	1.000000	2.06671e-19	1.000000
rad41	1.20599e-19	1.000000	1.20599e-19	1.000000
rad42	6.48815e-20	1.000000	6.48815e-20	1.000000
rad65	8.33570e-21	1.000000	8.33570e-21	1.000000
rad47	1.65123e-24	1.000000	1.65123e-24	1.000000
rad53	1.08570e-24	1.000000	1.08570e-24	1.000000
rad61	5.88934e-26	1.000000	5.88934e-26	1.000000
rad64	7.04313e-27	1.000000	7.04313e-27	1.000000
rad68syn	1.49239e-28	1.000000	1.49239e-28	1.000000
rad68anti	1.19684e-28	1.000000	1.19684e-28	1.000000
rad56	5.26622e-29	1.000000	5.26622e-29	1.000000
rad40syn	6.16695e-32	1.000000	6.16695e-32	1.000000
rad40anti	4.98386e-32	1.000000	4.98386e-32	1.000000

rad73	1.19205e-33	1.000000	1.19205e-33	1.000000
PAH8+H	4.37654e-34	1.000000	4.37654e-34	1.000000
rad19syn	2.11210e-34	1.000000	2.11210e-34	1.000000
rad71	8.12993e-38	1.000000	8.12993e-38	1.000000
rad8	2.52372e-48	1.000000	2.52372e-48	1.000000

1000.00000 Pa, 140.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.99515e-15 (1.00)	4.99515e-15 (1.00)
Formation of rad19	4.99514e-15 (1.000)	4.99514e-15 (1.000)
H-abstraction to cyc2enyl	5.62488e-21 (1.13e-06)	5.62488e-21 (1.13e-06)
H-abstraction to cyclenyl	3.00047e-26 (6.01e-12)	3.00047e-26 (6.01e-12)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.812086	0.812086	0.812086	0.812086
Indene+H	0.186597	0.998683	0.186597	0.998683
rad15	0.00128652	0.999969	0.00128652	0.999969
PhCHCCH2+H	2.69591e-05	0.999996	2.69591e-05	0.999996
rad6	1.27306e-06	0.999998	1.27306e-06	0.999998
Benzene+cycloprop-2-enylidene	1.12607e-06	0.999999	1.12607e-06	0.999999
rad2	7.71302e-07	1.000000	7.71302e-07	1.000000
rad26	1.57252e-07	1.000000	1.57252e-07	1.000000
C2H2+PhCH2	1.23328e-07	1.000000	1.23328e-07	1.000000
rad10	9.06714e-08	1.000000	9.06714e-08	1.000000
rad23	8.08503e-08	1.000000	8.08503e-08	1.000000
PhCCH+CH3	6.02642e-08	1.000000	6.02642e-08	1.000000
rad67	5.72855e-08	1.000000	5.72855e-08	1.000000
rad1	5.04237e-08	1.000000	5.04237e-08	1.000000
PhCCCH3+H	4.29860e-08	1.000000	4.29860e-08	1.000000
Ph+MeAc	2.90234e-08	1.000000	2.90234e-08	1.000000
rad35	2.54123e-08	1.000000	2.54123e-08	1.000000
rad45	1.19491e-08	1.000000	1.19491e-08	1.000000
rad3	1.04608e-08	1.000000	1.04608e-08	1.000000
rad12	6.26222e-09	1.000000	6.26222e-09	1.000000
rad4	5.32861e-09	1.000000	5.32861e-09	1.000000
rad19anti	3.83326e-09	1.000000	3.83326e-09	1.000000
rad11	1.84360e-09	1.000000	1.84360e-09	1.000000
Ph+Allene	1.37572e-09	1.000000	1.37572e-09	1.000000
rad22	9.85797e-10	1.000000	9.85797e-10	1.000000
rad7	8.60102e-10	1.000000	8.60102e-10	1.000000
rad36	7.33590e-10	1.000000	7.33590e-10	1.000000
rad30	4.42837e-10	1.000000	4.42837e-10	1.000000
PhCH2CCH+H	2.53600e-10	1.000000	2.53600e-10	1.000000
rad28	9.10027e-11	1.000000	9.10027e-11	1.000000
rad5	3.82201e-11	1.000000	3.82201e-11	1.000000
rad37	2.80282e-11	1.000000	2.80282e-11	1.000000
Benzene+cycloprop-1-enylidene	6.00677e-12	1.000000	6.00677e-12	1.000000
rad13	3.72475e-12	1.000000	3.72475e-12	1.000000
PhcycC3H3_A+H	3.60895e-12	1.000000	3.60895e-12	1.000000
rad14	2.73501e-12	1.000000	2.73501e-12	1.000000
rad27	2.49408e-12	1.000000	2.49408e-12	1.000000
PAH9+H	2.40243e-12	1.000000	2.40243e-12	1.000000
rad60syn	1.93628e-12	1.000000	1.93628e-12	1.000000
rad18	1.44468e-12	1.000000	1.44468e-12	1.000000
rad38	1.11776e-12	1.000000	1.11776e-12	1.000000
PAH7+H	1.04625e-12	1.000000	1.04625e-12	1.000000
rad60anti	9.47947e-13	1.000000	9.47947e-13	1.000000
PAH3+H	8.19786e-13	1.000000	8.19786e-13	1.000000
rad59	1.67877e-13	1.000000	1.67877e-13	1.000000
rad20	7.57636e-14	1.000000	7.57636e-14	1.000000
rad46	6.73123e-14	1.000000	6.73123e-14	1.000000
rad21	4.89183e-14	1.000000	4.89183e-14	1.000000
rad39	3.66228e-14	1.000000	3.66228e-14	1.000000
PAH10+CH3	3.42822e-14	1.000000	3.42822e-14	1.000000
rad25	3.18787e-14	1.000000	3.18787e-14	1.000000
Phenyl+cycC3H4	1.75977e-14	1.000000	0.000000	1.000000
rad43	4.79089e-15	1.000000	4.79089e-15	1.000000
rad33	4.50843e-15	1.000000	4.50843e-15	1.000000
PhcycC3H3_B+H	1.91902e-15	1.000000	1.91902e-15	1.000000
rad62	7.29614e-16	1.000000	7.29614e-16	1.000000
rad50	4.19015e-16	1.000000	4.19015e-16	1.000000
rad24	1.61235e-16	1.000000	1.61235e-16	1.000000
rad70	7.32370e-17	1.000000	7.32370e-17	1.000000
rad54	3.89937e-17	1.000000	3.89937e-17	1.000000
rad31	1.96167e-17	1.000000	1.96167e-17	1.000000
rad58	1.50279e-17	1.000000	1.50279e-17	1.000000
PAH1+H	2.85986e-18	1.000000	2.85986e-18	1.000000

rad52	2.79509e-18	1.00000	2.79509e-18	1.00000
rad34	1.07420e-18	1.00000	1.07420e-18	1.00000
rad51	7.70871e-19	1.00000	7.70871e-19	1.00000
rad55	3.15483e-19	1.00000	3.15483e-19	1.00000
rad41	2.05805e-19	1.00000	2.05805e-19	1.00000
rad42	1.09769e-19	1.00000	1.09769e-19	1.00000
rad65	1.24384e-20	1.00000	1.24384e-20	1.00000
rad53	2.95169e-24	1.00000	2.95169e-24	1.00000
rad47	1.87646e-24	1.00000	1.87646e-24	1.00000
rad61	3.18700e-25	1.00000	3.18700e-25	1.00000
rad64	2.65346e-26	1.00000	2.65346e-26	1.00000
rad68syn	1.07489e-27	1.00000	1.07489e-27	1.00000
rad68anti	8.57545e-28	1.00000	8.57545e-28	1.00000
rad56	3.60906e-28	1.00000	3.60906e-28	1.00000
rad40syn	9.14902e-31	1.00000	9.14902e-31	1.00000
rad40anti	7.46362e-31	1.00000	7.46362e-31	1.00000
rad73	1.54174e-32	1.00000	1.54174e-32	1.00000
PAH8+H	1.05952e-32	1.00000	1.05952e-32	1.00000
rad19syn	4.99941e-34	1.00000	4.99941e-34	1.00000
rad71	2.43933e-36	1.00000	2.43933e-36	1.00000
rad8	2.97498e-48	1.00000	2.97498e-48	1.00000

1000.00000 Pa, 150.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.34137e-15 (1.00)	6.34137e-15 (1.00)
Formation of rad19	6.34135e-15 (1.000)	6.34135e-15 (1.000)
H-abstraction to cyc2enyl	1.81685e-20 (2.87e-06)	1.81685e-20 (2.87e-06)
H-abstraction to cyclenyl	2.23765e-25 (3.53e-11)	2.23765e-25 (3.53e-11)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.797638	0.797638	0.797638	0.797638
Indene+H	0.201075	0.998713	0.201075	0.998713
rad15	0.00125034	0.999963	0.00125034	0.999963
PhCHCCH2+H	3.02252e-05	0.999994	3.02252e-05	0.999994
Benzene+cycloprop-2-enylidene	2.86508e-06	0.999997	2.86508e-06	0.999997
rad6	1.43490e-06	0.999998	1.43490e-06	0.999998
rad2	8.45117e-07	0.999999	8.45117e-07	0.999999
rad26	1.76117e-07	0.999999	1.76117e-07	0.999999
C2H2+PhCH2	1.40261e-07	0.999999	1.40261e-07	0.999999
rad10	9.97041e-08	0.999999	9.97041e-08	0.999999
rad23	8.69031e-08	0.999999	8.69031e-08	0.999999
PhCCH+CH3	7.54880e-08	0.999999	7.54880e-08	0.999999
rad67	6.52183e-08	0.999999	6.52183e-08	0.999999
rad1	5.55206e-08	1.000000	5.55206e-08	1.000000
PhCCCH3+H	5.36832e-08	1.000000	5.36832e-08	1.000000
Ph+MeAc	3.67417e-08	1.000000	3.67417e-08	1.000000
rad35	2.88668e-08	1.000000	2.88668e-08	1.000000
rad45	1.26007e-08	1.000000	1.26007e-08	1.000000
rad3	1.14366e-08	1.000000	1.14366e-08	1.000000
rad12	6.09398e-09	1.000000	6.09398e-09	1.000000
rad4	5.83306e-09	1.000000	5.83306e-09	1.000000
rad19anti	3.67847e-09	1.000000	3.67847e-09	1.000000
rad11	1.73128e-09	1.000000	1.73128e-09	1.000000
Ph+Allene	1.62472e-09	1.000000	1.62472e-09	1.000000
rad7	9.54065e-10	1.000000	9.54065e-10	1.000000
rad22	9.11896e-10	1.000000	9.11896e-10	1.000000
rad36	7.74492e-10	1.000000	7.74492e-10	1.000000
rad30	5.03603e-10	1.000000	5.03603e-10	1.000000
PhCH2CCH+H	3.04170e-10	1.000000	3.04170e-10	1.000000
rad28	1.15843e-10	1.000000	1.15843e-10	1.000000
rad5	3.84492e-11	1.000000	3.84492e-11	1.000000
rad37	3.64203e-11	1.000000	3.64203e-11	1.000000
Benzene+cycloprop-1-enylidene	3.52865e-11	1.000000	3.52865e-11	1.000000
PhcycC3H3_A+H	4.59985e-12	1.000000	4.59985e-12	1.000000
rad13	4.09314e-12	1.000000	4.09314e-12	1.000000
PAH9+H	3.02967e-12	1.000000	3.02967e-12	1.000000
rad14	2.94664e-12	1.000000	2.94664e-12	1.000000
rad27	2.67563e-12	1.000000	2.67563e-12	1.000000
rad60syn	2.25022e-12	1.000000	2.25022e-12	1.000000
rad38	1.39866e-12	1.000000	1.39866e-12	1.000000
PAH7+H	1.29835e-12	1.000000	1.29835e-12	1.000000
rad18	1.23573e-12	1.000000	1.23573e-12	1.000000
rad60anti	1.10379e-12	1.000000	1.10379e-12	1.000000
PAH3+H	9.79214e-13	1.000000	9.79214e-13	1.000000
rad59	1.99684e-13	1.000000	1.99684e-13	1.000000
rad46	8.48307e-14	1.000000	8.48307e-14	1.000000
rad20	6.58710e-14	1.000000	6.58710e-14	1.000000

rad39	5.49585e-14	1.000000	5.49585e-14	1.000000
PAH10+CH3	4.88302e-14	1.000000	4.88302e-14	1.000000
rad21	4.24873e-14	1.000000	4.24873e-14	1.000000
rad25	2.93401e-14	1.000000	2.93401e-14	1.000000
Phenyl+cycC3H4	2.61241e-14	1.000000	0.00000	1.000000
rad43	6.62367e-15	1.000000	6.62367e-15	1.000000
rad33	4.95001e-15	1.000000	4.95001e-15	1.000000
PhcycC3H3_B+H	4.02012e-15	1.000000	4.02012e-15	1.000000
rad62	1.02890e-15	1.000000	1.02890e-15	1.000000
rad50	5.53848e-16	1.000000	5.53848e-16	1.000000
rad24	1.67729e-16	1.000000	1.67729e-16	1.000000
rad70	9.76208e-17	1.000000	9.76208e-17	1.000000
rad54	5.66587e-17	1.000000	5.66587e-17	1.000000
rad31	2.22913e-17	1.000000	2.22913e-17	1.000000
rad58	1.99135e-17	1.000000	1.99135e-17	1.000000
PAH1+H	4.67317e-18	1.000000	4.67317e-18	1.000000
rad52	3.82992e-18	1.000000	3.82992e-18	1.000000
rad34	1.53877e-18	1.000000	1.53877e-18	1.000000
rad51	1.10268e-18	1.000000	1.10268e-18	1.000000
rad55	4.85337e-19	1.000000	4.85337e-19	1.000000
rad41	3.52755e-19	1.000000	3.52755e-19	1.000000
rad42	1.85782e-19	1.000000	1.85782e-19	1.000000
rad65	1.86442e-20	1.000000	1.86442e-20	1.000000
rad53	7.76133e-24	1.000000	7.76133e-24	1.000000
rad47	2.13656e-24	1.000000	2.13656e-24	1.000000
rad61	1.51195e-24	1.000000	1.51195e-24	1.000000
rad64	9.53057e-26	1.000000	9.53057e-26	1.000000
rad68syn	6.35570e-27	1.000000	6.35570e-27	1.000000
rad68anti	5.04254e-27	1.000000	5.04254e-27	1.000000
rad56	2.11421e-27	1.000000	2.11421e-27	1.000000
rad40syn	1.04259e-29	1.000000	1.04259e-29	1.000000
rad40anti	8.59259e-30	1.000000	8.59259e-30	1.000000
PAH8+H	1.87189e-31	1.000000	1.87189e-31	1.000000
rad73	1.58243e-31	1.000000	1.58243e-31	1.000000
rad19syn	1.24238e-33	1.000000	1.24238e-33	1.000000
rad71	5.26529e-35	1.000000	5.26529e-35	1.000000
rad8	3.63844e-48	1.000000	3.63844e-48	1.000000

1000.00000 Pa, 160.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.84423e-15 (1.00)	7.84423e-15 (1.00)
Formation of rad19	7.84418e-15 (1.000)	7.84418e-15 (1.000)
H-abstraction to cyc2enyl	5.05321e-20 (6.44e-06)	5.05321e-20 (6.44e-06)
H-abstraction to cyclenyl	1.29479e-24 (1.65e-10)	1.29479e-24 (1.65e-10)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.782893	0.782893	0.782893	0.782893
Indene+H	0.215848	0.998741	0.215848	0.998741
rad15	0.00121533	0.999956	0.00121533	0.999956
PhCHCCH2+H	3.38322e-05	0.999990	3.38322e-05	0.999990
Benzene+cycloprop-2-enylidene	6.44194e-06	0.999996	6.44194e-06	0.999996
rad6	1.61479e-06	0.999998	1.61479e-06	0.999998
rad2	9.22317e-07	0.999999	9.22317e-07	0.999999
rad26	1.96829e-07	0.999999	1.96829e-07	0.999999
C2H2+PhCH2	1.59374e-07	0.999999	1.59374e-07	0.999999
rad10	1.09074e-07	0.999999	1.09074e-07	0.999999
PhCCH+CH3	9.40457e-08	0.999999	9.40457e-08	0.999999
rad23	9.30255e-08	0.999999	9.30255e-08	0.999999
rad67	7.41878e-08	0.999999	7.41878e-08	0.999999
PhCCCH3+H	6.67933e-08	1.000000	6.67933e-08	1.000000
rad1	6.09179e-08	1.000000	6.09179e-08	1.000000
Ph+MeAc	4.63778e-08	1.000000	4.63778e-08	1.000000
rad35	3.27594e-08	1.000000	3.27594e-08	1.000000
rad45	1.32555e-08	1.000000	1.32555e-08	1.000000
rad3	1.24528e-08	1.000000	1.24528e-08	1.000000
rad4	6.36029e-09	1.000000	6.36029e-09	1.000000
rad12	5.93815e-09	1.000000	5.93815e-09	1.000000
rad19anti	3.54053e-09	1.000000	3.54053e-09	1.000000
Ph+Allene	1.92059e-09	1.000000	1.92059e-09	1.000000
rad11	1.64919e-09	1.000000	1.64919e-09	1.000000
rad7	1.05794e-09	1.000000	1.05794e-09	1.000000
rad22	8.51647e-10	1.000000	8.51647e-10	1.000000
rad36	8.15915e-10	1.000000	8.15915e-10	1.000000
rad30	5.72221e-10	1.000000	5.72221e-10	1.000000
PhCH2CCH+H	3.65483e-10	1.000000	3.65483e-10	1.000000
Benzene+cycloprop-1-enylidene	1.65062e-10	1.000000	1.65062e-10	1.000000
rad28	1.47024e-10	1.000000	1.47024e-10	1.000000

rad37	4.73258e-11	1.000000	4.73258e-11	1.000000
rad5	3.84922e-11	1.000000	3.84922e-11	1.000000
PhcycC3H3_A+H	5.90691e-12	1.000000	5.90691e-12	1.000000
rad13	4.50076e-12	1.000000	4.50076e-12	1.000000
PAH9+H	3.80654e-12	1.000000	3.80654e-12	1.000000
rad14	3.16578e-12	1.000000	3.16578e-12	1.000000
rad27	2.86434e-12	1.000000	2.86434e-12	1.000000
rad60syn	2.61653e-12	1.000000	2.61653e-12	1.000000
rad38	1.74857e-12	1.000000	1.74857e-12	1.000000
PAH7+H	1.62432e-12	1.000000	1.62432e-12	1.000000
rad60anti	1.28614e-12	1.000000	1.28614e-12	1.000000
PAH3+H	1.17252e-12	1.000000	1.17252e-12	1.000000
rad18	1.07013e-12	1.000000	1.07013e-12	1.000000
rad59	2.38024e-13	1.000000	2.38024e-13	1.000000
rad46	1.06810e-13	1.000000	1.06810e-13	1.000000
rad39	8.25824e-14	1.000000	8.25824e-14	1.000000
PAH10+CH3	7.00419e-14	1.000000	7.00419e-14	1.000000
rad20	5.83410e-14	1.000000	5.83410e-14	1.000000
Phenyl+cycC3H4	3.86827e-14	1.000000	0.00000	1.000000
rad21	3.75977e-14	1.000000	3.75977e-14	1.000000
rad25	2.73943e-14	1.000000	2.73943e-14	1.000000
rad43	9.18142e-15	1.000000	9.18142e-15	1.000000
PhcycC3H3_B+H	7.98856e-15	1.000000	7.98856e-15	1.000000
rad33	5.43979e-15	1.000000	5.43979e-15	1.000000
rad62	1.45114e-15	1.000000	1.45114e-15	1.000000
rad50	7.34067e-16	1.000000	7.34067e-16	1.000000
rad24	1.74412e-16	1.000000	1.74412e-16	1.000000
rad70	1.31098e-16	1.000000	1.31098e-16	1.000000
rad54	8.29297e-17	1.000000	8.29297e-17	1.000000
rad58	2.66104e-17	1.000000	2.66104e-17	1.000000
rad31	2.53154e-17	1.000000	2.53154e-17	1.000000
PAH1+H	7.72776e-18	1.000000	7.72776e-18	1.000000
rad52	5.27618e-18	1.000000	5.27618e-18	1.000000
rad34	2.22531e-18	1.000000	2.22531e-18	1.000000
rad51	1.59041e-18	1.000000	1.59041e-18	1.000000
rad55	7.54350e-19	1.000000	7.54350e-19	1.000000
rad41	6.07166e-19	1.000000	6.07166e-19	1.000000
rad42	3.14680e-19	1.000000	3.14680e-19	1.000000
rad65	2.81418e-20	1.000000	2.81418e-20	1.000000
rad53	1.98532e-23	1.000000	1.98532e-23	1.000000
rad61	6.39355e-24	1.000000	6.39355e-24	1.000000
rad47	2.43963e-24	1.000000	2.43963e-24	1.000000
rad64	3.27919e-25	1.000000	3.27919e-25	1.000000
rad68syn	3.17434e-26	1.000000	3.17434e-26	1.000000
rad68anti	2.50333e-26	1.000000	2.50333e-26	1.000000
rad56	1.07979e-26	1.000000	1.07979e-26	1.000000
rad40syn	9.35657e-29	1.000000	9.35657e-29	1.000000
rad40anti	7.79007e-29	1.000000	7.79007e-29	1.000000
PAH8+H	2.48167e-30	1.000000	2.48167e-30	1.000000
rad73	1.31915e-30	1.000000	1.31915e-30	1.000000
rad19syn	3.24506e-33	1.000000	3.24506e-33	1.000000
rad71	8.41945e-34	1.000000	8.41945e-34	1.000000
rad8	4.59801e-48	1.000000	4.59801e-48	1.000000

1000.00000 Pa, 170.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.49598e-15 (1.00)	9.49598e-15 (1.00)
Formation of rad19	9.49586e-15 (1.000)	9.49586e-15 (1.000)
H-abstraction to cyc2enyl	1.24279e-19 (1.31e-05)	1.24279e-19 (1.31e-05)
H-abstraction to cyclenyl	6.08025e-24 (6.40e-10)	6.08025e-24 (6.40e-10)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.767802	0.767802	0.767802	0.767802
Indene+H	0.230962	0.998764	0.230962	0.998764
rad15	0.00118120	0.999945	0.00118120	0.999945
PhCHCCH2+H	3.78376e-05	0.999983	3.78376e-05	0.999983
Benzene+cycloprop-2-enylidene	1.30875e-05	0.999996	1.30875e-05	0.999996
rad6	1.81583e-06	0.999998	1.81583e-06	0.999998
rad2	1.00294e-06	0.999999	1.00294e-06	0.999999
rad26	2.19642e-07	0.999999	2.19642e-07	0.999999
C2H2+PhCH2	1.81085e-07	0.999999	1.81085e-07	0.999999
rad10	1.18792e-07	0.999999	1.18792e-07	0.999999
PhCCH+CH3	1.16684e-07	1.000000	1.16684e-07	1.000000
rad23	9.92242e-08	1.000000	9.92242e-08	1.000000
rad67	8.43907e-08	1.000000	8.43907e-08	1.000000
PhCCCH3+H	8.28934e-08	1.000000	8.28934e-08	1.000000
rad1	6.66319e-08	1.000000	6.66319e-08	1.000000

Ph+MeAc	5.84410e-08	1.000000	5.84410e-08	1.000000
rad35	3.71719e-08	1.000000	3.71719e-08	1.000000
rad45	1.39148e-08	1.000000	1.39148e-08	1.000000
rad3	1.35101e-08	1.000000	1.35101e-08	1.000000
rad4	6.91098e-09	1.000000	6.91098e-09	1.000000
rad12	5.79220e-09	1.000000	5.79220e-09	1.000000
rad19anti	3.41676e-09	1.000000	3.41676e-09	1.000000
Ph+Allene	2.27504e-09	1.000000	2.27504e-09	1.000000
rad11	1.59272e-09	1.000000	1.59272e-09	1.000000
rad7	1.17346e-09	1.000000	1.17346e-09	1.000000
rad36	8.57985e-10	1.000000	8.57985e-10	1.000000
rad22	8.02299e-10	1.000000	8.02299e-10	1.000000
rad30	6.50194e-10	1.000000	6.50194e-10	1.000000
Benzene+cycloprop-1-enylidene	6.40297e-10	1.000000	6.40297e-10	1.000000
PhCH2CCH+H	4.40461e-10	1.000000	4.40461e-10	1.000000
rad28	1.86349e-10	1.000000	1.86349e-10	1.000000
rad37	6.15975e-11	1.000000	6.15975e-11	1.000000
rad5	3.83633e-11	1.000000	3.83633e-11	1.000000
PhcycC3H3_A+H	7.64030e-12	1.000000	7.64030e-12	1.000000
rad13	4.95436e-12	1.000000	4.95436e-12	1.000000
PAH9+H	4.77330e-12	1.000000	4.77330e-12	1.000000
rad14	3.39257e-12	1.000000	3.39257e-12	1.000000
rad27	3.06023e-12	1.000000	3.06023e-12	1.000000
rad60syn	3.04710e-12	1.000000	3.04710e-12	1.000000
rad38	2.18770e-12	1.000000	2.18770e-12	1.000000
PAH7+H	2.05373e-12	1.000000	2.05373e-12	1.000000
rad60anti	1.50109e-12	1.000000	1.50109e-12	1.000000
PAH3+H	1.40894e-12	1.000000	1.40894e-12	1.000000
rad18	9.37226e-13	1.000000	9.37226e-13	1.000000
rad59	2.84622e-13	1.000000	2.84622e-13	1.000000
rad46	1.34571e-13	1.000000	1.34571e-13	1.000000
rad39	1.24587e-13	1.000000	1.24587e-13	1.000000
PAH10+CH3	1.01332e-13	1.000000	1.01332e-13	1.000000
Phenyl+cycC3H4	5.71889e-14	1.000000	0.00000	1.000000
rad20	5.25762e-14	1.000000	5.25762e-14	1.000000
rad21	3.38576e-14	1.000000	3.38576e-14	1.000000
rad25	2.59308e-14	1.000000	2.59308e-14	1.000000
PhcycC3H3_B+H	1.52150e-14	1.000000	1.52150e-14	1.000000
rad43	1.27725e-14	1.000000	1.27725e-14	1.000000
rad33	5.98615e-15	1.000000	5.98615e-15	1.000000
rad62	2.04925e-15	1.000000	2.04925e-15	1.000000
rad50	9.77258e-16	1.000000	9.77258e-16	1.000000
rad24	1.81301e-16	1.000000	1.81301e-16	1.000000
rad70	1.77580e-16	1.000000	1.77580e-16	1.000000
rad54	1.22520e-16	1.000000	1.22520e-16	1.000000
rad58	3.58913e-17	1.000000	3.58913e-17	1.000000
rad31	2.87523e-17	1.000000	2.87523e-17	1.000000
PAH1+H	1.29314e-17	1.000000	1.29314e-17	1.000000
rad52	7.32030e-18	1.000000	7.32030e-18	1.000000
rad34	3.25096e-18	1.000000	3.25096e-18	1.000000
rad51	2.31651e-18	1.000000	2.31651e-18	1.000000
rad55	1.18648e-18	1.000000	1.18648e-18	1.000000
rad41	1.04835e-18	1.000000	1.04835e-18	1.000000
rad42	5.33164e-19	1.000000	5.33164e-19	1.000000
rad65	4.28419e-20	1.000000	4.28419e-20	1.000000
rad53	4.96179e-23	1.000000	4.96179e-23	1.000000
rad61	2.44894e-23	1.000000	2.44894e-23	1.000000
rad47	2.79593e-24	1.000000	2.79593e-24	1.000000
rad64	1.08538e-24	1.000000	1.08538e-24	1.000000
rad68syn	1.37572e-25	1.000000	1.37572e-25	1.000000
rad68anti	1.07783e-25	1.000000	1.07783e-25	1.000000
rad56	4.90604e-26	1.000000	4.90604e-26	1.000000
rad40syn	6.82012e-28	1.000000	6.82012e-28	1.000000
rad40anti	5.73248e-28	1.000000	5.73248e-28	1.000000
PAH8+H	2.55449e-29	1.000000	2.55449e-29	1.000000
rad73	9.17626e-30	1.000000	9.17626e-30	1.000000
rad71	1.02680e-32	1.000000	1.02680e-32	1.000000
rad19syn	8.91654e-33	1.000000	8.91654e-33	1.000000
rad8	5.98507e-48	1.000000	5.98507e-48	1.000000

1000.00000 Pa, 180.000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	1.12884e-14 (1.00)	1.12884e-14 (1.00)		
Formation of rad19	1.12881e-14 (1.000)	1.12881e-14 (1.000)		
H-abstraction to cyc2enyl	2.75916e-19 (2.44e-05)	2.75916e-19 (2.44e-05)		
H-abstraction to cyclenyl	2.39955e-23 (2.13e-09)	2.39955e-23 (2.13e-09)		
species	PYtrue	Cumul	PYeffective	Cumul

rad9	0.752316	0.752316	0.752316	0.752316
Indene+H	0.246465	0.998781	0.246465	0.998781
rad15	0.00114771	0.999928	0.00114771	0.999928
PhCHCCH2+H	4.23082e-05	0.999971	4.23082e-05	0.999971
Benzene+cycloprop-2-enylidene	2.44424e-05	0.999995	2.44424e-05	0.999995
rad6	2.04155e-06	0.999997	2.04155e-06	0.999997
rad2	1.08690e-06	0.999998	1.08690e-06	0.999998
rad26	2.44837e-07	0.999998	2.44837e-07	0.999998
C2H2+PhCH2	2.05892e-07	0.999999	2.05892e-07	0.999999
PhCCH+CH3	1.44313e-07	0.999999	1.44313e-07	0.999999
rad10	1.28852e-07	0.999999	1.28852e-07	0.999999
rad23	1.05498e-07	0.999999	1.05498e-07	0.999999
PhCCCH3+H	1.02697e-07	0.999999	1.02697e-07	0.999999
rad67	9.60614e-08	0.999999	9.60614e-08	0.999999
Ph+MeAc	7.35763e-08	0.999999	7.35763e-08	0.999999
rad1	7.26728e-08	0.999999	7.26728e-08	0.999999
rad35	4.22013e-08	0.999999	4.22013e-08	0.999999
rad3	1.46074e-08	0.999999	1.46074e-08	0.999999
rad45	1.45787e-08	0.999999	1.45787e-08	0.999999
rad4	7.48504e-09	0.999999	7.48504e-09	0.999999
rad12	5.65411e-09	0.999999	5.65411e-09	0.999999
rad19anti	3.30513e-09	0.999999	3.30513e-09	0.999999
Ph+Allene	2.70298e-09	0.999999	2.70298e-09	0.999999
Benzene+cycloprop-1-enylidene	2.12567e-09	0.999999	2.12567e-09	0.999999
rad11	1.55878e-09	0.999999	1.55878e-09	0.999999
rad7	1.30259e-09	0.999999	1.30259e-09	0.999999
rad36	9.00775e-10	0.999999	9.00775e-10	0.999999
rad22	7.61799e-10	0.999999	7.61799e-10	0.999999
rad30	7.39314e-10	0.999999	7.39314e-10	0.999999
PhCH2CCH+H	5.32902e-10	0.999999	5.32902e-10	0.999999
rad28	2.36173e-10	0.999999	2.36173e-10	0.999999
rad37	8.04011e-11	0.999999	8.04011e-11	0.999999
rad5	3.80756e-11	0.999999	3.80756e-11	0.999999
PhcycC3H3_A+H	9.94922e-12	0.999999	9.94922e-12	0.999999
PAH9+H	5.98219e-12	0.999999	5.98219e-12	0.999999
rad13	5.46162e-12	0.999999	5.46162e-12	0.999999
rad14	3.62676e-12	0.999999	3.62676e-12	0.999999
rad60syn	3.55664e-12	0.999999	3.55664e-12	0.999999
rad27	3.26302e-12	0.999999	3.26302e-12	0.999999
rad38	2.74303e-12	0.999999	2.74303e-12	0.999999
PAH7+H	2.63036e-12	0.999999	2.63036e-12	0.999999
rad60anti	1.75624e-12	0.999999	1.75624e-12	0.999999
PAH3+H	1.70041e-12	0.999999	1.70041e-12	0.999999
rad18	8.29481e-13	0.999999	8.29481e-13	0.999999
rad59	3.41702e-13	0.999999	3.41702e-13	0.999999
rad39	1.89074e-13	0.999999	1.89074e-13	0.999999
rad46	1.69864e-13	0.999999	1.69864e-13	0.999999
PAH10+CH3	1.47982e-13	0.999999	1.47982e-13	0.999999
Phenyl+cycC3H4	8.44562e-14	0.999999	0.00000	0.999999
rad20	4.81659e-14	0.999999	4.81659e-14	0.999999
rad21	3.09979e-14	0.999999	3.09979e-14	0.999999
PhcycC3H3_B+H	2.79905e-14	0.999999	2.79905e-14	0.999999
rad25	2.48728e-14	0.999999	2.48728e-14	0.999999
rad43	1.78392e-14	0.999999	1.78392e-14	0.999999
rad33	6.59864e-15	0.999999	6.59864e-15	0.999999
rad62	2.89899e-15	0.999999	2.89899e-15	0.999999
rad50	1.30848e-15	0.999999	1.30848e-15	0.999999
rad70	2.42786e-16	0.999999	2.42786e-16	0.999999
rad24	1.88398e-16	0.999999	1.88398e-16	0.999999
rad54	1.82956e-16	0.999999	1.82956e-16	0.999999
rad58	4.88822e-17	0.999999	4.88822e-17	0.999999
rad31	3.26769e-17	0.999999	3.26769e-17	0.999999
PAH1+H	2.18754e-17	0.999999	2.18754e-17	0.999999
rad52	1.02406e-17	0.999999	1.02406e-17	0.999999
rad34	4.79800e-18	0.999999	4.79800e-18	0.999999
rad51	3.41042e-18	0.999999	3.41042e-18	0.999999
rad55	1.88984e-18	0.999999	1.88984e-18	0.999999
rad41	1.81282e-18	0.999999	1.81282e-18	0.999999
rad42	9.02607e-19	0.999999	9.02607e-19	0.999999
rad65	6.58300e-20	0.999999	6.58300e-20	0.999999
rad53	1.21532e-22	0.999999	1.21532e-22	0.999999
rad61	8.61489e-23	0.999999	8.61489e-23	0.999999
rad64	3.46701e-24	0.999999	3.46701e-24	0.999999
rad47	3.21860e-24	0.999999	3.21860e-24	0.999999
rad68syn	5.29450e-25	0.999999	5.29450e-25	0.999999
rad68anti	4.11905e-25	0.999999	4.11905e-25	0.999999
rad56	2.01855e-25	0.999999	2.01855e-25	0.999999
rad40syn	4.15791e-27	0.999999	4.15791e-27	0.999999
rad40anti	3.52473e-27	0.999999	3.52473e-27	0.999999

PAH8+H	2.11757e-28	0.999999	2.11757e-28	0.999999
rad73	5.46324e-29	0.999999	5.46324e-29	0.999999
rad71	9.96526e-32	0.999999	9.96526e-32	0.999999
rad19syn	2.57870e-32	0.999999	2.57870e-32	0.999999
rad8	8.00416e-48	0.999999	8.00416e-48	0.999999

1000.00000 Pa, 190.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.32132e-14 (1.00)	1.32132e-14 (1.00)
Formation of rad19	1.32126e-14 (1.000)	1.32126e-14 (1.000)
H-abstraction to cyc2enyl	5.62053e-19 (4.25e-05)	5.62053e-19 (4.25e-05)
H-abstraction to cyclenyl	8.18073e-23 (6.19e-09)	8.18073e-23 (6.19e-09)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.736389	0.736389	0.736389	0.736389
Indene+H	0.262402	0.998791	0.262402	0.998791
rad15	0.00111465	0.999905	0.00111465	0.999905
PhCHCCH2+H	4.73210e-05	0.999952	4.73210e-05	0.999952
Benzene+cycloprop-2-enylidene	4.25373e-05	0.999995	4.25373e-05	0.999995
rad6	2.29605e-06	0.999997	2.29605e-06	0.999997
rad2	1.17398e-06	0.999998	1.17398e-06	0.999998
rad26	2.72707e-07	0.999999	2.72707e-07	0.999999
C2H2+PhCH2	2.34393e-07	0.999999	2.34393e-07	0.999999
PhCCH+CH3	1.78023e-07	0.999999	1.78023e-07	0.999999
rad10	1.39232e-07	0.999999	1.39232e-07	0.999999
PhCCCH3+H	1.27079e-07	0.999999	1.27079e-07	0.999999
rad23	1.11837e-07	1.000000	1.11837e-07	1.000000
rad67	1.09478e-07	1.000000	1.09478e-07	1.000000
Ph+MeAc	9.25931e-08	1.000000	9.25931e-08	1.000000
rad1	7.90435e-08	1.000000	7.90435e-08	1.000000
rad35	4.79625e-08	1.000000	4.79625e-08	1.000000
rad3	1.57418e-08	1.000000	1.57418e-08	1.000000
rad45	1.52462e-08	1.000000	1.52462e-08	1.000000
rad4	8.08143e-09	1.000000	8.08143e-09	1.000000
Benzene+cycloprop-1-enylidene	6.19133e-09	1.000000	6.19133e-09	1.000000
rad12	5.52222e-09	1.000000	5.52222e-09	1.000000
Ph+Allene	3.22343e-09	1.000000	3.22343e-09	1.000000
rad19anti	3.20404e-09	1.000000	3.20404e-09	1.000000
rad11	1.54538e-09	1.000000	1.54538e-09	1.000000
rad7	1.44759e-09	1.000000	1.44759e-09	1.000000
rad36	9.44301e-10	1.000000	9.44301e-10	1.000000
rad30	8.41718e-10	1.000000	8.41718e-10	1.000000
rad22	7.28575e-10	1.000000	7.28575e-10	1.000000
PhCH2CCH+H	6.47739e-10	1.000000	6.47739e-10	1.000000
rad28	2.99569e-10	1.000000	2.99569e-10	1.000000
rad37	1.05329e-10	1.000000	1.05329e-10	1.000000
rad5	3.76412e-11	1.000000	3.76412e-11	1.000000
PhcycC3H3_A+H	1.30353e-11	1.000000	1.30353e-11	1.000000
PAH9+H	7.50089e-12	1.000000	7.50089e-12	1.000000
rad13	6.03130e-12	1.000000	6.03130e-12	1.000000
rad60syn	4.16346e-12	1.000000	4.16346e-12	1.000000
rad14	3.86767e-12	1.000000	3.86767e-12	1.000000
rad27	3.47203e-12	1.000000	3.47203e-12	1.000000
rad38	3.45055e-12	1.000000	3.45055e-12	1.000000
PAH7+H	3.41986e-12	1.000000	3.41986e-12	1.000000
PAH3+H	2.06243e-12	1.000000	2.06243e-12	1.000000
rad60anti	2.06102e-12	1.000000	2.06102e-12	1.000000
rad18	7.41458e-13	1.000000	7.41458e-13	1.000000
rad59	4.12122e-13	1.000000	4.12122e-13	1.000000
rad39	2.88981e-13	1.000000	2.88981e-13	1.000000
PAH10+CH3	2.18183e-13	1.000000	2.18183e-13	1.000000
rad46	2.15012e-13	1.000000	2.15012e-13	1.000000
Phenyl+cycC3H4	1.24602e-13	1.000000	0.00000	1.000000
PhcycC3H3_B+H	5.00277e-14	1.000000	5.00277e-14	1.000000
rad20	4.48233e-14	1.000000	4.48233e-14	1.000000
rad21	2.88311e-14	1.000000	2.88311e-14	1.000000
rad43	2.50122e-14	1.000000	2.50122e-14	1.000000
rad25	2.41677e-14	1.000000	2.41677e-14	1.000000
rad33	7.28813e-15	1.000000	7.28813e-15	1.000000
rad62	4.10809e-15	1.000000	4.10809e-15	1.000000
rad50	1.76351e-15	1.000000	1.76351e-15	1.000000
rad70	3.35115e-16	1.000000	3.35115e-16	1.000000
rad54	2.76315e-16	1.000000	2.76315e-16	1.000000
rad24	1.95703e-16	1.000000	1.95703e-16	1.000000
rad58	6.72273e-17	1.000000	6.72273e-17	1.000000
PAH1+H	3.73452e-17	1.000000	3.73452e-17	1.000000
rad31	3.71785e-17	1.000000	3.71785e-17	1.000000

rad52	1.44541e-17	1.000000	1.44541e-17	1.000000
rad34	7.15080e-18	1.000000	7.15080e-18	1.000000
rad51	5.07608e-18	1.000000	5.07608e-18	1.000000
rad41	3.13338e-18	1.000000	3.13338e-18	1.000000
rad55	3.04819e-18	1.000000	3.04819e-18	1.000000
rad42	1.52454e-18	1.000000	1.52454e-18	1.000000
rad65	1.02101e-19	1.000000	1.02101e-19	1.000000
rad53	2.92333e-22	1.000000	2.92333e-22	1.000000
rad61	2.81487e-22	1.000000	2.81487e-22	1.000000
rad64	1.07110e-23	1.000000	1.07110e-23	1.000000
rad47	3.72465e-24	1.000000	3.72465e-24	1.000000
rad68syn	1.84412e-24	1.000000	1.84412e-24	1.000000
rad68anti	1.42422e-24	1.000000	1.42422e-24	1.000000
rad56	7.63211e-25	1.000000	7.63211e-25	1.000000
rad40syn	2.17419e-26	1.000000	2.17419e-26	1.000000
rad40anti	1.85679e-26	1.000000	1.85679e-26	1.000000
PAH8+H	1.45549e-27	1.000000	1.45549e-27	1.000000
rad73	2.84415e-28	1.000000	2.84415e-28	1.000000
rad71	7.92788e-31	1.000000	7.92788e-31	1.000000
rad19syn	7.85071e-32	1.000000	7.85071e-32	1.000000
rad8	1.09754e-47	1.000000	1.09754e-47	1.000000

1000.00000 Pa, 200.000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	1.52621e-14 (1.00)	1.52621e-14 (1.00)		
Formation of rad19	1.52610e-14 (1.000)	1.52610e-14 (1.000)		
H-abstraction to cyc2enyl	1.06427e-18 (6.97e-05)	1.06427e-18 (6.97e-05)		
H-abstraction to cyclenyl	2.46309e-22 (1.61e-08)	2.46309e-22 (1.61e-08)		

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.719977	0.719977	0.719977	0.719977
Indene+H	0.278814	0.998790	0.278814	0.998790
rad15	0.00108184	0.999872	0.00108184	0.999872
Benzene+cycloprop-2-enylidene	6.97330e-05	0.999942	6.97330e-05	0.999942
PhCHCCH2+H	5.29646e-05	0.999995	5.29646e-05	0.999995
rad6	2.58403e-06	0.999997	2.58403e-06	0.999997
rad2	1.26379e-06	0.999999	1.26379e-06	0.999999
rad26	3.03550e-07	0.999999	3.03550e-07	0.999999
C2H2+PhCH2	2.67297e-07	0.999999	2.67297e-07	0.999999
PhCCH+CH3	2.19115e-07	1.000000	2.19115e-07	1.000000
PhCCCH3+H	1.57100e-07	1.000000	1.57100e-07	1.000000
rad10	1.49893e-07	1.000000	1.49893e-07	1.000000
rad67	1.24972e-07	1.000000	1.24972e-07	1.000000
rad23	1.18223e-07	1.000000	1.18223e-07	1.000000
Ph+MeAc	1.16500e-07	1.000000	1.16500e-07	1.000000
rad1	8.57377e-08	1.000000	8.57377e-08	1.000000
rad35	5.45909e-08	1.000000	5.45909e-08	1.000000
rad3	1.69081e-08	1.000000	1.69081e-08	1.000000
Benzene+cycloprop-1-enylidene	1.61386e-08	1.000000	1.61386e-08	1.000000
rad45	1.59152e-08	1.000000	1.59152e-08	1.000000
rad4	8.69803e-09	1.000000	8.69803e-09	1.000000
rad12	5.39511e-09	1.000000	5.39511e-09	1.000000
Ph+Allene	3.86067e-09	1.000000	3.86067e-09	1.000000
rad19anti	3.11227e-09	1.000000	3.11227e-09	1.000000
rad7	1.61099e-09	1.000000	1.61099e-09	1.000000
rad11	1.55141e-09	1.000000	1.55141e-09	1.000000
rad36	9.88513e-10	1.000000	9.88513e-10	1.000000
rad30	9.59946e-10	1.000000	9.59946e-10	1.000000
PhCH2CCH+H	7.91392e-10	1.000000	7.91392e-10	1.000000
rad22	7.01400e-10	1.000000	7.01400e-10	1.000000
rad28	3.80527e-10	1.000000	3.80527e-10	1.000000
rad37	1.38548e-10	1.000000	1.38548e-10	1.000000
rad5	3.70716e-11	1.000000	3.70716e-11	1.000000
PhcycC3H3_A+H	1.71706e-11	1.000000	1.71706e-11	1.000000
PAH9+H	9.41688e-12	1.000000	9.41688e-12	1.000000
rad13	6.67330e-12	1.000000	6.67330e-12	1.000000
rad60syn	4.89021e-12	1.000000	4.89021e-12	1.000000
PAH7+H	4.52178e-12	1.000000	4.52178e-12	1.000000
rad38	4.35844e-12	1.000000	4.35844e-12	1.000000
rad14	4.11411e-12	1.000000	4.11411e-12	1.000000
rad27	3.68619e-12	1.000000	3.68619e-12	1.000000
PAH3+H	2.51513e-12	1.000000	2.51513e-12	1.000000
rad60anti	2.42718e-12	1.000000	2.42718e-12	1.000000
rad18	6.69169e-13	1.000000	6.69169e-13	1.000000
rad59	4.99570e-13	1.000000	4.99570e-13	1.000000
rad39	4.45039e-13	1.000000	4.45039e-13	1.000000
PAH10+CH3	3.24611e-13	1.000000	3.24611e-13	1.000000

rad46	2.73094e-13	1.00000	2.73094e-13	1.00000
Phenyl+cycC3H4	1.83625e-13	1.00000	0.00000	1.00000
PhcycC3H3_B+H	8.72545e-14	1.00000	8.72545e-14	1.00000
rad20	4.23450e-14	1.00000	4.23450e-14	1.00000
rad43	3.51864e-14	1.00000	3.51864e-14	1.00000
rad21	2.72242e-14	1.00000	2.72242e-14	1.00000
rad25	2.37801e-14	1.00000	2.37801e-14	1.00000
rad33	8.06702e-15	1.00000	8.06702e-15	1.00000
rad62	5.82866e-15	1.00000	5.82866e-15	1.00000
rad50	2.39355e-15	1.00000	2.39355e-15	1.00000
rad70	4.66917e-16	1.00000	4.66917e-16	1.00000
rad54	4.22094e-16	1.00000	4.22094e-16	1.00000
rad24	2.03195e-16	1.00000	2.03195e-16	1.00000
rad58	9.33301e-17	1.00000	9.33301e-17	1.00000
PAH1+H	6.41972e-17	1.00000	6.41972e-17	1.00000
rad31	4.23641e-17	1.00000	4.23641e-17	1.00000
rad52	2.05867e-17	1.00000	2.05867e-17	1.00000
rad34	1.07532e-17	1.00000	1.07532e-17	1.00000
rad51	7.63569e-18	1.00000	7.63569e-18	1.00000
rad41	5.40243e-18	1.00000	5.40243e-18	1.00000
rad55	4.97511e-18	1.00000	4.97511e-18	1.00000
rad42	2.56489e-18	1.00000	2.56489e-18	1.00000
rad65	1.59746e-19	1.00000	1.59746e-19	1.00000
rad61	8.62012e-22	1.00000	8.62012e-22	1.00000
rad53	6.91417e-22	1.00000	6.91417e-22	1.00000
rad64	3.20452e-23	1.00000	3.20452e-23	1.00000
rad68syn	5.90350e-24	1.00000	5.90350e-24	1.00000
rad68anti	4.52528e-24	1.00000	4.52528e-24	1.00000
rad47	4.33635e-24	1.00000	4.33635e-24	1.00000
rad56	2.68291e-24	1.00000	2.68291e-24	1.00000
rad40syn	9.95731e-26	1.00000	9.95731e-26	1.00000
rad40anti	8.55728e-26	1.00000	8.55728e-26	1.00000
PAH8+H	8.49629e-27	1.00000	8.49629e-27	1.00000
rad73	1.31740e-27	1.00000	1.31740e-27	1.00000
rad71	5.29301e-30	1.00000	5.29301e-30	1.00000
rad19syn	2.51555e-31	1.00000	2.51555e-31	1.00000
rad8	1.54049e-47	1.00000	1.54049e-47	1.00000

1000.00000 Pa, 210.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.74272e-14 (1.00)	1.74272e-14 (1.00)
Formation of rad19	1.74253e-14 (1.000)	1.74253e-14 (1.000)
H-abstraction to cyc2enyl	1.89310e-18 (0.000109)	1.89310e-18 (0.000109)
H-abstraction to cyclenyl	6.66714e-22 (3.83e-08)	6.66714e-22 (3.83e-08)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.703043	0.703043	0.703043	0.703043
Indene+H	0.295735	0.998777	0.295735	0.998777
rad15	0.00104914	0.999827	0.00104914	0.999827
Benzene+cycloprop-2-enylidene	0.000108629	0.999935	0.000108629	0.999935
PhCHCCH2+H	5.93408e-05	0.999995	5.93408e-05	0.999995
rad6	2.91078e-06	0.999997	2.91078e-06	0.999997
rad2	1.35576e-06	0.999999	1.35576e-06	0.999999
rad26	3.37656e-07	0.999999	3.37656e-07	0.999999
C2H2+PhCH2	3.05447e-07	0.999999	3.05447e-07	0.999999
PhCCH+CH3	2.69110e-07	1.000000	2.69110e-07	1.000000
PhCCCH3+H	1.94035e-07	1.000000	1.94035e-07	1.000000
rad10	1.60773e-07	1.000000	1.60773e-07	1.000000
Ph+MeAc	1.46540e-07	1.000000	1.46540e-07	1.000000
rad67	1.42931e-07	1.000000	1.42931e-07	1.000000
rad23	1.24624e-07	1.000000	1.24624e-07	1.000000
rad1	9.27382e-08	1.000000	9.27382e-08	1.000000
rad35	6.22460e-08	1.000000	6.22460e-08	1.000000
Benzene+cycloprop-1-enylidene	3.82571e-08	1.000000	3.82571e-08	1.000000
rad3	1.80988e-08	1.000000	1.80988e-08	1.000000
rad45	1.65826e-08	1.000000	1.65826e-08	1.000000
rad4	9.33156e-09	1.000000	9.33156e-09	1.000000
rad12	5.27166e-09	1.000000	5.27166e-09	1.000000
Ph+Allene	4.64573e-09	1.000000	4.64573e-09	1.000000
rad19anti	3.02887e-09	1.000000	3.02887e-09	1.000000
rad7	1.79566e-09	1.000000	1.79566e-09	1.000000
rad11	1.57640e-09	1.000000	1.57640e-09	1.000000
rad30	1.09700e-09	1.000000	1.09700e-09	1.000000
rad36	1.03330e-09	1.000000	1.03330e-09	1.000000
PhCH2CCH+H	9.72213e-10	1.000000	9.72213e-10	1.000000
rad22	6.79304e-10	1.000000	6.79304e-10	1.000000
rad28	4.84205e-10	1.000000	4.84205e-10	1.000000

rad37	1.82999e-10	1.00000	1.82999e-10	1.00000
rad5	3.63781e-11	1.00000	3.63781e-11	1.00000
PhcycC3H3_A+H	2.27208e-11	1.00000	2.27208e-11	1.00000
PAH9+H	1.18430e-11	1.00000	1.18430e-11	1.00000
rad13	7.39877e-12	1.00000	7.39877e-12	1.00000
PAH7+H	6.08829e-12	1.00000	6.08829e-12	1.00000
rad60syn	5.76493e-12	1.00000	5.76493e-12	1.00000
rad38	5.53115e-12	1.00000	5.53115e-12	1.00000
rad14	4.36439e-12	1.00000	4.36439e-12	1.00000
rad27	3.90394e-12	1.00000	3.90394e-12	1.00000
PAH3+H	3.08459e-12	1.00000	3.08459e-12	1.00000
rad60anti	2.86931e-12	1.00000	2.86931e-12	1.00000
rad39	6.90481e-13	1.00000	6.90481e-13	1.00000
rad18	6.09647e-13	1.00000	6.09647e-13	1.00000
rad59	6.08781e-13	1.00000	6.08781e-13	1.00000
PAH10+CH3	4.86848e-13	1.00000	4.86848e-13	1.00000
rad46	3.48186e-13	1.00000	3.48186e-13	1.00000
Phenyl+cycC3H4	2.70226e-13	1.00000	0.00000	1.00000
PhcycC3H3_B+H	1.49007e-13	1.00000	1.49007e-13	1.00000
rad43	4.96214e-14	1.00000	4.96214e-14	1.00000
rad20	4.05865e-14	1.00000	4.05865e-14	1.00000
rad21	2.60827e-14	1.00000	2.60827e-14	1.00000
rad25	2.36884e-14	1.00000	2.36884e-14	1.00000
rad33	8.94930e-15	1.00000	8.94930e-15	1.00000
rad62	8.27366e-15	1.00000	8.27366e-15	1.00000
rad50	3.27187e-15	1.00000	3.27187e-15	1.00000
rad70	6.56377e-16	1.00000	6.56377e-16	1.00000
rad54	6.51834e-16	1.00000	6.51834e-16	1.00000
rad24	2.10849e-16	1.00000	2.10849e-16	1.00000
rad58	1.30704e-16	1.00000	1.30704e-16	1.00000
PAH1+H	1.10844e-16	1.00000	1.10844e-16	1.00000
rad31	4.83629e-17	1.00000	4.83629e-17	1.00000
rad52	2.95789e-17	1.00000	2.95789e-17	1.00000
rad34	1.62984e-17	1.00000	1.62984e-17	1.00000
rad51	1.15985e-17	1.00000	1.15985e-17	1.00000
rad41	9.27316e-18	1.00000	9.27316e-18	1.00000
rad55	8.20679e-18	1.00000	8.20679e-18	1.00000
rad42	4.29126e-18	1.00000	4.29126e-18	1.00000
rad65	2.51869e-19	1.00000	2.51869e-19	1.00000
rad61	2.49155e-21	1.00000	2.49155e-21	1.00000
rad53	1.60901e-21	1.00000	1.60901e-21	1.00000
rad64	9.28826e-23	1.00000	9.28826e-23	1.00000
rad68syn	1.75837e-23	1.00000	1.75837e-23	1.00000
rad68anti	1.33788e-23	1.00000	1.33788e-23	1.00000
rad56	8.84679e-24	1.00000	8.84679e-24	1.00000
rad47	5.08322e-24	1.00000	5.08322e-24	1.00000
rad40syn	4.06240e-25	1.00000	4.06240e-25	1.00000
rad40anti	3.50954e-25	1.00000	3.50954e-25	1.00000
PAH8+H	4.29411e-26	1.00000	4.29411e-26	1.00000
rad73	5.50333e-27	1.00000	5.50333e-27	1.00000
rad71	3.02160e-29	1.00000	3.02160e-29	1.00000
rad19syn	8.47842e-31	1.00000	8.47842e-31	1.00000
rad8	2.21015e-47	1.00000	2.21015e-47	1.00000

1000.00000 Pa, 220.000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	1.97009e-14 (1.00)	1.97009e-14 (1.00)		
Formation of rad19	1.96977e-14 (1.000)	1.96977e-14 (1.000)		
H-abstraction to cyc2enyl	3.19064e-18 (0.000162)	3.19064e-18 (0.000162)		
H-abstraction to cyclenyl	1.64627e-21 (8.36e-08)	1.64627e-21 (8.36e-08)		
species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.685553	0.685553	0.685553	0.685553
Indene+H	0.313195	0.998748	0.313195	0.998748
rad15	0.00101641	0.999765	0.00101641	0.999765
Benzene+cycloprop-2-enylidene	0.000161954	0.999926	0.000161954	0.999926
PhCHCCH2+H	6.65648e-05	0.999993	6.65648e-05	0.999993
rad6	3.28235e-06	0.999996	3.28235e-06	0.999996
rad2	1.44914e-06	0.999998	1.44914e-06	0.999998
rad26	3.75293e-07	0.999998	3.75293e-07	0.999998
C2H2+PhCH2	3.49840e-07	0.999999	3.49840e-07	0.999999
PhCCH+CH3	3.29781e-07	0.999999	3.29781e-07	0.999999
PhCCCH3+H	2.39401e-07	0.999999	2.39401e-07	0.999999
Ph+MeAc	1.84236e-07	0.999999	1.84236e-07	0.999999
rad10	1.71787e-07	0.999999	1.71787e-07	0.999999
rad67	1.63814e-07	1.000000	1.63814e-07	1.000000
rad23	1.31004e-07	1.000000	1.31004e-07	1.000000

rad1	1.00017e-07	1.000000	1.00017e-07	1.000000
Benzene+cycloprop-1-enylidene	8.35632e-08	1.000000	8.35632e-08	1.000000
rad35	7.11142e-08	1.000000	7.11142e-08	1.000000
rad3	1.93042e-08	1.000000	1.93042e-08	1.000000
rad45	1.72438e-08	1.000000	1.72438e-08	1.000000
rad4	9.97749e-09	1.000000	9.97749e-09	1.000000
Ph+Allene	5.61827e-09	1.000000	5.61827e-09	1.000000
rad12	5.15088e-09	1.000000	5.15088e-09	1.000000
rad19anti	2.95309e-09	1.000000	2.95309e-09	1.000000
rad7	2.00484e-09	1.000000	2.00484e-09	1.000000
rad11	1.62047e-09	1.000000	1.62047e-09	1.000000
rad30	1.25645e-09	1.000000	1.25645e-09	1.000000
PhCH2CCH+H	1.20109e-09	1.000000	1.20109e-09	1.000000
rad36	1.07847e-09	1.000000	1.07847e-09	1.000000
rad22	6.61504e-10	1.000000	6.61504e-10	1.000000
rad28	6.17228e-10	1.000000	6.17228e-10	1.000000
rad37	2.42645e-10	1.000000	2.42645e-10	1.000000
rad5	3.55718e-11	1.000000	3.55718e-11	1.000000
PhcycC3H3_A+H	3.01764e-11	1.000000	3.01764e-11	1.000000
PAH9+H	1.49245e-11	1.000000	1.49245e-11	1.000000
PAH7+H	8.35336e-12	1.000000	8.35336e-12	1.000000
rad13	8.22016e-12	1.000000	8.22016e-12	1.000000
rad38	7.05498e-12	1.000000	7.05498e-12	1.000000
rad60syn	6.82228e-12	1.000000	6.82228e-12	1.000000
rad14	4.61627e-12	1.000000	4.61627e-12	1.000000
rad27	4.12329e-12	1.000000	4.12329e-12	1.000000
PAH3+H	3.80463e-12	1.000000	3.80463e-12	1.000000
rad60anti	3.40549e-12	1.000000	3.40549e-12	1.000000
rad39	1.07851e-12	1.000000	1.07851e-12	1.000000
rad59	7.45845e-13	1.000000	7.45845e-13	1.000000
PAH10+CH3	7.34978e-13	1.000000	7.34978e-13	1.000000
rad18	5.60659e-13	1.000000	5.60659e-13	1.000000
rad46	4.45678e-13	1.000000	4.45678e-13	1.000000
Phenyl+cycC3H4	3.96955e-13	1.000000	0.000000	1.000000
PhcycC3H3_B+H	2.49797e-13	1.000000	2.49797e-13	1.000000
rad43	7.00765e-14	1.000000	7.00765e-14	1.000000
rad20	3.94444e-14	1.000000	3.94444e-14	1.000000
rad21	2.53392e-14	1.000000	2.53392e-14	1.000000
rad25	2.38808e-14	1.000000	2.38808e-14	1.000000
rad62	1.17383e-14	1.000000	1.17383e-14	1.000000
rad33	9.95072e-15	1.000000	9.95072e-15	1.000000
rad50	4.50332e-15	1.000000	4.50332e-15	1.000000
rad54	1.01668e-15	1.000000	1.01668e-15	1.000000
rad70	9.30274e-16	1.000000	9.30274e-16	1.000000
rad24	2.18626e-16	1.000000	2.18626e-16	1.000000
PAH1+H	1.91736e-16	1.000000	1.91736e-16	1.000000
rad58	1.84478e-16	1.000000	1.84478e-16	1.000000
rad31	5.53323e-17	1.000000	5.53323e-17	1.000000
rad52	4.28441e-17	1.000000	4.28441e-17	1.000000
rad34	2.48672e-17	1.000000	2.48672e-17	1.000000
rad51	1.77693e-17	1.000000	1.77693e-17	1.000000
rad41	1.58178e-17	1.000000	1.58178e-17	1.000000
rad55	1.36602e-17	1.000000	1.36602e-17	1.000000
rad42	7.12911e-18	1.000000	7.12911e-18	1.000000
rad65	3.99631e-19	1.000000	3.99631e-19	1.000000
rad61	6.83388e-21	1.000000	6.83388e-21	1.000000
rad53	3.68442e-21	1.000000	3.68442e-21	1.000000
rad64	2.60735e-22	1.000000	2.60735e-22	1.000000
rad68syn	4.92000e-23	1.000000	4.92000e-23	1.000000
rad68anti	3.71654e-23	1.000000	3.71654e-23	1.000000
rad56	2.75388e-23	1.000000	2.75388e-23	1.000000
rad47	6.00488e-24	1.000000	6.00488e-24	1.000000
rad40syn	1.49661e-24	1.000000	1.49661e-24	1.000000
rad40anti	1.29851e-24	1.000000	1.29851e-24	1.000000
PAH8+H	1.90857e-25	1.000000	1.90857e-25	1.000000
rad73	2.09474e-26	1.000000	2.09474e-26	1.000000
rad71	1.49792e-28	1.000000	1.49792e-28	1.000000
rad19syn	3.00269e-30	1.000000	3.00269e-30	1.000000
rad8	3.23747e-47	1.000000	3.23747e-47	1.000000

1000.00000 Pa, 230.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.20761e-14 (1.00)	2.20761e-14 (1.00)
Formation of rad19	2.20710e-14 (1.000)	2.20710e-14 (1.000)
H-abstraction to cyc2enyl	5.13155e-18 (0.000232)	5.13155e-18 (0.000232)
H-abstraction to cyclenyl	3.75316e-21 (1.70e-07)	3.75316e-21 (1.70e-07)
species	PYtrue	Cumul
	PYeffective	Cumul

rad9	0.667485	0.667485	0.667485	0.667485
Indene+H	0.331217	0.998702	0.331217	0.998702
rad15	0.000983546	0.999685	0.000983546	0.999685
Benzene+cycloprop-2-enylidene	0.000232448	0.999918	0.000232448	0.999918
PhCCH2+H	7.47681e-05	0.999992	7.47681e-05	0.999992
rad6	3.70546e-06	0.999996	3.70546e-06	0.999996
rad2	1.54298e-06	0.999998	1.54298e-06	0.999998
rad26	4.16689e-07	0.999998	4.16689e-07	0.999998
PhCCH+CH3	4.03154e-07	0.999998	4.03154e-07	0.999998
C2H2+PhCH2	4.01659e-07	0.999999	4.01659e-07	0.999999
PhCCCH3+H	2.94982e-07	0.999999	2.94982e-07	0.999999
Ph+MeAc	2.31428e-07	0.999999	2.31428e-07	0.999999
rad67	1.88158e-07	1.000000	1.88158e-07	1.000000
rad10	1.82833e-07	1.000000	1.82833e-07	1.000000
Benzene+cycloprop-1-enylidene	1.70010e-07	1.000000	1.70010e-07	1.000000
rad23	1.37310e-07	1.000000	1.37310e-07	1.000000
rad1	1.07532e-07	1.000000	1.07532e-07	1.000000
rad35	8.14133e-08	1.000000	8.14133e-08	1.000000
rad3	2.05117e-08	1.000000	2.05117e-08	1.000000
rad45	1.78935e-08	1.000000	1.78935e-08	1.000000
rad4	1.06301e-08	1.000000	1.06301e-08	1.000000
Ph+Allene	6.82913e-09	1.000000	6.82913e-09	1.000000
rad12	5.03195e-09	1.000000	5.03195e-09	1.000000
rad19anti	2.88440e-09	1.000000	2.88440e-09	1.000000
rad7	2.24206e-09	1.000000	2.24206e-09	1.000000
rad11	1.68416e-09	1.000000	1.68416e-09	1.000000
PhCH2CCH+H	1.49216e-09	1.000000	1.49216e-09	1.000000
rad30	1.44246e-09	1.000000	1.44246e-09	1.000000
rad36	1.12379e-09	1.000000	1.12379e-09	1.000000
rad28	7.88034e-10	1.000000	7.88034e-10	1.000000
rad22	6.47355e-10	1.000000	6.47355e-10	1.000000
rad37	3.22792e-10	1.000000	3.22792e-10	1.000000
PhcycC3H3_A+H	4.01926e-11	1.000000	4.01926e-11	1.000000
rad5	3.46635e-11	1.000000	3.46635e-11	1.000000
PAH9+H	1.88473e-11	1.000000	1.88473e-11	1.000000
PAH7+H	1.16780e-11	1.000000	1.16780e-11	1.000000
rad13	9.15136e-12	1.000000	9.15136e-12	1.000000
rad38	9.04527e-12	1.000000	9.04527e-12	1.000000
rad60syn	8.10495e-12	1.000000	8.10495e-12	1.000000
rad14	4.86707e-12	1.000000	4.86707e-12	1.000000
PAH3+H	4.71904e-12	1.000000	4.71904e-12	1.000000
rad27	4.34184e-12	1.000000	4.34184e-12	1.000000
rad60anti	4.05808e-12	1.000000	4.05808e-12	1.000000
rad39	1.69398e-12	1.000000	1.69398e-12	1.000000
PAH10+CH3	1.11491e-12	1.000000	1.11491e-12	1.000000
rad59	9.18581e-13	1.000000	9.18581e-13	1.000000
Phenyl+cycC3H4	5.81828e-13	1.000000	0.000000	1.000000
rad46	5.72676e-13	1.000000	5.72676e-13	1.000000
rad18	5.20513e-13	1.000000	5.20513e-13	1.000000
PhcycC3H3_B+H	4.11904e-13	1.000000	4.11904e-13	1.000000
rad43	9.89873e-14	1.000000	9.89873e-14	1.000000
rad20	3.88457e-14	1.000000	3.88457e-14	1.000000
rad21	2.49459e-14	1.000000	2.49459e-14	1.000000
rad25	2.43539e-14	1.000000	2.43539e-14	1.000000
rad62	1.66280e-14	1.000000	1.66280e-14	1.000000
rad33	1.10889e-14	1.000000	1.10889e-14	1.000000
rad50	6.23770e-15	1.000000	6.23770e-15	1.000000
rad54	1.59950e-15	1.000000	1.59950e-15	1.000000
rad70	1.32803e-15	1.000000	1.32803e-15	1.000000
PAH1+H	3.31423e-16	1.000000	3.31423e-16	1.000000
rad58	2.62130e-16	1.000000	2.62130e-16	1.000000
rad24	2.26476e-16	1.000000	2.26476e-16	1.000000
rad31	6.34661e-17	1.000000	6.34661e-17	1.000000
rad52	6.25021e-17	1.000000	6.25021e-17	1.000000
rad34	3.81410e-17	1.000000	3.81410e-17	1.000000
rad51	2.74165e-17	1.000000	2.74165e-17	1.000000
rad41	2.67717e-17	1.000000	2.67717e-17	1.000000
rad55	2.29008e-17	1.000000	2.29008e-17	1.000000
rad42	1.17450e-17	1.000000	1.17450e-17	1.000000
rad65	6.37087e-19	1.000000	6.37087e-19	1.000000
rad61	1.78585e-20	1.000000	1.78585e-20	1.000000
rad53	8.29834e-21	1.000000	8.29834e-21	1.000000
rad64	7.08093e-22	1.000000	7.08093e-22	1.000000
rad68syn	1.30271e-22	1.000000	1.30271e-22	1.000000
rad68anti	9.77341e-23	1.000000	9.77341e-23	1.000000
rad56	8.12631e-23	1.000000	8.12631e-23	1.000000
rad47	7.15525e-24	1.000000	7.15525e-24	1.000000
rad40syn	5.03240e-24	1.000000	5.03240e-24	1.000000
rad40anti	4.38162e-24	1.000000	4.38162e-24	1.000000

PAH8+H	7.55556e-25	1.00000	7.55556e-25	1.00000
rad73	7.32059e-26	1.00000	7.32059e-26	1.00000
rad71	6.53399e-28	1.00000	6.53399e-28	1.00000
rad19syn	1.11579e-29	1.00000	1.11579e-29	1.00000
rad8	4.83723e-47	1.00000	4.83723e-47	1.00000

1000.00000 Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.45462e-14 (1.00)	2.45462e-14 (1.00)
Formation of rad19	2.45383e-14 (1.000)	2.45383e-14 (1.000)
H-abstraction to cyc2enyl	7.92234e-18 (0.000323)	7.92234e-18 (0.000323)
H-abstraction to cyclenyl	7.97958e-21 (3.25e-07)	7.97958e-21 (3.25e-07)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.648820	0.648820	0.648820	0.648820
Indene+H	0.349813	0.998633	0.349813	0.998633
rad15	0.000950490	0.999584	0.000950490	0.999584
Benzene+cycloprop-2-enylidene	0.000322752	0.999907	0.000322752	0.999907
PhCHCCH2+H	8.40986e-05	0.999991	8.40986e-05	0.999991
rad6	4.18765e-06	0.999995	4.18765e-06	0.999995
rad2	1.63619e-06	0.999996	1.63619e-06	0.999996
PhCCH+CH3	4.91523e-07	0.999997	4.91523e-07	0.999997
C2H2+PhCH2	4.62294e-07	0.999997	4.62294e-07	0.999997
rad26	4.62006e-07	0.999998	4.62006e-07	0.999998
PhCCCH3+H	3.62856e-07	0.999998	3.62856e-07	0.999998
Benzene+cycloprop-1-enylidene	3.25084e-07	0.999999	3.25084e-07	0.999999
Ph+MeAc	2.90324e-07	0.999999	2.90324e-07	0.999999
rad67	2.16588e-07	0.999999	2.16588e-07	0.999999
rad10	1.93787e-07	0.999999	1.93787e-07	0.999999
rad23	1.43487e-07	0.999999	1.43487e-07	0.999999
rad1	1.15232e-07	0.999999	1.15232e-07	0.999999
rad35	9.33961e-08	1.000000	9.33961e-08	1.000000
rad3	2.17073e-08	1.000000	2.17073e-08	1.000000
rad45	1.85256e-08	1.000000	1.85256e-08	1.000000
rad4	1.12827e-08	1.000000	1.12827e-08	1.000000
Ph+Allene	8.34339e-09	1.000000	8.34339e-09	1.000000
rad12	4.91421e-09	1.000000	4.91421e-09	1.000000
rad19anti	2.82237e-09	1.000000	2.82237e-09	1.000000
rad7	2.51130e-09	1.000000	2.51130e-09	1.000000
PhCH2CCH+H	1.86389e-09	1.000000	1.86389e-09	1.000000
rad11	1.76844e-09	1.000000	1.76844e-09	1.000000
rad30	1.65996e-09	1.000000	1.65996e-09	1.000000
rad36	1.16896e-09	1.000000	1.16896e-09	1.000000
rad28	1.00728e-09	1.000000	1.00728e-09	1.000000
rad22	6.36322e-10	1.000000	6.36322e-10	1.000000
rad37	4.30484e-10	1.000000	4.30484e-10	1.000000
PhcycC3H3_A+H	5.36418e-11	1.000000	5.36418e-11	1.000000
rad5	3.36644e-11	1.000000	3.36644e-11	1.000000
PAH9+H	2.38494e-11	1.000000	2.38494e-11	1.000000
PAH7+H	1.66189e-11	1.000000	1.66189e-11	1.000000
rad38	1.16559e-11	1.000000	1.16559e-11	1.000000
rad13	1.02077e-11	1.000000	1.02077e-11	1.000000
rad60syn	9.66548e-12	1.000000	9.66548e-12	1.000000
PAH3+H	5.88439e-12	1.000000	5.88439e-12	1.000000
rad14	5.11367e-12	1.000000	5.11367e-12	1.000000
rad60anti	4.85469e-12	1.000000	4.85469e-12	1.000000
rad27	4.55683e-12	1.000000	4.55683e-12	1.000000
rad39	2.67144e-12	1.000000	2.67144e-12	1.000000
PAH10+CH3	1.69608e-12	1.000000	1.69608e-12	1.000000
rad59	1.13700e-12	1.000000	1.13700e-12	1.000000
Phenyl+cycC3H4	8.50544e-13	1.000000	0.000000	1.000000
rad46	7.38527e-13	1.000000	7.38527e-13	1.000000
PhcycC3H3_B+H	6.69117e-13	1.000000	6.69117e-13	1.000000
rad18	4.87917e-13	1.000000	4.87917e-13	1.000000
rad43	1.39694e-13	1.000000	1.39694e-13	1.000000
rad20	3.87399e-14	1.000000	3.87399e-14	1.000000
rad25	2.51113e-14	1.000000	2.51113e-14	1.000000
rad21	2.48700e-14	1.000000	2.48700e-14	1.000000
rad62	2.34933e-14	1.000000	2.34933e-14	1.000000
rad33	1.23835e-14	1.000000	1.23835e-14	1.000000
rad50	8.68862e-15	1.000000	8.68862e-15	1.000000
rad54	2.53434e-15	1.000000	2.53434e-15	1.000000
rad70	1.90756e-15	1.000000	1.90756e-15	1.000000
PAH1+H	5.71092e-16	1.000000	5.71092e-16	1.000000
rad58	3.74516e-16	1.000000	3.74516e-16	1.000000
rad24	2.34342e-16	1.000000	2.34342e-16	1.000000
rad52	9.17242e-17	1.000000	9.17242e-17	1.000000

rad31	7.30055e-17	1.000000	7.30055e-17	1.000000
rad34	5.87268e-17	1.000000	5.87268e-17	1.000000
rad41	4.48997e-17	1.000000	4.48997e-17	1.000000
rad51	4.25320e-17	1.000000	4.25320e-17	1.000000
rad55	3.85897e-17	1.000000	3.85897e-17	1.000000
rad42	1.91673e-17	1.000000	1.91673e-17	1.000000
rad65	1.01872e-18	1.000000	1.01872e-18	1.000000
rad61	4.45899e-20	1.000000	4.45899e-20	1.000000
rad53	1.83648e-20	1.000000	1.83648e-20	1.000000
rad64	1.85728e-21	1.000000	1.85728e-21	1.000000
rad68syn	3.28146e-22	1.000000	3.28146e-22	1.000000
rad68anti	2.44627e-22	1.000000	2.44627e-22	1.000000
rad56	2.27856e-22	1.000000	2.27856e-22	1.000000
rad40syn	1.55761e-23	1.000000	1.55761e-23	1.000000
rad40anti	1.36003e-23	1.000000	1.36003e-23	1.000000
rad47	8.60875e-24	1.000000	8.60875e-24	1.000000
PAH8+H	2.69250e-24	1.000000	2.69250e-24	1.000000
rad73	2.36258e-25	1.000000	2.36258e-25	1.000000
rad71	2.53686e-27	1.000000	2.53686e-27	1.000000
rad19syn	4.34185e-29	1.000000	4.34185e-29	1.000000
rad8	7.36642e-47	1.000000	7.36642e-47	1.000000

1000.00000 Pa, 250.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.71048e-14 (1.00)	2.71048e-14 (1.00)
Formation of rad19	2.70930e-14 (1.000)	2.70930e-14 (1.000)
H-abstraction to cyc2enyl	1.17991e-17 (0.000435)	1.17991e-17 (0.000435)
H-abstraction to cyclenyl	1.59554e-20 (5.89e-07)	1.59554e-20 (5.89e-07)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.629553	0.629553	0.629553	0.629553
Indene+H	0.368989	0.998543	0.368989	0.998543
rad15	0.000917178	0.999460	0.000917178	0.999460
Benzene+cycloprop-2-enylidene	0.000435312	0.999895	0.000435312	0.999895
PhCHCCH2+H	9.47228e-05	0.999990	9.47228e-05	0.999990
rad6	4.73721e-06	0.999994	4.73721e-06	0.999994
rad2	1.72753e-06	0.999996	1.72753e-06	0.999996
PhCCH+CH3	5.97452e-07	0.999997	5.97452e-07	0.999997
Benzene+cycloprop-1-enylidene	5.88656e-07	0.999997	5.88656e-07	0.999997
C2H2+PhCH2	5.33382e-07	0.999998	5.33382e-07	0.999998
rad26	5.11319e-07	0.999998	5.11319e-07	0.999998
PhCCCH3+H	4.45415e-07	0.999999	4.45415e-07	0.999999
Ph+MeAc	3.63543e-07	0.999999	3.63543e-07	0.999999
rad67	2.49832e-07	1.000000	2.49832e-07	1.000000
rad10	2.04512e-07	1.000000	2.04512e-07	1.000000
rad23	1.49467e-07	1.000000	1.49467e-07	1.000000
rad1	1.23053e-07	1.000000	1.23053e-07	1.000000
rad35	1.07355e-07	1.000000	1.07355e-07	1.000000
rad3	2.28748e-08	1.000000	2.28748e-08	1.000000
rad45	1.91333e-08	1.000000	1.91333e-08	1.000000
rad4	1.19273e-08	1.000000	1.19273e-08	1.000000
Ph+Allene	1.02444e-08	1.000000	1.02444e-08	1.000000
rad12	4.79711e-09	1.000000	4.79711e-09	1.000000
rad7	2.81690e-09	1.000000	2.81690e-09	1.000000
rad19anti	2.76673e-09	1.000000	2.76673e-09	1.000000
PhCH2CCH+H	2.34022e-09	1.000000	2.34022e-09	1.000000
rad30	1.91469e-09	1.000000	1.91469e-09	1.000000
rad11	1.87463e-09	1.000000	1.87463e-09	1.000000
rad28	1.28828e-09	1.000000	1.28828e-09	1.000000
rad36	1.21366e-09	1.000000	1.21366e-09	1.000000
rad22	6.27958e-10	1.000000	6.27958e-10	1.000000
rad37	5.74981e-10	1.000000	5.74981e-10	1.000000
PhcycC3H3_A+H	7.16793e-11	1.000000	7.16793e-11	1.000000
rad5	3.25852e-11	1.000000	3.25852e-11	1.000000
PAH9+H	3.02333e-11	1.000000	3.02333e-11	1.000000
PAH7+H	2.40324e-11	1.000000	2.40324e-11	1.000000
rad38	1.50915e-11	1.000000	1.50915e-11	1.000000
rad60syn	1.15683e-11	1.000000	1.15683e-11	1.000000
rad13	1.14061e-11	1.000000	1.14061e-11	1.000000
PAH3+H	7.37361e-12	1.000000	7.37361e-12	1.000000
rad60anti	5.82934e-12	1.000000	5.82934e-12	1.000000
rad14	5.35263e-12	1.000000	5.35263e-12	1.000000
rad27	4.76519e-12	1.000000	4.76519e-12	1.000000
rad39	4.22245e-12	1.000000	4.22245e-12	1.000000
PAH10+CH3	2.58239e-12	1.000000	2.58239e-12	1.000000
rad59	1.41390e-12	1.000000	1.41390e-12	1.000000
Phenyl+cycC3H4	1.23952e-12	1.000000	0.000000	1.000000

PhcycC3H3_B+H	1.07203e-12	1.00000	1.07203e-12	1.00000
rad46	9.55487e-13	1.00000	9.55487e-13	1.00000
rad18	4.61884e-13	1.00000	4.61884e-13	1.00000
rad43	1.96730e-13	1.00000	1.96730e-13	1.00000
rad20	3.90941e-14	1.00000	3.90941e-14	1.00000
rad62	3.30743e-14	1.00000	3.30743e-14	1.00000
rad25	2.61619e-14	1.00000	2.61619e-14	1.00000
rad21	2.50896e-14	1.00000	2.50896e-14	1.00000
rad33	1.38561e-14	1.00000	1.38561e-14	1.00000
rad50	1.21595e-14	1.00000	1.21595e-14	1.00000
rad54	4.03708e-15	1.00000	4.03708e-15	1.00000
rad70	2.75370e-15	1.00000	2.75370e-15	1.00000
PAH1+H	9.78824e-16	1.00000	9.78824e-16	1.00000
rad58	5.37335e-16	1.00000	5.37335e-16	1.00000
rad24	2.42162e-16	1.00000	2.42162e-16	1.00000
rad52	1.35233e-16	1.00000	1.35233e-16	1.00000
rad34	9.06440e-17	1.00000	9.06440e-17	1.00000
rad31	8.42539e-17	1.00000	8.42539e-17	1.00000
rad41	7.45386e-17	1.00000	7.45386e-17	1.00000
rad51	6.62251e-17	1.00000	6.62251e-17	1.00000
rad55	6.52192e-17	1.00000	6.52192e-17	1.00000
rad42	3.09579e-17	1.00000	3.09579e-17	1.00000
rad65	1.63105e-18	1.00000	1.63105e-18	1.00000
rad61	1.06577e-19	1.00000	1.06577e-19	1.00000
rad53	3.98716e-20	1.00000	3.98716e-20	1.00000
rad64	4.69537e-21	1.00000	4.69537e-21	1.00000
rad68syn	7.89265e-22	1.00000	7.89265e-22	1.00000
rad56	6.07763e-22	1.00000	6.07763e-22	1.00000
rad68anti	5.84987e-22	1.00000	5.84987e-22	1.00000
rad40syn	4.46780e-23	1.00000	4.46780e-23	1.00000
rad40anti	3.90998e-23	1.00000	3.90998e-23	1.00000
rad47	1.04696e-23	1.00000	1.04696e-23	1.00000
PAH8+H	8.71603e-24	1.00000	8.71603e-24	1.00000
rad73	7.07381e-25	1.00000	7.07381e-25	1.00000
rad71	8.85680e-27	1.00000	8.85680e-27	1.00000
rad19syn	1.76489e-28	1.00000	1.76489e-28	1.00000
rad8	1.14266e-46	1.00000	1.14266e-46	1.00000

1000.00000 Pa, 260.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.97464e-14 (1.00)	2.97464e-14 (1.00)
Formation of rad19	2.97293e-14 (0.999)	2.97293e-14 (0.999)
H-abstraction to cyc2enyl	1.70236e-17 (0.000572)	1.70236e-17 (0.000572)
H-abstraction to cyclenyl	3.02186e-20 (1.02e-06)	3.02186e-20 (1.02e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.609689	0.609689	0.609689	0.609689
Indene+H	0.388736	0.998425	0.388736	0.998425
rad15	0.000883578	0.999309	0.000883578	0.999309
Benzene+cycloprop-2-enylidene	0.000572291	0.999881	0.000572291	0.999881
PhCHCCH2+H	0.000106827	0.999988	0.000106827	0.999988
rad6	5.36330e-06	0.999993	5.36330e-06	0.999993
rad2	1.81566e-06	0.999995	1.81566e-06	0.999995
Benzene+cycloprop-1-enylidene	1.01588e-06	0.999996	1.01588e-06	0.999996
PhCCH+CH3	7.23771e-07	0.999997	7.23771e-07	0.999997
C2H2+PhCH2	6.16841e-07	0.999997	6.16841e-07	0.999997
rad26	5.64595e-07	0.999998	5.64595e-07	0.999998
PhCCCH3+H	5.45389e-07	0.999999	5.45389e-07	0.999999
Ph+MeAc	4.54165e-07	0.999999	4.54165e-07	0.999999
rad67	2.88732e-07	0.999999	2.88732e-07	0.999999
rad10	2.14856e-07	1.000000	2.14856e-07	1.000000
rad23	1.55182e-07	1.000000	1.55182e-07	1.000000
rad1	1.30925e-07	1.000000	1.30925e-07	1.000000
rad35	1.23628e-07	1.000000	1.23628e-07	1.000000
rad3	2.39974e-08	1.000000	2.39974e-08	1.000000
rad45	1.97094e-08	1.000000	1.97094e-08	1.000000
Ph+Allene	1.26392e-08	1.000000	1.26392e-08	1.000000
rad4	1.25558e-08	1.000000	1.25558e-08	1.000000
rad12	4.68022e-09	1.000000	4.68022e-09	1.000000
rad7	3.16357e-09	1.000000	3.16357e-09	1.000000
PhCH2CCH+H	2.95226e-09	1.000000	2.95226e-09	1.000000
rad19anti	2.71730e-09	1.000000	2.71730e-09	1.000000
rad30	2.21333e-09	1.000000	2.21333e-09	1.000000
rad11	2.00437e-09	1.000000	2.00437e-09	1.000000
rad28	1.64745e-09	1.000000	1.64745e-09	1.000000
rad36	1.25753e-09	1.000000	1.25753e-09	1.000000
rad37	7.68327e-10	1.000000	7.68327e-10	1.000000

rad22	6.21883e-10	1.00000	6.21883e-10	1.00000
PhcycC3H3_A+H	9.58291e-11	1.00000	9.58291e-11	1.00000
PAH9+H	3.83828e-11	1.00000	3.83828e-11	1.00000
PAH7+H	3.52267e-11	1.00000	3.52267e-11	1.00000
rad5	3.14369e-11	1.00000	3.14369e-11	1.00000
rad38	1.96228e-11	1.00000	1.96228e-11	1.00000
rad60syn	1.38920e-11	1.00000	1.38920e-11	1.00000
rad13	1.27649e-11	1.00000	1.27649e-11	1.00000
PAH3+H	9.28042e-12	1.00000	9.28042e-12	1.00000
rad60anti	7.02368e-12	1.00000	7.02368e-12	1.00000
rad39	6.67605e-12	1.00000	6.67605e-12	1.00000
rad14	5.58033e-12	1.00000	5.58033e-12	1.00000
rad27	4.96371e-12	1.00000	4.96371e-12	1.00000
PAH10+CH3	3.92735e-12	1.00000	3.92735e-12	1.00000
Phenyl+cycC3H4	1.79997e-12	1.00000	0.00000	1.00000
rad59	1.76556e-12	1.00000	1.76556e-12	1.00000
PhcycC3H3_B+H	1.69545e-12	1.00000	1.69545e-12	1.00000
rad46	1.23955e-12	1.00000	1.23955e-12	1.00000
rad18	4.41655e-13	1.00000	4.41655e-13	1.00000
rad43	2.76191e-13	1.00000	2.76191e-13	1.00000
rad62	4.63542e-14	1.00000	4.63542e-14	1.00000
rad20	3.98881e-14	1.00000	3.98881e-14	1.00000
rad25	2.75198e-14	1.00000	2.75198e-14	1.00000
rad21	2.55918e-14	1.00000	2.55918e-14	1.00000
rad50	1.70794e-14	1.00000	1.70794e-14	1.00000
rad33	1.55307e-14	1.00000	1.55307e-14	1.00000
rad54	6.45273e-15	1.00000	6.45273e-15	1.00000
rad70	3.99012e-15	1.00000	3.99012e-15	1.00000
PAH1+H	1.66522e-15	1.00000	1.66522e-15	1.00000
rad58	7.73133e-16	1.00000	7.73133e-16	1.00000
rad24	2.49872e-16	1.00000	2.49872e-16	1.00000
rad52	2.00017e-16	1.00000	2.00017e-16	1.00000
rad34	1.40045e-16	1.00000	1.40045e-16	1.00000
rad41	1.22375e-16	1.00000	1.22375e-16	1.00000
rad55	1.10294e-16	1.00000	1.10294e-16	1.00000
rad51	1.03311e-16	1.00000	1.03311e-16	1.00000
rad31	9.75972e-17	1.00000	9.75972e-17	1.00000
rad42	4.94506e-17	1.00000	4.94506e-17	1.00000
rad65	2.61009e-18	1.00000	2.61009e-18	1.00000
rad61	2.44142e-19	1.00000	2.44142e-19	1.00000
rad53	8.47462e-20	1.00000	8.47462e-20	1.00000
rad64	1.14174e-20	1.00000	1.14174e-20	1.00000
rad68syn	1.81700e-21	1.00000	1.81700e-21	1.00000
rad56	1.54276e-21	1.00000	1.54276e-21	1.00000
rad68anti	1.33976e-21	1.00000	1.33976e-21	1.00000
rad40syn	1.19424e-22	1.00000	1.19424e-22	1.00000
rad40anti	1.04705e-22	1.00000	1.04705e-22	1.00000
PAH8+H	2.58346e-23	1.00000	2.58346e-23	1.00000
rad47	1.28861e-23	1.00000	1.28861e-23	1.00000
rad73	1.97274e-24	1.00000	1.97274e-24	1.00000
rad71	2.80611e-26	1.00000	2.80611e-26	1.00000
rad19syn	7.47167e-28	1.00000	7.47167e-28	1.00000
rad8	1.80462e-46	1.00000	1.80462e-46	1.00000

1000.00000 Pa, 270.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.24655e-14 (1.00)	3.24655e-14 (1.00)
Formation of rad19	3.24415e-14 (0.999)	3.24415e-14 (0.999)
H-abstraction to cyc2enyl	2.38790e-17 (0.000736)	2.38790e-17 (0.000736)
H-abstraction to cyclenyl	5.45397e-20 (1.68e-06)	5.45397e-20 (1.68e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.589244	0.589244	0.589244	0.589244
Indene+H	0.409035	0.998280	0.409035	0.998280
rad15	0.000849679	0.999129	0.000849679	0.999129
Benzene+cycloprop-2-enylidene	0.000735519	0.999865	0.000735519	0.999865
PhCHCCH2+H	0.000120616	0.999985	0.000120616	0.999985
rad6	6.07582e-06	0.999991	6.07582e-06	0.999991
rad2	1.89920e-06	0.999993	1.89920e-06	0.999993
Benzene+cycloprop-1-enylidene	1.67993e-06	0.999995	1.67993e-06	0.999995
PhCCH+CH3	8.73566e-07	0.999996	8.73566e-07	0.999996
C2H2+PhCH2	7.14911e-07	0.999997	7.14911e-07	0.999997
PhCCCH3+H	6.65859e-07	0.999997	6.65859e-07	0.999997
rad26	6.21662e-07	0.999998	6.21662e-07	0.999998
Ph+MeAc	5.65776e-07	0.999998	5.65776e-07	0.999998
rad67	3.34255e-07	0.999999	3.34255e-07	0.999999
rad10	2.24666e-07	0.999999	2.24666e-07	0.999999

rad23	1.60563e-07	0.999999	1.60563e-07	0.999999
rad35	1.42600e-07	0.999999	1.42600e-07	0.999999
rad1	1.38766e-07	0.999999	1.38766e-07	0.999999
rad3	2.50575e-08	0.999999	2.50575e-08	0.999999
rad45	2.02475e-08	0.999999	2.02475e-08	0.999999
Ph+Allene	1.56644e-08	0.999999	1.56644e-08	0.999999
rad4	1.31593e-08	1.000000	1.31593e-08	1.000000
rad12	4.56320e-09	1.000000	4.56320e-09	1.000000
PhCH2CCH+H	3.74026e-09	1.000000	3.74026e-09	1.000000
rad7	3.55640e-09	1.000000	3.55640e-09	1.000000
rad19anti	2.67394e-09	1.000000	2.67394e-09	1.000000
rad30	2.56365e-09	1.000000	2.56365e-09	1.000000
rad11	2.15956e-09	1.000000	2.15956e-09	1.000000
rad28	2.10477e-09	1.000000	2.10477e-09	1.000000
rad36	1.30020e-09	1.000000	1.30020e-09	1.000000
rad37	1.02598e-09	1.000000	1.02598e-09	1.000000
rad22	6.17785e-10	1.000000	6.17785e-10	1.000000
PhcycC3H3_A+H	1.28087e-10	1.000000	1.28087e-10	1.000000
PAH7+H	5.21802e-11	1.000000	5.21802e-11	1.000000
PAH9+H	4.87814e-11	1.000000	4.87814e-11	1.000000
rad5	3.02300e-11	1.000000	3.02300e-11	1.000000
rad38	2.56058e-11	1.000000	2.56058e-11	1.000000
rad60syn	1.67325e-11	1.000000	1.67325e-11	1.000000
rad13	1.43038e-11	1.000000	1.43038e-11	1.000000
PAH3+H	1.17246e-11	1.000000	1.17246e-11	1.000000
rad39	1.05369e-11	1.000000	1.05369e-11	1.000000
rad60anti	8.48861e-12	1.000000	8.48861e-12	1.000000
PAH10+CH3	5.95441e-12	1.000000	5.95441e-12	1.000000
rad14	5.79313e-12	1.000000	5.79313e-12	1.000000
rad27	5.14915e-12	1.000000	5.14915e-12	1.000000
PhcycC3H3_B+H	2.64826e-12	1.000000	2.64826e-12	1.000000
Phenyl+cycC3H4	2.60320e-12	1.000000	0.00000	1.000000
rad59	2.21261e-12	1.000000	2.21261e-12	1.000000
rad46	1.61149e-12	1.000000	1.61149e-12	1.000000
rad18	4.26654e-13	1.000000	4.26654e-13	1.000000
rad43	3.86172e-13	1.000000	3.86172e-13	1.000000
rad62	6.46243e-14	1.000000	6.46243e-14	1.000000
rad20	4.11129e-14	1.000000	4.11129e-14	1.000000
rad25	2.92033e-14	1.000000	2.92033e-14	1.000000
rad21	2.63703e-14	1.000000	2.63703e-14	1.000000
rad50	2.40506e-14	1.000000	2.40506e-14	1.000000
rad33	1.74332e-14	1.000000	1.74332e-14	1.000000
rad54	1.03268e-14	1.000000	1.03268e-14	1.000000
rad70	5.79579e-15	1.000000	5.79579e-15	1.000000
PAH1+H	2.80646e-15	1.000000	2.80646e-15	1.000000
rad58	1.11402e-15	1.000000	1.11402e-15	1.000000
rad52	2.96329e-16	1.000000	2.96329e-16	1.000000
rad24	2.57410e-16	1.000000	2.57410e-16	1.000000
rad34	2.16247e-16	1.000000	2.16247e-16	1.000000
rad41	1.98530e-16	1.000000	1.98530e-16	1.000000
rad55	1.86171e-16	1.000000	1.86171e-16	1.000000
rad51	1.61158e-16	1.000000	1.61158e-16	1.000000
rad31	1.13532e-16	1.000000	1.13532e-16	1.000000
rad42	7.80721e-17	1.000000	7.80721e-17	1.000000
rad65	4.16692e-18	1.000000	4.16692e-18	1.000000
rad61	5.36438e-19	1.000000	5.36438e-19	1.000000
rad53	1.75921e-19	1.000000	1.75921e-19	1.000000
rad64	2.66552e-20	1.000000	2.66552e-20	1.000000
rad68syn	4.00972e-21	1.000000	4.00972e-21	1.000000
rad56	3.72776e-21	1.000000	3.72776e-21	1.000000
rad68anti	2.94309e-21	1.000000	2.94309e-21	1.000000
rad40syn	2.98882e-22	1.000000	2.98882e-22	1.000000
rad40anti	2.62428e-22	1.000000	2.62428e-22	1.000000
PAH8+H	7.06120e-23	1.000000	7.06120e-23	1.000000
rad47	1.60724e-23	1.000000	1.60724e-23	1.000000
rad73	5.14316e-24	1.000000	5.14316e-24	1.000000
rad71	8.13550e-26	1.000000	8.13550e-26	1.000000
rad19syn	3.28282e-27	1.000000	3.28282e-27	1.000000
rad8	2.90096e-46	1.000000	2.90096e-46	1.000000

1000.00000 Pa, 280.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.52572e-14 (1.00)	3.52572e-14 (1.00)
Formation of rad19	3.52244e-14 (0.999)	3.52244e-14 (0.999)
H-abstraction to cyc2enyl	3.26639e-17 (0.000926)	3.26639e-17 (0.000926)
H-abstraction to cyclenyl	9.42926e-20 (2.67e-06)	9.42926e-20 (2.67e-06)
species	PYtrue	Cumul
	PYeffective	Cumul

rad9	0.568248	0.568248	0.568248	0.568248
Indene+H	0.429857	0.998105	0.429857	0.998105
Benzene+cycloprop-2-enylidene	0.000926445	0.999031	0.000926445	0.999031
rad15	0.000815493	0.999847	0.000815493	0.999847
PhCHCCH2+H	0.000136318	0.999983	0.000136318	0.999983
rad6	6.88543e-06	0.999990	6.88543e-06	0.999990
Benzene+cycloprop-1-enylidene	2.67442e-06	0.999993	2.67442e-06	0.999993
rad2	1.97679e-06	0.999995	1.97679e-06	0.999995
PhCCH+CH3	1.05016e-06	0.999996	1.05016e-06	0.999996
C2H2+PhCH2	8.30193e-07	0.999996	8.30193e-07	0.999996
PhCCCH3+H	8.10264e-07	0.999997	8.10264e-07	0.999997
Ph+MeAc	7.02502e-07	0.999998	7.02502e-07	0.999998
rad26	6.82197e-07	0.999999	6.82197e-07	0.999999
rad67	3.87509e-07	0.999999	3.87509e-07	0.999999
rad10	2.33788e-07	0.999999	2.33788e-07	0.999999
rad23	1.65543e-07	0.999999	1.65543e-07	0.999999
rad35	1.64710e-07	1.000000	1.64710e-07	1.000000
rad1	1.46494e-07	1.000000	1.46494e-07	1.000000
rad3	2.60379e-08	1.000000	2.60379e-08	1.000000
rad45	2.07412e-08	1.000000	2.07412e-08	1.000000
Ph+Allene	1.94945e-08	1.000000	1.94945e-08	1.000000
rad4	1.37291e-08	1.000000	1.37291e-08	1.000000
PhCH2CCH+H	4.75607e-09	1.000000	4.75607e-09	1.000000
rad12	4.44588e-09	1.000000	4.44588e-09	1.000000
rad7	4.00083e-09	1.000000	4.00083e-09	1.000000
rad30	2.97456e-09	1.000000	2.97456e-09	1.000000
rad28	2.68413e-09	1.000000	2.68413e-09	1.000000
rad19anti	2.63651e-09	1.000000	2.63651e-09	1.000000
rad11	2.34236e-09	1.000000	2.34236e-09	1.000000
rad37	1.36756e-09	1.000000	1.36756e-09	1.000000
rad36	1.34134e-09	1.000000	1.34134e-09	1.000000
rad22	6.15408e-10	1.000000	6.15408e-10	1.000000
PhcycC3H3_A+H	1.71042e-10	1.000000	1.71042e-10	1.000000
PAH7+H	7.78442e-11	1.000000	7.78442e-11	1.000000
PAH9+H	6.20346e-11	1.000000	6.20346e-11	1.000000
rad38	3.35046e-11	1.000000	3.35046e-11	1.000000
rad5	2.89753e-11	1.000000	2.89753e-11	1.000000
rad60syn	2.02053e-11	1.000000	2.02053e-11	1.000000
rad39	1.65662e-11	1.000000	1.65662e-11	1.000000
rad13	1.60443e-11	1.000000	1.60443e-11	1.000000
PAH3+H	1.48583e-11	1.000000	1.48583e-11	1.000000
rad60anti	1.02859e-11	1.000000	1.02859e-11	1.000000
PAH10+CH3	8.98340e-12	1.000000	8.98340e-12	1.000000
rad14	5.98745e-12	1.000000	5.98745e-12	1.000000
rad27	5.31833e-12	1.000000	5.31833e-12	1.000000
PhcycC3H3_B+H	4.08649e-12	1.000000	4.08649e-12	1.000000
Phenyl+cycC3H4	3.74741e-12	1.000000	0.000000	1.000000
rad59	2.78101e-12	1.000000	2.78101e-12	1.000000
rad46	2.09810e-12	1.000000	2.09810e-12	1.000000
rad43	5.37297e-13	1.000000	5.37297e-13	1.000000
rad18	4.16444e-13	1.000000	4.16444e-13	1.000000
rad62	8.95591e-14	1.000000	8.95591e-14	1.000000
rad20	4.27675e-14	1.000000	4.27675e-14	1.000000
rad50	3.39107e-14	1.000000	3.39107e-14	1.000000
rad25	3.12339e-14	1.000000	3.12339e-14	1.000000
rad21	2.74248e-14	1.000000	2.74248e-14	1.000000
rad33	1.95919e-14	1.000000	1.95919e-14	1.000000
rad54	1.65087e-14	1.000000	1.65087e-14	1.000000
rad70	8.42715e-15	1.000000	8.42715e-15	1.000000
PAH1+H	4.67687e-15	1.000000	4.67687e-15	1.000000
rad58	1.60520e-15	1.000000	1.60520e-15	1.000000
rad52	4.39034e-16	1.000000	4.39034e-16	1.000000
rad34	3.33174e-16	1.000000	3.33174e-16	1.000000
rad41	3.18013e-16	1.000000	3.18013e-16	1.000000
rad55	3.12817e-16	1.000000	3.12817e-16	1.000000
rad24	2.64724e-16	1.000000	2.64724e-16	1.000000
rad51	2.50888e-16	1.000000	2.50888e-16	1.000000
rad31	1.32704e-16	1.000000	1.32704e-16	1.000000
rad42	1.21760e-16	1.000000	1.21760e-16	1.000000
rad65	6.62376e-18	1.000000	6.62376e-18	1.000000
rad61	1.13123e-18	1.000000	1.13123e-18	1.000000
rad53	3.55802e-19	1.000000	3.55802e-19	1.000000
rad64	5.96712e-20	1.000000	5.96712e-20	1.000000
rad56	8.57734e-21	1.000000	8.57734e-21	1.000000
rad68syn	8.49039e-21	1.000000	8.49039e-21	1.000000
rad68anti	6.20713e-21	1.000000	6.20713e-21	1.000000
rad40syn	7.03276e-22	1.000000	7.03276e-22	1.000000
rad40anti	6.18231e-22	1.000000	6.18231e-22	1.000000
PAH8+H	1.79110e-22	1.000000	1.79110e-22	1.000000

rad47	2.03430e-23	1.000000	2.03430e-23	1.000000
rad73	1.25800e-23	1.000000	1.25800e-23	1.000000
rad71	2.17457e-25	1.000000	2.17457e-25	1.000000
rad19syn	1.49092e-26	1.000000	1.49092e-26	1.000000
rad8	4.74620e-46	1.000000	4.74620e-46	1.000000

1000.00000 Pa, 290.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.81171e-14 (1.00)	3.81171e-14 (1.00)
Formation of rad19	3.80733e-14 (0.999)	3.80733e-14 (0.999)
H-abstraction to cyc2enyl	4.36868e-17 (0.00115)	4.36868e-17 (0.00115)
H-abstraction to cyclenyl	1.56861e-19 (4.12e-06)	1.56861e-19 (4.12e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.546740	0.546740	0.546740	0.546740
Indene+H	0.451157	0.997898	0.451157	0.997898
Benzene+cycloprop-2-enylidene	0.00114612	0.999044	0.00114612	0.999044
rad15	0.000781052	0.999825	0.000781052	0.999825
PhCHCCH2+H	0.000154182	0.999979	0.000154182	0.999979
rad6	7.80349e-06	0.999987	7.80349e-06	0.999987
Benzene+cycloprop-1-enylidene	4.11523e-06	0.999991	4.11523e-06	0.999991
rad2	2.04713e-06	0.999993	2.04713e-06	0.999993
PhCCH+CH3	1.25709e-06	0.999994	1.25709e-06	0.999994
PhCCCH3+H	9.82404e-07	0.999995	9.82404e-07	0.999995
C2H2+PhCH2	9.65697e-07	0.999996	9.65697e-07	0.999996
Ph+MeAc	8.69047e-07	0.999997	8.69047e-07	0.999997
rad26	7.45704e-07	0.999998	7.45704e-07	0.999998
rad67	4.49743e-07	0.999998	4.49743e-07	0.999998
rad10	2.42073e-07	0.999999	2.42073e-07	0.999999
rad35	1.90453e-07	0.999999	1.90453e-07	0.999999
rad23	1.70062e-07	0.999999	1.70062e-07	0.999999
rad1	1.54022e-07	0.999999	1.54022e-07	0.999999
rad3	2.69224e-08	0.999999	2.69224e-08	0.999999
Ph+Allene	2.43508e-08	0.999999	2.43508e-08	0.999999
rad45	2.11858e-08	0.999999	2.11858e-08	0.999999
rad4	1.42568e-08	0.999999	1.42568e-08	0.999999
PhCH2CCH+H	6.06598e-09	0.999999	6.06598e-09	0.999999
rad7	4.50258e-09	0.999999	4.50258e-09	0.999999
rad12	4.32812e-09	0.999999	4.32812e-09	0.999999
rad30	3.45630e-09	0.999999	3.45630e-09	0.999999
rad28	3.41366e-09	0.999999	3.41366e-09	0.999999
rad19anti	2.60476e-09	0.999999	2.60476e-09	0.999999
rad11	2.55512e-09	0.999999	2.55512e-09	0.999999
rad37	1.81748e-09	0.999999	1.81748e-09	0.999999
rad36	1.38069e-09	0.999999	1.38069e-09	0.999999
rad22	6.14548e-10	0.999999	6.14548e-10	0.999999
PhcycC3H3_A+H	2.28027e-10	0.999999	2.28027e-10	0.999999
PAH7+H	1.16546e-10	0.999999	1.16546e-10	0.999999
PAH9+H	7.88951e-11	0.999999	7.88951e-11	0.999999
rad38	4.39175e-11	0.999999	4.39175e-11	0.999999
rad5	2.76830e-11	0.999999	2.76830e-11	0.999999
rad39	2.58895e-11	0.999999	2.58895e-11	0.999999
rad60syn	2.44496e-11	0.999999	2.44496e-11	0.999999
PAH3+H	1.88731e-11	0.999999	1.88731e-11	0.999999
rad13	1.80086e-11	0.999999	1.80086e-11	0.999999
PAH10+CH3	1.34631e-11	0.999999	1.34631e-11	0.999999
rad60anti	1.24900e-11	0.999999	1.24900e-11	0.999999
PhcycC3H3_B+H	6.22932e-12	0.999999	6.22932e-12	0.999999
rad14	6.16003e-12	0.999999	6.16003e-12	0.999999
rad27	5.46832e-12	0.999999	5.46832e-12	0.999999
Phenyl+cycC3H4	5.36584e-12	0.999999	0.000000	0.999999
rad59	3.50321e-12	0.999999	3.50321e-12	0.999999
rad46	2.73362e-12	0.999999	2.73362e-12	0.999999
rad43	7.43316e-13	0.999999	7.43316e-13	0.999999
rad18	4.10694e-13	0.999999	4.10694e-13	0.999999
rad62	1.23300e-13	0.999999	1.23300e-13	0.999999
rad50	4.78111e-14	0.999999	4.78111e-14	0.999999
rad20	4.48580e-14	0.999999	4.48580e-14	0.999999
rad25	3.36363e-14	0.999999	3.36363e-14	0.999999
rad21	2.87588e-14	0.999999	2.87588e-14	0.999999
rad54	2.62974e-14	0.999999	2.62974e-14	0.999999
rad33	2.20370e-14	0.999999	2.20370e-14	0.999999
rad70	1.22466e-14	0.999999	1.22466e-14	0.999999
PAH1+H	7.69298e-15	0.999999	7.69298e-15	0.999999
rad58	2.30941e-15	0.999999	2.30941e-15	0.999999
rad52	6.49361e-16	0.999999	6.49361e-16	0.999999
rad55	5.21767e-16	0.999999	5.21767e-16	0.999999

rad34	5.11271e-16	0.999999	5.11271e-16	0.999999
rad41	5.02603e-16	0.999999	5.02603e-16	0.999999
rad51	3.88971e-16	0.999999	3.88971e-16	0.999999
rad24	2.71772e-16	0.999999	2.71772e-16	0.999999
rad42	1.87485e-16	0.999999	1.87485e-16	0.999999
rad31	1.55959e-16	0.999999	1.55959e-16	0.999999
rad65	1.04629e-17	0.999999	1.04629e-17	0.999999
rad61	2.29079e-18	0.999999	2.29079e-18	0.999999
rad53	6.99582e-19	0.999999	6.99582e-19	0.999999
rad64	1.28008e-19	0.999999	1.28008e-19	0.999999
rad56	1.88071e-20	0.999999	1.88071e-20	0.999999
rad68syn	1.72634e-20	0.999999	1.72634e-20	0.999999
rad68anti	1.25776e-20	0.999999	1.25776e-20	0.999999
rad40syn	1.56178e-21	0.999999	1.56178e-21	0.999999
rad40anti	1.37423e-21	0.999999	1.37423e-21	0.999999
PAH8+H	4.24086e-22	0.999999	4.24086e-22	0.999999
rad73	2.89699e-23	0.999999	2.89699e-23	0.999999
rad47	2.61672e-23	0.999999	2.61672e-23	0.999999
rad71	5.39540e-25	0.999999	5.39540e-25	0.999999
rad19syn	6.96753e-26	0.999999	6.96753e-26	0.999999
rad8	7.90457e-46	0.999999	7.90457e-46	0.999999

1000.00000 Pa, 300.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.34809e-14 (1.00)	5.34809e-14 (1.00)
Formation of rad19	5.34010e-14 (0.999)	5.34010e-14 (0.999)
H-abstraction to cyc2enyl	7.95823e-17 (0.00149)	7.95823e-17 (0.00149)
H-abstraction to cyclenyl	3.44981e-19 (6.45e-06)	3.44981e-19 (6.45e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.547206	0.547206	0.547206	0.547206
rad9	0.450394	0.997600	0.450394	0.997600
Benzene+cycloprop-2-enylidene	0.00148805	0.999088	0.00148805	0.999088
rad15	0.000648000	0.999736	0.000648000	0.999736
PhCHCCH2+H	0.000231090	0.999967	0.000231090	0.999967
rad6	1.27721e-05	0.999980	1.27721e-05	0.999980
Benzene+cycloprop-1-enylidene	6.45054e-06	0.999986	6.45054e-06	0.999986
PhCCH+CH3	2.51310e-06	0.999989	2.51310e-06	0.999989
rad2	2.01503e-06	0.999991	2.01503e-06	0.999991
PhCCCH3+H	1.98079e-06	0.999993	1.98079e-06	0.999993
Ph+MeAc	1.88127e-06	0.999995	1.88127e-06	0.999995
C2H2+PhCH2	1.82541e-06	0.999996	1.82541e-06	0.999996
rad26	9.53800e-07	0.999997	9.53800e-07	0.999997
rad67	7.89521e-07	0.999998	7.89521e-07	0.999998
rad35	3.25101e-07	0.999999	3.25101e-07	0.999999
rad10	2.22458e-07	0.999999	2.22458e-07	0.999999
rad23	1.64547e-07	0.999999	1.64547e-07	0.999999
rad1	1.51897e-07	0.999999	1.51897e-07	0.999999
Ph+Allene	4.97739e-08	0.999999	4.97739e-08	0.999999
rad3	2.68975e-08	0.999999	2.68975e-08	0.999999
rad45	2.27614e-08	0.999999	2.27614e-08	0.999999
PhCH2CCH+H	1.66267e-08	0.999999	1.66267e-08	0.999999
rad4	1.33829e-08	0.999999	1.33829e-08	0.999999
rad28	9.30919e-09	0.999999	9.30919e-09	0.999999
rad7	7.08686e-09	0.999999	7.08686e-09	0.999999
rad37	6.24456e-09	0.999999	6.24456e-09	0.999999
rad30	5.83965e-09	0.999999	5.83965e-09	0.999999
rad12	5.63417e-09	0.999999	5.63417e-09	0.999999
rad11	3.46093e-09	0.999999	3.46093e-09	0.999999
rad19anti	2.38622e-09	0.999999	2.38622e-09	0.999999
PAH7+H	9.44373e-10	0.999999	9.44373e-10	0.999999
rad36	7.75879e-10	0.999999	7.75879e-10	0.999999
rad22	6.71522e-10	0.999999	6.71522e-10	0.999999
PhcycC3H3_A+H	3.24163e-10	0.999999	3.24163e-10	0.999999
PAH9+H	2.32913e-10	0.999999	2.32913e-10	0.999999
rad39	2.15699e-10	0.999999	2.15699e-10	0.999999
rad38	1.36389e-10	0.999999	1.36389e-10	0.999999
PAH10+CH3	8.06934e-11	0.999999	8.06934e-11	0.999999
PAH3+H	5.00798e-11	0.999999	5.00798e-11	0.999999
rad60syn	4.81913e-11	0.999999	4.81913e-11	0.999999
rad13	2.78918e-11	0.999999	2.78918e-11	0.999999
rad5	2.72862e-11	0.999999	2.72862e-11	0.999999
rad60anti	2.50711e-11	0.999999	2.50711e-11	0.999999
PhcycC3H3_B+H	1.07164e-11	0.999999	1.07164e-11	0.999999
rad59	8.33647e-12	0.999999	8.33647e-12	0.999999
rad46	8.24913e-12	0.999999	8.24913e-12	0.999999
Phenyl+cycC3H4	8.20988e-12	0.999999	0.00000	0.999999

rad14	5.73519e-12	0.999999	5.73519e-12	0.999999
rad27	5.34926e-12	0.999999	5.34926e-12	0.999999
rad43	2.52745e-12	0.999999	2.52745e-12	0.999999
rad18	5.97594e-13	0.999999	5.97594e-13	0.999999
rad62	4.12327e-13	0.999999	4.12327e-13	0.999999
rad54	2.63244e-13	0.999999	2.63244e-13	0.999999
rad50	2.10612e-13	0.999999	2.10612e-13	0.999999
rad20	6.95354e-14	0.999999	6.95354e-14	0.999999
rad70	5.41891e-14	0.999999	5.41891e-14	0.999999
rad25	4.93408e-14	0.999999	4.93408e-14	0.999999
rad21	4.70654e-14	0.999999	4.70654e-14	0.999999
PAH1+H	4.04756e-14	0.999999	4.04756e-14	0.999999
rad33	3.96694e-14	0.999999	3.96694e-14	0.999999
rad58	8.29178e-15	0.999999	8.29178e-15	0.999999
rad55	6.18387e-15	0.999999	6.18387e-15	0.999999
rad52	3.70166e-15	0.999999	3.70166e-15	0.999999
rad41	2.86203e-15	0.999999	2.86203e-15	0.999999
rad34	2.84361e-15	0.999999	2.84361e-15	0.999999
rad51	2.63605e-15	0.999999	2.63605e-15	0.999999
rad42	9.57871e-16	0.999999	9.57871e-16	0.999999
rad31	4.58808e-16	0.999999	4.58808e-16	0.999999
rad24	3.58437e-16	0.999999	3.58437e-16	0.999999
rad65	7.72011e-17	0.999999	7.72011e-17	0.999999
rad61	4.57199e-17	0.999999	4.57199e-17	0.999999
rad53	2.15303e-17	0.999999	2.15303e-17	0.999999
rad64	7.64898e-18	0.999999	7.64898e-18	0.999999
rad56	1.40493e-18	0.999999	1.40493e-18	0.999999
rad68syn	3.66905e-19	0.999999	3.66905e-19	0.999999
rad68anti	2.60122e-19	0.999999	2.60122e-19	0.999999
rad40syn	4.76084e-20	0.999999	4.76084e-20	0.999999
rad40anti	3.98710e-20	0.999999	3.98710e-20	0.999999
PAH8+H	2.71586e-20	0.999999	2.71586e-20	0.999999
rad19syn	1.12445e-20	0.999999	1.12445e-20	0.999999
rad73	2.70837e-21	0.999999	2.70837e-21	0.999999
rad47	2.12499e-22	0.999999	2.12499e-22	0.999999
rad71	1.94711e-22	0.999999	1.94711e-22	0.999999
rad72	8.44688e-28	0.999999	8.44688e-28	0.999999
rad8	5.13118e-36	0.999999	5.13118e-36	0.999999

1000.00000 Pa, 310.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.92544e-14 (1.00)	5.92544e-14 (1.00)
Formation of rad19	5.91462e-14 (0.998)	5.91462e-14 (0.998)
H-abstraction to cyc2enyl	1.07628e-16 (0.00182)	1.07628e-16 (0.00182)
H-abstraction to cyc1enyl	5.62537e-19 (9.49e-06)	5.62537e-19 (9.49e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.502359	0.502359	0.502359	0.502359
Indene+H	0.494886	0.997245	0.494886	0.997245
Benzene+cycloprop-2-enylidene	0.00181637	0.999061	0.00181637	0.999061
rad15	0.000711536	0.999773	0.000711536	0.999773
PhCHCCH2+H	0.000197464	0.999970	0.000197464	0.999970
rad6	1.00114e-05	0.999980	1.00114e-05	0.999980
Benzene+cycloprop-1-enylidene	9.49359e-06	0.999990	9.49359e-06	0.999990
rad2	2.16115e-06	0.999992	2.16115e-06	0.999992
PhCCH+CH3	1.77670e-06	0.999994	1.77670e-06	0.999994
PhCCCH3+H	1.42656e-06	0.999995	1.42656e-06	0.999995
Ph+MeAc	1.31316e-06	0.999996	1.31316e-06	0.999996
C2H2+PhCH2	1.31143e-06	0.999998	1.31143e-06	0.999998
rad26	8.78667e-07	0.999999	8.78667e-07	0.999999
rad67	6.06848e-07	0.999999	6.06848e-07	0.999999
rad10	2.55584e-07	0.999999	2.55584e-07	0.999999
rad35	2.55074e-07	1.000000	2.55074e-07	1.000000
rad23	1.77512e-07	1.000000	1.77512e-07	1.000000
rad1	1.68125e-07	1.000000	1.68125e-07	1.000000
Ph+Allene	3.83204e-08	1.000000	3.83204e-08	1.000000
rad3	2.83445e-08	1.000000	2.83445e-08	1.000000
rad45	2.19119e-08	1.000000	2.19119e-08	1.000000
rad4	1.51536e-08	1.000000	1.51536e-08	1.000000
PhCH2CCH+H	9.92384e-09	1.000000	9.92384e-09	1.000000
rad7	5.70105e-09	1.000000	5.70105e-09	1.000000
rad28	5.45592e-09	1.000000	5.45592e-09	1.000000
rad30	4.67926e-09	1.000000	4.67926e-09	1.000000
rad12	4.09080e-09	1.000000	4.09080e-09	1.000000
rad37	3.16800e-09	1.000000	3.16800e-09	1.000000
rad11	3.08021e-09	1.000000	3.08021e-09	1.000000
rad19anti	2.55566e-09	1.000000	2.55566e-09	1.000000

rad36	1.45301e-09	1.00000	1.45301e-09	1.00000
rad22	6.16759e-10	1.00000	6.16759e-10	1.00000
PhcycC3H3_A+H	4.01962e-10	1.00000	4.01962e-10	1.00000
PAH7+H	2.60371e-10	1.00000	2.60371e-10	1.00000
PAH9+H	1.27320e-10	1.00000	1.27320e-10	1.00000
rad38	7.55112e-11	1.00000	7.55112e-11	1.00000
rad39	6.15820e-11	1.00000	6.15820e-11	1.00000
rad60syn	3.59371e-11	1.00000	3.59371e-11	1.00000
PAH3+H	3.05508e-11	1.00000	3.05508e-11	1.00000
PAH10+CH3	2.94445e-11	1.00000	2.94445e-11	1.00000
rad5	2.50227e-11	1.00000	2.50227e-11	1.00000
rad13	2.26996e-11	1.00000	2.26996e-11	1.00000
rad60anti	1.84869e-11	1.00000	1.84869e-11	1.00000
PhcycC3H3_B+H	1.39341e-11	1.00000	1.39341e-11	1.00000
Phenyl+cycC3H4	1.07882e-11	1.00000	0.00000	1.00000
rad14	6.42799e-12	1.00000	6.42799e-12	1.00000
rad27	5.70000e-12	1.00000	5.70000e-12	1.00000
rad59	5.57695e-12	1.00000	5.57695e-12	1.00000
rad46	4.63469e-12	1.00000	4.63469e-12	1.00000
rad43	1.39426e-12	1.00000	1.39426e-12	1.00000
rad18	4.11608e-13	1.00000	4.11608e-13	1.00000
rad62	2.28589e-13	1.00000	2.28589e-13	1.00000
rad50	9.44618e-14	1.00000	9.44618e-14	1.00000
rad54	6.53255e-14	1.00000	6.53255e-14	1.00000
rad20	5.03903e-14	1.00000	5.03903e-14	1.00000
rad25	3.96597e-14	1.00000	3.96597e-14	1.00000
rad21	3.22941e-14	1.00000	3.22941e-14	1.00000
rad33	2.79120e-14	1.00000	2.79120e-14	1.00000
rad70	2.56422e-14	1.00000	2.56422e-14	1.00000
PAH1+H	1.98843e-14	1.00000	1.98843e-14	1.00000
rad58	4.72704e-15	1.00000	4.72704e-15	1.00000
rad55	1.40413e-15	1.00000	1.40413e-15	1.00000
rad52	1.40281e-15	1.00000	1.40281e-15	1.00000
rad41	1.20178e-15	1.00000	1.20178e-15	1.00000
rad34	1.18019e-15	1.00000	1.18019e-15	1.00000
rad51	9.15403e-16	1.00000	9.15403e-16	1.00000
rad42	4.26791e-16	1.00000	4.26791e-16	1.00000
rad24	2.84971e-16	1.00000	2.84971e-16	1.00000
rad31	2.19553e-16	1.00000	2.19553e-16	1.00000
rad65	2.54025e-17	1.00000	2.54025e-17	1.00000
rad61	8.34308e-18	1.00000	8.34308e-18	1.00000
rad53	2.46857e-18	1.00000	2.46857e-18	1.00000
rad64	5.18589e-19	1.00000	5.18589e-19	1.00000
rad56	7.86096e-20	1.00000	7.86096e-20	1.00000
rad68syn	6.33855e-20	1.00000	6.33855e-20	1.00000
rad68anti	4.59301e-20	1.00000	4.59301e-20	1.00000
rad40syn	6.56476e-21	1.00000	6.56476e-21	1.00000
rad40anti	5.78448e-21	1.00000	5.78448e-21	1.00000
PAH8+H	1.97398e-21	1.00000	1.97398e-21	1.00000
rad73	1.29972e-22	1.00000	1.29972e-22	1.00000
rad47	4.57054e-23	1.00000	4.57054e-23	1.00000
rad71	2.72049e-24	1.00000	2.72049e-24	1.00000
rad19syn	1.62439e-24	1.00000	1.62439e-24	1.00000
rad8	2.31975e-45	1.00000	2.31975e-45	1.00000

1000.00000 Pa, 400.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.29463e-13 (1.00)	1.29463e-13 (1.00)
Formation of rad19	1.28526e-13 (0.993)	1.28526e-13 (0.993)
H-abstraction to cyc2enyl	9.19357e-16 (0.00710)	9.19357e-16 (0.00710)
H-abstraction to cyclenyl	1.69485e-17 (0.000131)	1.69485e-17 (0.000131)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.748260	0.748260	0.748260	0.748260
rad9	0.243384	0.991644	0.243384	0.991644
Benzene+cycloprop-2-enylidene	0.00710133	0.998745	0.00710133	0.998745
PhCHCCH2+H	0.000703864	0.999449	0.000703864	0.999449
rad15	0.000340126	0.999789	0.000340126	0.999789
Benzene+cycloprop-1-enylidene	0.000130914	0.999920	0.000130914	0.999920
rad6	3.61469e-05	0.999956	3.61469e-05	0.999956
Ph+MeAc	9.30794e-06	0.999966	9.30794e-06	0.999966
PhCCH+CH3	9.18721e-06	0.999975	9.18721e-06	0.999975
PhCCCH3+H	8.28813e-06	0.999983	8.28813e-06	0.999983
C2H2+PhCH2	7.83588e-06	0.999991	7.83588e-06	0.999991
rad67	3.08271e-06	0.999994	3.08271e-06	0.999994
rad2	1.84524e-06	0.999996	1.84524e-06	0.999996
rad26	1.29755e-06	0.999997	1.29755e-06	0.999997

rad35	1.22523e-06	0.999998	1.22523e-06	0.999998
Ph+Allene	5.45005e-07	0.999999	5.45005e-07	0.999999
rad10	2.03554e-07	0.999999	2.03554e-07	0.999999
rad23	1.96440e-07	0.999999	1.96440e-07	0.999999
PhCH2CCH+H	1.83690e-07	1.000000	1.83690e-07	1.000000
rad1	1.71778e-07	1.000000	1.71778e-07	1.000000
rad37	5.20053e-08	1.000000	5.20053e-08	1.000000
rad28	4.92380e-08	1.000000	4.92380e-08	1.000000
rad45	3.09182e-08	1.000000	3.09182e-08	1.000000
rad3	2.50426e-08	1.000000	2.50426e-08	1.000000
rad30	2.36658e-08	1.000000	2.36658e-08	1.000000
PAH7+H	2.34117e-08	1.000000	2.34117e-08	1.000000
rad7	1.91670e-08	1.000000	1.91670e-08	1.000000
rad4	1.31938e-08	1.000000	1.31938e-08	1.000000
rad11	8.63189e-09	1.000000	8.63189e-09	1.000000
rad39	5.48811e-09	1.000000	5.48811e-09	1.000000
PhcycC3H3_A+H	4.92600e-09	1.000000	4.92600e-09	1.000000
rad12	4.81490e-09	1.000000	4.81490e-09	1.000000
rad19anti	4.74287e-09	1.000000	4.74287e-09	1.000000
PAH9+H	2.01996e-09	1.000000	2.01996e-09	1.000000
PAH10+CH3	1.52245e-09	1.000000	1.52245e-09	1.000000
rad38	1.47020e-09	1.000000	1.47020e-09	1.000000
rad36	1.18469e-09	1.000000	1.18469e-09	1.000000
rad22	8.20757e-10	1.000000	8.20757e-10	1.000000
PAH3+H	4.52087e-10	1.000000	4.52087e-10	1.000000
PhcycC3H3_B+H	4.24753e-10	1.000000	4.24753e-10	1.000000
rad60syn	2.87565e-10	1.000000	2.87565e-10	1.000000
Phenyl+cycC3H4	2.22331e-10	1.000000	0.00000	1.000000
rad60anti	1.54283e-10	1.000000	1.54283e-10	1.000000
rad46	9.21728e-11	1.000000	9.21728e-11	1.000000
rad13	7.74647e-11	1.000000	7.74647e-11	1.000000
rad59	7.05043e-11	1.000000	7.05043e-11	1.000000
rad43	2.96017e-11	1.000000	2.96017e-11	1.000000
rad5	1.41349e-11	1.000000	1.41349e-11	1.000000
rad54	1.13510e-11	1.000000	1.13510e-11	1.000000
rad14	5.22731e-12	1.000000	5.22731e-12	1.000000
rad27	4.88292e-12	1.000000	4.88292e-12	1.000000
rad50	4.60890e-12	1.000000	4.60890e-12	1.000000
rad62	4.52770e-12	1.000000	4.52770e-12	1.000000
PAH1+H	1.80250e-12	1.000000	1.80250e-12	1.000000
rad70	1.55361e-12	1.000000	1.55361e-12	1.000000
rad18	8.36398e-13	1.000000	8.36398e-13	1.000000
rad55	3.40551e-13	1.000000	3.40551e-13	1.000000
rad58	1.81510e-13	1.000000	1.81510e-13	1.000000
rad20	1.63683e-13	1.000000	1.63683e-13	1.000000
rad33	1.23249e-13	1.000000	1.23249e-13	1.000000
rad25	1.21483e-13	1.000000	1.21483e-13	1.000000
rad51	1.17953e-13	1.000000	1.17953e-13	1.000000
rad52	1.17125e-13	1.000000	1.17125e-13	1.000000
rad34	1.15039e-13	1.000000	1.15039e-13	1.000000
rad21	1.12733e-13	1.000000	1.12733e-13	1.000000
rad41	7.90778e-14	1.000000	7.90778e-14	1.000000
rad42	2.18773e-14	1.000000	2.18773e-14	1.000000
rad31	6.54182e-15	1.000000	6.54182e-15	1.000000
rad61	5.06050e-15	1.000000	5.06050e-15	1.000000
rad65	3.64740e-15	1.000000	3.64740e-15	1.000000
rad53	2.88182e-15	1.000000	2.88182e-15	1.000000
rad19syn	2.04481e-15	1.000000	2.04481e-15	1.000000
rad64	1.22075e-15	1.000000	1.22075e-15	1.000000
rad24	6.48704e-16	1.000000	6.48704e-16	1.000000
rad56	3.51975e-16	1.000000	3.51975e-16	1.000000
rad68syn	7.08891e-17	1.000000	7.08891e-17	1.000000
rad68anti	4.92838e-17	1.000000	4.92838e-17	1.000000
PAH8+H	1.29753e-17	1.000000	1.29753e-17	1.000000
rad40syn	1.22218e-17	1.000000	1.22218e-17	1.000000
rad40anti	9.86083e-18	1.000000	9.86083e-18	1.000000
rad73	2.92011e-18	1.000000	2.92011e-18	1.000000
rad71	6.77305e-19	1.000000	6.77305e-19	1.000000
rad47	2.70802e-20	1.000000	2.70802e-20	1.000000
rad72	3.64132e-22	1.000000	3.64132e-22	1.000000
rad8	4.41200e-33	1.000000	4.41200e-33	1.000000

1000.00000 Pa, 500.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.52837e-13 (1.00)	2.52837e-13 (1.00)
Formation of rad19	2.47941e-13 (0.981)	2.47941e-13 (0.981)
H-abstraction to cyc2enyl	4.69058e-15 (0.0186)	4.69058e-15 (0.0186)
H-abstraction to cyclenyl	2.05381e-16 (0.000812)	2.05381e-16 (0.000812)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.869997	0.869997	0.869997	0.869997
rad9	0.108410	0.978407	0.108410	0.978407
Benzene+cycloprop-2-enylidene	0.0185518	0.996959	0.0185518	0.996959
PhCHCCH2+H	0.00186617	0.998825	0.00186617	0.998825
Benzene+cycloprop-1-enylidene	0.000812306	0.999637	0.000812306	0.999637
rad15	0.000149316	0.999786	0.000149316	0.999786
rad6	7.35416e-05	0.999860	7.35416e-05	0.999860
Ph+MeAc	3.33345e-05	0.999893	3.33345e-05	0.999893
C2H2+PhCH2	3.09040e-05	0.999924	3.09040e-05	0.999924
PhCCH+CH3	2.54806e-05	0.999950	2.54806e-05	0.999950
PhCCCH3+H	2.54405e-05	0.999975	2.54405e-05	0.999975
rad67	1.02360e-05	0.999985	1.02360e-05	0.999985
Ph+Allene	5.10356e-06	0.999991	5.10356e-06	0.999991
rad35	3.94887e-06	0.999994	3.94887e-06	0.999994
PhCH2CCH+H	1.70562e-06	0.999996	1.70562e-06	0.999996
rad2	1.35202e-06	0.999998	1.35202e-06	0.999998
rad26	9.75270e-07	0.999999	9.75270e-07	0.999999
rad23	3.36756e-07	0.999999	3.36756e-07	0.999999
PAH7+H	2.77787e-07	0.999999	2.77787e-07	0.999999
rad37	2.70656e-07	0.999999	2.70656e-07	0.999999
rad1	1.61489e-07	1.000000	1.61489e-07	1.000000
rad19anti	1.49861e-07	1.000000	1.49861e-07	1.000000
rad10	1.33959e-07	1.000000	1.33959e-07	1.000000
rad28	1.31432e-07	1.000000	1.31432e-07	1.000000
rad30	8.41336e-08	1.000000	8.41336e-08	1.000000
rad45	8.05678e-08	1.000000	8.05678e-08	1.000000
rad39	6.41263e-08	1.000000	6.41263e-08	1.000000
PhcycC3H3_A+H	5.31007e-08	1.000000	5.31007e-08	1.000000
rad7	3.80769e-08	1.000000	3.80769e-08	1.000000
rad3	2.04736e-08	1.000000	2.04736e-08	1.000000
rad11	1.69353e-08	1.000000	1.69353e-08	1.000000
PAH10+CH3	1.68782e-08	1.000000	1.68782e-08	1.000000
PAH9+H	1.52316e-08	1.000000	1.52316e-08	1.000000
rad38	1.17422e-08	1.000000	1.17422e-08	1.000000
rad4	1.15294e-08	1.000000	1.15294e-08	1.000000
PhcycC3H3_B+H	9.11599e-09	1.000000	9.11599e-09	1.000000
rad12	5.42081e-09	1.000000	5.42081e-09	1.000000
rad36	3.74767e-09	1.000000	3.74767e-09	1.000000
Phenyl+cycC3H4	3.55696e-09	1.000000	0.000000	1.000000
PAH3+H	3.39396e-09	1.000000	3.39396e-09	1.000000
rad60syn	1.47565e-09	1.000000	1.47565e-09	1.000000
rad22	1.30524e-09	1.000000	1.30524e-09	1.000000
rad46	9.04237e-10	1.000000	9.04237e-10	1.000000
rad60anti	8.14245e-10	1.000000	8.14245e-10	1.000000
rad59	4.94304e-10	1.000000	4.94304e-10	1.000000
rad54	2.55325e-10	1.000000	2.55325e-10	1.000000
rad43	2.29863e-10	1.000000	2.29863e-10	1.000000
rad13	1.67509e-10	1.000000	1.67509e-10	1.000000
rad50	9.44936e-11	1.000000	9.44936e-11	1.000000
PAH1+H	4.56323e-11	1.000000	4.56323e-11	1.000000
rad62	3.39777e-11	1.000000	3.39777e-11	1.000000
rad70	3.07287e-11	1.000000	3.07287e-11	1.000000
rad19syn	1.46005e-11	1.000000	1.46005e-11	1.000000
rad55	9.31139e-12	1.000000	9.31139e-12	1.000000
rad5	5.87912e-12	1.000000	5.87912e-12	1.000000
rad51	5.82647e-12	1.000000	5.82647e-12	1.000000
rad14	3.67729e-12	1.000000	3.67729e-12	1.000000
rad52	3.67281e-12	1.000000	3.67281e-12	1.000000
rad27	3.39537e-12	1.000000	3.39537e-12	1.000000
rad34	3.00870e-12	1.000000	3.00870e-12	1.000000
rad58	2.90281e-12	1.000000	2.90281e-12	1.000000
rad18	1.47442e-12	1.000000	1.47442e-12	1.000000
rad41	1.28482e-12	1.000000	1.28482e-12	1.000000
rad20	4.17180e-13	1.000000	4.17180e-13	1.000000
rad61	3.30498e-13	1.000000	3.30498e-13	1.000000
rad33	3.27252e-13	1.000000	3.27252e-13	1.000000
rad42	3.04142e-13	1.000000	3.04142e-13	1.000000
rad21	3.00247e-13	1.000000	3.00247e-13	1.000000
rad25	2.59029e-13	1.000000	2.59029e-13	1.000000
rad31	2.26983e-13	1.000000	2.26983e-13	1.000000
rad53	1.81601e-13	1.000000	1.81601e-13	1.000000
rad65	1.78539e-13	1.000000	1.78539e-13	1.000000
rad64	7.78480e-14	1.000000	7.78480e-14	1.000000
rad56	4.82137e-14	1.000000	4.82137e-14	1.000000
PAH8+H	1.06079e-14	1.000000	1.06079e-14	1.000000
rad68syn	9.23508e-15	1.000000	9.23508e-15	1.000000
rad73	8.61837e-15	1.000000	8.61837e-15	1.000000

rad71	7.01333e-15	1.00000	7.01333e-15	1.00000
rad68anti	6.23112e-15	1.00000	6.23112e-15	1.00000
rad40syn	3.04923e-15	1.00000	3.04923e-15	1.00000
rad24	2.64289e-15	1.00000	2.64289e-15	1.00000
rad40anti	2.34567e-15	1.00000	2.34567e-15	1.00000
rad72	8.67815e-17	1.00000	8.67815e-17	1.00000
rad47	5.17283e-18	1.00000	5.17283e-18	1.00000
rad8	7.40459e-29	1.00000	7.40459e-29	1.00000

1000.00000 Pa, 600.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.35570e-13 (1.00)	4.35570e-13 (1.00)
Formation of rad19	4.18892e-13 (0.962)	4.18892e-13 (0.962)
H-abstraction to cyc2enyl	1.54751e-14 (0.0355)	1.54751e-14 (0.0355)
H-abstraction to cyclenyl	1.20343e-15 (0.00276)	1.20343e-15 (0.00276)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.908945	0.908945	0.908945	0.908945
rad9	0.0478824	0.956828	0.0478824	0.956828
Benzene+cycloprop-2-enylidene	0.0355285	0.992356	0.0355285	0.992356
PhCHCCH2+H	0.00431645	0.996673	0.00431645	0.996673
Benzene+cycloprop-1-enylidene	0.00276289	0.999436	0.00276289	0.999436
C2H2+PhCH2	9.97359e-05	0.999535	9.97359e-05	0.999535
rad6	9.52876e-05	0.999631	9.52876e-05	0.999631
Ph+MeAc	9.47424e-05	0.999725	9.47424e-05	0.999725
PhCCCH3+H	6.29582e-05	0.999788	6.29582e-05	0.999788
rad15	6.24879e-05	0.999851	6.24879e-05	0.999851
PhCCH+CH3	5.96400e-05	0.999911	5.96400e-05	0.999911
Ph+Allene	3.10085e-05	0.999942	3.10085e-05	0.999942
rad67	2.88134e-05	0.999970	2.88135e-05	0.999970
rad35	1.08572e-05	0.999981	1.08572e-05	0.999981
PhCH2CCH+H	1.08248e-05	0.999992	1.08248e-05	0.999992
PAH7+H	1.63754e-06	0.999994	1.63754e-06	0.999994
rad2	1.21292e-06	0.999995	1.21292e-06	0.999995
rad37	1.02723e-06	0.999996	1.02723e-06	0.999996
rad19anti	6.72837e-07	0.999997	6.72837e-07	0.999997
rad23	6.37928e-07	0.999997	6.37928e-07	0.999997
PhcycC3H3_A+H	5.34282e-07	0.999998	5.34282e-07	0.999998
rad26	4.81024e-07	0.999998	4.81025e-07	0.999998
rad39	3.66348e-07	0.999999	3.66348e-07	0.999999
rad30	2.58674e-07	0.999999	2.58674e-07	0.999999
PhcycC3H3_B+H	2.49300e-07	0.999999	2.49300e-07	0.999999
rad45	2.21315e-07	0.999999	2.21315e-07	0.999999
rad28	1.85947e-07	1.000000	1.85947e-07	1.000000
rad1	1.79703e-07	1.000000	1.79703e-07	1.000000
PAH10+CH3	1.37363e-07	1.000000	1.37363e-07	1.000000
PAH9+H	9.88511e-08	1.000000	9.88511e-08	1.000000
rad38	7.45737e-08	1.000000	7.45737e-08	1.000000
rad10	7.35363e-08	1.000000	7.35363e-08	1.000000
rad7	4.92117e-08	1.000000	4.92117e-08	1.000000
Phenyl+cycC3H4	3.58721e-08	1.000000	0.000000	1.000000
PAH3+H	2.26189e-08	1.000000	2.26189e-08	1.000000
rad11	2.21371e-08	1.000000	2.21371e-08	1.000000
rad3	1.84044e-08	1.000000	1.84044e-08	1.000000
rad36	1.32060e-08	1.000000	1.32060e-08	1.000000
rad12	1.28225e-08	1.000000	1.28225e-08	1.000000
rad4	1.12290e-08	1.000000	1.12290e-08	1.000000
rad46	8.24898e-09	1.000000	8.24898e-09	1.000000
rad60syn	6.49250e-09	1.000000	6.49251e-09	1.000000
rad60anti	3.68333e-09	1.000000	3.68333e-09	1.000000
rad59	2.99079e-09	1.000000	2.99079e-09	1.000000
rad54	2.88158e-09	1.000000	2.88158e-09	1.000000
rad50	2.62826e-09	1.000000	2.62826e-09	1.000000
rad22	1.90716e-09	1.000000	1.90716e-09	1.000000
rad19syn	1.52303e-09	1.000000	1.52303e-09	1.000000
rad43	1.35168e-09	1.000000	1.35168e-09	1.000000
PAH1+H	8.27068e-10	1.000000	8.27068e-10	1.000000
rad51	4.98434e-10	1.000000	4.98434e-10	1.000000
rad70	3.97733e-10	1.000000	3.97733e-10	1.000000
rad13	2.62155e-10	1.000000	2.62155e-10	1.000000
rad62	1.90403e-10	1.000000	1.90403e-10	1.000000
rad52	1.78523e-10	1.000000	1.78523e-10	1.000000
rad55	1.25917e-10	1.000000	1.25917e-10	1.000000
rad34	5.46003e-11	1.000000	5.46003e-11	1.000000
rad58	5.33543e-11	1.000000	5.33543e-11	1.000000
rad61	2.51870e-11	1.000000	2.51870e-11	1.000000
rad41	1.73597e-11	1.000000	1.73597e-11	1.000000

rad65	1.40211e-11	1.00000	1.40211e-11	1.00000
rad71	9.78269e-12	1.00000	9.78269e-12	1.00000
rad73	7.64260e-12	1.00000	7.64260e-12	1.00000
rad53	6.42215e-12	1.00000	6.42215e-12	1.00000
PAH8+H	4.71740e-12	1.00000	4.71740e-12	1.00000
rad56	3.89102e-12	1.00000	3.89102e-12	1.00000
rad31	3.07987e-12	1.00000	3.07987e-12	1.00000
rad42	3.02429e-12	1.00000	3.02429e-12	1.00000
rad64	2.67940e-12	1.00000	2.67940e-12	1.00000
rad14	2.51514e-12	1.00000	2.51514e-12	1.00000
rad5	2.37699e-12	1.00000	2.37699e-12	1.00000
rad27	2.30307e-12	1.00000	2.30307e-12	1.00000
rad18	2.26262e-12	1.00000	2.26262e-12	1.00000
rad68syn	1.17990e-12	1.00000	1.17990e-12	1.00000
rad20	1.07550e-12	1.00000	1.07550e-12	1.00000
rad21	8.48605e-13	1.00000	8.48605e-13	1.00000
rad40syn	7.88710e-13	1.00000	7.88710e-13	1.00000
rad68anti	7.73782e-13	1.00000	7.73782e-13	1.00000
rad33	7.39481e-13	1.00000	7.39481e-13	1.00000
rad40anti	6.24293e-13	1.00000	6.24293e-13	1.00000
rad25	4.18904e-13	1.00000	4.18904e-13	1.00000
rad72	2.82064e-13	1.00000	2.82064e-13	1.00000
rad24	1.99621e-14	1.00000	1.99621e-14	1.00000
rad47	5.52874e-16	1.00000	5.52874e-16	1.00000
rad8	2.10855e-24	1.00000	2.10855e-24	1.00000

1000.00000 Pa, 700.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.91694e-13 (1.00)	6.91694e-13 (1.00)
Formation of rad19	6.47922e-13 (0.937)	6.47922e-13 (0.937)
H-abstraction to cyc2enyl	3.91858e-14 (0.0567)	3.91858e-14 (0.0567)
H-abstraction to cyclenyl	4.58543e-15 (0.00663)	4.58542e-15 (0.00663)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.899417	0.899417	0.899418	0.899418
Benzene+cycloprop-2-enylidene	0.0566520	0.956069	0.0566520	0.956070
rad9	0.0270165	0.983085	0.0270165	0.983086
PhCHCCH2+H	0.00914274	0.992228	0.00914274	0.992229
Benzene+cycloprop-1-enylidene	0.00662927	0.998857	0.00662927	0.998858
C2H2+PhCH2	0.000254937	0.999112	0.000254937	0.999113
Ph+MeAc	0.000233332	0.999345	0.000233332	0.999346
PhCCCH3+H	0.000137135	0.999483	0.000137135	0.999484
Ph+Allene	0.000123435	0.999606	0.000123435	0.999607
PhCCH+CH3	0.000121180	0.999727	0.000121180	0.999728
rad6	7.93696e-05	0.999807	7.93696e-05	0.999808
rad67	7.25488e-05	0.999879	7.25488e-05	0.999880
PhCH2CCH+H	4.70074e-05	0.999926	4.70074e-05	0.999927
rad35	2.68517e-05	0.999953	2.68517e-05	0.999954
rad15	2.42608e-05	0.999977	2.42608e-05	0.999978
PAH7+H	5.74162e-06	0.999983	5.74162e-06	0.999984
PhcycC3H3_A+H	3.35534e-06	0.999986	3.35535e-06	0.999987
rad37	3.26198e-06	0.999990	3.26198e-06	0.999991
PhcycC3H3_B+H	2.19104e-06	0.999992	2.19104e-06	0.999993
rad39	1.23179e-06	0.999993	1.23179e-06	0.999994
rad2	1.03128e-06	0.999994	1.03128e-06	0.999995
PAH10+CH3	8.32129e-07	0.999995	8.32129e-07	0.999996
rad19anti	7.82406e-07	0.999996	7.82406e-07	0.999997
rad23	7.36829e-07	0.999996	7.36829e-07	0.999997
rad30	7.15671e-07	0.999997	7.15671e-07	0.999998
PAH9+H	4.97612e-07	0.999998	4.97612e-07	0.999999
rad38	3.73879e-07	0.999998	3.73879e-07	0.999999
rad45	2.85769e-07	0.999998	2.85769e-07	0.999999
Phenyl+cycC3H4	2.49579e-07	0.999999	0.00000	0.999999
rad26	1.99832e-07	0.999999	1.99832e-07	0.999999
rad1	1.84505e-07	0.999999	1.84505e-07	1.000000
rad28	1.58668e-07	0.999999	1.58668e-07	1.000000
PAH3+H	1.25785e-07	0.999999	1.25785e-07	1.000000
rad12	8.46524e-08	0.999999	8.46524e-08	1.000000
rad46	5.43613e-08	0.999999	5.43613e-08	1.000000
rad7	4.22433e-08	0.999999	4.22433e-08	1.000000
rad10	3.93055e-08	0.999999	3.93055e-08	1.000000
rad50	3.10402e-08	0.999999	3.10402e-08	1.000000
rad60syn	2.52774e-08	0.999999	2.52774e-08	1.000000
rad36	2.18434e-08	1.000000	2.18434e-08	1.000000
rad11	1.98215e-08	1.000000	1.98215e-08	1.000000
rad54	1.84154e-08	1.000000	1.84154e-08	1.000000
rad59	1.53010e-08	1.000000	1.53010e-08	1.000000

rad60anti	1.47070e-08	1.000000	1.47070e-08	1.000000
rad3	1.27252e-08	1.000000	1.27252e-08	1.000000
rad19syn	8.87901e-09	1.000000	8.87901e-09	1.000000
rad4	8.55022e-09	1.000000	8.55022e-09	1.000000
rad51	7.91747e-09	1.000000	7.91747e-09	1.000000
PAH1+H	7.35082e-09	1.000000	7.35083e-09	1.000000
rad43	6.42147e-09	1.000000	6.42148e-09	1.000000
rad70	2.96873e-09	1.000000	2.96873e-09	1.000000
rad52	2.48051e-09	1.000000	2.48052e-09	1.000000
rad22	1.92307e-09	1.000000	1.92307e-09	1.000000
rad55	9.15886e-10	1.000000	9.15886e-10	1.000000
rad62	8.22236e-10	1.000000	8.22237e-10	1.000000
rad58	4.89781e-10	1.000000	4.89781e-10	1.000000
rad34	4.80809e-10	1.000000	4.80809e-10	1.000000
rad13	3.29189e-10	1.000000	3.29189e-10	1.000000
rad61	2.80464e-10	1.000000	2.80464e-10	1.000000
rad71	2.40087e-10	1.000000	2.40087e-10	1.000000
rad65	2.15010e-10	1.000000	2.15010e-10	1.000000
rad73	1.75525e-10	1.000000	1.75525e-10	1.000000
rad41	1.41519e-10	1.000000	1.41519e-10	1.000000
rad53	6.78705e-11	1.000000	6.78705e-11	1.000000
PAH8+H	6.21330e-11	1.000000	6.21331e-11	1.000000
rad56	4.41102e-11	1.000000	4.41103e-11	1.000000
rad64	3.02973e-11	1.000000	3.02973e-11	1.000000
rad42	2.03171e-11	1.000000	2.03171e-11	1.000000
rad68syn	1.40787e-11	1.000000	1.40787e-11	1.000000
rad40syn	1.00836e-11	1.000000	1.00836e-11	1.000000
rad31	9.57476e-12	1.000000	9.57476e-12	1.000000
rad68anti	9.21942e-12	1.000000	9.21942e-12	1.000000
rad40anti	8.06905e-12	1.000000	8.06905e-12	1.000000
rad72	7.76685e-12	1.000000	7.76686e-12	1.000000
rad20	3.38703e-12	1.000000	3.38703e-12	1.000000
rad18	3.24216e-12	1.000000	3.24216e-12	1.000000
rad21	3.14537e-12	1.000000	3.14537e-12	1.000000
rad27	1.94521e-12	1.000000	1.94521e-12	1.000000
rad14	1.78610e-12	1.000000	1.78610e-12	1.000000
rad33	1.74487e-12	1.000000	1.74487e-12	1.000000
rad5	1.05424e-12	1.000000	1.05424e-12	1.000000
rad25	5.74169e-13	1.000000	5.74169e-13	1.000000
rad24	1.95870e-13	1.000000	1.95870e-13	1.000000
rad47	3.53494e-14	1.000000	3.53494e-14	1.000000
rad8	1.66173e-19	1.000000	1.66173e-19	1.000000

1000.00000 Pa, 800.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.03759e-12 (1.00)	1.03758e-12 (1.00)
Formation of rad19	9.41065e-13 (0.907)	9.41063e-13 (0.907)
H-abstraction to cyc2enyl	8.32953e-14 (0.0803)	8.32953e-14 (0.0803)
H-abstraction to cyclenyl	1.32261e-14 (0.0127)	1.32261e-14 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.862334	0.862334	0.862335	0.862335
Benzene+cycloprop-2-enylidene	0.0802780	0.942612	0.0802781	0.942614
rad9	0.0234409	0.966053	0.0234409	0.966054
PhCHCCH2+H	0.0186899	0.984742	0.0186899	0.984744
Benzene+cycloprop-1-enylidene	0.0127470	0.997489	0.0127470	0.997491
C2H2+PhCH2	0.000563442	0.998053	0.000563442	0.998055
Ph+MeAc	0.000536115	0.998589	0.000536116	0.998591
Ph+Allene	0.000380161	0.998969	0.000380162	0.998971
PhCCCH3+H	0.000280426	0.999250	0.000280427	0.999251
PhCCH+CH3	0.000220821	0.999470	0.000220822	0.999472
rad67	0.000174862	0.999645	0.000174862	0.999647
PhCH2CCH+H	0.000167058	0.999812	0.000167058	0.999814
rad35	6.38206e-05	0.999876	6.38207e-05	0.999878
rad6	4.96022e-05	0.999926	4.96023e-05	0.999928
PAH7+H	1.47068e-05	0.999940	1.47069e-05	0.999942
rad15	1.16378e-05	0.999952	1.16378e-05	0.999954
PhcycC3H3_A+H	1.15259e-05	0.999964	1.15260e-05	0.999965
rad37	9.63652e-06	0.999973	9.63652e-06	0.999975
PhcycC3H3_B+H	7.03670e-06	0.999980	7.03671e-06	0.999982
PAH10+CH3	4.75831e-06	0.999985	4.75832e-06	0.999987
rad39	2.96055e-06	0.999988	2.96055e-06	0.999990
rad30	1.92636e-06	0.999990	1.92636e-06	0.999992
PAH9+H	1.87600e-06	0.999992	1.87600e-06	0.999994
rad38	1.52977e-06	0.999993	1.52977e-06	0.999995
Phenyl+cycC3H4	1.27220e-06	0.999995	0.00000	0.999995
rad12	9.29160e-07	0.999996	9.29160e-07	0.999996

PAH3+H	6.91401e-07	0.999996	6.91401e-07	0.999997
rad2	6.56423e-07	0.999997	6.56424e-07	0.999997
rad19anti	6.37499e-07	0.999997	6.37500e-07	0.999998
rad23	6.33323e-07	0.999998	6.33324e-07	0.999999
rad45	2.89870e-07	0.999998	2.89871e-07	0.999999
rad46	2.28209e-07	0.999999	2.28208e-07	0.999999
rad50	1.46340e-07	0.999999	1.46340e-07	0.999999
rad1	1.37756e-07	0.999999	1.37756e-07	1.000000
rad28	1.00211e-07	0.999999	1.00211e-07	1.000000
rad60syn	9.82236e-08	0.999999	9.82236e-08	1.000000
rad54	9.03732e-08	0.999999	9.03732e-08	1.000000
rad26	8.42729e-08	0.999999	8.42730e-08	1.000000
rad59	7.75369e-08	0.999999	7.75370e-08	1.000000
rad60anti	5.86457e-08	0.999999	5.86458e-08	1.000000
PAH1+H	5.37937e-08	0.999999	5.37938e-08	1.000000
rad51	3.73191e-08	1.000000	3.73191e-08	1.000000
rad7	2.93848e-08	1.000000	2.93848e-08	1.000000
rad43	2.88326e-08	1.000000	2.88326e-08	1.000000
rad36	2.63405e-08	1.000000	2.63405e-08	1.000000
rad10	2.06708e-08	1.000000	2.06709e-08	1.000000
rad70	1.84772e-08	1.000000	1.84772e-08	1.000000
rad11	1.53435e-08	1.000000	1.53436e-08	1.000000
rad19syn	1.44429e-08	1.000000	1.44429e-08	1.000000
rad52	1.17554e-08	1.000000	1.17554e-08	1.000000
rad3	7.06100e-09	1.000000	7.06101e-09	1.000000
rad55	5.17638e-09	1.000000	5.17639e-09	1.000000
rad4	5.12805e-09	1.000000	5.12805e-09	1.000000
rad58	3.79671e-09	1.000000	3.79671e-09	1.000000
rad34	3.49192e-09	1.000000	3.49192e-09	1.000000
rad62	3.05042e-09	1.000000	3.05043e-09	1.000000
rad61	2.56764e-09	1.000000	2.56764e-09	1.000000
rad22	1.63124e-09	1.000000	1.63125e-09	1.000000
rad71	1.08572e-09	1.000000	1.08573e-09	1.000000
rad65	1.02697e-09	1.000000	1.02697e-09	1.000000
rad41	9.89809e-10	1.000000	9.89818e-10	1.000000
rad73	7.96940e-10	1.000000	7.96941e-10	1.000000
rad53	5.98164e-10	1.000000	5.98164e-10	1.000000
rad13	4.38058e-10	1.000000	4.38059e-10	1.000000
rad56	4.27879e-10	1.000000	4.27880e-10	1.000000
PAH8+H	4.12746e-10	1.000000	4.12747e-10	1.000000
rad64	2.31153e-10	1.000000	2.31153e-10	1.000000
rad68syn	1.17519e-10	1.000000	1.17519e-10	1.000000
rad42	1.13140e-10	1.000000	1.13140e-10	1.000000
rad68anti	7.71636e-11	1.000000	7.71638e-11	1.000000
rad40syn	7.43716e-11	1.000000	7.43717e-11	1.000000
rad40anti	5.86454e-11	1.000000	5.86455e-11	1.000000
rad72	3.51112e-11	1.000000	3.51112e-11	1.000000
rad21	2.22185e-11	1.000000	2.22185e-11	1.000000
rad20	1.82261e-11	1.000000	1.82261e-11	1.000000
rad31	1.58913e-11	1.000000	1.58913e-11	1.000000
rad18	7.13155e-12	1.000000	7.13156e-12	1.000000
rad33	6.45849e-12	1.000000	6.45850e-12	1.000000
rad24	5.23848e-12	1.000000	5.23849e-12	1.000000
rad27	2.14930e-12	1.000000	2.14929e-12	1.000000
rad14	1.43709e-12	1.000000	1.43709e-12	1.000000
rad25	9.35926e-13	1.000000	9.35926e-13	1.000000
rad5	5.37180e-13	1.000000	5.37180e-13	1.000000
rad47	3.44075e-13	1.000000	3.44075e-13	1.000000
rad8	4.53647e-15	1.000000	4.53648e-15	1.000000

1000.00000 Pa, 900.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.49199e-12 (1.00)	1.49199e-12 (1.00)
Formation of rad19	1.30395e-12 (0.874)	1.30394e-12 (0.874)
H-abstraction to cyc2enyl	1.56554e-13 (0.105)	1.56554e-13 (0.105)
H-abstraction to cyclenyl	3.14892e-14 (0.0211)	3.14890e-14 (0.0211)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.814085	0.814085	0.814090	0.814090
Benzene+cycloprop-2-enylidene	0.104929	0.919015	0.104930	0.919020
PhCHCCH2+H	0.0361454	0.955160	0.0361455	0.955166
Benzene+cycloprop-1-enylidene	0.0211054	0.976266	0.0211054	0.976271
rad9	0.0183468	0.994612	0.0183469	0.994618
C2H2+PhCH2	0.00113559	0.995748	0.00113559	0.995754
Ph+MeAc	0.00112959	0.996878	0.00112960	0.996883
Ph+Allene	0.000944984	0.997823	0.000944992	0.997828
PhCCCH3+H	0.000528581	0.998351	0.000528584	0.998357

PhCH2CCH+H	0.000506224	0.998857	0.000506226	0.998863
rad67	0.000392738	0.999250	0.000392740	0.999256
PhCCH+CH3	0.000378752	0.999629	0.000378754	0.999634
rad35	0.000142297	0.999771	0.000142298	0.999777
PhcycC3H3_A+H	4.33731e-05	0.999815	4.33733e-05	0.999820
PhcycC3H3_B+H	3.14219e-05	0.999846	3.14221e-05	0.999852
PAH7+H	3.05996e-05	0.999877	3.05998e-05	0.999882
rad6	2.53725e-05	0.999902	2.53727e-05	0.999908
rad37	2.47528e-05	0.999927	2.47529e-05	0.999932
PAH10+CH3	2.38207e-05	0.999951	2.38209e-05	0.999956
PAH9+H	7.00991e-06	0.999958	7.00994e-06	0.999963
rad15	6.59613e-06	0.999964	6.59617e-06	0.999970
rad38	5.84851e-06	0.999970	5.84854e-06	0.999976
rad39	5.73656e-06	0.999976	5.73659e-06	0.999981
Phenyl+cycC3H4	5.09265e-06	0.999981	0.00000	0.999981
rad30	4.94386e-06	0.999986	4.94389e-06	0.999986
PAH3+H	3.93718e-06	0.999990	3.93719e-06	0.999990
rad12	3.92055e-06	0.999994	3.92057e-06	0.999994
rad46	9.79995e-07	0.999995	9.80003e-07	0.999995
rad50	8.06056e-07	0.999995	8.06060e-07	0.999996
rad23	5.51441e-07	0.999996	5.51444e-07	0.999996
rad19anti	4.74683e-07	0.999996	4.74685e-07	0.999997
rad59	3.95745e-07	0.999997	3.95748e-07	0.999997
rad2	3.88386e-07	0.999997	3.88388e-07	0.999998
rad60syn	3.76793e-07	0.999998	3.76796e-07	0.999998
PAH1+H	3.73915e-07	0.999998	3.73917e-07	0.999998
rad54	3.33283e-07	0.999998	3.33286e-07	0.999999
rad45	3.03122e-07	0.999999	3.03123e-07	0.999999
rad60anti	2.31359e-07	0.999999	2.31359e-07	0.999999
rad51	2.26292e-07	0.999999	2.26294e-07	1.000000
rad43	1.21075e-07	0.999999	1.21076e-07	1.000000
rad70	1.01931e-07	0.999999	1.01931e-07	1.000000
rad1	9.45307e-08	0.999999	9.45315e-08	1.000000
rad52	6.83415e-08	0.999999	6.83419e-08	1.000000
rad28	5.14998e-08	1.000000	5.15001e-08	1.000000
rad58	3.49404e-08	1.000000	3.49406e-08	1.000000
rad26	3.45540e-08	1.000000	3.45543e-08	1.000000
rad36	2.93857e-08	1.000000	2.93858e-08	1.000000
rad61	2.84234e-08	1.000000	2.84234e-08	1.000000
rad34	2.37001e-08	1.000000	2.37003e-08	1.000000
rad55	2.19394e-08	1.000000	2.19396e-08	1.000000
rad7	1.91543e-08	1.000000	1.91544e-08	1.000000
rad19syn	1.51735e-08	1.000000	1.51736e-08	1.000000
rad11	1.21976e-08	1.000000	1.21976e-08	1.000000
rad10	1.17862e-08	1.000000	1.17863e-08	1.000000
rad62	9.80047e-09	1.000000	9.80055e-09	1.000000
rad71	7.06065e-09	1.000000	7.06069e-09	1.000000
rad41	6.93046e-09	1.000000	6.93050e-09	1.000000
PAH8+H	6.83401e-09	1.000000	6.83404e-09	1.000000
rad65	6.38510e-09	1.000000	6.38514e-09	1.000000
rad73	5.18826e-09	1.000000	5.18829e-09	1.000000
rad53	4.39819e-09	1.000000	4.39822e-09	1.000000
rad56	4.12429e-09	1.000000	4.12431e-09	1.000000
rad3	4.11460e-09	1.000000	4.11463e-09	1.000000
rad4	3.17556e-09	1.000000	3.17558e-09	1.000000
rad22	1.83248e-09	1.000000	1.83249e-09	1.000000
rad64	1.62935e-09	1.000000	1.62936e-09	1.000000
rad68syn	1.45765e-09	1.000000	1.45766e-09	1.000000
rad40syn	1.08555e-09	1.000000	1.08556e-09	1.000000
rad68anti	9.50603e-10	1.000000	9.50603e-10	1.000000
rad40anti	8.63096e-10	1.000000	8.63100e-10	1.000000
rad13	7.22984e-10	1.000000	7.22988e-10	1.000000
rad42	5.60485e-10	1.000000	5.60488e-10	1.000000
rad21	2.87079e-10	1.000000	2.87081e-10	1.000000
rad72	2.25355e-10	1.000000	2.25356e-10	1.000000
rad20	1.56671e-10	1.000000	1.56672e-10	1.000000
rad24	8.54378e-11	1.000000	8.54382e-11	1.000000
rad33	4.31339e-11	1.000000	4.31342e-11	1.000000
rad18	3.36186e-11	1.000000	3.36188e-11	1.000000
rad31	2.09135e-11	1.000000	2.09136e-11	1.000000
rad8	7.75408e-12	1.000000	7.75412e-12	1.000000
rad27	3.54673e-12	1.000000	3.54674e-12	1.000000
rad25	2.51320e-12	1.000000	2.51322e-12	1.000000
rad47	2.49687e-12	1.000000	2.49687e-12	1.000000
rad14	1.70180e-12	1.000000	1.70181e-12	1.000000
rad5	2.76663e-13	1.000000	2.76665e-13	1.000000

1000.00000 Pa, 1000.00000 K

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Rate constant | True (fraction) Effective (fraction)

Total	2.07591e-12 (1.00)	2.07587e-12 (1.00)
Formation of rad19	1.74189e-12 (0.839)	1.74186e-12 (0.839)
H-abstraction to cyc2enyl	2.68753e-13 (0.129)	2.68753e-13 (0.129)
H-abstraction to cyclenyl	6.52627e-14 (0.0314)	6.52614e-14 (0.0314)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.763226	0.763226	0.763239	0.763239
Benzene+cycloprop-2-enylidene	0.129463	0.892689	0.129465	0.892704
PhCHCCH2+H	0.0560561	0.948745	0.0560570	0.948761
Benzene+cycloprop-1-enylidene	0.0314382	0.980183	0.0314381	0.980199
rad9	0.0108697	0.991053	0.0108698	0.991069
Ph+MeAc	0.00182684	0.992880	0.00182686	0.992896
C2H2+PhCH2	0.00180099	0.994681	0.00180102	0.994697
Ph+Allene	0.00162879	0.996309	0.00162882	0.996326
PhCH2CCH+H	0.000972935	0.997282	0.000972949	0.997299
PhCCCH3+H	0.000801145	0.998083	0.000801159	0.998100
rad67	0.000658704	0.998742	0.000658715	0.998759
PhCCH+CH3	0.000555530	0.999298	0.000555539	0.999314
rad35	0.000238300	0.999536	0.000238304	0.999553
PhcycC3H3_A+H	0.000115900	0.999652	0.000115902	0.999668
PhcycC3H3_B+H	9.27968e-05	0.999745	9.27982e-05	0.999761
PAH10+CH3	5.54000e-05	0.999800	5.54010e-05	0.999817
PAH7+H	4.86553e-05	0.999849	4.86561e-05	0.999865
rad37	4.33217e-05	0.999892	4.33225e-05	0.999909
Phenyl+cycC3H4	1.68264e-05	0.999909	0.000000	0.999909
PAH9+H	1.55718e-05	0.999924	1.55720e-05	0.999924
rad38	1.27329e-05	0.999937	1.27331e-05	0.999937
rad6	1.23452e-05	0.999950	1.23454e-05	0.999949
PAH3+H	9.97554e-06	0.999960	9.97568e-06	0.999959
rad30	8.92566e-06	0.999968	8.92581e-06	0.999968
rad39	8.84846e-06	0.999977	8.84861e-06	0.999977
rad12	6.60448e-06	0.999984	6.60459e-06	0.999984
rad15	4.26962e-06	0.999988	4.26969e-06	0.999988
rad46	2.34597e-06	0.999991	2.34601e-06	0.999990
rad50	2.24021e-06	0.999993	2.24025e-06	0.999992
PAH1+H	9.95012e-07	0.999994	9.95026e-07	0.999993
rad59	9.60877e-07	0.999995	9.60891e-07	0.999994
rad60syn	8.19236e-07	0.999996	8.19249e-07	0.999995
rad51	6.82352e-07	0.999996	6.82364e-07	0.999996
rad54	6.73980e-07	0.999997	6.73992e-07	0.999997
rad60anti	5.08864e-07	0.999997	5.08873e-07	0.999997
rad23	5.07729e-07	0.999998	5.07738e-07	0.999998
rad19anti	3.52532e-07	0.999998	3.52538e-07	0.999998
rad45	3.16330e-07	0.999999	3.16335e-07	0.999998
rad43	2.69240e-07	0.999999	2.69245e-07	0.999999
rad2	2.66061e-07	0.999999	2.66066e-07	0.999999
rad70	2.49942e-07	0.999999	2.49946e-07	0.999999
rad52	1.97800e-07	1.000000	1.97804e-07	0.999999
rad58	1.03642e-07	1.000000	1.03644e-07	0.999999
rad61	8.66311e-08	1.000000	8.66325e-08	0.999999
rad1	7.02659e-08	1.000000	7.02671e-08	1.000000
rad34	6.26558e-08	1.000000	6.26569e-08	1.000000
rad55	4.69259e-08	1.000000	4.69267e-08	1.000000
rad36	3.07309e-08	1.000000	3.07314e-08	1.000000
rad71	2.54003e-08	1.000000	2.54007e-08	1.000000
rad28	2.52361e-08	1.000000	2.52366e-08	1.000000
PAH8+H	2.47417e-08	1.000000	2.47421e-08	1.000000
rad62	1.94897e-08	1.000000	1.94900e-08	1.000000
rad65	1.91697e-08	1.000000	1.91701e-08	1.000000
rad41	1.85955e-08	1.000000	1.85958e-08	1.000000
rad73	1.80783e-08	1.000000	1.80787e-08	1.000000
rad26	1.60468e-08	1.000000	1.60470e-08	1.000000
rad7	1.49233e-08	1.000000	1.49236e-08	1.000000
rad19syn	1.42444e-08	1.000000	1.42446e-08	1.000000
rad11	1.27171e-08	1.000000	1.27173e-08	1.000000
rad56	1.18791e-08	1.000000	1.18793e-08	1.000000
rad53	1.15536e-08	1.000000	1.15537e-08	1.000000
rad10	9.52654e-09	1.000000	9.52668e-09	1.000000
rad68syn	4.71950e-09	1.000000	4.71959e-09	1.000000
rad64	4.42962e-09	1.000000	4.42969e-09	1.000000
rad22	4.01146e-09	1.000000	4.01153e-09	1.000000
rad40syn	3.74869e-09	1.000000	3.74876e-09	1.000000
rad68anti	3.07058e-09	1.000000	3.07064e-09	1.000000
rad40anti	2.99630e-09	1.000000	2.99635e-09	1.000000
rad21	2.83552e-09	1.000000	2.83557e-09	1.000000
rad3	2.74122e-09	1.000000	2.74126e-09	1.000000
rad4	2.16738e-09	1.000000	2.16742e-09	1.000000
rad13	1.83680e-09	1.000000	1.83684e-09	1.000000

rad42	1.33766e-09	1.00000	1.33769e-09	1.000000
rad20	1.15492e-09	1.00000	1.15494e-09	1.000000
rad72	8.58667e-10	1.00000	8.58681e-10	1.000000
rad8	7.61072e-10	1.00000	7.61085e-10	1.000000
rad24	4.02501e-10	1.00000	4.02509e-10	1.000000
rad33	2.91445e-10	1.00000	2.91450e-10	1.000000
rad18	2.02658e-10	1.00000	2.02662e-10	1.000000
rad31	2.43001e-11	1.00000	2.43006e-11	1.000000
rad25	1.59185e-11	1.00000	1.59188e-11	1.000000
rad27	1.29888e-11	1.00000	1.29890e-11	1.000000
rad47	7.77958e-12	1.00000	7.77972e-12	1.000000
rad14	3.22424e-12	1.00000	3.22430e-12	1.000000
rad5	1.74820e-13	1.00000	1.74823e-13	1.000000

1000.00000 Pa, 1100.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.81236e-12 (1.00)	2.81222e-12 (1.00)
Formation of rad19	2.25993e-12 (0.804)	2.25980e-12 (0.804)
H-abstraction to cyc2enyl	4.30538e-13 (0.153)	4.30538e-13 (0.153)
H-abstraction to cyclenyl	1.21896e-13 (0.0433)	1.21889e-13 (0.0433)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.715679	0.715679	0.715714	0.715714
Benzene+cycloprop-2-enylidene	0.153088	0.868767	0.153095	0.868810
PhCHCCH2+H	0.0698586	0.938625	0.0698621	0.938672
Benzene+cycloprop-1-enylidene	0.0433429	0.981968	0.0433425	0.982014
rad9	0.00656313	0.988531	0.00656346	0.988578
Ph+MeAc	0.00230894	0.990840	0.00230905	0.990887
C2H2+PhCH2	0.00224991	0.993090	0.00225001	0.993137
Ph+Allene	0.00210832	0.995199	0.00210842	0.995245
PhCH2CCH+H	0.00126637	0.996465	0.00126643	0.996512
PhCCCH3+H	0.000994988	0.997460	0.000995035	0.997507
rad67	0.000838589	0.998298	0.000838630	0.998345
PhCCH+CH3	0.000670006	0.998968	0.000670039	0.999015
rad35	0.000302933	0.999271	0.000302948	0.999318
PhcycC3H3_A+H	0.000216808	0.999488	0.000216819	0.999535
PhcycC3H3_B+H	0.000171278	0.999659	0.000171287	0.999706
PAH10+CH3	7.19082e-05	0.999731	7.19118e-05	0.999778
PAH7+H	6.12733e-05	0.999793	6.12764e-05	0.999840
rad37	5.62303e-05	0.999849	5.62331e-05	0.999896
Phenyl+cycC3H4	4.74734e-05	0.999896	0.000000	0.999896
PAH9+H	1.98974e-05	0.999916	1.98984e-05	0.999916
rad38	1.64247e-05	0.999933	1.64255e-05	0.999932
PAH3+H	1.28786e-05	0.999946	1.28793e-05	0.999945
rad30	1.14696e-05	0.999957	1.14701e-05	0.999957
rad39	1.09754e-05	0.999968	1.09759e-05	0.999967
rad12	7.33785e-06	0.999975	7.33822e-06	0.999975
rad6	6.35312e-06	0.999982	6.35344e-06	0.999981
rad15	3.87370e-06	0.999986	3.87390e-06	0.999985
rad46	2.98660e-06	0.999989	2.98675e-06	0.999988
rad50	2.84192e-06	0.999991	2.84205e-06	0.999991
PAH1+H	1.28083e-06	0.999993	1.28090e-06	0.999992
rad59	1.24282e-06	0.999994	1.24288e-06	0.999993
rad60syn	1.06238e-06	0.999995	1.06243e-06	0.999994
rad54	8.89969e-07	0.999996	8.90017e-07	0.999995
rad51	8.68924e-07	0.999997	8.68972e-07	0.999996
rad60anti	6.59842e-07	0.999997	6.59876e-07	0.999997
rad23	4.67044e-07	0.999998	4.67068e-07	0.999997
rad43	3.49242e-07	0.999998	3.49259e-07	0.999998
rad70	3.24026e-07	0.999999	3.24042e-07	0.999998
rad45	3.14962e-07	0.999999	3.14979e-07	0.999998
rad19anti	2.63531e-07	0.999999	2.63544e-07	0.999999
rad52	2.51151e-07	0.999999	2.51163e-07	0.999999
rad2	2.00728e-07	1.000000	2.00739e-07	0.999999
rad58	1.33100e-07	1.000000	1.33107e-07	0.999999
rad61	1.10538e-07	1.000000	1.10544e-07	0.999999
rad34	8.08230e-08	1.000000	8.08271e-08	0.999999
rad55	6.17683e-08	1.000000	6.17714e-08	0.999999
rad1	5.42119e-08	1.000000	5.42146e-08	0.999999
rad71	3.35115e-08	1.000000	3.35132e-08	1.000000
PAH8+H	3.20774e-08	1.000000	3.20791e-08	1.000000
rad36	3.04492e-08	1.000000	3.04507e-08	1.000000
rad62	2.54154e-08	1.000000	2.54167e-08	1.000000
rad65	2.43958e-08	1.000000	2.43970e-08	1.000000
rad41	2.38721e-08	1.000000	2.38733e-08	1.000000
rad73	2.36242e-08	1.000000	2.36254e-08	1.000000
rad11	2.01500e-08	1.000000	2.01510e-08	1.000000

rad7	1.57514e-08	1.00000	1.57522e-08	1.000000
rad56	1.51847e-08	1.00000	1.51855e-08	1.000000
rad53	1.48781e-08	1.00000	1.48788e-08	1.000000
rad28	1.31570e-08	1.00000	1.31577e-08	1.000000
rad19syn	1.28392e-08	1.00000	1.28398e-08	1.000000
rad21	1.12624e-08	1.00000	1.12630e-08	1.000000
rad10	1.09204e-08	1.00000	1.09210e-08	1.000000
rad26	9.63697e-09	1.00000	9.63744e-09	1.000000
rad8	8.50104e-09	1.00000	8.50145e-09	1.000000
rad22	8.22084e-09	1.00000	8.22124e-09	1.000000
rad13	6.63470e-09	1.00000	6.63503e-09	1.000000
rad68syn	6.06054e-09	1.00000	6.06084e-09	1.000000
rad64	5.72946e-09	1.00000	5.72974e-09	1.000000
rad40syn	4.83108e-09	1.00000	4.83132e-09	1.000000
rad68anti	3.94270e-09	1.00000	3.94289e-09	1.000000
rad20	3.90533e-09	1.00000	3.90553e-09	1.000000
rad40anti	3.86306e-09	1.00000	3.86325e-09	1.000000
rad3	1.94638e-09	1.00000	1.94648e-09	1.000000
rad42	1.73847e-09	1.00000	1.73856e-09	1.000000
rad4	1.54811e-09	1.00000	1.54818e-09	1.000000
rad72	1.15590e-09	1.00000	1.15596e-09	1.000000
rad33	9.25857e-10	1.00000	9.25904e-10	1.000000
rad24	8.84288e-10	1.00000	8.84336e-10	1.000000
rad18	6.99579e-10	1.00000	6.99614e-10	1.000000
rad25	1.04262e-10	1.00000	1.04267e-10	1.000000
rad27	6.32995e-11	1.00000	6.33027e-11	1.000000
rad31	2.58115e-11	1.00000	2.58128e-11	1.000000
rad47	9.56071e-12	1.00000	9.56118e-12	1.000000
rad14	8.54757e-12	1.00000	8.54797e-12	1.000000
rad5	1.58079e-13	1.00000	1.58086e-13	1.000000

1000.00000 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.72623e-12 (1.00)	3.72576e-12 (1.00)
Formation of rad19	2.86288e-12 (0.768)	2.86245e-12 (0.768)
H-abstraction to cyc2enyl	6.53266e-13 (0.175)	6.53266e-13 (0.175)
H-abstraction to cyc1enyl	2.10085e-13 (0.0564)	2.10053e-13 (0.0564)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.667237	0.667237	0.667321	0.667321
Benzene+cycloprop-2-enylidene	0.175315	0.842552	0.175337	0.842658
PhCHCCH2+H	0.0828094	0.925361	0.0828203	0.925478
Benzene+cycloprop-1-enylidene	0.0563801	0.981741	0.0563786	0.981857
rad9	0.00425067	0.985992	0.00425121	0.986108
Ph+MeAc	0.00276409	0.988756	0.00276444	0.988873
C2H2+PhCH2	0.00266232	0.991418	0.00266266	0.991535
Ph+Allene	0.00257716	0.993995	0.00257749	0.994113
PhCH2CCH+H	0.00153038	0.995526	0.00153057	0.995643
PhCCCH3+H	0.00117950	0.996705	0.00117965	0.996823
rad67	0.00100815	0.997714	0.00100828	0.997831
PhCCH+CH3	0.000765006	0.998479	0.000765102	0.998596
PhcycC3H3_A+H	0.000389676	0.998868	0.000389725	0.998986
rad35	0.000363451	0.999232	0.000363497	0.999350
PhcycC3H3_B+H	0.000311550	0.999543	0.000311589	0.999661
Phenyl+cycC3H4	0.000117531	0.999661	0.000000	0.999661
PAH10+CH3	8.39557e-05	0.999745	8.39665e-05	0.999745
PAH7+H	7.25448e-05	0.999817	7.25540e-05	0.999818
rad37	6.93463e-05	0.999887	6.93550e-05	0.999887
PAH9+H	2.24648e-05	0.999909	2.24676e-05	0.999910
rad38	1.90724e-05	0.999928	1.90748e-05	0.999929
PAH3+H	1.42622e-05	0.999942	1.42640e-05	0.999943
rad30	1.37793e-05	0.999956	1.37810e-05	0.999957
rad39	1.26760e-05	0.999969	1.26776e-05	0.999969
rad12	6.79437e-06	0.999976	6.79523e-06	0.999976
rad15	4.80408e-06	0.999980	4.80469e-06	0.999981
rad6	3.77568e-06	0.999984	3.77615e-06	0.999985
rad46	3.25687e-06	0.999987	3.25729e-06	0.999988
rad50	2.84745e-06	0.999990	2.84781e-06	0.999991
rad59	1.40226e-06	0.999992	1.40244e-06	0.999992
PAH1+H	1.39659e-06	0.999993	1.39677e-06	0.999994
rad60syn	1.24139e-06	0.999994	1.24154e-06	0.999995
rad54	1.10303e-06	0.999995	1.10317e-06	0.999996
rad51	8.28286e-07	0.999996	8.28395e-07	0.999997
rad60anti	7.68681e-07	0.999997	7.68776e-07	0.999998
rad23	4.31412e-07	0.999997	4.31466e-07	0.999998
rad43	4.08378e-07	0.999998	4.08429e-07	0.999998
rad70	3.67814e-07	0.999998	3.67860e-07	0.999999

rad45	3.03946e-07	0.999999	3.03984e-07	0.999999
rad52	2.45410e-07	0.999999	2.45441e-07	0.999999
rad19anti	1.99183e-07	0.999999	1.99208e-07	0.999999
rad2	1.53955e-07	0.999999	1.53975e-07	1.000000
rad58	1.36446e-07	0.999999	1.36463e-07	1.000000
rad61	1.11662e-07	0.999999	1.11676e-07	1.000000
rad34	8.85141e-08	0.999999	8.85255e-08	1.000000
rad55	7.55563e-08	1.000000	7.55659e-08	1.000000
rad11	5.12760e-08	1.000000	5.12825e-08	1.000000
rad1	4.19018e-08	1.000000	4.19071e-08	1.000000
rad62	3.05028e-08	1.000000	3.05066e-08	1.000000
rad71	2.95435e-08	1.000000	2.95472e-08	1.000000
PAH8+H	2.95021e-08	1.000000	2.95058e-08	1.000000
rad36	2.93681e-08	1.000000	2.93718e-08	1.000000
rad8	2.68638e-08	1.000000	2.68671e-08	1.000000
rad41	2.57866e-08	1.000000	2.57898e-08	1.000000
rad7	2.35395e-08	1.000000	2.35425e-08	1.000000
rad65	2.34096e-08	1.000000	2.34126e-08	1.000000
rad21	2.29738e-08	1.000000	2.29768e-08	1.000000
rad73	2.10093e-08	1.000000	2.10120e-08	1.000000
rad13	1.73554e-08	1.000000	1.73576e-08	1.000000
rad53	1.65799e-08	1.000000	1.65820e-08	1.000000
rad10	1.65180e-08	1.000000	1.65201e-08	1.000000
rad56	1.59966e-08	1.000000	1.59987e-08	1.000000
rad22	1.22192e-08	1.000000	1.22207e-08	1.000000
rad19syn	1.13955e-08	1.000000	1.13970e-08	1.000000
rad26	8.03324e-09	1.000000	8.03425e-09	1.000000
rad28	7.94757e-09	1.000000	7.94859e-09	1.000000
rad20	6.98590e-09	1.000000	6.98678e-09	1.000000
rad64	6.18926e-09	1.000000	6.19005e-09	1.000000
rad68syn	5.92258e-09	1.000000	5.92332e-09	1.000000
rad40syn	4.54309e-09	1.000000	4.54366e-09	1.000000
rad68anti	3.85812e-09	1.000000	3.85860e-09	1.000000
rad40anti	3.62044e-09	1.000000	3.62090e-09	1.000000
rad42	1.98664e-09	1.000000	1.98690e-09	1.000000
rad18	1.62848e-09	1.000000	1.62868e-09	1.000000
rad33	1.53550e-09	1.000000	1.53570e-09	1.000000
rad3	1.40578e-09	1.000000	1.40596e-09	1.000000
rad24	1.30532e-09	1.000000	1.30548e-09	1.000000
rad4	1.11830e-09	1.000000	1.11844e-09	1.000000
rad72	1.00985e-09	1.000000	1.00998e-09	1.000000
rad25	3.39619e-10	1.000000	3.39662e-10	1.000000
rad27	1.76856e-10	1.000000	1.76879e-10	1.000000
rad31	2.64689e-11	1.000000	2.64722e-11	1.000000
rad14	1.94279e-11	1.000000	1.94304e-11	1.000000
rad47	8.53095e-12	1.000000	8.53203e-12	1.000000
rad5	2.26289e-13	1.000000	2.26317e-13	1.000000

1000.00000 Pa, 1300.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.84401e-12 (1.00)	4.84262e-12 (1.00)
Formation of rad19	3.55537e-12 (0.734)	3.55411e-12 (0.734)
H-abstraction to cyc2enyl	9.48893e-13 (0.196)	9.48893e-13 (0.196)
H-abstraction to cyclenyl	3.39740e-13 (0.0701)	3.39620e-13 (0.0701)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.614711	0.614711	0.614886	0.614886
Benzene+cycloprop-2-enylidene	0.195890	0.810601	0.195946	0.810832
PhCHCCH2+H	0.0989169	0.909518	0.0989452	0.909778
Benzene+cycloprop-1-enylidene	0.0701362	0.979654	0.0701313	0.979909
Ph+MeAc	0.00334238	0.982997	0.00334333	0.983252
C2H2+PhCH2	0.00319102	0.986188	0.00319194	0.986444
Ph+Allene	0.00318685	0.989374	0.00318776	0.989632
rad9	0.00276654	0.992141	0.00276734	0.992399
PhCH2CCH+H	0.00192319	0.994064	0.00192374	0.994323
PhCCCH3+H	0.00140027	0.995465	0.00140068	0.995724
rad67	0.00123302	0.996698	0.00123337	0.996957
PhCCH+CH3	0.000882794	0.997580	0.000883048	0.997840
PhcycC3H3_A+H	0.000703376	0.998284	0.000703577	0.998544
PhcycC3H3_B+H	0.000595987	0.998880	0.000596158	0.999140
rad35	0.000443894	0.999324	0.000444021	0.999584
Phenyl+cycC3H4	0.000260520	0.999584	0.000000	0.999584
PAH10+CH3	0.000107436	0.999692	0.000107467	0.999691
rad37	8.70346e-05	0.999779	8.70601e-05	0.999778
PAH7+H	8.59351e-05	0.999865	8.59592e-05	0.999864
PAH9+H	2.76873e-05	0.999892	2.76952e-05	0.999892
rad38	2.39518e-05	0.999916	2.39587e-05	0.999916

PAH3+H	1.75134e-05	0.999934	1.75184e-05	0.999933
rad30	1.71046e-05	0.999951	1.71095e-05	0.999951
rad39	1.45542e-05	0.999965	1.45584e-05	0.999965
rad15	7.13245e-06	0.999972	7.13448e-06	0.999972
rad12	5.74419e-06	0.999978	5.74582e-06	0.999978
rad46	3.93199e-06	0.999982	3.93311e-06	0.999982
rad50	3.17184e-06	0.999985	3.17274e-06	0.999985
rad6	2.75565e-06	0.999988	2.75644e-06	0.999988
rad59	1.74149e-06	0.999990	1.74199e-06	0.999990
PAH1+H	1.71006e-06	0.999992	1.71055e-06	0.999991
rad60syn	1.55946e-06	0.999993	1.55990e-06	0.999993
rad54	1.43530e-06	0.999995	1.43571e-06	0.999994
rad60anti	9.65153e-07	0.999995	9.65431e-07	0.999995
rad51	8.59234e-07	0.999996	8.59482e-07	0.999996
rad43	5.16916e-07	0.999997	5.17063e-07	0.999997
rad70	4.60585e-07	0.999997	4.60717e-07	0.999997
rad23	4.15697e-07	0.999998	4.15816e-07	0.999998
rad45	2.86628e-07	0.999998	2.86711e-07	0.999998
rad52	2.64621e-07	0.999998	2.64697e-07	0.999998
rad58	1.57316e-07	0.999998	1.57360e-07	0.999998
rad19anti	1.52498e-07	0.999999	1.52541e-07	0.999998
rad11	1.32189e-07	0.999999	1.32226e-07	0.999999
rad61	1.28291e-07	0.999999	1.28327e-07	0.999999
rad2	1.17265e-07	0.999999	1.17298e-07	0.999999
rad34	1.08471e-07	0.999999	1.08502e-07	0.999999
rad55	9.87540e-08	0.999999	9.87823e-08	0.999999
rad7	4.68586e-08	0.999999	4.68720e-08	0.999999
rad8	4.58361e-08	0.999999	4.58492e-08	0.999999
rad62	3.83425e-08	0.999999	3.83535e-08	0.999999
rad21	3.28038e-08	0.999999	3.28132e-08	0.999999
rad10	3.23329e-08	0.999999	3.23421e-08	0.999999
rad1	3.21436e-08	0.999999	3.21528e-08	0.999999
rad41	3.13325e-08	0.999999	3.13414e-08	0.999999
PAH8+H	2.89752e-08	0.999999	2.89834e-08	0.999999
rad36	2.77780e-08	0.999999	2.77859e-08	0.999999
rad13	2.66817e-08	1.000000	2.66893e-08	0.999999
rad71	2.51313e-08	1.000000	2.51385e-08	0.999999
rad65	2.45905e-08	1.000000	2.45976e-08	0.999999
rad53	2.09516e-08	1.000000	2.09575e-08	0.999999
rad56	1.93604e-08	1.000000	1.93659e-08	0.999999
rad73	1.85236e-08	1.000000	1.85289e-08	0.999999
rad22	1.56115e-08	1.000000	1.56160e-08	0.999999
rad19syn	1.00706e-08	1.000000	1.00735e-08	0.999999
rad26	9.56698e-09	1.000000	9.56976e-09	0.999999
rad20	8.96960e-09	1.000000	8.97213e-09	1.000000
rad64	7.47332e-09	1.000000	7.47552e-09	1.000000
rad68syn	6.46358e-09	1.000000	6.46542e-09	1.000000
rad28	5.86927e-09	1.000000	5.87095e-09	1.000000
rad40syn	4.66561e-09	1.000000	4.66695e-09	1.000000
rad68anti	4.21850e-09	1.000000	4.21970e-09	1.000000
rad18	4.01685e-09	1.000000	4.01800e-09	1.000000
rad40anti	3.69516e-09	1.000000	3.69622e-09	1.000000
rad42	2.48396e-09	1.000000	2.48467e-09	1.000000
rad33	1.79919e-09	1.000000	1.79970e-09	1.000000
rad24	1.62125e-09	1.000000	1.62172e-09	1.000000
rad3	1.01591e-09	1.000000	1.01621e-09	1.000000
rad72	8.11019e-10	1.000000	8.11249e-10	1.000000
rad4	8.06329e-10	1.000000	8.06559e-10	1.000000
rad25	6.22683e-10	1.000000	6.22860e-10	1.000000
rad27	2.97598e-10	1.000000	2.97683e-10	1.000000
rad14	2.97503e-11	1.000000	2.97588e-11	1.000000
rad31	2.66661e-11	1.000000	2.66738e-11	1.000000
rad47	8.17926e-12	1.000000	8.18155e-12	1.000000
rad5	5.84126e-13	1.000000	5.84292e-13	1.000000

1000.00000 Pa, 1400.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.19360e-12 (1.00)	6.18997e-12 (1.00)
Formation of rad19	4.34185e-12 (0.701)	4.33861e-12 (0.701)
H-abstraction to cyc2enyl	1.32990e-12 (0.215)	1.32990e-12 (0.215)
H-abstraction to cyc1enyl	5.21850e-13 (0.0843)	5.21461e-13 (0.0842)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.558849	0.558849	0.559176	0.559176
Benzene+cycloprop-2-enylidene	0.214721	0.773570	0.214847	0.774023
PhCHCCH2+H	0.117977	0.891547	0.118046	0.892069
Benzene+cycloprop-1-enylidene	0.0842564	0.975804	0.0842429	0.976312

Ph+MeAc	0.00403923	0.979843	0.00404160	0.980354
Ph+Allene	0.00392899	0.983772	0.00393130	0.984285
C2H2+PhCH2	0.00384086	0.987613	0.00384312	0.988128
PhCH2CCH+H	0.00247070	0.990083	0.00247215	0.990600
rad9	0.00178298	0.991866	0.00178403	0.992384
PhCCH3+H	0.00164972	0.993516	0.00165068	0.994035
rad67	0.00151469	0.995031	0.00151558	0.995551
PhcycC3H3_A+H	0.00122392	0.996255	0.00122464	0.996775
PhcycC3H3_B+H	0.00111406	0.997369	0.00111472	0.997890
PhCCH+CH3	0.00103040	0.998399	0.00103100	0.998921
rad35	0.000545150	0.998944	0.000545470	0.999466
Phenyl+cycC3H4	0.000523354	0.999468	0.000000	0.999466
PAH10+CH3	0.000147428	0.999615	0.000147515	0.999614
rad37	0.000108818	0.999724	0.000108881	0.999723
PAH7+H	0.000101564	0.999825	0.000101624	0.999824
PAH9+H	3.72703e-05	0.999863	3.72923e-05	0.999862
rad38	3.21288e-05	0.999895	3.21476e-05	0.999894
PAH3+H	2.40752e-05	0.999919	2.40893e-05	0.999918
rad30	2.16152e-05	0.999940	2.16278e-05	0.999940
rad39	1.67274e-05	0.999957	1.67373e-05	0.999956
rad15	1.09613e-05	0.999968	1.09678e-05	0.999967
rad46	5.35688e-06	0.999974	5.36003e-06	0.999973
rad12	4.63532e-06	0.999978	4.63804e-06	0.999977
rad50	4.31513e-06	0.999982	4.31766e-06	0.999982
rad6	2.46449e-06	0.999985	2.46594e-06	0.999984
PAH1+H	2.38581e-06	0.999987	2.38722e-06	0.999986
rad59	2.37983e-06	0.999990	2.38123e-06	0.999989
rad60syn	2.08052e-06	0.999992	2.08174e-06	0.999991
rad54	1.90222e-06	0.999994	1.90333e-06	0.999993
rad60anti	1.29126e-06	0.999995	1.29202e-06	0.999994
rad51	1.13951e-06	0.999996	1.14018e-06	0.999995
rad43	6.97027e-07	0.999997	6.97436e-07	0.999996
rad70	6.32825e-07	0.999997	6.33196e-07	0.999997
rad23	4.31322e-07	0.999998	4.31574e-07	0.999997
rad52	3.56796e-07	0.999998	3.57005e-07	0.999997
rad45	2.64700e-07	0.999999	2.64855e-07	0.999998
rad11	2.33655e-07	0.999999	2.33792e-07	0.999998
rad58	2.18449e-07	0.999999	2.18577e-07	0.999998
rad61	1.80799e-07	0.999999	1.80905e-07	0.999998
rad34	1.50728e-07	0.999999	1.50816e-07	0.999998
rad55	1.33566e-07	0.999999	1.33644e-07	0.999998
rad19anti	1.18303e-07	1.000000	1.18372e-07	0.999999
rad2	8.85945e-08	1.000000	8.86469e-08	0.999999
rad7	8.74659e-08	1.000000	8.75170e-08	0.999999
rad10	6.26008e-08	1.000000	6.26375e-08	0.999999
rad8	5.81837e-08	1.000000	5.82178e-08	0.999999
rad62	4.97328e-08	1.000000	4.97619e-08	0.999999
rad41	4.37160e-08	1.000000	4.37416e-08	0.999999
rad21	3.89131e-08	1.000000	3.89359e-08	0.999999
PAH8+H	3.79566e-08	1.000000	3.79789e-08	0.999999
rad65	3.28701e-08	1.000000	3.28894e-08	0.999999
rad53	2.98685e-08	1.000000	2.98861e-08	0.999999
rad13	2.92950e-08	1.000000	2.93122e-08	0.999999
rad71	2.79767e-08	1.000000	2.79931e-08	0.999999
rad56	2.78530e-08	1.000000	2.78694e-08	0.999999
rad36	2.57793e-08	1.000000	2.57945e-08	0.999999
rad1	2.44968e-08	1.000000	2.45112e-08	0.999999
rad73	2.16073e-08	1.000000	2.16200e-08	0.999999
rad22	1.88486e-08	1.000000	1.88597e-08	0.999999
rad26	1.59296e-08	1.000000	1.59389e-08	0.999999
rad64	1.03621e-08	1.000000	1.03681e-08	0.999999
rad20	9.72402e-09	1.000000	9.72968e-09	0.999999
rad68syn	8.90950e-09	1.000000	8.91473e-09	0.999999
rad19syn	8.90593e-09	1.000000	8.91116e-09	0.999999
rad18	8.62559e-09	1.000000	8.63065e-09	0.999999
rad40syn	6.27380e-09	1.000000	6.27748e-09	0.999999
rad68anti	5.81834e-09	1.000000	5.82175e-09	0.999999
rad28	5.36630e-09	1.000000	5.36945e-09	0.999999
rad40anti	4.95292e-09	1.000000	4.95583e-09	0.999999
rad42	3.38319e-09	1.000000	3.38517e-09	0.999999
rad24	1.85667e-09	1.000000	1.85776e-09	0.999999
rad33	1.75753e-09	1.000000	1.75856e-09	0.999999
rad25	8.25881e-10	1.000000	8.26366e-10	0.999999
rad72	8.18156e-10	1.000000	8.18642e-10	0.999999
rad3	7.32870e-10	1.000000	7.33299e-10	0.999999
rad4	5.79305e-10	1.000000	5.79644e-10	0.999999
rad27	3.75492e-10	1.000000	3.75713e-10	0.999999
rad14	3.47624e-11	1.000000	3.47828e-11	0.999999
rad31	2.64009e-11	1.000000	2.64164e-11	0.999999
rad47	1.01645e-11	1.000000	1.01705e-11	0.999999

rad5 | 2.90642e-12 1.00000 | 2.90813e-12 0.999999

1000.00000 Pa, 1500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.80417e-12 (1.00)	7.79561e-12 (1.00)
Formation of rad19	5.22661e-12 (0.670)	5.21915e-12 (0.669)
H-abstraction to cyc2enyl	1.80920e-12 (0.232)	1.80920e-12 (0.232)
H-abstraction to cyclenyl	7.68359e-13 (0.0985)	7.67262e-13 (0.0984)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.501937	0.501937	0.502488	0.502488
Benzene+cycloprop-2-enylidene	0.231825	0.733761	0.232079	0.734567
PhCHCCH2+H	0.138244	0.872005	0.138395	0.872963
Benzene+cycloprop-1-enylidene	0.0984549	0.970460	0.0984223	0.971385
Ph+MeAc	0.00479174	0.975252	0.00479700	0.976182
Ph+Allene	0.00473437	0.979986	0.00473957	0.980922
C2H2+PhCH2	0.00455733	0.984543	0.00456233	0.985484
PhCH2CCH+H	0.00313491	0.987678	0.00313835	0.988622
PhcycC3H3_A+H	0.00200131	0.989680	0.00200351	0.990626
PhcycC3H3_B+H	0.00194650	0.991626	0.00194864	0.992574
PhCCCH3+H	0.00190299	0.993529	0.00190508	0.994479
rad67	0.00182834	0.995357	0.00183035	0.996310
PhCCH+CH3	0.00120007	0.996558	0.00120139	0.997511
rad9	0.00114397	0.997702	0.00114522	0.998656
Phenyl+cycC3H4	0.000956153	0.998658	0.000000	0.998656
rad35	0.000658504	0.999316	0.000659228	0.999316
PAH10+CH3	0.000202610	0.999519	0.000202833	0.999518
rad37	0.000132294	0.999651	0.000132439	0.999651
PAH7+H	0.000118411	0.999769	0.000118541	0.999769
PAH9+H	5.12927e-05	0.999821	5.13491e-05	0.999821
rad38	4.34022e-05	0.999864	4.34499e-05	0.999864
PAH3+H	3.41910e-05	0.999898	3.42286e-05	0.999898
rad30	2.69747e-05	0.999925	2.70043e-05	0.999925
rad39	1.91599e-05	0.999945	1.91809e-05	0.999945
rad15	1.40600e-05	0.999959	1.40754e-05	0.999959
rad46	7.60769e-06	0.999966	7.61608e-06	0.999966
rad50	6.51095e-06	0.999973	6.51810e-06	0.999973
rad12	3.65492e-06	0.999976	3.65894e-06	0.999977
PAH1+H	3.45918e-06	0.999980	3.46297e-06	0.999980
rad59	3.32609e-06	0.999983	3.32974e-06	0.999983
rad60syn	2.79020e-06	0.999986	2.79326e-06	0.999986
rad6	2.57970e-06	0.999988	2.58252e-06	0.999989
rad54	2.46694e-06	0.999991	2.46965e-06	0.999991
rad51	1.77174e-06	0.999993	1.77369e-06	0.999993
rad60anti	1.73922e-06	0.999994	1.74114e-06	0.999995
rad43	9.43294e-07	0.999995	9.44327e-07	0.999996
rad70	8.85638e-07	0.999996	8.86610e-07	0.999997
rad52	5.47010e-07	0.999997	5.47611e-07	0.999997
rad23	4.76886e-07	0.999997	4.77409e-07	0.999998
rad58	3.29050e-07	0.999998	3.29411e-07	0.999998
rad11	2.98676e-07	0.999998	2.99005e-07	0.999998
rad61	2.77464e-07	0.999998	2.77770e-07	0.999998
rad45	2.39778e-07	0.999998	2.40041e-07	0.999999
rad34	2.17350e-07	0.999999	2.17589e-07	0.999999
rad55	1.77807e-07	0.999999	1.78002e-07	0.999999
rad7	1.20982e-07	0.999999	1.21115e-07	0.999999
rad10	9.44707e-08	0.999999	9.45747e-08	0.999999
rad19anti	9.29706e-08	0.999999	9.30723e-08	0.999999
rad2	6.65368e-08	0.999999	6.66099e-08	0.999999
rad62	6.40886e-08	0.999999	6.41590e-08	1.000000
rad8	6.38629e-08	0.999999	6.39330e-08	1.000000
rad41	6.37125e-08	0.999999	6.37824e-08	1.000000
PAH8+H	6.12294e-08	0.999999	6.12966e-08	1.000000
rad65	5.10123e-08	1.000000	5.10683e-08	1.000000
rad71	4.41215e-08	1.000000	4.41700e-08	1.000000
rad53	4.36582e-08	1.000000	4.37061e-08	1.000000
rad56	4.24084e-08	1.000000	4.24549e-08	1.000000
rad21	4.16988e-08	1.000000	4.17446e-08	1.000000
rad73	3.43500e-08	1.000000	3.43876e-08	1.000000
rad26	3.31232e-08	1.000000	3.31595e-08	1.000000
rad13	2.67091e-08	1.000000	2.67384e-08	1.000000
rad36	2.34881e-08	1.000000	2.35139e-08	1.000000
rad22	2.17353e-08	1.000000	2.17592e-08	1.000000
rad1	1.85890e-08	1.000000	1.86094e-08	1.000000
rad64	1.50923e-08	1.000000	1.51089e-08	1.000000
rad68syn	1.38846e-08	1.000000	1.38998e-08	1.000000
rad18	1.33925e-08	1.000000	1.34072e-08	1.000000

rad40syn	1.00019e-08	1.000000	1.00129e-08	1.00000
rad20	9.59816e-09	1.000000	9.60871e-09	1.00000
rad68anti	9.05991e-09	1.000000	9.06983e-09	1.00000
rad40anti	7.91060e-09	1.000000	7.91930e-09	1.00000
rad19syn	7.89908e-09	1.000000	7.90771e-09	1.00000
rad28	5.91356e-09	1.000000	5.92006e-09	1.00000
rad42	4.69237e-09	1.000000	4.69753e-09	1.00000
rad24	2.02326e-09	1.000000	2.02548e-09	1.00000
rad33	1.55254e-09	1.000000	1.55424e-09	1.00000
rad72	1.24666e-09	1.000000	1.24803e-09	1.00000
rad25	9.14704e-10	1.000000	9.15706e-10	1.00000
rad3	5.28386e-10	1.000000	5.28966e-10	1.00000
rad4	4.15239e-10	1.000000	4.15695e-10	1.00000
rad27	4.02983e-10	1.000000	4.03426e-10	1.00000
rad14	3.47889e-11	1.000000	3.48270e-11	1.00000
rad31	2.56526e-11	1.000000	2.56808e-11	1.00000
rad5	1.98883e-11	1.000000	1.99101e-11	1.00000
rad47	1.51574e-11	1.000000	1.51740e-11	1.00000

100.000000 Pa, 20.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.24541e-22 (1.00)	1.24541e-22 (1.00)
Formation of rad19	1.24541e-22 (1.00)	1.24541e-22 (1.00)
H-abstraction to cyc2enyl	3.84323e-68 (3.09e-46)	3.84323e-68 (3.09e-46)
H-abstraction to cyclenyl	6.26313e-106 (5.03e-84)	6.26313e-106 (5.03e-84)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.852685	0.852685	0.852685	0.852685
Indene+H	0.145930	0.998615	0.145930	0.998615
rad15	0.00136693	0.999982	0.00136693	0.999982
PhCHCCH2+H	1.55690e-05	0.999997	1.55690e-05	0.999997
rad6	7.13859e-07	0.999998	7.13859e-07	0.999998
rad2	4.71132e-07	0.999999	4.71132e-07	0.999999
rad26	8.95959e-08	0.999999	8.95959e-08	0.999999
C2H2+PhCH2	6.43591e-08	0.999999	6.43591e-08	0.999999
rad10	5.31463e-08	0.999999	5.31463e-08	0.999999
rad23	5.25822e-08	0.999999	5.25822e-08	0.999999
rad1	2.98190e-08	0.999999	2.98190e-08	0.999999
rad67	2.94078e-08	0.999999	2.94078e-08	0.999999
PhCCH+CH3	2.05644e-08	0.999999	2.05644e-08	0.999999
PhCCCH3+H	1.47674e-08	0.999999	1.47674e-08	0.999999
rad35	1.32740e-08	0.999999	1.32740e-08	0.999999
Ph+MeAc	9.04190e-09	0.999999	9.04190e-09	0.999999
rad45	7.94158e-09	0.999999	7.94158e-09	0.999999
rad12	6.40673e-09	0.999999	6.40673e-09	0.999999
rad3	6.37510e-09	0.999999	6.37510e-09	0.999999
rad19anti	3.97847e-09	0.999999	3.97847e-09	0.999999
rad4	3.22233e-09	0.999999	3.22233e-09	0.999999
rad11	1.88109e-09	0.999999	1.88109e-09	0.999999
rad22	1.04937e-09	0.999999	1.04937e-09	0.999999
Ph+Allene	5.51929e-10	0.999999	5.51929e-10	0.999999
rad7	4.90394e-10	0.999999	4.90394e-10	0.999999
rad36	4.87237e-10	0.999999	4.87237e-10	0.999999
rad30	2.30399e-10	0.999999	2.30399e-10	0.999999
PhCH2CCH+H	9.06961e-11	0.999999	9.06961e-11	0.999999
rad28	2.96929e-11	0.999999	2.96929e-11	0.999999
rad5	2.58080e-11	0.999999	2.58080e-11	0.999999
rad37	7.88623e-12	0.999999	7.88623e-12	0.999999
rad13	2.14412e-12	0.999999	2.14412e-12	0.999999
rad18	1.70001e-12	0.999999	1.70001e-12	0.999999
rad14	1.68678e-12	0.999999	1.68678e-12	0.999999
rad27	1.55281e-12	0.999999	1.55281e-12	0.999999
rad60syn	8.56976e-13	0.999999	8.56976e-13	0.999999
PAH9+H	8.09741e-13	0.999999	8.09741e-13	0.999999
rad60anti	4.13506e-13	0.999999	4.13506e-13	0.999999
PhcycC3H3_A+H	3.99919e-13	0.999999	3.99919e-13	0.999999
rad38	3.83391e-13	0.999999	3.83391e-13	0.999999
PAH7+H	3.43580e-13	0.999999	3.43580e-13	0.999999
PAH3+H	2.96279e-13	0.999999	2.96279e-13	0.999999
rad20	8.37568e-14	0.999999	8.37568e-14	0.999999
rad59	6.25116e-14	0.999999	6.25116e-14	0.999999
rad21	5.40789e-14	0.999999	5.40789e-14	0.999999
rad25	3.34955e-14	0.999999	3.34955e-14	0.999999
rad46	2.16884e-14	0.999999	2.16884e-14	0.999999
rad39	5.57133e-15	0.999999	5.57133e-15	0.999999
PAH10+CH3	5.04864e-15	0.999999	5.04864e-15	0.999999
rad33	2.57759e-15	0.999999	2.57759e-15	0.999999

rad43	7.86204e-16	0.999999	7.86204e-16	0.999999
rad24	1.06276e-16	0.999999	1.06276e-16	0.999999
rad62	1.04668e-16	0.999999	1.04668e-16	0.999999
rad50	9.74924e-17	0.999999	9.74924e-17	0.999999
Phenyl+cycC3H4	2.77356e-17	0.999999	0.00000	0.999999
rad70	1.19865e-17	0.999999	1.19865e-17	0.999999
rad31	9.47153e-18	0.999999	9.47153e-18	0.999999
rad54	5.30317e-18	0.999999	5.30317e-18	0.999999
rad58	2.45938e-18	0.999999	2.45938e-18	0.999999
rad52	5.06909e-19	0.999999	5.06909e-19	0.999999
PAH1+H	1.43527e-19	0.999999	1.43527e-19	0.999999
rad51	1.03270e-19	0.999999	1.03270e-19	0.999999
rad34	9.66461e-20	0.999999	9.66461e-20	0.999999
rad55	2.81631e-20	0.999999	2.81631e-20	0.999999
rad41	4.72330e-21	0.999999	4.72330e-21	0.999999
rad42	2.98769e-21	0.999999	2.98769e-21	0.999999
rad65	1.27269e-21	0.999999	1.27269e-21	0.999999
PhcycC3H3_B+H	9.42898e-23	0.999999	9.42898e-23	0.999999
rad47	8.08270e-25	0.999999	8.08270e-25	0.999999
rad53	1.97995e-28	0.999999	1.97995e-28	0.999999
rad64	2.96138e-31	0.999999	2.96138e-31	0.999999
rad61	4.94947e-32	0.999999	4.94947e-32	0.999999
rad56	1.18873e-35	0.999999	1.18873e-35	0.999999
rad68syn	6.91638e-36	0.999999	6.91638e-36	0.999999
rad68anti	5.68420e-36	0.999999	5.68420e-36	0.999999
rad19syn	1.38057e-37	0.999999	1.38057e-37	0.999999
rad40syn	6.06217e-41	0.999999	6.06217e-41	0.999999
rad40anti	4.83378e-41	0.999999	4.83378e-41	0.999999
rad73	4.41926e-42	0.999999	4.41926e-42	0.999999
PAH8+H	4.34200e-44	0.999999	4.34200e-44	0.999999
Benzene+cycloprop-2-enylidene	3.08591e-46	0.999999	3.08591e-46	0.999999
rad71	4.93961e-48	0.999999	4.93961e-48	0.999999
rad8	1.33959e-49	0.999999	1.33959e-49	0.999999
Benzene+cycloprop-1-enylidene	5.02895e-84	0.999999	5.02895e-84	0.999999

100.000000 Pa, 30.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.13009e-20 (1.00)	8.13009e-20 (1.00)
Formation of rad19	8.13009e-20 (1.00)	8.13009e-20 (1.00)
H-abstraction to cyc2enyl	1.08880e-49 (1.34e-30)	1.08880e-49 (1.34e-30)
H-abstraction to cyc1enyl	7.55172e-75 (9.29e-56)	7.55172e-75 (9.29e-56)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.728058	0.728058	0.728058	0.728058
Indene+H	0.270875	0.998933	0.270875	0.998933
rad15	0.00103399	0.999967	0.00103399	0.999967
PhCHCCH2+H	2.99604e-05	0.999997	2.99604e-05	0.999997
rad6	1.40811e-06	0.999998	1.40811e-06	0.999998
rad2	7.90375e-07	0.999999	7.90375e-07	0.999999
rad26	1.68841e-07	0.999999	1.68841e-07	0.999999
C2H2+PhCH2	1.26227e-07	0.999999	1.26227e-07	0.999999
rad10	8.97811e-08	1.000000	8.97811e-08	1.000000
PhCCH+CH3	7.83618e-08	1.000000	7.83618e-08	1.000000
rad23	7.17562e-08	1.000000	7.17562e-08	1.000000
rad67	5.72747e-08	1.000000	5.72747e-08	1.000000
PhCCCH3+H	5.24617e-08	1.000000	5.24617e-08	1.000000
rad1	5.00014e-08	1.000000	5.00014e-08	1.000000
Ph+MeAc	3.24458e-08	1.000000	3.24458e-08	1.000000
rad35	2.58205e-08	1.000000	2.58205e-08	1.000000
rad3	1.03591e-08	1.000000	1.03591e-08	1.000000
rad45	8.68465e-09	1.000000	8.68465e-09	1.000000
rad4	5.23463e-09	1.000000	5.23463e-09	1.000000
rad12	4.63769e-09	1.000000	4.63769e-09	1.000000
rad19anti	2.38160e-09	1.000000	2.38160e-09	1.000000
Ph+Allene	1.14523e-09	1.000000	1.14523e-09	1.000000
rad7	8.05002e-10	1.000000	8.05002e-10	1.000000
rad11	7.97247e-10	1.000000	7.97247e-10	1.000000
rad36	5.32650e-10	1.000000	5.32650e-10	1.000000
rad30	4.49416e-10	1.000000	4.49416e-10	1.000000
rad22	3.98257e-10	1.000000	3.98257e-10	1.000000
PhCH2CCH+H	1.90018e-10	1.000000	1.90018e-10	1.000000
rad28	1.20086e-10	1.000000	1.20086e-10	1.000000
rad37	3.10401e-11	1.000000	3.10401e-11	1.000000
rad5	1.90260e-11	1.000000	1.90260e-11	1.000000
rad13	3.17587e-12	1.000000	3.17587e-12	1.000000
PAH9+H	3.01132e-12	1.000000	3.01132e-12	1.000000
rad14	2.30502e-12	1.000000	2.30502e-12	1.000000

rad27	2.03412e-12	1.000000	2.03412e-12	1.000000
rad60syn	1.69166e-12	1.000000	1.69166e-12	1.000000
rad38	1.26779e-12	1.000000	1.26779e-12	1.000000
PAH7+H	8.65169e-13	1.000000	8.65169e-13	1.000000
rad60anti	8.17042e-13	1.000000	8.17042e-13	1.000000
PAH3+H	5.91943e-13	1.000000	5.91943e-13	1.000000
PhcycC3H3_A+H	4.29025e-13	1.000000	4.29025e-13	1.000000
rad18	2.51536e-13	1.000000	2.51536e-13	1.000000
rad59	1.24700e-13	1.000000	1.24700e-13	1.000000
rad46	7.20568e-14	1.000000	7.20568e-14	1.000000
rad39	4.76636e-14	1.000000	4.76636e-14	1.000000
PAH10+CH3	2.03340e-14	1.000000	2.03340e-14	1.000000
rad20	1.40269e-14	1.000000	1.40269e-14	1.000000
rad25	1.14936e-14	1.000000	1.14936e-14	1.000000
rad21	8.94268e-15	1.000000	8.94268e-15	1.000000
rad33	3.72664e-15	1.000000	3.72664e-15	1.000000
rad43	2.92469e-15	1.000000	2.92469e-15	1.000000
rad62	4.43310e-16	1.000000	4.43310e-16	1.000000
rad50	3.35126e-16	1.000000	3.35126e-16	1.000000
rad24	9.59585e-17	1.000000	9.59585e-17	1.000000
Phenyl+cycC3H4	5.25634e-17	1.000000	0.000000	1.000000
rad70	2.69286e-17	1.000000	2.69286e-17	1.000000
rad54	2.38330e-17	1.000000	2.38330e-17	1.000000
rad31	1.58118e-17	1.000000	1.58118e-17	1.000000
rad58	5.08882e-18	1.000000	5.08882e-18	1.000000
rad52	1.77524e-18	1.000000	1.77524e-18	1.000000
PAH1+H	5.96660e-19	1.000000	5.96660e-19	1.000000
rad51	3.68249e-19	1.000000	3.68249e-19	1.000000
rad34	2.24774e-19	1.000000	2.24774e-19	1.000000
rad55	1.29198e-19	1.000000	1.29198e-19	1.000000
rad41	1.88805e-20	1.000000	1.88805e-20	1.000000
rad42	1.38454e-20	1.000000	1.38454e-20	1.000000
rad65	5.50047e-21	1.000000	5.50047e-21	1.000000
PhcycC3H3_B+H	1.84670e-22	1.000000	1.84670e-22	1.000000
rad47	1.16993e-24	1.000000	1.16993e-24	1.000000
rad53	9.89457e-28	1.000000	9.89457e-28	1.000000
rad64	2.75185e-30	1.000000	2.75185e-30	1.000000
Benzene+cycloprop-2-enylidene	1.33923e-30	1.000000	1.33923e-30	1.000000
rad61	2.03646e-31	1.000000	2.03646e-31	1.000000
rad56	5.41363e-35	1.000000	5.41363e-35	1.000000
rad68syn	1.45771e-35	1.000000	1.45771e-35	1.000000
rad68anti	1.19881e-35	1.000000	1.19881e-35	1.000000
rad19syn	8.40547e-38	1.000000	8.40547e-38	1.000000
rad40syn	1.21897e-40	1.000000	1.21897e-40	1.000000
rad40anti	9.73018e-41	1.000000	9.73018e-41	1.000000
rad73	1.12829e-41	1.000000	1.12829e-41	1.000000
PAH8+H	7.22376e-44	1.000000	7.22376e-44	1.000000
rad71	9.41551e-48	1.000000	9.41551e-48	1.000000
rad8	1.49564e-50	1.000000	1.49564e-50	1.000000
Benzene+cycloprop-1-enylidene	9.28861e-56	1.000000	9.28861e-56	1.000000

100.000000 Pa, 40.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.24819e-18 (1.00)	2.24819e-18 (1.00)
Formation of rad19	2.24819e-18 (1.00)	2.24819e-18 (1.00)
H-abstraction to cyc2enyl	1.72361e-40 (7.67e-23)	1.72361e-40 (7.67e-23)
H-abstraction to cyclenyl	2.48792e-59 (1.11e-41)	2.48792e-59 (1.11e-41)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.626285	0.626285	0.626285	0.626285
Indene+H	0.372835	0.999120	0.372835	0.999120
rad15	0.000833132	0.999953	0.000833132	0.999953
PhCHCCH2+H	4.29825e-05	0.999996	4.29825e-05	0.999996
rad6	2.05881e-06	0.999998	2.05881e-06	0.999998
rad2	9.98811e-07	0.999999	9.98811e-07	0.999999
rad26	2.36352e-07	0.999999	2.36352e-07	0.999999
C2H2+PhCH2	1.83497e-07	1.000000	1.83497e-07	1.000000
PhCCH+CH3	1.59798e-07	1.000000	1.59798e-07	1.000000
rad10	1.10745e-07	1.000000	1.10745e-07	1.000000
PhCCCH3+H	1.04853e-07	1.000000	1.04853e-07	1.000000
rad67	8.30963e-08	1.000000	8.30963e-08	1.000000
rad23	7.38557e-08	1.000000	7.38557e-08	1.000000
Ph+MeAc	6.54948e-08	1.000000	6.54948e-08	1.000000
rad1	6.32384e-08	1.000000	6.32384e-08	1.000000
rad35	3.74048e-08	1.000000	3.74048e-08	1.000000
rad3	1.27461e-08	1.000000	1.27461e-08	1.000000
rad45	7.94443e-09	1.000000	7.94443e-09	1.000000

rad4	6.44155e-09	1.00000	6.44155e-09	1.00000
rad12	3.72136e-09	1.00000	3.72136e-09	1.00000
Ph+Allene	1.72978e-09	1.00000	1.72978e-09	1.00000
rad19anti	1.71001e-09	1.00000	1.71001e-09	1.00000
rad7	1.06491e-09	1.00000	1.06491e-09	1.00000
rad11	6.70956e-10	1.00000	6.70956e-10	1.00000
rad30	6.51581e-10	1.00000	6.51581e-10	1.00000
rad36	4.87060e-10	1.00000	4.87060e-10	1.00000
PhCH2CCH+H	2.88762e-10	1.00000	2.88762e-10	1.00000
rad28	2.59780e-10	1.00000	2.59780e-10	1.00000
rad22	2.56675e-10	1.00000	2.56675e-10	1.00000
rad37	6.77015e-11	1.00000	6.77015e-11	1.00000
rad5	1.30634e-11	1.00000	1.30634e-11	1.00000
PAH9+H	5.92888e-12	1.00000	5.92888e-12	1.00000
rad13	4.01116e-12	1.00000	4.01116e-12	1.00000
rad14	2.58665e-12	1.00000	2.58665e-12	1.00000
rad60syn	2.48552e-12	1.00000	2.48552e-12	1.00000
rad38	2.41532e-12	1.00000	2.41532e-12	1.00000
rad27	2.25957e-12	1.00000	2.25957e-12	1.00000
PAH7+H	1.64835e-12	1.00000	1.64835e-12	1.00000
rad60anti	1.20179e-12	1.00000	1.20179e-12	1.00000
PAH3+H	8.82388e-13	1.00000	8.82388e-13	1.00000
PhcycC3H3_A+H	4.87148e-13	1.00000	4.87148e-13	1.00000
rad59	1.85525e-13	1.00000	1.85525e-13	1.00000
rad39	1.59715e-13	1.00000	1.59715e-13	1.00000
rad46	1.37877e-13	1.00000	1.37877e-13	1.00000
rad18	8.89576e-14	1.00000	8.89576e-14	1.00000
PAH10+CH3	4.60201e-14	1.00000	4.60201e-14	1.00000
rad25	8.32101e-15	1.00000	8.32101e-15	1.00000
rad20	6.57657e-15	1.00000	6.57657e-15	1.00000
rad43	6.18539e-15	1.00000	6.18539e-15	1.00000
rad33	4.65603e-15	1.00000	4.65603e-15	1.00000
rad21	4.16926e-15	1.00000	4.16926e-15	1.00000
rad62	9.82298e-16	1.00000	9.82298e-16	1.00000
rad50	6.63973e-16	1.00000	6.63973e-16	1.00000
Phenyl+cycC3H4	1.15738e-16	1.00000	0.00000	1.00000
rad24	8.05977e-17	1.00000	8.05977e-17	1.00000
rad54	5.66789e-17	1.00000	5.66789e-17	1.00000
rad70	4.33251e-17	1.00000	4.33251e-17	1.00000
rad31	2.00076e-17	1.00000	2.00076e-17	1.00000
rad58	7.95837e-18	1.00000	7.95837e-18	1.00000
rad52	3.59022e-18	1.00000	3.59022e-18	1.00000
PAH1+H	1.42778e-18	1.00000	1.42778e-18	1.00000
rad51	7.60823e-19	1.00000	7.60823e-19	1.00000
rad34	3.75858e-19	1.00000	3.75858e-19	1.00000
rad55	3.14638e-19	1.00000	3.14638e-19	1.00000
rad41	4.49406e-20	1.00000	4.49406e-20	1.00000
rad42	3.41905e-20	1.00000	3.41905e-20	1.00000
rad65	1.23030e-20	1.00000	1.23030e-20	1.00000
PhcycC3H3_B+H	3.98948e-22	1.00000	3.98948e-22	1.00000
Benzene+cycloprop-2-enylidene	7.66665e-23	1.00000	7.66665e-23	1.00000
rad47	1.41424e-24	1.00000	1.41424e-24	1.00000
rad53	3.26032e-27	1.00000	3.26032e-27	1.00000
rad64	1.27520e-29	1.00000	1.27520e-29	1.00000
rad61	6.17451e-31	1.00000	6.17451e-31	1.00000
rad56	1.82061e-34	1.00000	1.82061e-34	1.00000
rad68syn	3.29094e-35	1.00000	3.29094e-35	1.00000
rad68anti	2.70672e-35	1.00000	2.70672e-35	1.00000
rad19syn	8.62695e-38	1.00000	8.62695e-38	1.00000
rad40syn	2.58732e-40	1.00000	2.58732e-40	1.00000
rad40anti	2.06609e-40	1.00000	2.06609e-40	1.00000
rad73	2.67781e-41	1.00000	2.67781e-41	1.00000
Benzene+cycloprop-1-enylidene	1.10663e-41	1.00000	1.10663e-41	1.00000
PAH8+H	1.40036e-43	1.00000	1.40036e-43	1.00000
rad71	1.97139e-47	1.00000	1.97139e-47	1.00000
rad8	5.77732e-51	1.00000	5.77732e-51	1.00000

100.000000 Pa, 50.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.72707e-17 (1.00)	1.72707e-17 (1.00)
Formation of rad19	1.72707e-17 (1.00)	1.72707e-17 (1.00)
H-abstraction to cyc2enyl	5.49905e-35 (3.18e-18)	5.49905e-35 (3.18e-18)
H-abstraction to cyclenyl	4.93090e-50 (2.86e-33)	4.93090e-50 (2.86e-33)

species	PYtrue	Cumul	PYeffective	Cumul
rad9	0.541439	0.541439	0.541439	0.541439
Indene+H	0.457811	0.999250	0.457811	0.999250

rad15	0.000689185	0.999939	0.000689185	0.999939
PhCHCCH2+H	5.51549e-05	0.999994	5.51549e-05	0.999994
rad6	2.68293e-06	0.999997	2.68293e-06	0.999997
rad2	1.13298e-06	0.999998	1.13298e-06	0.999998
rad26	2.94807e-07	0.999998	2.94807e-07	0.999998
PhCCH+CH3	2.58365e-07	0.999999	2.58365e-07	0.999999
C2H2+PhCH2	2.38451e-07	0.999999	2.38451e-07	0.999999
PhCCCH3+H	1.68217e-07	0.999999	1.68217e-07	0.999999
rad10	1.23004e-07	0.999999	1.23004e-07	0.999999
rad67	1.07898e-07	0.999999	1.07898e-07	0.999999
Ph+MeAc	1.06188e-07	0.999999	1.06188e-07	0.999999
rad1	7.18378e-08	1.000000	7.18378e-08	1.000000
rad23	6.92410e-08	1.000000	6.92410e-08	1.000000
rad35	4.84868e-08	1.000000	4.84868e-08	1.000000
rad3	1.41638e-08	1.000000	1.41638e-08	1.000000
rad4	7.16003e-09	1.000000	7.16003e-09	1.000000
rad45	6.87883e-09	1.000000	6.87883e-09	1.000000
rad12	3.09599e-09	1.000000	3.09599e-09	1.000000
Ph+Allene	2.32959e-09	1.000000	2.32959e-09	1.000000
rad19anti	1.31571e-09	1.000000	1.31571e-09	1.000000
rad7	1.29719e-09	1.000000	1.29719e-09	1.000000
rad30	8.44981e-10	1.000000	8.44981e-10	1.000000
rad11	6.84758e-10	1.000000	6.84758e-10	1.000000
rad28	4.44436e-10	1.000000	4.44436e-10	1.000000
rad36	4.21544e-10	1.000000	4.21544e-10	1.000000
PhCH2CCH+H	3.91177e-10	1.000000	3.91177e-10	1.000000
rad22	1.94808e-10	1.000000	1.94808e-10	1.000000
rad37	1.17740e-10	1.000000	1.17740e-10	1.000000
PAH9+H	9.29414e-12	1.000000	9.29414e-12	1.000000
rad5	9.18172e-12	1.000000	9.18172e-12	1.000000
rad13	4.75095e-12	1.000000	4.75095e-12	1.000000
rad38	3.74597e-12	1.000000	3.74597e-12	1.000000
rad60syn	3.27114e-12	1.000000	3.27114e-12	1.000000
PAH7+H	2.83211e-12	1.000000	2.83211e-12	1.000000
rad14	2.70386e-12	1.000000	2.70386e-12	1.000000
rad27	2.35437e-12	1.000000	2.35437e-12	1.000000
rad60anti	1.58363e-12	1.000000	1.58363e-12	1.000000
PAH3+H	1.18057e-12	1.000000	1.18057e-12	1.000000
PhcycC3H3_A+H	5.70236e-13	1.000000	5.70236e-13	1.000000
rad39	3.76382e-13	1.000000	3.76382e-13	1.000000
rad59	2.47660e-13	1.000000	2.47660e-13	1.000000
rad46	2.14668e-13	1.000000	2.14668e-13	1.000000
PAH10+CH3	8.37606e-14	1.000000	8.37606e-14	1.000000
rad18	4.79010e-14	1.000000	4.79010e-14	1.000000
rad43	1.05827e-14	1.000000	1.05827e-14	1.000000
rad25	7.69284e-15	1.000000	7.69284e-15	1.000000
rad33	5.48232e-15	1.000000	5.48232e-15	1.000000
rad20	4.38792e-15	1.000000	4.38792e-15	1.000000
rad21	2.76975e-15	1.000000	2.76975e-15	1.000000
rad62	1.72426e-15	1.000000	1.72426e-15	1.000000
rad50	1.07175e-15	1.000000	1.07175e-15	1.000000
Phenyl+cycC3H4	2.36668e-16	1.000000	0.000000	1.000000
rad54	1.06812e-16	1.000000	1.06812e-16	1.000000
rad24	6.64280e-17	1.000000	6.64280e-17	1.000000
rad70	6.22509e-17	1.000000	6.22509e-17	1.000000
rad31	2.28400e-17	1.000000	2.28400e-17	1.000000
rad58	1.12712e-17	1.000000	1.12712e-17	1.000000
rad52	5.92573e-18	1.000000	5.92573e-18	1.000000
Benzene+cycloprop-2-enylidene	3.18404e-18	1.000000	3.18404e-18	1.000000
PAH1+H	2.78675e-18	1.000000	2.78675e-18	1.000000
rad51	1.28621e-18	1.000000	1.28621e-18	1.000000
rad55	6.09432e-19	1.000000	6.09432e-19	1.000000
rad34	5.63784e-19	1.000000	5.63784e-19	1.000000
rad41	8.88591e-20	1.000000	8.88591e-20	1.000000
rad42	6.79198e-20	1.000000	6.79198e-20	1.000000
rad65	2.18340e-20	1.000000	2.18340e-20	1.000000
PhcycC3H3_B+H	1.24453e-21	1.000000	1.24453e-21	1.000000
rad47	1.59432e-24	1.000000	1.59432e-24	1.000000
rad53	9.86115e-27	1.000000	9.86115e-27	1.000000
rad64	4.89300e-29	1.000000	4.89300e-29	1.000000
rad61	1.86183e-30	1.000000	1.86183e-30	1.000000
Benzene+cycloprop-1-enylidene	2.85507e-33	1.000000	2.85507e-33	1.000000
rad56	6.09961e-34	1.000000	6.09961e-34	1.000000
rad68syn	8.72159e-35	1.000000	8.72159e-35	1.000000
rad68anti	7.17129e-35	1.000000	7.17129e-35	1.000000
rad19syn	1.15850e-37	1.000000	1.15850e-37	1.000000
rad40syn	6.76772e-40	1.000000	6.76772e-40	1.000000
rad40anti	5.40433e-40	1.000000	5.40433e-40	1.000000
rad73	7.39092e-41	1.000000	7.39092e-41	1.000000
PAH8+H	3.54105e-43	1.000000	3.54105e-43	1.000000

rad71	5.35008e-47	1.000000	5.35008e-47	1.000000
rad8	3.47493e-51	1.000000	3.47493e-51	1.000000

100.000000 Pa, 60.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.93738e-17 (1.00)	6.93738e-17 (1.00)
Formation of rad19	6.93738e-17 (1.000)	6.93738e-17 (1.000)
H-abstraction to cyc2enyl	2.50609e-31 (3.61e-15)	2.50609e-31 (3.61e-15)
H-abstraction to cyclenyl	7.62015e-44 (1.10e-27)	7.62015e-44 (1.10e-27)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.529570	0.529570	0.529570	0.529570
rad9	0.469778	0.999348	0.469778	0.999348
rad15	0.000578603	0.999927	0.000578603	0.999927
PhCHCCH2+H	6.67385e-05	0.999993	6.67385e-05	0.999993
rad6	3.28766e-06	0.999997	3.28766e-06	0.999997
rad2	1.21406e-06	0.999998	1.21406e-06	0.999998
PhCCH+CH3	3.70052e-07	0.999998	3.70052e-07	0.999998
rad26	3.45468e-07	0.999999	3.45468e-07	0.999999
C2H2+PhCH2	2.92200e-07	0.999999	2.92200e-07	0.999999
PhCCCH3+H	2.40272e-07	0.999999	2.40272e-07	0.999999
Ph+MeAc	1.53343e-07	0.999999	1.53343e-07	0.999999
rad67	1.32167e-07	0.999999	1.32167e-07	0.999999
rad10	1.29594e-07	1.000000	1.29594e-07	1.000000
rad1	7.71265e-08	1.000000	7.71265e-08	1.000000
rad23	6.22295e-08	1.000000	6.22295e-08	1.000000
rad35	5.92869e-08	1.000000	5.92869e-08	1.000000
rad3	1.49289e-08	1.000000	1.49289e-08	1.000000
rad4	7.54980e-09	1.000000	7.54980e-09	1.000000
rad45	5.82585e-09	1.000000	5.82585e-09	1.000000
Ph+Allene	2.95733e-09	1.000000	2.95733e-09	1.000000
rad12	2.62336e-09	1.000000	2.62336e-09	1.000000
rad7	1.51155e-09	1.000000	1.51155e-09	1.000000
rad19anti	1.05002e-09	1.000000	1.05002e-09	1.000000
rad30	1.03351e-09	1.000000	1.03351e-09	1.000000
rad11	7.34694e-10	1.000000	7.34694e-10	1.000000
rad28	6.72164e-10	1.000000	6.72164e-10	1.000000
PhCH2CCH+H	4.99534e-10	1.000000	4.99534e-10	1.000000
rad36	3.56868e-10	1.000000	3.56868e-10	1.000000
rad37	1.81523e-10	1.000000	1.81523e-10	1.000000
rad22	1.57417e-10	1.000000	1.57417e-10	1.000000
PAH9+H	1.29865e-11	1.000000	1.29865e-11	1.000000
rad5	6.66139e-12	1.000000	6.66139e-12	1.000000
rad13	5.42993e-12	1.000000	5.42993e-12	1.000000
rad38	5.22673e-12	1.000000	5.22673e-12	1.000000
PAH7+H	4.56752e-12	1.000000	4.56752e-12	1.000000
rad60syn	4.06389e-12	1.000000	4.06389e-12	1.000000
rad14	2.72437e-12	1.000000	2.72437e-12	1.000000
rad27	2.37058e-12	1.000000	2.37058e-12	1.000000
rad60anti	1.97003e-12	1.000000	1.97003e-12	1.000000
PAH3+H	1.49286e-12	1.000000	1.49286e-12	1.000000
rad39	7.37556e-13	1.000000	7.37556e-13	1.000000
PhcycC3H3_A+H	6.78092e-13	1.000000	6.78092e-13	1.000000
rad59	3.12406e-13	1.000000	3.12406e-13	1.000000
rad46	3.00476e-13	1.000000	3.00476e-13	1.000000
PAH10+CH3	1.35881e-13	1.000000	1.35881e-13	1.000000
rad18	3.25799e-14	1.000000	3.25799e-14	1.000000
rad43	1.61951e-14	1.000000	1.61951e-14	1.000000
rad25	7.73283e-15	1.000000	7.73283e-15	1.000000
rad33	6.24488e-15	1.000000	6.24488e-15	1.000000
Benzene+cycloprop-2-enylidene	3.61245e-15	1.000000	3.61245e-15	1.000000
rad20	3.37805e-15	1.000000	3.37805e-15	1.000000
rad62	2.68407e-15	1.000000	2.68407e-15	1.000000
rad21	2.12473e-15	1.000000	2.12473e-15	1.000000
rad50	1.55586e-15	1.000000	1.55586e-15	1.000000
Phenyl+cycC3H4	4.45921e-16	1.000000	0.000000	1.000000
rad54	1.78443e-16	1.000000	1.78443e-16	1.000000
rad70	8.45239e-17	1.000000	8.45239e-17	1.000000
rad24	5.44900e-17	1.000000	5.44900e-17	1.000000
rad31	2.47273e-17	1.000000	2.47273e-17	1.000000
rad58	1.51694e-17	1.000000	1.51694e-17	1.000000
rad52	8.80461e-18	1.000000	8.80461e-18	1.000000
PAH1+H	4.88964e-18	1.000000	4.88964e-18	1.000000
rad51	1.96047e-18	1.000000	1.96047e-18	1.000000
rad55	1.04923e-18	1.000000	1.04923e-18	1.000000
rad34	8.01373e-19	1.000000	8.01373e-19	1.000000
rad41	1.59332e-19	1.000000	1.59332e-19	1.000000

rad42	1.20713e-19	1.000000	1.20713e-19	1.000000
rad65	3.44897e-20	1.000000	3.44897e-20	1.000000
PhcycC3H3_B+H	1.70315e-20	1.000000	1.70315e-20	1.000000
rad47	1.73255e-24	1.000000	1.73255e-24	1.000000
rad53	2.99093e-26	1.000000	2.99093e-26	1.000000
Benzene+cycloprop-1-enylidene	1.09842e-27	1.000000	1.09842e-27	1.000000
rad64	1.78796e-28	1.000000	1.78796e-28	1.000000
rad61	6.03390e-30	1.000000	6.03390e-30	1.000000
rad56	2.19100e-33	1.000000	2.19100e-33	1.000000
rad68syn	2.72242e-34	1.000000	2.72242e-34	1.000000
rad68anti	2.23730e-34	1.000000	2.23730e-34	1.000000
rad19syn	1.80678e-37	1.000000	1.80678e-37	1.000000
rad40syn	2.18873e-39	1.000000	2.18873e-39	1.000000
rad40anti	1.74738e-39	1.000000	1.74738e-39	1.000000
rad73	2.43903e-40	1.000000	2.43903e-40	1.000000
PAH8+H	1.15013e-42	1.000000	1.15013e-42	1.000000
rad71	1.85750e-46	1.000000	1.85750e-46	1.000000
rad8	2.62186e-51	1.000000	2.62186e-51	1.000000

100.000000 Pa, 70.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.91520e-16 (1.00)	1.91520e-16 (1.00)
Formation of rad19	1.91520e-16 (1.000)	1.91520e-16 (1.000)
H-abstraction to cyc2enyl	1.01125e-28 (5.28e-13)	1.01125e-28 (5.28e-13)
H-abstraction to cyclenyl	1.97822e-39 (1.03e-23)	1.97822e-39 (1.03e-23)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.590757	0.590757	0.590757	0.590757
rad9	0.408668	0.999425	0.408668	0.999425
rad15	0.000490379	0.999915	0.000490379	0.999915
PhCHCCH2+H	7.79138e-05	0.999993	7.79138e-05	0.999993
rad6	3.87809e-06	0.999997	3.87809e-06	0.999997
rad2	1.25625e-06	0.999998	1.25625e-06	0.999998
PhCCH+CH3	4.92312e-07	0.999999	4.92312e-07	0.999999
rad26	3.89181e-07	0.999999	3.89181e-07	0.999999
C2H2+PhCH2	3.45545e-07	1.000000	3.45545e-07	1.000000
PhCCCH3+H	3.19605e-07	1.000000	3.19605e-07	1.000000
Ph+MeAc	2.06286e-07	1.000000	2.06286e-07	1.000000
rad67	1.56250e-07	1.000000	1.56250e-07	1.000000
rad10	1.32263e-07	1.000000	1.32263e-07	1.000000
rad1	7.99883e-08	1.000000	7.99883e-08	1.000000
rad35	6.99606e-08	1.000000	6.99606e-08	1.000000
rad23	5.47347e-08	1.000000	5.47347e-08	1.000000
rad3	1.52374e-08	1.000000	1.52374e-08	1.000000
rad4	7.70966e-09	1.000000	7.70966e-09	1.000000
rad45	4.88867e-09	1.000000	4.88867e-09	1.000000
Ph+Allene	3.62405e-09	1.000000	3.62405e-09	1.000000
rad12	2.24740e-09	1.000000	2.24740e-09	1.000000
rad7	1.71334e-09	1.000000	1.71334e-09	1.000000
rad30	1.21995e-09	1.000000	1.21995e-09	1.000000
rad28	9.42748e-10	1.000000	9.42748e-10	1.000000
rad19anti	8.57082e-10	1.000000	8.57082e-10	1.000000
rad11	7.96078e-10	1.000000	7.96078e-10	1.000000
PhCH2CCH+H	6.15871e-10	1.000000	6.15871e-10	1.000000
rad36	2.99363e-10	1.000000	2.99363e-10	1.000000
rad37	2.59838e-10	1.000000	2.59838e-10	1.000000
rad22	1.31109e-10	1.000000	1.31109e-10	1.000000
PAH9+H	1.69581e-11	1.000000	1.69581e-11	1.000000
PAH7+H	7.03688e-12	1.000000	7.03688e-12	1.000000
rad38	6.84929e-12	1.000000	6.84929e-12	1.000000
rad13	6.06696e-12	1.000000	6.06696e-12	1.000000
rad5	4.97253e-12	1.000000	4.97253e-12	1.000000
rad60syn	4.87552e-12	1.000000	4.87552e-12	1.000000
rad14	2.68429e-12	1.000000	2.68429e-12	1.000000
rad60anti	2.36677e-12	1.000000	2.36677e-12	1.000000
rad27	2.33667e-12	1.000000	2.33667e-12	1.000000
PAH3+H	1.82474e-12	1.000000	1.82474e-12	1.000000
rad39	1.29206e-12	1.000000	1.29206e-12	1.000000
PhcycC3H3_A+H	8.14906e-13	1.000000	8.14906e-13	1.000000
Benzene+cycloprop-2-enylidene	5.28015e-13	1.000000	5.28015e-13	1.000000
rad46	3.94700e-13	1.000000	3.94700e-13	1.000000
rad59	3.80859e-13	1.000000	3.80859e-13	1.000000
PAH10+CH3	2.05547e-13	1.000000	2.05547e-13	1.000000
rad18	2.52722e-14	1.000000	2.52722e-14	1.000000
rad43	2.31590e-14	1.000000	2.31590e-14	1.000000
rad25	8.00635e-15	1.000000	8.00635e-15	1.000000
rad33	6.96486e-15	1.000000	6.96486e-15	1.000000

rad62	3.88715e-15	1.00000	3.88715e-15	1.00000
rad20	2.78961e-15	1.00000	2.78961e-15	1.00000
rad50	2.12013e-15	1.00000	2.12013e-15	1.00000
rad21	1.74949e-15	1.00000	1.74949e-15	1.00000
Phenyl+cycC3H4	7.87808e-16	1.00000	0.00000	1.00000
rad54	2.77412e-16	1.00000	2.77412e-16	1.00000
rad70	1.11098e-16	1.00000	1.11098e-16	1.00000
rad24	4.47291e-17	1.00000	4.47291e-17	1.00000
rad31	2.59341e-17	1.00000	2.59341e-17	1.00000
rad58	1.98170e-17	1.00000	1.98170e-17	1.00000
rad52	1.22890e-17	1.00000	1.22890e-17	1.00000
PAH1+H	8.05254e-18	1.00000	8.05254e-18	1.00000
rad51	2.81045e-18	1.00000	2.81045e-18	1.00000
rad55	1.68485e-18	1.00000	1.68485e-18	1.00000
rad34	1.10527e-18	1.00000	1.10527e-18	1.00000
rad41	2.69195e-19	1.00000	2.69195e-19	1.00000
PhcycC3H3_B+H	2.42388e-19	1.00000	2.42388e-19	1.00000
rad42	2.00781e-19	1.00000	2.00781e-19	1.00000
rad65	5.09088e-20	1.00000	5.09088e-20	1.00000
Benzene+cycloprop-1-enylidene	1.03290e-23	1.00000	1.03290e-23	1.00000
rad47	1.84213e-24	1.00000	1.84213e-24	1.00000
rad53	9.49740e-26	1.00000	9.49740e-26	1.00000
rad64	6.68474e-28	1.00000	6.68474e-28	1.00000
rad61	2.22913e-29	1.00000	2.22913e-29	1.00000
rad56	8.92712e-33	1.00000	8.92712e-33	1.00000
rad68syn	1.02748e-33	1.00000	1.02748e-33	1.00000
rad68anti	8.43787e-34	1.00000	8.43787e-34	1.00000
rad19syn	3.07897e-37	1.00000	3.07897e-37	1.00000
rad40syn	8.93270e-39	1.00000	8.93270e-39	1.00000
rad40anti	7.12860e-39	1.00000	7.12860e-39	1.00000
rad73	9.92137e-40	1.00000	9.92137e-40	1.00000
PAH8+H	4.84384e-42	1.00000	4.84384e-42	1.00000
rad71	8.29627e-46	1.00000	8.29627e-46	1.00000
rad8	2.26917e-51	1.00000	2.26917e-51	1.00000

100.000000 Pa, 80.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.17084e-16 (1.00)	4.17084e-16 (1.00)
Formation of rad19	4.17084e-16 (1.000)	4.17084e-16 (1.000)
H-abstraction to cyc2enyl	8.98751e-27 (2.15e-11)	8.98751e-27 (2.15e-11)
H-abstraction to cyc1enyl	4.00120e-36 (9.59e-21)	4.00120e-36 (9.59e-21)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.643325	0.643325	0.643325	0.643325
rad9	0.356159	0.999484	0.356159	0.999484
rad15	0.000418288	0.999902	0.000418288	0.999902
PhCHCCH2+H	8.88249e-05	0.999991	8.88249e-05	0.999991
rad6	4.45863e-06	0.999996	4.45863e-06	0.999996
rad2	1.26959e-06	0.999997	1.26959e-06	0.999997
PhCCH+CH3	6.23562e-07	0.999997	6.23562e-07	0.999997
rad26	4.26581e-07	0.999998	4.26581e-07	0.999998
PhCCH3+H	4.05388e-07	0.999998	4.05388e-07	0.999998
C2H2+PhCH2	3.99169e-07	0.999999	3.99169e-07	0.999999
Ph+MeAc	2.64694e-07	0.999999	2.64694e-07	0.999999
rad67	1.80442e-07	0.999999	1.80442e-07	0.999999
rad10	1.32148e-07	0.999999	1.32148e-07	0.999999
rad1	8.10473e-08	0.999999	8.10473e-08	0.999999
rad35	8.06385e-08	0.999999	8.06385e-08	0.999999
rad23	4.75949e-08	0.999999	4.75949e-08	0.999999
rad3	1.52207e-08	0.999999	1.52207e-08	0.999999
rad4	7.70576e-09	1.000000	7.70576e-09	1.000000
Ph+Allene	4.34132e-09	1.000000	4.34132e-09	1.000000
rad45	4.08938e-09	1.000000	4.08938e-09	1.000000
rad12	1.93910e-09	1.000000	1.93910e-09	1.000000
rad7	1.90623e-09	1.000000	1.90623e-09	1.000000
rad30	1.40663e-09	1.000000	1.40663e-09	1.000000
rad28	1.25733e-09	1.000000	1.25733e-09	1.000000
rad11	8.61295e-10	1.000000	8.61295e-10	1.000000
PhCH2CCH+H	7.42384e-10	1.000000	7.42384e-10	1.000000
rad19anti	7.10284e-10	1.000000	7.10284e-10	1.000000
rad37	3.53898e-10	1.000000	3.53898e-10	1.000000
rad36	2.50367e-10	1.000000	2.50367e-10	1.000000
rad22	1.11245e-10	1.000000	1.11245e-10	1.000000
Benzene+cycloprop-2-enylidene	2.15484e-11	1.000000	2.15484e-11	1.000000
PAH9+H	2.12028e-11	1.000000	2.12028e-11	1.000000
PAH7+H	1.04707e-11	1.000000	1.04707e-11	1.000000
rad38	8.62072e-12	1.000000	8.62072e-12	1.000000

rad13	6.67470e-12	1.000000	6.67470e-12	1.000000
rad60syn	5.71703e-12	1.000000	5.71703e-12	1.000000
rad5	3.80111e-12	1.000000	3.80111e-12	1.000000
rad60anti	2.77931e-12	1.000000	2.77931e-12	1.000000
rad14	2.60538e-12	1.000000	2.60538e-12	1.000000
rad27	2.27013e-12	1.000000	2.27013e-12	1.000000
PAH3+H	2.18191e-12	1.000000	2.18191e-12	1.000000
rad39	2.10202e-12	1.000000	2.10202e-12	1.000000
PhcycC3H3_A+H	9.87646e-13	1.000000	9.87646e-13	1.000000
rad46	4.97597e-13	1.000000	4.97597e-13	1.000000
rad59	4.54150e-13	1.000000	4.54150e-13	1.000000
PAH10+CH3	2.97016e-13	1.000000	2.97016e-13	1.000000
rad43	3.16728e-14	1.000000	3.16728e-14	1.000000
rad18	2.11443e-14	1.000000	2.11443e-14	1.000000
rad25	8.37602e-15	1.000000	8.37602e-15	1.000000
rad33	7.65640e-15	1.000000	7.65640e-15	1.000000
rad62	5.37002e-15	1.000000	5.37002e-15	1.000000
rad50	2.77370e-15	1.000000	2.77370e-15	1.000000
rad20	2.39982e-15	1.000000	2.39982e-15	1.000000
rad21	1.50143e-15	1.000000	1.50143e-15	1.000000
Phenyl+cycC3H4	1.32430e-15	1.000000	0.000000	1.000000
rad54	4.11789e-16	1.000000	4.11789e-16	1.000000
rad70	1.43191e-16	1.000000	1.43191e-16	1.000000
rad24	3.68345e-17	1.000000	3.68345e-17	1.000000
rad31	2.66408e-17	1.000000	2.66408e-17	1.000000
rad58	2.54223e-17	1.000000	2.54223e-17	1.000000
rad52	1.64795e-17	1.000000	1.64795e-17	1.000000
PAH1+H	1.27407e-17	1.000000	1.27407e-17	1.000000
rad51	3.87547e-18	1.000000	3.87547e-18	1.000000
rad55	2.58910e-18	1.000000	2.58910e-18	1.000000
PhcycC3H3_B+H	1.95629e-18	1.000000	1.95629e-18	1.000000
rad34	1.49823e-18	1.000000	1.49823e-18	1.000000
rad41	4.37468e-19	1.000000	4.37468e-19	1.000000
rad42	3.19992e-19	1.000000	3.19992e-19	1.000000
rad65	7.20208e-20	1.000000	7.20208e-20	1.000000
Benzene+cycloprop-1-enylidene	9.59328e-21	1.000000	9.59328e-21	1.000000
rad47	1.93187e-24	1.000000	1.93187e-24	1.000000
rad53	3.15998e-25	1.000000	3.15998e-25	1.000000
rad64	2.65984e-27	1.000000	2.65984e-27	1.000000
rad61	1.01756e-28	1.000000	1.01756e-28	1.000000
rad56	4.47386e-32	1.000000	4.47386e-32	1.000000
rad68syn	5.07524e-33	1.000000	5.07524e-33	1.000000
rad68anti	4.16439e-33	1.000000	4.16439e-33	1.000000
rad19syn	5.56894e-37	1.000000	5.56894e-37	1.000000
rad40syn	4.96375e-38	1.000000	4.96375e-38	1.000000
rad40anti	3.95934e-38	1.000000	3.95934e-38	1.000000
rad73	5.38713e-39	1.000000	5.38713e-39	1.000000
PAH8+H	2.83616e-41	1.000000	2.83616e-41	1.000000
rad71	5.09062e-45	1.000000	5.09062e-45	1.000000
rad8	2.15340e-51	1.000000	2.15340e-51	1.000000

100.000000 Pa, 90.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.74016e-16 (1.00)	7.74016e-16 (1.00)
Formation of rad19	7.74016e-16 (1.000)	7.74016e-16 (1.000)
H-abstraction to cyc2enyl	2.91736e-25 (3.77e-10)	2.91736e-25 (3.77e-10)
H-abstraction to cyclenyl	1.47814e-33 (1.91e-18)	1.47814e-33 (1.91e-18)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.688759	0.688759	0.688759	0.688759
rad9	0.310773	0.999532	0.310773	0.999532
rad15	0.000358404	0.999890	0.000358404	0.999890
PhCHCCH2+H	9.95910e-05	0.999990	9.95910e-05	0.999990
rad6	5.03315e-06	0.999995	5.03315e-06	0.999995
rad2	1.26139e-06	0.999996	1.26139e-06	0.999996
PhCCH+CH3	7.62838e-07	0.999997	7.62838e-07	0.999997
PhCCCH3+H	4.97177e-07	0.999998	4.97177e-07	0.999998
rad26	4.58151e-07	0.999998	4.58151e-07	0.999998
C2H2+PhCH2	4.53688e-07	0.999998	4.53688e-07	0.999998
Ph+MeAc	3.28489e-07	0.999999	3.28489e-07	0.999999
rad67	2.05002e-07	0.999999	2.05002e-07	0.999999
rad10	1.30033e-07	0.999999	1.30033e-07	0.999999
rad35	9.14353e-08	0.999999	9.14353e-08	0.999999
rad1	8.07573e-08	0.999999	8.07573e-08	0.999999
rad23	4.11449e-08	0.999999	4.11449e-08	0.999999
rad3	1.49705e-08	0.999999	1.49705e-08	0.999999
rad4	7.58426e-09	0.999999	7.58426e-09	0.999999

Ph+Allene	5.12186e-09	0.999999	5.12186e-09	0.999999
rad45	3.42112e-09	0.999999	3.42112e-09	0.999999
rad7	2.09290e-09	0.999999	2.09290e-09	0.999999
rad12	1.68123e-09	0.999999	1.68123e-09	0.999999
rad28	1.61812e-09	0.999999	1.61812e-09	0.999999
rad30	1.59560e-09	0.999999	1.59560e-09	0.999999
rad11	9.27724e-10	0.999999	9.27724e-10	0.999999
PhCH2CCH+H	8.81528e-10	0.999999	8.81528e-10	0.999999
rad19anti	5.95008e-10	0.999999	5.95008e-10	0.999999
rad37	4.65314e-10	0.999999	4.65314e-10	0.999999
Benzene+cycloprop-2-enylidene	3.76912e-10	0.999999	3.76912e-10	0.999999
rad36	2.09444e-10	0.999999	2.09444e-10	0.999999
rad22	9.57255e-11	0.999999	9.57255e-11	0.999999
PAH9+H	2.57392e-11	0.999999	2.57392e-11	0.999999
PAH7+H	1.51666e-11	0.999999	1.51666e-11	0.999999
rad38	1.05584e-11	0.999999	1.05584e-11	0.999999
rad13	7.26235e-12	0.999999	7.26235e-12	0.999999
rad60syn	6.59924e-12	0.999999	6.59924e-12	0.999999
rad39	3.24810e-12	0.999999	3.24810e-12	0.999999
rad60anti	3.21303e-12	0.999999	3.21303e-12	0.999999
rad5	2.96273e-12	0.999999	2.96273e-12	0.999999
PAH3+H	2.57060e-12	0.999999	2.57060e-12	0.999999
rad14	2.50155e-12	0.999999	2.50155e-12	0.999999
rad27	2.18230e-12	0.999999	2.18230e-12	0.999999
PhcycC3H3_A+H	1.20588e-12	0.999999	1.20588e-12	0.999999
rad46	6.09992e-13	0.999999	6.09992e-13	0.999999
rad59	5.33491e-13	0.999999	5.33491e-13	0.999999
PAH10+CH3	4.15921e-13	0.999999	4.15921e-13	0.999999
rad43	4.19995e-14	0.999999	4.19995e-14	0.999999
rad18	1.85168e-14	0.999999	1.85168e-14	0.999999
rad25	8.79041e-15	0.999999	8.79041e-15	0.999999
rad33	8.32980e-15	0.999999	8.32980e-15	0.999999
rad62	7.18094e-15	0.999999	7.18094e-15	0.999999
rad50	3.53038e-15	0.999999	3.53038e-15	0.999999
Phenyl+cycC3H4	2.14283e-15	0.999999	0.000000	0.999999
rad20	2.12143e-15	0.999999	2.12143e-15	0.999999
rad21	1.32463e-15	0.999999	1.32463e-15	0.999999
rad54	5.92699e-16	0.999999	5.92699e-16	0.999999
rad70	1.82380e-16	0.999999	1.82380e-16	0.999999
rad58	3.22529e-17	0.999999	3.22529e-17	0.999999
rad24	3.04688e-17	0.999999	3.04688e-17	0.999999
rad31	2.69749e-17	0.999999	2.69749e-17	0.999999
rad52	2.15174e-17	0.999999	2.15174e-17	0.999999
PAH1+H	1.96402e-17	0.999999	1.96402e-17	0.999999
PhcycC3H3_B+H	1.03222e-17	0.999999	1.03222e-17	0.999999
rad51	5.20984e-18	0.999999	5.20984e-18	0.999999
rad55	3.86660e-18	0.999999	3.86660e-18	0.999999
rad34	2.01155e-18	0.999999	2.01155e-18	0.999999
Benzene+cycloprop-1-enylidene	1.90970e-18	0.999999	1.90970e-18	0.999999
rad41	6.92339e-19	0.999999	6.92339e-19	0.999999
rad42	4.95453e-19	0.999999	4.95453e-19	0.999999
rad65	9.91172e-20	0.999999	9.91172e-20	0.999999
rad47	2.00807e-24	0.999999	2.00807e-24	0.999999
rad53	1.05789e-24	0.999999	1.05789e-24	0.999999
rad64	1.12253e-26	0.999999	1.12253e-26	0.999999
rad61	6.27840e-28	0.999999	6.27840e-28	0.999999
rad56	3.09241e-31	0.999999	3.09241e-31	0.999999
rad68syn	3.89605e-32	0.999999	3.89605e-32	0.999999
rad68anti	3.19244e-32	0.999999	3.19244e-32	0.999999
rad19syn	1.05592e-36	0.999999	1.05592e-36	0.999999
rad40syn	4.55667e-37	0.999999	4.55667e-37	0.999999
rad40anti	3.63261e-37	0.999999	3.63261e-37	0.999999
rad73	4.71850e-38	0.999999	4.71850e-38	0.999999
PAH8+H	2.80226e-40	0.999999	2.80226e-40	0.999999
rad71	5.16879e-44	0.999999	5.16879e-44	0.999999
rad8	2.18404e-51	0.999999	2.18404e-51	0.999999

100.000000 Pa, 100.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.28255e-15 (1.00)	1.28255e-15 (1.00)
Formation of rad19	1.28255e-15 (1.000)	1.28255e-15 (1.000)
H-abstraction to cyc2enyl	4.68359e-24 (3.65e-09)	4.68359e-24 (3.65e-09)
H-abstraction to cyclenyl	1.66242e-31 (1.30e-16)	1.66242e-31 (1.30e-16)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.728211	0.728211	0.728211	0.728211
rad9	0.271360	0.999571	0.271360	0.999571

rad15	0.000308065	0.999879	0.000308065	0.999879
PhCCCH2+H	0.000110315	0.999989	0.000110315	0.999989
rad6	5.60517e-06	0.999995	5.60517e-06	0.999995
rad2	1.23712e-06	0.999996	1.23712e-06	0.999996
PhCCH+CH3	9.09602e-07	0.999997	9.09602e-07	0.999997
PhCCCH3+H	5.94795e-07	0.999998	5.94795e-07	0.999998
C2H2+PhCH2	5.09685e-07	0.999998	5.09685e-07	0.999998
rad26	4.84260e-07	0.999999	4.84260e-07	0.999999
Ph+MeAc	3.97776e-07	0.999999	3.97776e-07	0.999999
rad67	2.30175e-07	0.999999	2.30175e-07	0.999999
rad10	1.26477e-07	0.999999	1.26477e-07	0.999999
rad35	1.02457e-07	1.000000	1.02457e-07	1.000000
rad1	7.94572e-08	1.000000	7.94572e-08	1.000000
rad23	3.54821e-08	1.000000	3.54821e-08	1.000000
rad3	1.45529e-08	1.000000	1.45529e-08	1.000000
rad4	7.37837e-09	1.000000	7.37837e-09	1.000000
Ph+Allene	5.98014e-09	1.000000	5.98014e-09	1.000000
Benzene+cycloprop-2-enylidene	3.65179e-09	1.000000	3.65179e-09	1.000000
rad45	2.86787e-09	1.000000	2.86787e-09	1.000000
rad7	2.27545e-09	1.000000	2.27545e-09	1.000000
rad28	2.02824e-09	1.000000	2.02824e-09	1.000000
rad30	1.78880e-09	1.000000	1.78880e-09	1.000000
rad12	1.46258e-09	1.000000	1.46258e-09	1.000000
PhCH2CCH+H	1.03615e-09	1.000000	1.03615e-09	1.000000
rad11	9.94508e-10	1.000000	9.94508e-10	1.000000
rad37	5.96114e-10	1.000000	5.96114e-10	1.000000
rad19anti	5.02419e-10	1.000000	5.02419e-10	1.000000
rad36	1.75594e-10	1.000000	1.75594e-10	1.000000
rad22	8.33854e-11	1.000000	8.33854e-11	1.000000
PAH9+H	3.06033e-11	1.000000	3.06033e-11	1.000000
PAH7+H	2.15147e-11	1.000000	2.15147e-11	1.000000
rad38	1.26883e-11	1.000000	1.26883e-11	1.000000
rad13	7.83705e-12	1.000000	7.83705e-12	1.000000
rad60syn	7.53332e-12	1.000000	7.53332e-12	1.000000
rad39	4.83653e-12	1.000000	4.83653e-12	1.000000
rad60anti	3.67357e-12	1.000000	3.67357e-12	1.000000
PAH3+H	2.99782e-12	1.000000	2.99782e-12	1.000000
rad14	2.38213e-12	1.000000	2.38213e-12	1.000000
rad5	2.34622e-12	1.000000	2.34622e-12	1.000000
rad27	2.08087e-12	1.000000	2.08087e-12	1.000000
PhcycC3H3_A+H	1.48254e-12	1.000000	1.48254e-12	1.000000
rad46	7.33176e-13	1.000000	7.33176e-13	1.000000
rad59	6.20238e-13	1.000000	6.20238e-13	1.000000
PAH10+CH3	5.69704e-13	1.000000	5.69704e-13	1.000000
rad43	5.44785e-14	1.000000	5.44785e-14	1.000000
rad18	1.66969e-14	1.000000	1.66969e-14	1.000000
rad62	9.38186e-15	1.000000	9.38186e-15	1.000000
rad25	9.22857e-15	1.000000	9.22857e-15	1.000000
rad33	8.99307e-15	1.000000	8.99307e-15	1.000000
rad50	4.40901e-15	1.000000	4.40901e-15	1.000000
Phenyl+cycC3H4	3.36905e-15	1.000000	0.000000	1.000000
rad20	1.91301e-15	1.000000	1.91301e-15	1.000000
rad21	1.19253e-15	1.000000	1.19253e-15	1.000000
rad54	8.35556e-16	1.000000	8.35556e-16	1.000000
rad70	2.30744e-16	1.000000	2.30744e-16	1.000000
Benzene+cycloprop-1-enylidene	1.29619e-16	1.000000	1.29619e-16	1.000000
rad58	4.06580e-17	1.000000	4.06580e-17	1.000000
PhcycC3H3_B+H	4.05378e-17	1.000000	4.05378e-17	1.000000
PAH1+H	2.97692e-17	1.000000	2.97692e-17	1.000000
rad52	2.75931e-17	1.000000	2.75931e-17	1.000000
rad31	2.70304e-17	1.000000	2.70304e-17	1.000000
rad24	2.53347e-17	1.000000	2.53347e-17	1.000000
rad51	6.88751e-18	1.000000	6.88751e-18	1.000000
rad55	5.66924e-18	1.000000	5.66924e-18	1.000000
rad34	2.68899e-18	1.000000	2.68899e-18	1.000000
rad41	1.07577e-18	1.000000	1.07577e-18	1.000000
rad42	7.51885e-19	1.000000	7.51885e-19	1.000000
rad65	1.33978e-19	1.000000	1.33978e-19	1.000000
rad53	3.40773e-24	1.000000	3.40773e-24	1.000000
rad47	2.07551e-24	1.000000	2.07551e-24	1.000000
rad64	4.80926e-26	1.000000	4.80926e-26	1.000000
rad61	4.97682e-27	1.000000	4.97682e-27	1.000000
rad56	2.99588e-30	1.000000	2.99588e-30	1.000000
rad68syn	4.97217e-31	1.000000	4.97217e-31	1.000000
rad68anti	4.05913e-31	1.000000	4.05913e-31	1.000000
rad40syn	9.77356e-36	1.000000	9.77356e-36	1.000000
rad40anti	7.76144e-36	1.000000	7.76144e-36	1.000000
rad19syn	2.09016e-36	1.000000	2.09016e-36	1.000000
rad73	8.63143e-37	1.000000	8.63143e-37	1.000000
PAH8+H	6.61537e-39	1.000000	6.61537e-39	1.000000

rad71	1.21303e-42	1.000000	1.21303e-42	1.000000
rad8	2.33047e-51	1.000000	2.33047e-51	1.000000

100.000000 Pa, 110.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.95524e-15 (1.00)	1.95524e-15 (1.00)
Formation of rad19	1.95524e-15 (1.000)	1.95524e-15 (1.000)
H-abstraction to cyc2enyl	4.50936e-23 (2.31e-08)	4.50936e-23 (2.31e-08)
H-abstraction to cyclenyl	7.87782e-30 (4.03e-15)	7.87782e-30 (4.03e-15)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.762593	0.762593	0.762593	0.762593
rad9	0.237009	0.999602	0.237009	0.999602
rad15	0.000265374	0.999867	0.000265374	0.999867
PhCHCCH2+H	0.000121090	0.999988	0.000121090	0.999988
rad6	6.17803e-06	0.999995	6.17803e-06	0.999995
rad2	1.20095e-06	0.999996	1.20095e-06	0.999996
PhCCH+CH3	1.06365e-06	0.999997	1.06365e-06	0.999997
PhCCCH3+H	6.98288e-07	0.999998	6.98288e-07	0.999998
C2H2+PhCH2	5.67748e-07	0.999998	5.67748e-07	0.999998
rad26	5.05200e-07	0.999999	5.05200e-07	0.999999
Ph+MeAc	4.72820e-07	0.999999	4.72820e-07	0.999999
rad67	2.56202e-07	0.999999	2.56202e-07	0.999999
rad10	1.21897e-07	1.000000	1.21897e-07	1.000000
rad35	1.13806e-07	1.000000	1.13806e-07	1.000000
rad1	7.74050e-08	1.000000	7.74050e-08	1.000000
rad23	3.05933e-08	1.000000	3.05933e-08	1.000000
Benzene+cycloprop-2-enylidene	2.30629e-08	1.000000	2.30629e-08	1.000000
rad3	1.40166e-08	1.000000	1.40166e-08	1.000000
rad4	7.11263e-09	1.000000	7.11263e-09	1.000000
Ph+Allene	6.93334e-09	1.000000	6.93334e-09	1.000000
rad28	2.49170e-09	1.000000	2.49170e-09	1.000000
rad7	2.45563e-09	1.000000	2.45563e-09	1.000000
rad45	2.41205e-09	1.000000	2.41205e-09	1.000000
rad30	1.98811e-09	1.000000	1.98811e-09	1.000000
rad12	1.27532e-09	1.000000	1.27532e-09	1.000000
PhCH2CCH+H	1.20968e-09	1.000000	1.20968e-09	1.000000
rad11	1.06149e-09	1.000000	1.06149e-09	1.000000
rad37	7.48798e-10	1.000000	7.48798e-10	1.000000
rad19anti	4.26794e-10	1.000000	4.26794e-10	1.000000
rad36	1.47729e-10	1.000000	1.47729e-10	1.000000
rad22	7.34813e-11	1.000000	7.34813e-11	1.000000
PAH9+H	3.58468e-11	1.000000	3.58468e-11	1.000000
PAH7+H	3.00336e-11	1.000000	3.00336e-11	1.000000
rad38	1.50448e-11	1.000000	1.50448e-11	1.000000
rad60syn	8.53143e-12	1.000000	8.53143e-12	1.000000
rad13	8.40477e-12	1.000000	8.40477e-12	1.000000
rad39	7.00906e-12	1.000000	7.00906e-12	1.000000
rad60anti	4.16710e-12	1.000000	4.16710e-12	1.000000
PAH3+H	3.47182e-12	1.000000	3.47182e-12	1.000000
rad14	2.25357e-12	1.000000	2.25357e-12	1.000000
rad27	1.97124e-12	1.000000	1.97124e-12	1.000000
rad5	1.88227e-12	1.000000	1.88227e-12	1.000000
PhcycC3H3_A+H	1.83516e-12	1.000000	1.83516e-12	1.000000
rad46	8.68896e-13	1.000000	8.68896e-13	1.000000
PAH10+CH3	7.68242e-13	1.000000	7.68242e-13	1.000000
rad59	7.15965e-13	1.000000	7.15965e-13	1.000000
rad43	6.95436e-14	1.000000	6.95436e-14	1.000000
rad18	1.53591e-14	1.000000	1.53591e-14	1.000000
rad62	1.20519e-14	1.000000	1.20519e-14	1.000000
rad25	9.68206e-15	1.000000	9.68206e-15	1.000000
rad33	9.65296e-15	1.000000	9.65296e-15	1.000000
rad50	5.43453e-15	1.000000	5.43453e-15	1.000000
Phenyl+cycC3H4	5.18629e-15	1.000000	0.000000	1.000000
Benzene+cycloprop-1-enylidene	4.02908e-15	1.000000	4.02908e-15	1.000000
rad20	1.75211e-15	1.000000	1.75211e-15	1.000000
rad54	1.16197e-15	1.000000	1.16197e-15	1.000000
rad21	1.09075e-15	1.000000	1.09075e-15	1.000000
rad70	2.91075e-16	1.000000	2.91075e-16	1.000000
PhcycC3H3_B+H	1.29136e-16	1.000000	1.29136e-16	1.000000
rad58	5.11017e-17	1.000000	5.11017e-17	1.000000
PAH1+H	4.46519e-17	1.000000	4.46519e-17	1.000000
rad52	3.49602e-17	1.000000	3.49602e-17	1.000000
rad31	2.68781e-17	1.000000	2.68781e-17	1.000000
rad24	2.11865e-17	1.000000	2.11865e-17	1.000000
rad51	9.00958e-18	1.000000	9.00958e-18	1.000000
rad55	8.22048e-18	1.000000	8.22048e-18	1.000000

rad34	3.59275e-18	1.000000	3.59275e-18	1.000000
rad41	1.65053e-18	1.000000	1.65053e-18	1.000000
rad42	1.12517e-18	1.000000	1.12517e-18	1.000000
rad65	1.79066e-19	1.000000	1.79066e-19	1.000000
rad53	1.03280e-23	1.000000	1.03280e-23	1.000000
rad47	2.13811e-24	1.000000	2.13811e-24	1.000000
rad64	1.99228e-25	1.000000	1.99228e-25	1.000000
rad61	4.07953e-26	1.000000	4.07953e-26	1.000000
rad56	3.27505e-29	1.000000	3.27505e-29	1.000000
rad68syn	7.33363e-30	1.000000	7.33363e-30	1.000000
rad68anti	5.95382e-30	1.000000	5.95382e-30	1.000000
rad40syn	3.91141e-34	1.000000	3.91141e-34	1.000000
rad40anti	3.10658e-34	1.000000	3.10658e-34	1.000000
rad73	2.42339e-35	1.000000	2.42339e-35	1.000000
rad19syn	4.31767e-36	1.000000	4.31767e-36	1.000000
PAH8+H	3.76511e-37	1.000000	3.76511e-37	1.000000
rad71	6.77966e-41	1.000000	6.77966e-41	1.000000
rad8	2.58960e-51	1.000000	2.58960e-51	1.000000

100.000000 Pa, 120.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.79817e-15 (1.00)	2.79817e-15 (1.00)
Formation of rad19	2.79817e-15 (1.000)	2.79817e-15 (1.000)
H-abstraction to cyc2enyl	2.96039e-22 (1.06e-07)	2.96039e-22 (1.06e-07)
H-abstraction to cyc1enyl	1.95323e-28 (6.98e-14)	1.95323e-28 (6.98e-14)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.792642	0.792642	0.792642	0.792642
rad9	0.206985	0.999627	0.206985	0.999627
rad15	0.000228923	0.999856	0.000228923	0.999856
PhCHCCH2+H	0.000132005	0.999988	0.000132005	0.999988
rad6	6.75501e-06	0.999995	6.75501e-06	0.999995
PhCCH+CH3	1.22504e-06	0.999996	1.22504e-06	0.999996
rad2	1.15608e-06	0.999997	1.15608e-06	0.999997
PhCCCH3+H	8.07890e-07	0.999998	8.07890e-07	0.999998
C2H2+PhCH2	6.28502e-07	0.999998	6.28502e-07	0.999998
Ph+MeAc	5.54040e-07	0.999999	5.54040e-07	0.999999
rad26	5.21213e-07	0.999999	5.21213e-07	0.999999
rad67	2.83335e-07	1.000000	2.83335e-07	1.000000
rad35	1.25591e-07	1.000000	1.25591e-07	1.000000
rad10	1.16602e-07	1.000000	1.16602e-07	1.000000
Benzene+cycloprop-2-enylidene	1.05797e-07	1.000000	1.05797e-07	1.000000
rad1	7.48004e-08	1.000000	7.48004e-08	1.000000
rad23	2.64175e-08	1.000000	2.64175e-08	1.000000
rad3	1.33985e-08	1.000000	1.33985e-08	1.000000
Ph+Allene	8.00234e-09	1.000000	8.00234e-09	1.000000
rad4	6.80552e-09	1.000000	6.80552e-09	1.000000
rad28	3.01340e-09	1.000000	3.01340e-09	1.000000
rad7	2.63503e-09	1.000000	2.63503e-09	1.000000
rad30	2.19549e-09	1.000000	2.19549e-09	1.000000
rad45	2.03738e-09	1.000000	2.03738e-09	1.000000
PhCH2CCH+H	1.40630e-09	1.000000	1.40630e-09	1.000000
rad11	1.12885e-09	1.000000	1.12885e-09	1.000000
rad12	1.11377e-09	1.000000	1.11377e-09	1.000000
rad37	9.26415e-10	1.000000	9.26415e-10	1.000000
rad19anti	3.64230e-10	1.000000	3.64230e-10	1.000000
rad36	1.24843e-10	1.000000	1.24843e-10	1.000000
rad22	6.54942e-11	1.000000	6.54942e-11	1.000000
PAH9+H	4.15364e-11	1.000000	4.15364e-11	1.000000
PAH7+H	4.14201e-11	1.000000	4.14201e-11	1.000000
rad38	1.76721e-11	1.000000	1.76721e-11	1.000000
rad39	9.95679e-12	1.000000	9.95679e-12	1.000000
rad60syn	9.60733e-12	1.000000	9.60733e-12	1.000000
rad13	8.97073e-12	1.000000	8.97073e-12	1.000000
rad60anti	4.70064e-12	1.000000	4.70064e-12	1.000000
PAH3+H	4.00250e-12	1.000000	4.00250e-12	1.000000
PhcycC3H3_A+H	2.28762e-12	1.000000	2.28762e-12	1.000000
rad14	2.12042e-12	1.000000	2.12042e-12	1.000000
rad27	1.85726e-12	1.000000	1.85726e-12	1.000000
rad5	1.52621e-12	1.000000	1.52621e-12	1.000000
PAH10+CH3	1.02470e-12	1.000000	1.02470e-12	1.000000
rad46	1.01941e-12	1.000000	1.01941e-12	1.000000
rad59	8.22552e-13	1.000000	8.22552e-13	1.000000
rad43	8.77496e-14	1.000000	8.77496e-14	1.000000
Benzene+cycloprop-1-enylidene	6.98038e-14	1.000000	6.98038e-14	1.000000
rad62	1.52916e-14	1.000000	1.52916e-14	1.000000
rad18	1.43344e-14	1.000000	1.43344e-14	1.000000

rad33	1.03155e-14	1.00000	1.03155e-14	1.00000
rad25	1.01482e-14	1.00000	1.01482e-14	1.00000
Phenyl+cycC3H4	7.86467e-15	1.00000	0.00000	1.00000
rad50	6.63956e-15	1.00000	6.63956e-15	1.00000
rad20	1.62536e-15	1.00000	1.62536e-15	1.00000
rad54	1.60260e-15	1.00000	1.60260e-15	1.00000
rad21	1.01071e-15	1.00000	1.01071e-15	1.00000
rad70	3.67178e-16	1.00000	3.67178e-16	1.00000
PhcycC3H3_B+H	3.53272e-16	1.00000	3.53272e-16	1.00000
PAH1+H	6.65850e-17	1.00000	6.65850e-17	1.00000
rad58	6.42082e-17	1.00000	6.42082e-17	1.00000
rad52	4.39582e-17	1.00000	4.39582e-17	1.00000
rad31	2.65731e-17	1.00000	2.65731e-17	1.00000
rad24	1.78276e-17	1.00000	1.78276e-17	1.00000
rad55	1.18535e-17	1.00000	1.18535e-17	1.00000
rad51	1.17152e-17	1.00000	1.17152e-17	1.00000
rad34	4.81242e-18	1.00000	4.81242e-18	1.00000
rad41	2.51082e-18	1.00000	2.51082e-18	1.00000
rad42	1.66755e-18	1.00000	1.66755e-18	1.00000
rad65	2.37821e-19	1.00000	2.37821e-19	1.00000
rad53	2.93717e-23	1.00000	2.93717e-23	1.00000
rad47	2.19923e-24	1.00000	2.19923e-24	1.00000
rad64	7.75708e-25	1.00000	7.75708e-25	1.00000
rad61	2.94186e-25	1.00000	2.94186e-25	1.00000
rad56	3.22935e-28	1.00000	3.22935e-28	1.00000
rad68syn	8.99389e-29	1.00000	8.99389e-29	1.00000
rad68anti	7.26095e-29	1.00000	7.26095e-29	1.00000
rad40syn	1.33847e-32	1.00000	1.33847e-32	1.00000
rad40anti	1.06833e-32	1.00000	1.06833e-32	1.00000
rad73	6.02851e-34	1.00000	6.02851e-34	1.00000
PAH8+H	3.62073e-35	1.00000	3.62073e-35	1.00000
rad19syn	9.31861e-36	1.00000	9.31861e-36	1.00000
rad71	7.51585e-39	1.00000	7.51585e-39	1.00000
rad8	2.97594e-51	1.00000	2.97594e-51	1.00000

100.000000 Pa, 130.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.81236e-15 (1.00)	3.81236e-15 (1.00)
Formation of rad19	3.81236e-15 (1.000)	3.81236e-15 (1.000)
H-abstraction to cyc2enyl	1.44825e-21 (3.80e-07)	1.44825e-21 (3.80e-07)
H-abstraction to cyc1enyl	2.94348e-27 (7.72e-13)	2.94348e-27 (7.72e-13)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.818961	0.818961	0.818961	0.818961
rad9	0.180685	0.999646	0.180685	0.999646
rad15	0.000197637	0.999843	0.000197637	0.999843
PhCHCCH2+H	0.000143151	0.999986	0.000143151	0.999986
rad6	7.33947e-06	0.999994	7.33947e-06	0.999994
PhCCH+CH3	1.39408e-06	0.999995	1.39408e-06	0.999995
rad2	1.10506e-06	0.999996	1.10506e-06	0.999996
PhCCCH3+H	9.24013e-07	0.999997	9.24013e-07	0.999997
C2H2+PhCH2	6.92627e-07	0.999998	6.92627e-07	0.999998
Ph+MeAc	6.42014e-07	0.999999	6.42014e-07	0.999999
rad26	5.32507e-07	0.999999	5.32507e-07	0.999999
Benzene+cycloprop-2-enylidene	3.79882e-07	0.999999	3.79882e-07	0.999999
rad67	3.11843e-07	1.000000	3.11843e-07	1.000000
rad35	1.37923e-07	1.000000	1.37923e-07	1.000000
rad10	1.10832e-07	1.000000	1.10832e-07	1.000000
rad1	7.17997e-08	1.000000	7.17997e-08	1.000000
rad23	2.28762e-08	1.000000	2.28762e-08	1.000000
rad3	1.27264e-08	1.000000	1.27264e-08	1.000000
Ph+Allene	9.21291e-09	1.000000	9.21291e-09	1.000000
rad4	6.47108e-09	1.000000	6.47108e-09	1.000000
rad28	3.59911e-09	1.000000	3.59911e-09	1.000000
rad7	2.81508e-09	1.000000	2.81508e-09	1.000000
rad30	2.41307e-09	1.000000	2.41307e-09	1.000000
rad45	1.72974e-09	1.000000	1.72974e-09	1.000000
PhCH2CCH+H	1.63126e-09	1.000000	1.63126e-09	1.000000
rad11	1.19688e-09	1.000000	1.19688e-09	1.000000
rad37	1.13266e-09	1.000000	1.13266e-09	1.000000
rad12	9.73599e-10	1.000000	9.73599e-10	1.000000
rad19anti	3.11950e-10	1.000000	3.11950e-10	1.000000
rad36	1.06066e-10	1.000000	1.06066e-10	1.000000
rad22	5.90419e-11	1.000000	5.90419e-11	1.000000
PAH7+H	5.66187e-11	1.000000	5.66187e-11	1.000000
PAH9+H	4.77560e-11	1.000000	4.77560e-11	1.000000
rad38	2.06258e-11	1.000000	2.06258e-11	1.000000

rad39	1.39394e-11	1.00000	1.39394e-11	1.00000
rad60syn	1.07769e-11	1.00000	1.07769e-11	1.00000
rad13	9.53978e-12	1.00000	9.53978e-12	1.00000
rad60anti	5.28232e-12	1.00000	5.28232e-12	1.00000
PAH3+H	4.60192e-12	1.00000	4.60192e-12	1.00000
PhcycC3H3_A+H	2.87248e-12	1.00000	2.87248e-12	1.00000
rad14	1.98595e-12	1.00000	1.98595e-12	1.00000
rad27	1.74172e-12	1.00000	1.74172e-12	1.00000
PAH10+CH3	1.35667e-12	1.00000	1.35667e-12	1.00000
rad5	1.24836e-12	1.00000	1.24836e-12	1.00000
rad46	1.18757e-12	1.00000	1.18757e-12	1.00000
rad59	9.42270e-13	1.00000	9.42270e-13	1.00000
Benzene+cycloprop-1-enylidene	7.72089e-13	1.00000	7.72089e-13	1.00000
rad43	1.09805e-13	1.00000	1.09805e-13	1.00000
rad62	1.92294e-14	1.00000	1.92294e-14	1.00000
rad18	1.35270e-14	1.00000	1.35270e-14	1.00000
Phenyl+cycC3H4	1.18041e-14	1.00000	0.00000	1.00000
rad33	1.09864e-14	1.00000	1.09864e-14	1.00000
rad25	1.06270e-14	1.00000	1.06270e-14	1.00000
rad50	8.06669e-15	1.00000	8.06669e-15	1.00000
rad54	2.20137e-15	1.00000	2.20137e-15	1.00000
rad20	1.52422e-15	1.00000	1.52422e-15	1.00000
rad21	9.46952e-16	1.00000	9.46952e-16	1.00000
PhcycC3H3_B+H	8.62831e-16	1.00000	8.62831e-16	1.00000
rad70	4.64291e-16	1.00000	4.64291e-16	1.00000
PAH1+H	9.90448e-17	1.00000	9.90448e-17	1.00000
rad58	8.08238e-17	1.00000	8.08238e-17	1.00000
rad52	5.50417e-17	1.00000	5.50417e-17	1.00000
rad31	2.61587e-17	1.00000	2.61587e-17	1.00000
rad55	1.70710e-17	1.00000	1.70710e-17	1.00000
rad51	1.51971e-17	1.00000	1.51971e-17	1.00000
rad24	1.51018e-17	1.00000	1.51018e-17	1.00000
rad34	6.47835e-18	1.00000	6.47835e-18	1.00000
rad41	3.79816e-18	1.00000	3.79816e-18	1.00000
rad42	2.45509e-18	1.00000	2.45509e-18	1.00000
rad65	3.15074e-19	1.00000	3.15074e-19	1.00000
rad53	7.88963e-23	1.00000	7.88963e-23	1.00000
rad64	2.81392e-24	1.00000	2.81392e-24	1.00000
rad47	2.26205e-24	1.00000	2.26205e-24	1.00000
rad61	1.77558e-24	1.00000	1.77558e-24	1.00000
rad56	2.63318e-27	1.00000	2.63318e-27	1.00000
rad68syn	8.43272e-28	1.00000	8.43272e-28	1.00000
rad68anti	6.77200e-28	1.00000	6.77200e-28	1.00000
rad40syn	3.09362e-31	1.00000	3.09362e-31	1.00000
rad40anti	2.48622e-31	1.00000	2.48622e-31	1.00000
rad73	1.09531e-32	1.00000	1.09531e-32	1.00000
PAH8+H	1.58718e-33	1.00000	1.58718e-33	1.00000
rad19syn	2.10478e-35	1.00000	2.10478e-35	1.00000
rad71	4.42025e-37	1.00000	4.42025e-37	1.00000
rad8	3.51977e-51	1.00000	3.51977e-51	1.00000

100.000000 Pa, 140.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.99515e-15 (1.00)	4.99515e-15 (1.00)
Formation of rad19	4.99514e-15 (1.000)	4.99514e-15 (1.000)
H-abstraction to cyc2enyl	5.62488e-21 (1.13e-06)	5.62488e-21 (1.13e-06)
H-abstraction to cyclenyl	3.00047e-26 (6.01e-12)	3.00047e-26 (6.01e-12)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.842048	0.842048	0.842048	0.842048
rad9	0.157611	0.999659	0.157611	0.999659
rad15	0.000170677	0.999830	0.000170677	0.999830
PhCHCCH2+H	0.000154617	0.999984	0.000154617	0.999984
rad6	7.93481e-06	0.999992	7.93481e-06	0.999992
PhCCH+CH3	1.57129e-06	0.999994	1.57129e-06	0.999994
Benzene+cycloprop-2-enylidene	1.12607e-06	0.999995	1.12607e-06	0.999995
rad2	1.04984e-06	0.999996	1.04984e-06	0.999996
PhCCH3+H	1.04723e-06	0.999997	1.04723e-06	0.999997
C2H2+PhCH2	7.60889e-07	0.999998	7.60889e-07	0.999998
Ph+MeAc	7.37473e-07	0.999998	7.37473e-07	0.999998
rad26	5.39270e-07	0.999999	5.39270e-07	0.999999
rad67	3.42022e-07	0.999999	3.42022e-07	0.999999
rad35	1.50926e-07	0.999999	1.50926e-07	0.999999
rad10	1.04769e-07	1.000000	1.04769e-07	1.000000
rad1	6.85258e-08	1.000000	6.85258e-08	1.000000
rad23	1.98892e-08	1.000000	1.98892e-08	1.000000
rad3	1.20220e-08	1.000000	1.20220e-08	1.000000

Ph+Allene	1.05972e-08	1.000000	1.05972e-08	1.000000
rad4	6.12009e-09	1.000000	6.12009e-09	1.000000
rad28	4.25548e-09	1.000000	4.25548e-09	1.000000
rad7	2.99718e-09	1.000000	2.99718e-09	1.000000
rad30	2.64314e-09	1.000000	2.64314e-09	1.000000
PhCH2CCH+H	1.89112e-09	1.000000	1.89112e-09	1.000000
rad45	1.47726e-09	1.000000	1.47726e-09	1.000000
rad37	1.37194e-09	1.000000	1.37194e-09	1.000000
rad11	1.26600e-09	1.000000	1.26600e-09	1.000000
rad12	8.51465e-10	1.000000	8.51465e-10	1.000000
rad19anti	2.67918e-10	1.000000	2.67918e-10	1.000000
rad36	9.06688e-11	1.000000	9.06688e-11	1.000000
PAH7+H	7.69154e-11	1.000000	7.69154e-11	1.000000
PAH9+H	5.46090e-11	1.000000	5.46090e-11	1.000000
rad22	5.38336e-11	1.000000	5.38336e-11	1.000000
rad38	2.39752e-11	1.000000	2.39752e-11	1.000000
rad39	1.93117e-11	1.000000	1.93117e-11	1.000000
rad60syn	1.20588e-11	1.000000	1.20588e-11	1.000000
rad13	1.01165e-11	1.000000	1.01165e-11	1.000000
Benzene+cycloprop-1-enylidene	6.00677e-12	1.000000	6.00677e-12	1.000000
rad60anti	5.92169e-12	1.000000	5.92169e-12	1.000000
PAH3+H	5.28486e-12	1.000000	5.28486e-12	1.000000
PhcycC3H3_A+H	3.63408e-12	1.000000	3.63408e-12	1.000000
rad14	1.85252e-12	1.000000	1.85252e-12	1.000000
PAH10+CH3	1.78768e-12	1.000000	1.78768e-12	1.000000
rad27	1.62667e-12	1.000000	1.62667e-12	1.000000
rad46	1.37695e-12	1.000000	1.37695e-12	1.000000
rad59	1.07788e-12	1.000000	1.07788e-12	1.000000
rad5	1.02844e-12	1.000000	1.02844e-12	1.000000
rad43	1.36611e-13	1.000000	1.36611e-13	1.000000
rad62	2.40277e-14	1.000000	2.40277e-14	1.000000
Phenyl+cycC3H4	1.75978e-14	1.000000	0.000000	1.000000
rad18	1.28792e-14	1.000000	1.28792e-14	1.000000
rad33	1.16710e-14	1.000000	1.16710e-14	1.000000
rad25	1.11202e-14	1.000000	1.11202e-14	1.000000
rad50	9.77139e-15	1.000000	9.77139e-15	1.000000
rad54	3.02179e-15	1.000000	3.02179e-15	1.000000
PhcycC3H3_B+H	1.93323e-15	1.000000	1.93323e-15	1.000000
rad20	1.44299e-15	1.000000	1.44299e-15	1.000000
rad21	8.95817e-16	1.000000	8.95817e-16	1.000000
rad70	5.89677e-16	1.000000	5.89677e-16	1.000000
PAH1+H	1.47299e-16	1.000000	1.47299e-16	1.000000
rad58	1.02101e-16	1.000000	1.02101e-16	1.000000
rad52	6.88211e-17	1.000000	6.88211e-17	1.000000
rad31	2.56693e-17	1.000000	2.56693e-17	1.000000
rad55	2.46386e-17	1.000000	2.46386e-17	1.000000
rad51	1.97238e-17	1.000000	1.97238e-17	1.000000
rad24	1.28857e-17	1.000000	1.28857e-17	1.000000
rad34	8.78168e-18	1.000000	8.78168e-18	1.000000
rad41	5.72483e-18	1.000000	5.72483e-18	1.000000
rad42	3.59844e-18	1.000000	3.59844e-18	1.000000
rad65	4.17655e-19	1.000000	4.17655e-19	1.000000
rad53	2.01957e-22	1.000000	2.01957e-22	1.000000
rad64	9.52711e-24	1.000000	9.52711e-24	1.000000
rad61	9.00629e-24	1.000000	9.00629e-24	1.000000
rad47	2.32966e-24	1.000000	2.32966e-24	1.000000
rad56	1.76468e-26	1.000000	1.76468e-26	1.000000
rad68syn	6.13925e-27	1.000000	6.13925e-27	1.000000
rad68anti	4.90451e-27	1.000000	4.90451e-27	1.000000
rad40syn	4.91696e-30	1.000000	4.91696e-30	1.000000
rad40anti	3.98710e-30	1.000000	3.98710e-30	1.000000
rad73	1.45152e-31	1.000000	1.45152e-31	1.000000
PAH8+H	4.31028e-32	1.000000	4.31028e-32	1.000000
rad19syn	4.98356e-35	1.000000	4.98356e-35	1.000000
rad71	1.50540e-35	1.000000	1.50540e-35	1.000000
rad8	4.26969e-51	1.000000	4.26969e-51	1.000000

100.000000 Pa, 150.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.34137e-15 (1.00)	6.34137e-15 (1.00)
Formation of rad19	6.34135e-15 (1.000)	6.34135e-15 (1.000)
H-abstraction to cyc2enyl	1.81685e-20 (2.87e-06)	1.81685e-20 (2.87e-06)
H-abstraction to cyclenyl	2.23765e-25 (3.53e-11)	2.23765e-25 (3.53e-11)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.862323	0.862323	0.862323	0.862323
rad9	0.137345	0.999667	0.137345	0.999667

PhCHCCH2+H	0.000166499	0.999834	0.000166499	0.999834
rad15	0.000147374	0.999981	0.000147374	0.999981
rad6	8.54452e-06	0.999990	8.54452e-06	0.999990
Benzene+cycloprop-2-enylidene	2.86508e-06	0.999992	2.86508e-06	0.999992
PhCCH+CH3	1.75737e-06	0.999994	1.75737e-06	0.999994
PhCCCH3+H	1.17828e-06	0.999995	1.17828e-06	0.999995
rad2	9.92020e-07	0.999996	9.92020e-07	0.999996
Ph+MeAc	8.41313e-07	0.999997	8.41313e-07	0.999997
C2H2+PhCH2	8.34149e-07	0.999998	8.34149e-07	0.999998
rad26	5.41687e-07	0.999999	5.41687e-07	0.999999
rad67	3.74196e-07	0.999999	3.74196e-07	0.999999
rad35	1.64735e-07	0.999999	1.64735e-07	0.999999
rad10	9.85549e-08	0.999999	9.85549e-08	0.999999
rad1	6.50760e-08	0.999999	6.50760e-08	0.999999
rad23	1.73807e-08	0.999999	1.73807e-08	0.999999
Ph+Allene	1.21954e-08	0.999999	1.21954e-08	0.999999
rad3	1.13017e-08	0.999999	1.13017e-08	0.999999
rad4	5.76090e-09	0.999999	5.76090e-09	0.999999
rad28	4.98985e-09	0.999999	4.98985e-09	0.999999
rad7	3.18263e-09	0.999999	3.18263e-09	0.999999
rad30	2.88824e-09	0.999999	2.88824e-09	0.999999
PhCH2CCH+H	2.19413e-09	0.999999	2.19413e-09	0.999999
rad37	1.64952e-09	0.999999	1.64952e-09	0.999999
rad11	1.33662e-09	0.999999	1.33662e-09	0.999999
rad45	1.27016e-09	0.999999	1.27016e-09	0.999999
rad12	7.44700e-10	0.999999	7.44700e-10	0.999999
rad19anti	2.30598e-10	0.999999	2.30598e-10	0.999999
PAH7+H	1.04066e-10	0.999999	1.04066e-10	0.999999
rad36	7.80497e-11	0.999999	7.80497e-11	0.999999
PAH9+H	6.22215e-11	0.999999	6.22215e-11	0.999999
rad22	4.96435e-11	0.999999	4.96435e-11	0.999999
Benzene+cycloprop-1-enylidene	3.52865e-11	0.999999	3.52865e-11	0.999999
rad38	2.78061e-11	0.999999	2.78061e-11	0.999999
rad39	2.65585e-11	0.999999	2.65585e-11	0.999999
rad60syn	1.34745e-11	0.999999	1.34745e-11	0.999999
rad13	1.07053e-11	0.999999	1.07053e-11	0.999999
rad60anti	6.62996e-12	0.999999	6.62996e-12	0.999999
PAH3+H	6.06946e-12	0.999999	6.06946e-12	0.999999
PhcycC3H3_A+H	4.63279e-12	0.999999	4.63279e-12	0.999999
PAH10+CH3	2.34908e-12	0.999999	2.34908e-12	0.999999
rad14	1.72182e-12	0.999999	1.72182e-12	0.999999
rad46	1.59197e-12	0.999999	1.59197e-12	0.999999
rad27	1.51359e-12	0.999999	1.51359e-12	0.999999
rad59	1.23276e-12	0.999999	1.23276e-12	0.999999
rad5	8.52258e-13	0.999999	8.52258e-13	0.999999
rad43	1.69312e-13	0.999999	1.69312e-13	0.999999
rad62	2.98920e-14	0.999999	2.98920e-14	0.999999
Phenyl+cycC3H4	2.61242e-14	0.999999	0.00000	0.999999
rad33	1.23748e-14	0.999999	1.23748e-14	0.999999
rad18	1.23540e-14	0.999999	1.23540e-14	0.999999
rad50	1.18260e-14	0.999999	1.18260e-14	0.999999
rad25	1.16303e-14	0.999999	1.16303e-14	0.999999
rad54	4.15626e-15	0.999999	4.15626e-15	0.999999
PhcycC3H3_B+H	4.05133e-15	0.999999	4.05133e-15	0.999999
rad20	1.37769e-15	0.999999	1.37769e-15	0.999999
rad21	8.54762e-16	0.999999	8.54762e-16	0.999999
rad70	7.53464e-16	0.999999	7.53464e-16	0.999999
PAH1+H	2.19324e-16	0.999999	2.19324e-16	0.999999
rad58	1.29612e-16	0.999999	1.29612e-16	0.999999
rad52	8.61188e-17	0.999999	8.61188e-17	0.999999
rad55	3.57305e-17	0.999999	3.57305e-17	0.999999
rad51	2.56708e-17	0.999999	2.56708e-17	0.999999
rad31	2.51331e-17	0.999999	2.51331e-17	0.999999
rad34	1.20045e-17	0.999999	1.20045e-17	0.999999
rad24	1.10818e-17	0.999999	1.10818e-17	0.999999
rad41	8.60824e-18	0.999999	8.60824e-18	0.999999
rad42	5.25789e-18	0.999999	5.25789e-18	0.999999
rad65	5.55260e-19	0.999999	5.55260e-19	0.999999
rad53	4.96690e-22	0.999999	4.96690e-22	0.999999
rad61	3.91734e-23	0.999999	3.91734e-23	0.999999
rad64	3.02779e-23	0.999999	3.02779e-23	0.999999
rad47	2.40532e-24	0.999999	2.40532e-24	0.999999
rad56	9.92098e-26	0.999999	9.92098e-26	0.999999
rad68syn	3.60092e-26	0.999999	3.60092e-26	0.999999
rad68anti	2.86106e-26	0.999999	2.86106e-26	0.999999
rad40syn	5.64585e-29	0.999999	5.64585e-29	0.999999
rad40anti	4.62330e-29	0.999999	4.62330e-29	0.999999
rad73	1.45749e-30	0.999999	1.45749e-30	0.999999
PAH8+H	7.86451e-31	0.999999	7.86451e-31	0.999999
rad71	3.34739e-34	0.999999	3.34739e-34	0.999999

rad19syn	1.23876e-34	0.999999	1.23876e-34	0.999999
rad8	5.29871e-51	0.999999	5.29871e-51	0.999999

100.000000 Pa, 160.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.84423e-15 (1.00)	7.84423e-15 (1.00)
Formation of rad19	7.84418e-15 (1.000)	7.84418e-15 (1.000)
H-abstraction to cyc2enyl	5.05321e-20 (6.44e-06)	5.05321e-20 (6.44e-06)
H-abstraction to cyclenyl	1.29479e-24 (1.65e-10)	1.29479e-24 (1.65e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.880135	0.880135	0.880135	0.880135
rad9	0.119535	0.999671	0.119535	0.999671
PhCHCCH2+H	0.000178893	0.999849	0.000178893	0.999849
rad15	0.000127187	0.999977	0.000127187	0.999977
rad6	9.17208e-06	0.999986	9.17208e-06	0.999986
Benzene+cycloprop-2-enylidene	6.44194e-06	0.999992	6.44194e-06	0.999992
PhCCH+CH3	1.95320e-06	0.999994	1.95320e-06	0.999994
PhCCCH3+H	1.31802e-06	0.999996	1.31802e-06	0.999996
Ph+MeAc	9.54588e-07	0.999996	9.54588e-07	0.999996
rad2	9.32830e-07	0.999997	9.32830e-07	0.999997
C2H2+PhCH2	9.13386e-07	0.999998	9.13386e-07	0.999998
rad26	5.39944e-07	0.999999	5.39944e-07	0.999999
rad67	4.08725e-07	0.999999	4.08725e-07	0.999999
rad35	1.79496e-07	0.999999	1.79496e-07	0.999999
rad10	9.23000e-08	1.000000	9.23000e-08	1.000000
rad1	6.15275e-08	1.000000	6.15275e-08	1.000000
rad23	1.52828e-08	1.000000	1.52828e-08	1.000000
Ph+Allene	1.40581e-08	1.000000	1.40581e-08	1.000000
rad3	1.05783e-08	1.000000	1.05783e-08	1.000000
rad28	5.81014e-09	1.000000	5.81014e-09	1.000000
rad4	5.39993e-09	1.000000	5.39993e-09	1.000000
rad7	3.37271e-09	1.000000	3.37271e-09	1.000000
rad30	3.15120e-09	1.000000	3.15120e-09	1.000000
PhCH2CCH+H	2.55073e-09	1.000000	2.55073e-09	1.000000
rad37	1.97155e-09	1.000000	1.97155e-09	1.000000
rad11	1.40918e-09	1.000000	1.40918e-09	1.000000
rad45	1.10041e-09	1.000000	1.10041e-09	1.000000
rad12	6.51147e-10	1.000000	6.51147e-10	1.000000
rad19anti	1.98812e-10	1.000000	1.98812e-10	1.000000
Benzene+cycloprop-1-enylidene	1.65062e-10	1.000000	1.65062e-10	1.000000
PAH7+H	1.40462e-10	1.000000	1.40462e-10	1.000000
PAH9+H	7.07462e-11	1.000000	7.07462e-11	1.000000
rad36	6.77173e-11	1.000000	6.77173e-11	1.000000
rad22	4.62935e-11	1.000000	4.62935e-11	1.000000
rad39	3.63432e-11	1.000000	3.63432e-11	1.000000
rad38	3.22246e-11	1.000000	3.22246e-11	1.000000
rad60syn	1.50496e-11	1.000000	1.50496e-11	1.000000
rad13	1.13102e-11	1.000000	1.13102e-11	1.000000
rad60anti	7.42030e-12	1.000000	7.42030e-12	1.000000
PAH3+H	6.97790e-12	1.000000	6.97790e-12	1.000000
PhcycC3H3_A+H	5.95066e-12	1.000000	5.95066e-12	1.000000
PAH10+CH3	3.08256e-12	1.000000	3.08256e-12	1.000000
rad46	1.83812e-12	1.000000	1.83812e-12	1.000000
rad14	1.59505e-12	1.000000	1.59505e-12	1.000000
rad59	1.41097e-12	1.000000	1.41097e-12	1.000000
rad27	1.40355e-12	1.000000	1.40355e-12	1.000000
rad5	7.09652e-13	1.000000	7.09652e-13	1.000000
rad43	2.09353e-13	1.000000	2.09353e-13	1.000000
Phenyl+cycC3H4	3.86829e-14	1.000000	0.000000	1.000000
rad62	3.70812e-14	1.000000	3.70812e-14	1.000000
rad50	1.43245e-14	1.000000	1.43245e-14	1.000000
rad33	1.31027e-14	1.000000	1.31027e-14	1.000000
rad25	1.21599e-14	1.000000	1.21599e-14	1.000000
rad18	1.19262e-14	1.000000	1.19262e-14	1.000000
PhcycC3H3_B+H	8.05352e-15	1.000000	8.05352e-15	1.000000
rad54	5.73992e-15	1.000000	5.73992e-15	1.000000
rad20	1.32543e-15	1.000000	1.32543e-15	1.000000
rad70	9.69839e-16	1.000000	9.69839e-16	1.000000
rad21	8.21960e-16	1.000000	8.21960e-16	1.000000
PAH1+H	3.27160e-16	1.000000	3.27160e-16	1.000000
rad58	1.65507e-16	1.000000	1.65507e-16	1.000000
rad52	1.08043e-16	1.000000	1.08043e-16	1.000000
rad55	5.21586e-17	1.000000	5.21586e-17	1.000000
rad51	3.35658e-17	1.000000	3.35658e-17	1.000000
rad31	2.45730e-17	1.000000	2.45730e-17	1.000000
rad34	1.65648e-17	1.000000	1.65648e-17	1.000000

rad41	1.29206e-17	1.000000	1.29206e-17	1.000000
rad24	9.61277e-18	1.000000	9.61277e-18	1.000000
rad42	7.66467e-18	1.000000	7.66467e-18	1.000000
rad65	7.41711e-19	1.000000	7.41711e-19	1.000000
rad53	1.18138e-21	1.000000	1.18138e-21	1.000000
rad61	1.49377e-22	1.000000	1.49377e-22	1.000000
rad64	9.09013e-23	1.000000	9.09013e-23	1.000000
rad47	2.49264e-24	1.000000	2.49264e-24	1.000000
rad56	4.79938e-25	1.000000	4.79938e-25	1.000000
rad68syn	1.76489e-25	1.000000	1.76489e-25	1.000000
rad68anti	1.39406e-25	1.000000	1.39406e-25	1.000000
rad40syn	4.93456e-28	1.000000	4.93456e-28	1.000000
rad40anti	4.08051e-28	1.000000	4.08051e-28	1.000000
rad73	1.15727e-29	1.000000	1.15727e-29	1.000000
PAH8+H	1.03351e-29	1.000000	1.03351e-29	1.000000
rad71	5.26626e-33	1.000000	5.26626e-33	1.000000
rad19syn	3.23634e-34	1.000000	3.23634e-34	1.000000
rad8	6.71468e-51	1.000000	6.71468e-51	1.000000

100.000000 Pa, 170.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	9.49598e-15 (1.00)	9.49598e-15 (1.00)
Formation of rad19	9.49586e-15 (1.000)	9.49586e-15 (1.000)
H-abstraction to cyc2enyl	1.24279e-19 (1.31e-05)	1.24279e-19 (1.31e-05)
H-abstraction to cyc1enyl	6.08025e-24 (6.40e-10)	6.08025e-24 (6.40e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.895784	0.895784	0.895784	0.895784
rad9	0.103883	0.999667	0.103883	0.999667
PhCHCCH2+H	0.000191901	0.999859	0.000191901	0.999859
rad15	0.000109676	0.999968	0.000109676	0.999968
Benzene+cycloprop-2-enylidene	1.30875e-05	0.999982	1.30875e-05	0.999982
rad6	9.82101e-06	0.999991	9.82101e-06	0.999991
PhCCH+CH3	2.15978e-06	0.999994	2.15978e-06	0.999994
PhCCCH3+H	1.46747e-06	0.999995	1.46747e-06	0.999995
Ph+MeAc	1.07853e-06	0.999996	1.07853e-06	0.999996
C2H2+PhCH2	9.99717e-07	0.999997	9.99717e-07	0.999997
rad2	8.73267e-07	0.999998	8.73267e-07	0.999998
rad26	5.34246e-07	0.999999	5.34246e-07	0.999999
rad67	4.46006e-07	0.999999	4.46006e-07	0.999999
rad35	1.95370e-07	0.999999	1.95370e-07	0.999999
rad10	8.60901e-08	0.999999	8.60901e-08	0.999999
rad1	5.79415e-08	0.999999	5.79415e-08	0.999999
Ph+Allene	1.62488e-08	0.999999	1.62488e-08	0.999999
rad23	1.35360e-08	0.999999	1.35360e-08	0.999999
rad3	9.86188e-09	0.999999	9.86188e-09	0.999999
rad28	6.72458e-09	0.999999	6.72458e-09	0.999999
rad4	5.04216e-09	0.999999	5.04216e-09	0.999999
rad7	3.56863e-09	0.999999	3.56863e-09	0.999999
rad30	3.43515e-09	0.999999	3.43515e-09	0.999999
PhCH2CCH+H	2.97412e-09	0.999999	2.97412e-09	0.999999
rad37	2.34518e-09	0.999999	2.34518e-09	0.999999
rad11	1.48414e-09	0.999999	1.48414e-09	0.999999
rad45	9.61478e-10	0.999999	9.61478e-10	0.999999
Benzene+cycloprop-1-enylidene	6.40297e-10	0.999999	6.40297e-10	0.999999
rad12	5.69039e-10	0.999999	5.69039e-10	0.999999
PAH7+H	1.89365e-10	0.999999	1.89365e-10	0.999999
rad19anti	1.71631e-10	0.999999	1.71631e-10	0.999999
PAH9+H	8.03674e-11	0.999999	8.03674e-11	0.999999
rad36	5.92709e-11	0.999999	5.92709e-11	0.999999
rad39	4.95693e-11	0.999999	4.95693e-11	0.999999
rad22	4.36421e-11	0.999999	4.36421e-11	0.999999
rad38	3.73604e-11	0.999999	3.73604e-11	0.999999
rad60syn	1.68138e-11	0.999999	1.68138e-11	0.999999
rad13	1.19355e-11	0.999999	1.19355e-11	0.999999
rad60anti	8.30815e-12	0.999999	8.30815e-12	0.999999
PAH3+H	8.03732e-12	0.999999	8.03732e-12	0.999999
PhcycC3H3_A+H	7.69909e-12	0.999999	7.69909e-12	0.999999
PAH10+CH3	4.04328e-12	0.999999	4.04328e-12	0.999999
rad46	2.12214e-12	0.999999	2.12214e-12	0.999999
rad59	1.61751e-12	0.999999	1.61751e-12	0.999999
rad14	1.47309e-12	0.999999	1.47309e-12	0.999999
rad27	1.29734e-12	0.999999	1.29734e-12	0.999999
rad5	5.93215e-13	0.999999	5.93215e-13	0.999999
rad43	2.58554e-13	0.999999	2.58554e-13	0.999999
Phenyl+cycC3H4	5.71891e-14	0.999999	0.00000	0.999999
rad62	4.59191e-14	0.999999	4.59191e-14	0.999999

rad50	1.73897e-14	0.999999	1.73897e-14	0.999999
PhcycC3H3_B+H	1.53445e-14	0.999999	1.53445e-14	0.999999
rad33	1.38602e-14	0.999999	1.38602e-14	0.999999
rad25	1.27121e-14	0.999999	1.27121e-14	0.999999
rad18	1.15786e-14	0.999999	1.15786e-14	0.999999
rad54	7.97113e-15	0.999999	7.97113e-15	0.999999
rad20	1.28413e-15	0.999999	1.28413e-15	0.999999
rad70	1.25876e-15	0.999999	1.25876e-15	0.999999
rad21	7.96069e-16	0.999999	7.96069e-16	0.999999
PAH1+H	4.88911e-16	0.999999	4.88911e-16	0.999999
rad58	2.12723e-16	0.999999	2.12723e-16	0.999999
rad52	1.36096e-16	0.999999	1.36096e-16	0.999999
rad55	7.67284e-17	0.999999	7.67284e-17	0.999999
rad51	4.41519e-17	0.999999	4.41519e-17	0.999999
rad31	2.40083e-17	0.999999	2.40083e-17	0.999999
rad34	2.30856e-17	0.999999	2.30856e-17	0.999999
rad41	1.93607e-17	0.999999	1.93607e-17	0.999999
rad42	1.11504e-17	0.999999	1.11504e-17	0.999999
rad24	8.41737e-18	0.999999	8.41737e-18	0.999999
rad65	9.96768e-19	0.999999	9.96768e-19	0.999999
rad53	2.73098e-21	0.999999	2.73098e-21	0.999999
rad61	5.09384e-22	0.999999	5.09384e-22	0.999999
rad64	2.59294e-22	0.999999	2.59294e-22	0.999999
rad47	2.59580e-24	0.999999	2.59580e-24	0.999999
rad56	2.04533e-24	0.999999	2.04533e-24	0.999999
rad68syn	7.45753e-25	0.999999	7.45753e-25	0.999999
rad68anti	5.85328e-25	0.999999	5.85328e-25	0.999999
rad40syn	3.43378e-27	0.999999	3.43378e-27	0.999999
rad40anti	2.86539e-27	0.999999	2.86539e-27	0.999999
PAH8+H	1.03197e-28	0.999999	1.03197e-28	0.999999
rad73	7.54521e-29	0.999999	7.54521e-29	0.999999
rad71	6.18015e-32	0.999999	6.18015e-32	0.999999
rad19syn	8.89442e-34	0.999999	8.89442e-34	0.999999
rad8	8.67682e-51	0.999999	8.67682e-51	0.999999

100.000000 Pa, 180.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.12884e-14 (1.00)	1.12884e-14 (1.00)
Formation of rad19	1.12881e-14 (1.000)	1.12881e-14 (1.000)
H-abstraction to cyc2enyl	2.75916e-19 (2.44e-05)	2.75916e-19 (2.44e-05)
H-abstraction to cyc1enyl	2.39955e-23 (2.13e-09)	2.39955e-23 (2.13e-09)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.909525	0.909525	0.909525	0.909525
rad9	0.0901314	0.999656	0.0901314	0.999656
PhCHCCH2+H	0.000205634	0.999862	0.000205634	0.999862
rad15	9.44709e-05	0.999956	9.44709e-05	0.999956
Benzene+cycloprop-2-enylidene	2.44424e-05	0.999981	2.44424e-05	0.999981
rad6	1.04946e-05	0.999991	1.04946e-05	0.999991
PhCCH+CH3	2.37825e-06	0.999994	2.37825e-06	0.999994
PhCCCH3+H	1.62777e-06	0.999995	1.62777e-06	0.999995
Ph+MeAc	1.21451e-06	0.999996	1.21451e-06	0.999996
C2H2+PhCH2	1.09441e-06	0.999998	1.09441e-06	0.999998
rad2	8.14121e-07	0.999998	8.14121e-07	0.999998
rad26	5.24825e-07	0.999999	5.24825e-07	0.999999
rad67	4.86474e-07	0.999999	4.86474e-07	0.999999
rad35	2.12537e-07	1.000000	2.12537e-07	1.000000
rad10	7.99919e-08	1.000000	7.99919e-08	1.000000
rad1	5.43673e-08	1.000000	5.43673e-08	1.000000
Ph+Allene	1.88477e-08	1.000000	1.88477e-08	1.000000
rad23	1.20889e-08	1.000000	1.20889e-08	1.000000
rad3	9.16012e-09	1.000000	9.16012e-09	1.000000
rad28	7.74130e-09	1.000000	7.74130e-09	1.000000
rad4	4.69148e-09	1.000000	4.69148e-09	1.000000
rad7	3.77154e-09	1.000000	3.77154e-09	1.000000
rad30	3.74354e-09	1.000000	3.74354e-09	1.000000
PhCH2CCH+H	3.48099e-09	1.000000	3.48099e-09	1.000000
rad37	2.77867e-09	1.000000	2.77867e-09	1.000000
Benzene+cycloprop-1-enylidene	2.12567e-09	1.000000	2.12567e-09	1.000000
rad11	1.56189e-09	1.000000	1.56189e-09	1.000000
rad45	8.48014e-10	1.000000	8.48014e-10	1.000000
rad12	4.96905e-10	1.000000	4.96905e-10	1.000000
PAH7+H	2.55187e-10	1.000000	2.55187e-10	1.000000
rad19anti	1.48319e-10	1.000000	1.48319e-10	1.000000
PAH9+H	9.13076e-11	1.000000	9.13076e-11	1.000000
rad39	6.74629e-11	1.000000	6.74629e-11	1.000000
rad36	5.23848e-11	1.000000	5.23848e-11	1.000000

rad38	4.33727e-11	1.000000	4.33727e-11	1.000000
rad22	4.15757e-11	1.000000	4.15757e-11	1.000000
rad60syn	1.88015e-11	1.000000	1.88015e-11	1.000000
rad13	1.25849e-11	1.000000	1.25849e-11	1.000000
PhcycC3H3_A+H	1.00290e-11	1.000000	1.00290e-11	1.000000
rad60anti	9.31159e-12	1.000000	9.31159e-12	1.000000
PAH3+H	9.28096e-12	1.000000	9.28096e-12	1.000000
PAH10+CH3	5.30382e-12	1.000000	5.30382e-12	1.000000
rad46	2.45236e-12	1.000000	2.45236e-12	1.000000
rad59	1.85840e-12	1.000000	1.85840e-12	1.000000
rad14	1.35654e-12	1.000000	1.35654e-12	1.000000
rad27	1.19553e-12	1.000000	1.19553e-12	1.000000
rad5	4.97443e-13	1.000000	4.97443e-13	1.000000
rad43	3.19194e-13	1.000000	3.19194e-13	1.000000
Phenyl+cycC3H4	8.44565e-14	1.000000	0.00000	1.000000
rad62	5.68103e-14	1.000000	5.68103e-14	1.000000
PhcycC3H3_B+H	2.82395e-14	1.000000	2.82395e-14	1.000000
rad50	2.11816e-14	1.000000	2.11816e-14	1.000000
rad33	1.46519e-14	1.000000	1.46519e-14	1.000000
rad25	1.32900e-14	1.000000	1.32900e-14	1.000000
rad18	1.12984e-14	1.000000	1.12984e-14	1.000000
rad54	1.11417e-14	1.000000	1.11417e-14	1.000000
rad70	1.64842e-15	1.000000	1.64842e-15	1.000000
rad20	1.25220e-15	1.000000	1.25220e-15	1.000000
rad21	7.76078e-16	1.000000	7.76078e-16	1.000000
PAH1+H	7.31664e-16	1.000000	7.31664e-16	1.000000
rad58	2.75281e-16	1.000000	2.75281e-16	1.000000
rad52	1.72310e-16	1.000000	1.72310e-16	1.000000
rad55	1.13795e-16	1.000000	1.13795e-16	1.000000
rad51	5.84803e-17	1.000000	5.84803e-17	1.000000
rad34	3.24974e-17	1.000000	3.24974e-17	1.000000
rad41	2.89560e-17	1.000000	2.89560e-17	1.000000
rad31	2.34552e-17	1.000000	2.34552e-17	1.000000
rad42	1.61874e-17	1.000000	1.61874e-17	1.000000
rad24	7.44661e-18	1.000000	7.44661e-18	1.000000
rad65	1.34876e-18	1.000000	1.34876e-18	1.000000
rad53	6.15785e-21	1.000000	6.15785e-21	1.000000
rad61	1.57951e-21	1.000000	1.57951e-21	1.000000
rad64	7.06125e-22	1.000000	7.06125e-22	1.000000
rad56	7.83278e-24	1.000000	7.83278e-24	1.000000
rad68syn	2.78714e-24	1.000000	2.78714e-24	1.000000
rad47	2.71976e-24	1.000000	2.71976e-24	1.000000
rad68anti	2.17271e-24	1.000000	2.17271e-24	1.000000
rad40syn	1.97439e-26	1.000000	1.97439e-26	1.000000
rad40anti	1.66077e-26	1.000000	1.66077e-26	1.000000
PAH8+H	8.19674e-28	1.000000	8.19674e-28	1.000000
rad73	4.16892e-28	1.000000	4.16892e-28	1.000000
rad71	5.70545e-31	1.000000	5.70545e-31	1.000000
rad19syn	2.57278e-33	1.000000	2.57278e-33	1.000000
rad8	1.14218e-50	1.000000	1.14218e-50	1.000000

100.000000 Pa, 190.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.32132e-14 (1.00)	1.32132e-14 (1.00)
Formation of rad19	1.32126e-14 (1.000)	1.32126e-14 (1.000)
H-abstraction to cyc2enyl	5.62053e-19 (4.25e-05)	5.62053e-19 (4.25e-05)
H-abstraction to cyclenyl	8.18073e-23 (6.19e-09)	8.18073e-23 (6.19e-09)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.921577	0.921577	0.921577	0.921577
rad9	0.0780590	0.999636	0.0780590	0.999636
PhCHCCH2+H	0.000220201	0.999856	0.000220201	0.999856
rad15	8.12673e-05	0.999937	8.12673e-05	0.999937
Benzene+cycloprop-2-enylidene	4.25373e-05	0.999980	4.25373e-05	0.999980
rad6	1.11963e-05	0.999991	1.11963e-05	0.999991
PhCCH+CH3	2.60989e-06	0.999994	2.60989e-06	0.999994
PhCCCH3+H	1.80016e-06	0.999995	1.80016e-06	0.999995
Ph+MeAc	1.36412e-06	0.999997	1.36412e-06	0.999997
C2H2+PhCH2	1.19895e-06	0.999998	1.19895e-06	0.999998
rad2	7.56029e-07	0.999999	7.56029e-07	0.999999
rad67	5.30608e-07	0.999999	5.30608e-07	0.999999
rad26	5.11952e-07	1.000000	5.11952e-07	1.000000
rad35	2.31187e-07	1.000000	2.31187e-07	1.000000
rad10	7.40578e-08	1.000000	7.40578e-08	1.000000
rad1	5.08437e-08	1.000000	5.08437e-08	1.000000
Ph+Allene	2.19563e-08	1.000000	2.19563e-08	1.000000
rad23	1.08972e-08	1.000000	1.08972e-08	1.000000

rad28	8.86802e-09	1.00000	8.86802e-09	1.00000
rad3	8.47896e-09	1.00000	8.47896e-09	1.00000
Benzene+cycloprop-1-enylidene	6.19133e-09	1.00000	6.19133e-09	1.00000
rad4	4.35084e-09	1.00000	4.35084e-09	1.00000
PhCH2CCH+H	4.09256e-09	1.00000	4.09256e-09	1.00000
rad30	4.08022e-09	1.00000	4.08022e-09	1.00000
rad7	3.98246e-09	1.00000	3.98246e-09	1.00000
rad37	3.28148e-09	1.00000	3.28148e-09	1.00000
rad11	1.64283e-09	1.00000	1.64283e-09	1.00000
rad45	7.55667e-10	1.00000	7.55667e-10	1.00000
rad12	4.33509e-10	1.00000	4.33509e-10	1.00000
PAH7+H	3.43877e-10	1.00000	3.43877e-10	1.00000
rad19anti	1.28283e-10	1.00000	1.28283e-10	1.00000
PAH9+H	1.03835e-10	1.00000	1.03835e-10	1.00000
rad39	9.16784e-11	1.00000	9.16784e-11	1.00000
rad38	5.04555e-11	1.00000	5.04555e-11	1.00000
rad36	4.67939e-11	1.00000	4.67939e-11	1.00000
rad22	4.00020e-11	1.00000	4.00020e-11	1.00000
rad60syn	2.10533e-11	1.00000	2.10533e-11	1.00000
rad13	1.32617e-11	1.00000	1.32617e-11	1.00000
PhcycC3H3_A+H	1.31444e-11	1.00000	1.31444e-11	1.00000
PAH3+H	1.07493e-11	1.00000	1.07493e-11	1.00000
rad60anti	1.04518e-11	1.00000	1.04518e-11	1.00000
PAH10+CH3	6.95927e-12	1.00000	6.95927e-12	1.00000
rad46	2.83903e-12	1.00000	2.83903e-12	1.00000
rad59	2.14094e-12	1.00000	2.14094e-12	1.00000
rad14	1.24579e-12	1.00000	1.24579e-12	1.00000
rad27	1.09849e-12	1.00000	1.09849e-12	1.00000
rad5	4.18179e-13	1.00000	4.18179e-13	1.00000
rad43	3.94120e-13	1.00000	3.94120e-13	1.00000
Phenyl+cycC3H4	1.24603e-13	1.00000	0.00000	1.00000
rad62	7.02570e-14	1.00000	7.02570e-14	1.00000
PhcycC3H3_B+H	5.04923e-14	1.00000	5.04923e-14	1.00000
rad50	2.59093e-14	1.00000	2.59093e-14	1.00000
rad54	1.56818e-14	1.00000	1.56818e-14	1.00000
rad33	1.54827e-14	1.00000	1.54827e-14	1.00000
rad25	1.38962e-14	1.00000	1.38962e-14	1.00000
rad18	1.10759e-14	1.00000	1.10759e-14	1.00000
rad70	2.17874e-15	1.00000	2.17874e-15	1.00000
rad20	1.22843e-15	1.00000	1.22843e-15	1.00000
PAH1+H	1.09574e-15	1.00000	1.09574e-15	1.00000
rad21	7.61221e-16	1.00000	7.61221e-16	1.00000
rad58	3.58671e-16	1.00000	3.58671e-16	1.00000
rad52	2.19448e-16	1.00000	2.19448e-16	1.00000
rad55	1.70124e-16	1.00000	1.70124e-16	1.00000
rad51	7.80409e-17	1.00000	7.80409e-17	1.00000
rad34	4.61951e-17	1.00000	4.61951e-17	1.00000
rad41	4.32063e-17	1.00000	4.32063e-17	1.00000
rad42	2.34452e-17	1.00000	2.34452e-17	1.00000
rad31	2.29281e-17	1.00000	2.29281e-17	1.00000
rad24	6.66130e-18	1.00000	6.66130e-18	1.00000
rad65	1.83842e-18	1.00000	1.83842e-18	1.00000
rad53	1.35776e-20	1.00000	1.35776e-20	1.00000
rad61	4.51521e-21	1.00000	4.51521e-21	1.00000
rad64	1.84310e-21	1.00000	1.84310e-21	1.00000
rad56	2.73942e-23	1.00000	2.73942e-23	1.00000
rad68syn	9.40497e-24	1.00000	9.40497e-24	1.00000
rad68anti	7.27919e-24	1.00000	7.27919e-24	1.00000
rad47	2.87074e-24	1.00000	2.87074e-24	1.00000
rad40syn	9.66643e-26	1.00000	9.66643e-26	1.00000
rad40anti	8.18522e-26	1.00000	8.18522e-26	1.00000
PAH8+H	5.36204e-27	1.00000	5.36204e-27	1.00000
rad73	2.00261e-27	1.00000	2.00261e-27	1.00000
rad71	4.29354e-30	1.00000	4.29354e-30	1.00000
rad19syn	7.83398e-33	1.00000	7.83398e-33	1.00000
rad8	1.53049e-50	1.00000	1.53049e-50	1.00000

100.000000 Pa, 200.000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	1.52621e-14 (1.00)	1.52621e-14 (1.00)		
Formation of rad19	1.52610e-14 (1.000)	1.52610e-14 (1.000)		
H-abstraction to cyc2enyl	1.06427e-18 (6.97e-05)	1.06427e-18 (6.97e-05)		
H-abstraction to cyclenyl	2.46309e-22 (1.61e-08)	2.46309e-22 (1.61e-08)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.932129	0.932129	0.932129	0.932129
rad9	0.0674735	0.999602	0.0674735	0.999602

PhCHCCH2+H	0.000235720	0.999838	0.000235720	0.999838
rad15	6.98049e-05	0.999908	6.98049e-05	0.999908
Benzene+cycloprop-2-enylidene	6.97330e-05	0.999978	6.97330e-05	0.999978
rad6	1.19290e-05	0.999990	1.19290e-05	0.999990
PhCCH+CH3	2.85607e-06	0.999993	2.85607e-06	0.999993
PhCCCH3+H	1.98605e-06	0.999995	1.98605e-06	0.999995
Ph+MeAc	1.52910e-06	0.999996	1.52910e-06	0.999996
C2H2+PhCH2	1.31497e-06	0.999997	1.31497e-06	0.999997
rad2	6.99492e-07	0.999998	6.99492e-07	0.999998
rad67	5.78937e-07	0.999999	5.78937e-07	0.999999
rad26	4.95932e-07	0.999999	4.95932e-07	0.999999
rad35	2.51532e-07	0.999999	2.51532e-07	0.999999
rad10	6.83285e-08	0.999999	6.83285e-08	0.999999
rad1	4.74023e-08	0.999999	4.74023e-08	0.999999
Ph+Allene	2.57026e-08	1.000000	2.57026e-08	1.000000
Benzene+cycloprop-1-enylidene	1.61386e-08	1.000000	1.61386e-08	1.000000
rad28	1.01116e-08	1.000000	1.01116e-08	1.000000
rad23	9.92357e-09	1.000000	9.92357e-09	1.000000
rad3	7.82302e-09	1.000000	7.82302e-09	1.000000
PhCH2CCH+H	4.83575e-09	1.000000	4.83575e-09	1.000000
rad30	4.44943e-09	1.000000	4.44943e-09	1.000000
rad7	4.20235e-09	1.000000	4.20235e-09	1.000000
rad4	4.02261e-09	1.000000	4.02261e-09	1.000000
rad37	3.86431e-09	1.000000	3.86431e-09	1.000000
rad11	1.72732e-09	1.000000	1.72732e-09	1.000000
rad45	6.80879e-10	1.000000	6.80879e-10	1.000000
PAH7+H	4.63410e-10	1.000000	4.63410e-10	1.000000
rad12	3.77799e-10	1.000000	3.77799e-10	1.000000
rad39	1.24433e-10	1.000000	1.24433e-10	1.000000
PAH9+H	1.18271e-10	1.000000	1.18271e-10	1.000000
rad19anti	1.11034e-10	1.000000	1.11034e-10	1.000000
rad38	5.88453e-11	1.000000	5.88453e-11	1.000000
rad36	4.22817e-11	1.000000	4.22817e-11	1.000000
rad22	3.88459e-11	1.000000	3.88459e-11	1.000000
rad60syn	2.36160e-11	1.000000	2.36160e-11	1.000000
PhcycC3H3_A+H	1.73206e-11	1.000000	1.73206e-11	1.000000
rad13	1.39692e-11	1.000000	1.39692e-11	1.000000
PAH3+H	1.24918e-11	1.000000	1.24918e-11	1.000000
rad60anti	1.17534e-11	1.000000	1.17534e-11	1.000000
PAH10+CH3	9.13353e-12	1.000000	9.13353e-12	1.000000
rad46	3.29478e-12	1.000000	3.29478e-12	1.000000
rad59	2.47396e-12	1.000000	2.47396e-12	1.000000
rad14	1.14111e-12	1.000000	1.14111e-12	1.000000
rad27	1.00650e-12	1.000000	1.00650e-12	1.000000
rad43	4.86872e-13	1.000000	4.86872e-13	1.000000
rad5	3.52243e-13	1.000000	3.52243e-13	1.000000
Phenyl+cycC3H4	1.83626e-13	1.000000	0.000000	1.000000
PhcycC3H3_B+H	8.80984e-14	1.000000	8.80984e-14	1.000000
rad62	8.68817e-14	1.000000	8.68817e-14	1.000000
rad50	3.18471e-14	1.000000	3.18471e-14	1.000000
rad54	2.22253e-14	1.000000	2.22253e-14	1.000000
rad33	1.63569e-14	1.000000	1.63569e-14	1.000000
rad25	1.45334e-14	1.000000	1.45334e-14	1.000000
rad18	1.09036e-14	1.000000	1.09036e-14	1.000000
rad70	2.90647e-15	1.000000	2.90647e-15	1.000000
PAH1+H	1.64083e-15	1.000000	1.64083e-15	1.000000
rad20	1.21187e-15	1.000000	1.21187e-15	1.000000
rad21	7.50902e-16	1.000000	7.50902e-16	1.000000
rad58	4.70388e-16	1.000000	4.70388e-16	1.000000
rad52	2.81274e-16	1.000000	2.81274e-16	1.000000
rad55	2.56222e-16	1.000000	2.56222e-16	1.000000
rad51	1.04953e-16	1.000000	1.04953e-16	1.000000
rad34	6.62739e-17	1.000000	6.62739e-17	1.000000
rad41	6.42864e-17	1.000000	6.42864e-17	1.000000
rad42	3.38653e-17	1.000000	3.38653e-17	1.000000
rad31	2.24400e-17	1.000000	2.24400e-17	1.000000
rad24	6.02991e-18	1.000000	6.02991e-18	1.000000
rad65	2.52440e-18	1.000000	2.52440e-18	1.000000
rad53	2.93263e-20	1.000000	2.93263e-20	1.000000
rad61	1.20330e-20	1.000000	1.20330e-20	1.000000
rad64	4.62577e-21	1.000000	4.62577e-21	1.000000
rad56	8.86321e-23	1.000000	8.86321e-23	1.000000
rad68syn	2.91301e-23	1.000000	2.91301e-23	1.000000
rad68anti	2.23804e-23	1.000000	2.23804e-23	1.000000
rad47	3.05655e-24	1.000000	3.05655e-24	1.000000
rad40syn	4.12841e-25	1.000000	4.12841e-25	1.000000
rad40anti	3.51420e-25	1.000000	3.51420e-25	1.000000
PAH8+H	2.96991e-26	1.000000	2.96991e-26	1.000000
rad73	8.53667e-27	1.000000	8.53667e-27	1.000000
rad71	2.70698e-29	1.000000	2.70698e-29	1.000000

rad19syn	2.51057e-32	1.000000	2.51057e-32	1.000000
rad8	2.08655e-50	1.000000	2.08655e-50	1.000000

100.000000 Pa, 210.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.74272e-14 (1.00)	1.74272e-14 (1.00)
Formation of rad19	1.74253e-14 (1.000)	1.74253e-14 (1.000)
H-abstraction to cyc2enyl	1.89310e-18 (0.000109)	1.89310e-18 (0.000109)
H-abstraction to cyclenyl	6.66714e-22 (3.83e-08)	6.66714e-22 (3.83e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.941350	0.941350	0.941350	0.941350
rad9	0.0582061	0.999556	0.0582061	0.999556
PhCHCCH2+H	0.000252317	0.999808	0.000252317	0.999808
Benzene+cycloprop-2-enylidene	0.000108629	0.999917	0.000108629	0.999917
rad15	5.98617e-05	0.999977	5.98617e-05	0.999977
rad6	1.26952e-05	0.999989	1.26952e-05	0.999989
PhCCH+CH3	3.11832e-06	0.999992	3.11832e-06	0.999992
PhCCCH3+H	2.18694e-06	0.999995	2.18694e-06	0.999995
Ph+MeAc	1.71140e-06	0.999996	1.71140e-06	0.999996
C2H2+PhCH2	1.44442e-06	0.999998	1.44442e-06	0.999998
rad2	6.44916e-07	0.999998	6.44916e-07	0.999998
rad67	6.32034e-07	0.999999	6.32034e-07	0.999999
rad26	4.77118e-07	0.999999	4.77118e-07	0.999999
rad35	2.73802e-07	1.000000	2.73802e-07	1.000000
rad10	6.28356e-08	1.000000	6.28356e-08	1.000000
rad1	4.40677e-08	1.000000	4.40677e-08	1.000000
Benzene+cycloprop-1-enylidene	3.82571e-08	1.000000	3.82571e-08	1.000000
Ph+Allene	3.02496e-08	1.000000	3.02496e-08	1.000000
rad28	1.14775e-08	1.000000	1.14775e-08	1.000000
rad23	9.13593e-09	1.000000	9.13593e-09	1.000000
rad3	7.19585e-09	1.000000	7.19585e-09	1.000000
PhCH2CCH+H	5.74492e-09	1.000000	5.74492e-09	1.000000
rad30	4.85587e-09	1.000000	4.85587e-09	1.000000
rad37	4.53935e-09	1.000000	4.53935e-09	1.000000
rad7	4.43198e-09	1.000000	4.43198e-09	1.000000
rad4	3.70852e-09	1.000000	3.70852e-09	1.000000
rad11	1.81562e-09	1.000000	1.81562e-09	1.000000
PAH7+H	6.24387e-10	1.000000	6.24387e-10	1.000000
rad45	6.20728e-10	1.000000	6.20728e-10	1.000000
rad12	3.28871e-10	1.000000	3.28871e-10	1.000000
rad39	1.68677e-10	1.000000	1.68677e-10	1.000000
PAH9+H	1.35005e-10	1.000000	1.35005e-10	1.000000
rad19anti	9.61720e-11	1.000000	9.61720e-11	1.000000
rad38	6.88297e-11	1.000000	6.88297e-11	1.000000
rad36	3.86715e-11	1.000000	3.86715e-11	1.000000
rad22	3.80451e-11	1.000000	3.80451e-11	1.000000
rad60syn	2.65441e-11	1.000000	2.65441e-11	1.000000
PhcycC3H3_A+H	2.29279e-11	1.000000	2.29279e-11	1.000000
rad13	1.47101e-11	1.000000	1.47101e-11	1.000000
PAH3+H	1.45688e-11	1.000000	1.45688e-11	1.000000
rad60anti	1.32452e-11	1.000000	1.32452e-11	1.000000
PAH10+CH3	1.19872e-11	1.000000	1.19872e-11	1.000000
rad46	3.83522e-12	1.000000	3.83522e-12	1.000000
rad59	2.86814e-12	1.000000	2.86814e-12	1.000000
rad14	1.04266e-12	1.000000	1.04266e-12	1.000000
rad27	9.19708e-13	1.000000	9.19708e-13	1.000000
rad43	6.01839e-13	1.000000	6.01839e-13	1.000000
rad5	2.97164e-13	1.000000	2.97164e-13	1.000000
Phenyl+cycC3H4	2.70226e-13	1.000000	0.000000	1.000000
PhcycC3H3_B+H	1.50503e-13	1.000000	1.50503e-13	1.000000
rad62	1.07452e-13	1.000000	1.07452e-13	1.000000
rad50	3.93545e-14	1.000000	3.93545e-14	1.000000
rad54	3.17058e-14	1.000000	3.17058e-14	1.000000
rad33	1.72785e-14	1.000000	1.72785e-14	1.000000
rad25	1.52035e-14	1.000000	1.52035e-14	1.000000
rad18	1.07755e-14	1.000000	1.07755e-14	1.000000
rad70	3.91243e-15	1.000000	3.91243e-15	1.000000
PAH1+H	2.45479e-15	1.000000	2.45479e-15	1.000000
rad20	1.20178e-15	1.000000	1.20178e-15	1.000000
rad21	7.44653e-16	1.000000	7.44653e-16	1.000000
rad58	6.20662e-16	1.000000	6.20662e-16	1.000000
rad55	3.88376e-16	1.000000	3.88376e-16	1.000000
rad52	3.62935e-16	1.000000	3.62935e-16	1.000000
rad51	1.42236e-16	1.000000	1.42236e-16	1.000000
rad34	9.58846e-17	1.000000	9.58846e-17	1.000000
rad41	9.53267e-17	1.000000	9.53267e-17	1.000000

rad42	4.87640e-17	1.000000	4.87640e-17	1.000000
rad31	2.20034e-17	1.000000	2.20034e-17	1.000000
rad24	5.52698e-18	1.000000	5.52698e-18	1.000000
rad65	3.49138e-18	1.000000	3.49138e-18	1.000000
rad53	6.21204e-20	1.000000	6.21204e-20	1.000000
rad61	3.01700e-20	1.000000	3.01700e-20	1.000000
rad64	1.11922e-20	1.000000	1.11922e-20	1.000000
rad56	2.67979e-22	1.000000	2.67979e-22	1.000000
rad68syn	8.39044e-23	1.000000	8.39044e-23	1.000000
rad68anti	6.39892e-23	1.000000	6.39892e-23	1.000000
rad47	3.28733e-24	1.000000	3.28733e-24	1.000000
rad40syn	1.56828e-24	1.000000	1.56828e-24	1.000000
rad40anti	1.34014e-24	1.000000	1.34014e-24	1.000000
PAH8+H	1.42352e-25	1.000000	1.42352e-25	1.000000
rad73	3.28161e-26	1.000000	3.28161e-26	1.000000
rad71	1.46050e-28	1.000000	1.46050e-28	1.000000
rad19syn	8.46283e-32	1.000000	8.46283e-32	1.000000
rad8	2.89333e-50	1.000000	2.89333e-50	1.000000

100.000000 Pa, 220.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.97009e-14 (1.00)	1.97009e-14 (1.00)
Formation of rad19	1.96977e-14 (1.000)	1.96977e-14 (1.000)
H-abstraction to cyc2enyl	3.19064e-18 (0.000162)	3.19064e-18 (0.000162)
H-abstraction to cyclenyl	1.64627e-21 (8.36e-08)	1.64627e-21 (8.36e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.949384	0.949384	0.949384	0.949384
rad9	0.0501079	0.999492	0.0501079	0.999492
PhCHCCH2+H	0.000270119	0.999762	0.000270119	0.999762
Benzene+cycloprop-2-enylidene	0.000161954	0.999924	0.000161954	0.999924
rad15	5.12466e-05	0.999975	5.12466e-05	0.999975
rad6	1.34972e-05	0.999989	1.34972e-05	0.999989
PhCCH+CH3	3.39825e-06	0.999992	3.39825e-06	0.999992
PhCCCH3+H	2.40445e-06	0.999995	2.40445e-06	0.999995
Ph+MeAc	1.91319e-06	0.999997	1.91319e-06	0.999997
C2H2+PhCH2	1.58950e-06	0.999998	1.58950e-06	0.999998
rad67	6.90533e-07	0.999999	6.90533e-07	0.999999
rad2	5.92617e-07	0.999999	5.92617e-07	0.999999
rad26	4.55896e-07	1.000000	4.55896e-07	1.000000
rad35	2.98249e-07	1.000000	2.98249e-07	1.000000
Benzene+cycloprop-1-enylidene	8.35632e-08	1.000000	8.35632e-08	1.000000
rad10	5.76031e-08	1.000000	5.76031e-08	1.000000
rad1	4.08600e-08	1.000000	4.08600e-08	1.000000
Ph+Allene	3.58035e-08	1.000000	3.58035e-08	1.000000
rad28	1.29693e-08	1.000000	1.29693e-08	1.000000
rad23	8.50710e-09	1.000000	8.50710e-09	1.000000
PhCH2CCH+H	6.86384e-09	1.000000	6.86384e-09	1.000000
rad3	6.60005e-09	1.000000	6.60005e-09	1.000000
rad37	5.32029e-09	1.000000	5.32029e-09	1.000000
rad30	5.30477e-09	1.000000	5.30477e-09	1.000000
rad7	4.67198e-09	1.000000	4.67198e-09	1.000000
rad4	3.40990e-09	1.000000	3.40990e-09	1.000000
rad11	1.90798e-09	1.000000	1.90798e-09	1.000000
PAH7+H	8.40815e-10	1.000000	8.40815e-10	1.000000
rad45	5.72814e-10	1.000000	5.72814e-10	1.000000
rad12	2.85944e-10	1.000000	2.85944e-10	1.000000
rad39	2.28304e-10	1.000000	2.28304e-10	1.000000
PAH9+H	1.54511e-10	1.000000	1.54511e-10	1.000000
rad19anti	8.33601e-11	1.000000	8.33601e-11	1.000000
rad38	8.07583e-11	1.000000	8.07583e-11	1.000000
rad22	3.75478e-11	1.000000	3.75478e-11	1.000000
rad36	3.58186e-11	1.000000	3.58186e-11	1.000000
PhcycC3H3_A+H	3.04627e-11	1.000000	3.04627e-11	1.000000
rad60syn	2.99012e-11	1.000000	2.99012e-11	1.000000
PAH3+H	1.70535e-11	1.000000	1.70535e-11	1.000000
PAH10+CH3	1.57276e-11	1.000000	1.57276e-11	1.000000
rad13	1.54865e-11	1.000000	1.54865e-11	1.000000
rad60anti	1.49609e-11	1.000000	1.49609e-11	1.000000
rad46	4.47965e-12	1.000000	4.47965e-12	1.000000
rad59	3.33638e-12	1.000000	3.33638e-12	1.000000
rad14	9.50486e-13	1.000000	9.50486e-13	1.000000
rad27	8.38212e-13	1.000000	8.38212e-13	1.000000
rad43	7.44446e-13	1.000000	7.44446e-13	1.000000
Phenyl+cycC3H4	3.96956e-13	1.000000	0.000000	1.000000
PhcycC3H3_B+H	2.52391e-13	1.000000	2.52391e-13	1.000000
rad5	2.50998e-13	1.000000	2.50998e-13	1.000000

rad62	1.32915e-13	1.00000	1.32915e-13	1.00000
rad50	4.89051e-14	1.00000	4.89051e-14	1.00000
rad54	4.54948e-14	1.00000	4.54948e-14	1.00000
rad33	1.82511e-14	1.00000	1.82511e-14	1.00000
rad25	1.59086e-14	1.00000	1.59086e-14	1.00000
rad18	1.06865e-14	1.00000	1.06865e-14	1.00000
rad70	5.31193e-15	1.00000	5.31193e-15	1.00000
PAH1+H	3.66635e-15	1.00000	3.66635e-15	1.00000
rad20	1.19758e-15	1.00000	1.19758e-15	1.00000
rad58	8.23414e-16	1.00000	8.23414e-16	1.00000
rad21	7.42106e-16	1.00000	7.42106e-16	1.00000
rad55	5.91742e-16	1.00000	5.91742e-16	1.00000
rad52	4.71468e-16	1.00000	4.71468e-16	1.00000
rad51	1.94204e-16	1.00000	1.94204e-16	1.00000
rad41	1.40798e-16	1.00000	1.40798e-16	1.00000
rad34	1.39768e-16	1.00000	1.39768e-16	1.00000
rad42	6.99696e-17	1.00000	6.99696e-17	1.00000
rad31	2.16306e-17	1.00000	2.16306e-17	1.00000
rad24	5.13187e-18	1.00000	5.13187e-18	1.00000
rad65	4.86171e-18	1.00000	4.86171e-18	1.00000
rad53	1.29139e-19	1.00000	1.29139e-19	1.00000
rad61	7.17007e-20	1.00000	7.17007e-20	1.00000
rad64	2.61615e-20	1.00000	2.61615e-20	1.00000
rad56	7.63043e-22	1.00000	7.63043e-22	1.00000
rad68syn	2.27049e-22	1.00000	2.27049e-22	1.00000
rad68anti	1.71913e-22	1.00000	1.71913e-22	1.00000
rad40syn	5.38168e-24	1.00000	5.38168e-24	1.00000
rad40anti	4.61087e-24	1.00000	4.61087e-24	1.00000
rad47	3.57649e-24	1.00000	3.57649e-24	1.00000
PAH8+H	6.00776e-25	1.00000	6.00776e-25	1.00000
rad73	1.15177e-25	1.00000	1.15177e-25	1.00000
rad71	6.85843e-28	1.00000	6.85843e-28	1.00000
rad19syn	2.99756e-31	1.00000	2.99756e-31	1.00000
rad8	4.08009e-50	1.00000	4.08009e-50	1.00000

100.000000 Pa, 230.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.20761e-14 (1.00)	2.20761e-14 (1.00)
Formation of rad19	2.20710e-14 (1.000)	2.20710e-14 (1.000)
H-abstraction to cyc2enyl	5.13155e-18 (0.000232)	5.13155e-18 (0.000232)
H-abstraction to cyclenyl	3.75316e-21 (1.70e-07)	3.75316e-21 (1.70e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.956361	0.956361	0.956361	0.956361
rad9	0.0430465	0.999408	0.0430465	0.999408
PhCHCCH2+H	0.000289266	0.999697	0.000289266	0.999697
Benzene+cycloprop-2-enylidene	0.000232448	0.999930	0.000232448	0.999930
rad15	4.37938e-05	0.999973	4.37938e-05	0.999973
rad6	1.43366e-05	0.999988	1.43366e-05	0.999988
PhCCH+CH3	3.69766e-06	0.999992	3.69766e-06	0.999992
PhCCCH3+H	2.64035e-06	0.999994	2.64035e-06	0.999994
Ph+MeAc	2.13683e-06	0.999996	2.13683e-06	0.999996
C2H2+PhCH2	1.75276e-06	0.999998	1.75276e-06	0.999998
rad67	7.55126e-07	0.999999	7.55126e-07	0.999999
rad2	5.42842e-07	0.999999	5.42842e-07	0.999999
rad26	4.32685e-07	1.000000	4.32685e-07	1.000000
rad35	3.25144e-07	1.000000	3.25144e-07	1.000000
Benzene+cycloprop-1-enylidene	1.70010e-07	1.000000	1.70010e-07	1.000000
rad10	5.26489e-08	1.000000	5.26489e-08	1.000000
Ph+Allene	4.26263e-08	1.000000	4.26263e-08	1.000000
rad1	3.77946e-08	1.000000	3.77946e-08	1.000000
rad28	1.45887e-08	1.000000	1.45887e-08	1.000000
PhCH2CCH+H	8.24838e-09	1.000000	8.24838e-09	1.000000
rad23	8.01391e-09	1.000000	8.01391e-09	1.000000
rad37	6.22261e-09	1.000000	6.22261e-09	1.000000
rad3	6.03756e-09	1.000000	6.03756e-09	1.000000
rad30	5.80188e-09	1.000000	5.80188e-09	1.000000
rad7	4.92278e-09	1.000000	4.92278e-09	1.000000
rad4	3.12772e-09	1.000000	3.12772e-09	1.000000
rad11	2.00454e-09	1.000000	2.00454e-09	1.000000
PAH7+H	1.13105e-09	1.000000	1.13105e-09	1.000000
rad45	5.35155e-10	1.000000	5.35155e-10	1.000000
rad39	3.08413e-10	1.000000	3.08413e-10	1.000000
rad12	2.48327e-10	1.000000	2.48327e-10	1.000000
PAH9+H	1.77358e-10	1.000000	1.77358e-10	1.000000
rad38	9.50556e-11	1.000000	9.50556e-11	1.000000
rad19anti	7.23147e-11	1.000000	7.23147e-11	1.000000

PhcycC3H3_A+H	4.05886e-11	1.00000	4.05886e-11	1.00000
rad22	3.73103e-11	1.00000	3.73103e-11	1.00000
rad60syn	3.37606e-11	1.00000	3.37606e-11	1.00000
rad36	3.36041e-11	1.00000	3.36041e-11	1.00000
PAH10+CH3	2.06208e-11	1.00000	2.06208e-11	1.00000
PAH3+H	2.00354e-11	1.00000	2.00354e-11	1.00000
rad60anti	1.69395e-11	1.00000	1.69395e-11	1.00000
rad13	1.62998e-11	1.00000	1.62998e-11	1.00000
rad46	5.25197e-12	1.00000	5.25197e-12	1.00000
rad59	3.89425e-12	1.00000	3.89425e-12	1.00000
rad43	9.21381e-13	1.00000	9.21381e-13	1.00000
rad14	8.64595e-13	1.00000	8.64595e-13	1.00000
rad27	7.62038e-13	1.00000	7.62038e-13	1.00000
Phenyl+cycC3H4	5.81829e-13	1.00000	0.00000	1.00000
PhcycC3H3_B+H	4.16313e-13	1.00000	4.16313e-13	1.00000
rad5	2.12202e-13	1.00000	2.12202e-13	1.00000
rad62	1.64433e-13	1.00000	1.64433e-13	1.00000
rad54	6.56012e-14	1.00000	6.56012e-14	1.00000
rad50	6.11227e-14	1.00000	6.11227e-14	1.00000
rad33	1.92776e-14	1.00000	1.92776e-14	1.00000
rad25	1.66495e-14	1.00000	1.66495e-14	1.00000
rad18	1.06321e-14	1.00000	1.06321e-14	1.00000
rad70	7.26956e-15	1.00000	7.26956e-15	1.00000
PAH1+H	5.46298e-15	1.00000	5.46298e-15	1.00000
rad20	1.19879e-15	1.00000	1.19879e-15	1.00000
rad58	1.09756e-15	1.00000	1.09756e-15	1.00000
rad55	9.05004e-16	1.00000	9.05004e-16	1.00000
rad21	7.42961e-16	1.00000	7.42961e-16	1.00000
rad52	6.16530e-16	1.00000	6.16530e-16	1.00000
rad51	2.67026e-16	1.00000	2.67026e-16	1.00000
rad41	2.07042e-16	1.00000	2.07042e-16	1.00000
rad34	2.05053e-16	1.00000	2.05053e-16	1.00000
rad42	1.00006e-16	1.00000	1.00006e-16	1.00000
rad31	2.13343e-17	1.00000	2.13343e-17	1.00000
rad65	6.81233e-18	1.00000	6.81233e-18	1.00000
rad24	4.82777e-18	1.00000	4.82777e-18	1.00000
rad53	2.63552e-19	1.00000	2.63552e-19	1.00000
rad61	1.62496e-19	1.00000	1.62496e-19	1.00000
rad64	5.91761e-20	1.00000	5.91761e-20	1.00000
rad56	2.05792e-21	1.00000	2.05792e-21	1.00000
rad68syn	5.81753e-22	1.00000	5.81753e-22	1.00000
rad68anti	4.37453e-22	1.00000	4.37453e-22	1.00000
rad40syn	1.68887e-23	1.00000	1.68887e-23	1.00000
rad40anti	1.44917e-23	1.00000	1.44917e-23	1.00000
rad47	3.94195e-24	1.00000	3.94195e-24	1.00000
PAH8+H	2.26366e-24	1.00000	2.26366e-24	1.00000
rad73	3.72534e-25	1.00000	3.72534e-25	1.00000
rad71	2.84237e-27	1.00000	2.84237e-27	1.00000
rad19syn	1.11401e-30	1.00000	1.11401e-30	1.00000
rad8	5.85121e-50	1.00000	5.85121e-50	1.00000

100.000000 Pa, 240.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.45462e-14 (1.00)	2.45462e-14 (1.00)
Formation of rad19	2.45383e-14 (1.000)	2.45383e-14 (1.000)
H-abstraction to cyc2enyl	7.92234e-18 (0.000323)	7.92234e-18 (0.000323)
H-abstraction to cyclenyl	7.97958e-21 (3.25e-07)	7.97958e-21 (3.25e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.962397	0.962397	0.962397	0.962397
rad9	0.0369039	0.999301	0.0369039	0.999301
Benzene+cycloprop-2-enylidene	0.000322752	0.999624	0.000322752	0.999624
PhCHCCH2+H	0.000309899	0.999933	0.000309899	0.999933
rad15	3.73583e-05	0.999971	3.73583e-05	0.999971
rad6	1.52143e-05	0.999986	1.52143e-05	0.999986
PhCCH+CH3	4.01846e-06	0.999990	4.01846e-06	0.999990
PhCCCH3+H	2.89655e-06	0.999993	2.89655e-06	0.999993
Ph+MeAc	2.38496e-06	0.999995	2.38496e-06	0.999995
C2H2+PhCH2	1.93713e-06	0.999997	1.93713e-06	0.999997
rad67	8.26569e-07	0.999998	8.26569e-07	0.999998
rad2	4.95773e-07	0.999999	4.95773e-07	0.999999
rad26	4.07925e-07	0.999999	4.07925e-07	0.999999
rad35	3.54787e-07	0.999999	3.54787e-07	0.999999
Benzene+cycloprop-1-enylidene	3.25084e-07	1.000000	3.25084e-07	1.000000
Ph+Allene	5.10502e-08	1.000000	5.10502e-08	1.000000
rad10	4.79856e-08	1.000000	4.79856e-08	1.000000
rad1	3.48833e-08	1.000000	3.48833e-08	1.000000

rad28	1.63344e-08	1.000000	1.63344e-08	1.000000
PhCH2CCH+H	9.96984e-09	1.000000	9.96984e-09	1.000000
rad23	7.63652e-09	1.000000	7.63652e-09	1.000000
rad37	7.26374e-09	1.000000	7.26374e-09	1.000000
rad30	6.35362e-09	1.000000	6.35362e-09	1.000000
rad3	5.50967e-09	1.000000	5.50967e-09	1.000000
rad7	5.18455e-09	1.000000	5.18455e-09	1.000000
rad4	2.86264e-09	1.000000	2.86264e-09	1.000000
rad11	2.10535e-09	1.000000	2.10535e-09	1.000000
PAH7+H	1.51891e-09	1.000000	1.51891e-09	1.000000
rad45	5.06108e-10	1.000000	5.06108e-10	1.000000
rad39	4.15626e-10	1.000000	4.15626e-10	1.000000
rad12	2.15419e-10	1.000000	2.15419e-10	1.000000
PAH9+H	2.04235e-10	1.000000	2.04235e-10	1.000000
rad38	1.12237e-10	1.000000	1.12237e-10	1.000000
rad19anti	6.27950e-11	1.000000	6.27950e-11	1.000000
PhcycC3H3_A+H	5.41885e-11	1.000000	5.41885e-11	1.000000
rad60syn	3.82083e-11	1.000000	3.82083e-11	1.000000
rad22	3.72948e-11	1.000000	3.72948e-11	1.000000
rad36	3.19300e-11	1.000000	3.19300e-11	1.000000
PAH10+CH3	2.70073e-11	1.000000	2.70073e-11	1.000000
PAH3+H	2.36234e-11	1.000000	2.36234e-11	1.000000
rad60anti	1.92266e-11	1.000000	1.92266e-11	1.000000
rad13	1.71510e-11	1.000000	1.71510e-11	1.000000
rad46	6.18181e-12	1.000000	6.18181e-12	1.000000
rad59	4.56056e-12	1.000000	4.56056e-12	1.000000
rad43	1.14085e-12	1.000000	1.14085e-12	1.000000
Phenyl+cycC3H4	8.50545e-13	1.000000	0.00000	1.000000
rad14	7.84927e-13	1.000000	7.84927e-13	1.000000
rad27	6.91166e-13	1.000000	6.91166e-13	1.000000
PhcycC3H3_B+H	6.76463e-13	1.000000	6.76463e-13	1.000000
rad62	2.03430e-13	1.000000	2.03430e-13	1.000000
rad5	1.79533e-13	1.000000	1.79533e-13	1.000000
rad54	9.49530e-14	1.000000	9.49530e-14	1.000000
rad50	7.68310e-14	1.000000	7.68310e-14	1.000000
rad33	2.03602e-14	1.000000	2.03602e-14	1.000000
rad25	1.74267e-14	1.000000	1.74267e-14	1.000000
rad18	1.06086e-14	1.000000	1.06086e-14	1.000000
rad70	1.00202e-14	1.000000	1.00202e-14	1.000000
PAH1+H	8.11632e-15	1.000000	8.11632e-15	1.000000
rad58	1.46878e-15	1.000000	1.46878e-15	1.000000
rad55	1.38725e-15	1.000000	1.38725e-15	1.000000
rad20	1.20502e-15	1.000000	1.20502e-15	1.000000
rad52	8.11376e-16	1.000000	8.11376e-16	1.000000
rad21	7.46978e-16	1.000000	7.46978e-16	1.000000
rad51	3.69533e-16	1.000000	3.69533e-16	1.000000
rad41	3.02978e-16	1.000000	3.02978e-16	1.000000
rad34	3.02435e-16	1.000000	3.02435e-16	1.000000
rad42	1.42333e-16	1.000000	1.42333e-16	1.000000
rad31	2.11286e-17	1.000000	2.11286e-17	1.000000
rad65	9.59905e-18	1.000000	9.59905e-18	1.000000
rad24	4.60096e-18	1.000000	4.60096e-18	1.000000
rad53	5.28000e-19	1.000000	5.28000e-19	1.000000
rad61	3.52895e-19	1.000000	3.52895e-19	1.000000
rad64	1.29688e-19	1.000000	1.29688e-19	1.000000
rad56	5.27836e-21	1.000000	5.27836e-21	1.000000
rad68syn	1.41947e-21	1.000000	1.41947e-21	1.000000
rad68anti	1.06052e-21	1.000000	1.06052e-21	1.000000
rad40syn	4.89382e-23	1.000000	4.89382e-23	1.000000
rad40anti	4.20172e-23	1.000000	4.20172e-23	1.000000
PAH8+H	7.70088e-24	1.000000	7.70088e-24	1.000000
rad47	4.40823e-24	1.000000	4.40823e-24	1.000000
rad73	1.11813e-24	1.000000	1.11813e-24	1.000000
rad71	1.05183e-26	1.000000	1.05183e-26	1.000000
rad19syn	4.33542e-30	1.000000	4.33542e-30	1.000000
rad8	8.53460e-50	1.000000	8.53460e-50	1.000000

100.000000 Pa, 250.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.71048e-14 (1.00)	2.71048e-14 (1.00)
Formation of rad19	2.70930e-14 (1.000)	2.70930e-14 (1.000)
H-abstraction to cyc2enyl	1.17991e-17 (0.000435)	1.17991e-17 (0.000435)
H-abstraction to cyclenyl	1.59554e-20 (5.89e-07)	1.59554e-20 (5.89e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.967595	0.967595	0.967595	0.967595
rad9	0.0315742	0.999169	0.0315742	0.999169

Benzene+cycloprop-2-enylidene	0.000435312	0.999605	0.000435312	0.999605
PhCHCH2+H	0.000332171	0.999937	0.000332171	0.999937
rad15	3.18126e-05	0.999969	3.18126e-05	0.999969
rad6	1.61303e-05	0.999985	1.61303e-05	0.999985
PhCCH+CH3	4.36279e-06	0.999989	4.36279e-06	0.999989
PhCCCH3+H	3.17512e-06	0.999992	3.17512e-06	0.999992
Ph+MeAc	2.66046e-06	0.999995	2.66046e-06	0.999995
C2H2+PhCH2	2.14601e-06	0.999997	2.14601e-06	0.999997
rad67	9.05690e-07	0.999998	9.05690e-07	0.999998
Benzene+cycloprop-1-enylidene	5.88656e-07	0.999999	5.88656e-07	0.999999
rad2	4.51541e-07	0.999999	4.51541e-07	0.999999
rad35	3.87501e-07	0.999999	3.87501e-07	0.999999
rad26	3.82063e-07	1.000000	3.82063e-07	1.000000
Ph+Allene	6.14957e-08	1.000000	6.14957e-08	1.000000
rad10	4.36213e-08	1.000000	4.36213e-08	1.000000
rad1	3.21351e-08	1.000000	3.21351e-08	1.000000
rad28	1.82025e-08	1.000000	1.82025e-08	1.000000
PhCH2CCH+H	1.21191e-08	1.000000	1.21191e-08	1.000000
rad37	8.46332e-09	1.000000	8.46332e-09	1.000000
rad23	7.35796e-09	1.000000	7.35796e-09	1.000000
rad30	6.96706e-09	1.000000	6.96706e-09	1.000000
rad7	5.45721e-09	1.000000	5.45721e-09	1.000000
rad3	5.01712e-09	1.000000	5.01712e-09	1.000000
rad4	2.61506e-09	1.000000	2.61506e-09	1.000000
rad11	2.21036e-09	1.000000	2.21036e-09	1.000000
PAH7+H	2.03513e-09	1.000000	2.03513e-09	1.000000
rad39	5.58451e-10	1.000000	5.58451e-10	1.000000
rad45	4.84306e-10	1.000000	4.84306e-10	1.000000
PAH9+H	2.35982e-10	1.000000	2.35982e-10	1.000000
rad12	1.86682e-10	1.000000	1.86682e-10	1.000000
rad38	1.32925e-10	1.000000	1.32925e-10	1.000000
PhcycC3H3_A+H	7.24326e-11	1.000000	7.24326e-11	1.000000
rad19anti	5.45941e-11	1.000000	5.45941e-11	1.000000
rad60syn	4.33431e-11	1.000000	4.33431e-11	1.000000
rad22	3.74687e-11	1.000000	3.74687e-11	1.000000
PAH10+CH3	3.53206e-11	1.000000	3.53206e-11	1.000000
rad36	3.07155e-11	1.000000	3.07155e-11	1.000000
PAH3+H	2.79494e-11	1.000000	2.79494e-11	1.000000
rad60anti	2.18756e-11	1.000000	2.18756e-11	1.000000
rad13	1.80398e-11	1.000000	1.80398e-11	1.000000
rad46	7.30596e-12	1.000000	7.30596e-12	1.000000
rad59	5.35792e-12	1.000000	5.35792e-12	1.000000
rad43	1.41293e-12	1.000000	1.41293e-12	1.000000
Phenyl+cycC3H4	1.23952e-12	1.000000	0.000000	1.000000
PhcycC3H3_B+H	1.08405e-12	1.000000	1.08405e-12	1.000000
rad14	7.11375e-13	1.000000	7.11375e-13	1.000000
rad27	6.25527e-13	1.000000	6.25527e-13	1.000000
rad62	2.51652e-13	1.000000	2.51652e-13	1.000000
rad5	1.51985e-13	1.000000	1.51985e-13	1.000000
rad54	1.37790e-13	1.000000	1.37790e-13	1.000000
rad50	9.71178e-14	1.000000	9.71178e-14	1.000000
rad33	2.15002e-14	1.000000	2.15002e-14	1.000000
rad25	1.82397e-14	1.000000	1.82397e-14	1.000000
rad70	1.38978e-14	1.000000	1.38978e-14	1.000000
PAH1+H	1.20176e-14	1.000000	1.20176e-14	1.000000
rad18	1.06124e-14	1.000000	1.06124e-14	1.000000
rad55	2.12801e-15	1.000000	2.12801e-15	1.000000
rad58	1.97171e-15	1.000000	1.97171e-15	1.000000
rad20	1.21594e-15	1.000000	1.21594e-15	1.000000
rad52	1.07421e-15	1.000000	1.07421e-15	1.000000
rad21	7.53952e-16	1.000000	7.53952e-16	1.000000
rad51	5.14347e-16	1.000000	5.14347e-16	1.000000
rad34	4.47897e-16	1.000000	4.47897e-16	1.000000
rad41	4.41054e-16	1.000000	4.41054e-16	1.000000
rad42	2.01671e-16	1.000000	2.01671e-16	1.000000
rad31	2.10291e-17	1.000000	2.10291e-17	1.000000
rad65	1.35912e-17	1.000000	1.35912e-17	1.000000
rad24	4.44020e-18	1.000000	4.44020e-18	1.000000
rad53	1.03797e-18	1.000000	1.03797e-18	1.000000
rad61	7.37197e-19	1.000000	7.37197e-19	1.000000
rad64	2.75586e-19	1.000000	2.75586e-19	1.000000
rad56	1.29103e-20	1.000000	1.29103e-20	1.000000
rad68syn	3.31154e-21	1.000000	3.31154e-21	1.000000
rad68anti	2.45951e-21	1.000000	2.45951e-21	1.000000
rad40syn	1.31935e-22	1.000000	1.31935e-22	1.000000
rad40anti	1.13261e-22	1.000000	1.13261e-22	1.000000
PAH8+H	2.38751e-23	1.000000	2.38751e-23	1.000000
rad47	5.00923e-24	1.000000	5.00923e-24	1.000000
rad73	3.13034e-24	1.000000	3.13034e-24	1.000000
rad71	3.51085e-26	1.000000	3.51085e-26	1.000000

rad19syn	1.76246e-29	1.000000	1.76246e-29	1.000000
rad8	1.26647e-49	1.000000	1.26647e-49	1.000000

100.000000 Pa, 260.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.97464e-14 (1.00)	2.97464e-14 (1.00)
Formation of rad19	2.97293e-14 (0.999)	2.97293e-14 (0.999)
H-abstraction to cyc2enyl	1.70236e-17 (0.000572)	1.70236e-17 (0.000572)
H-abstraction to cyc1enyl	3.02186e-20 (1.02e-06)	3.02186e-20 (1.02e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.972048	0.972048	0.972048	0.972048
rad9	0.0269622	0.999011	0.0269622	0.999011
Benzene+cycloprop-2-enylidene	0.000572291	0.999583	0.000572291	0.999583
PhCCH2+H	0.000356244	0.999939	0.000356244	0.999939
rad15	2.70446e-05	0.999966	2.70446e-05	0.999966
rad6	1.70836e-05	0.999983	1.70836e-05	0.999983
PhCCH+CH3	4.73297e-06	0.999988	4.73297e-06	0.999988
PhCCCH3+H	3.47826e-06	0.999992	3.47826e-06	0.999992
Ph+MeAc	2.96652e-06	0.999994	2.96652e-06	0.999994
C2H2+PhCH2	2.38331e-06	0.999997	2.38331e-06	0.999997
Benzene+cycloprop-1-enylidene	1.01588e-06	0.999998	1.01588e-06	0.999998
rad67	9.93395e-07	0.999999	9.93395e-07	0.999999
rad35	4.23639e-07	0.999999	4.23639e-07	0.999999
rad2	4.10229e-07	1.000000	4.10229e-07	1.000000
rad26	3.55543e-07	1.000000	3.55543e-07	1.000000
Ph+Allene	7.44933e-08	1.000000	7.44933e-08	1.000000
rad10	3.95597e-08	1.000000	3.95597e-08	1.000000
rad1	2.95556e-08	1.000000	2.95556e-08	1.000000
rad28	2.01858e-08	1.000000	2.01858e-08	1.000000
PhCH2CCH+H	1.48117e-08	1.000000	1.48117e-08	1.000000
rad37	9.84342e-09	1.000000	9.84342e-09	1.000000
rad30	7.65011e-09	1.000000	7.65011e-09	1.000000
rad23	7.16361e-09	1.000000	7.16361e-09	1.000000
rad7	5.74031e-09	1.000000	5.74031e-09	1.000000
rad3	4.56021e-09	1.000000	4.56021e-09	1.000000
PAH7+H	2.71890e-09	1.000000	2.71890e-09	1.000000
rad4	2.38513e-09	1.000000	2.38513e-09	1.000000
rad11	2.31936e-09	1.000000	2.31936e-09	1.000000
rad39	7.47735e-10	1.000000	7.47735e-10	1.000000
rad45	4.68606e-10	1.000000	4.68606e-10	1.000000
PAH9+H	2.73612e-10	1.000000	2.73612e-10	1.000000
rad12	1.61634e-10	1.000000	1.61634e-10	1.000000
rad38	1.57875e-10	1.000000	1.57875e-10	1.000000
PhcycC3H3_A+H	9.68630e-11	1.000000	9.68630e-11	1.000000
rad60syn	4.92804e-11	1.000000	4.92804e-11	1.000000
rad19anti	4.75336e-11	1.000000	4.75336e-11	1.000000
PAH10+CH3	4.61099e-11	1.000000	4.61099e-11	1.000000
rad22	3.78023e-11	1.000000	3.78023e-11	1.000000
PAH3+H	3.31743e-11	1.000000	3.31743e-11	1.000000
rad36	2.98939e-11	1.000000	2.98939e-11	1.000000
rad60anti	2.49481e-11	1.000000	2.49481e-11	1.000000
rad13	1.89652e-11	1.000000	1.89652e-11	1.000000
rad46	8.67003e-12	1.000000	8.67003e-12	1.000000
rad59	6.31362e-12	1.000000	6.31362e-12	1.000000
Phenyl+cycC3H4	1.79997e-12	1.000000	0.000000	1.000000
rad43	1.74991e-12	1.000000	1.74991e-12	1.000000
PhcycC3H3_B+H	1.71475e-12	1.000000	1.71475e-12	1.000000
rad14	6.43790e-13	1.000000	6.43790e-13	1.000000
rad27	5.65021e-13	1.000000	5.65021e-13	1.000000
rad62	3.11226e-13	1.000000	3.11226e-13	1.000000
rad54	2.00201e-13	1.000000	2.00201e-13	1.000000
rad5	1.28732e-13	1.000000	1.28732e-13	1.000000
rad50	1.23419e-13	1.000000	1.23419e-13	1.000000
rad33	2.26978e-14	1.000000	2.26978e-14	1.000000
rad70	1.93766e-14	1.000000	1.93766e-14	1.000000
rad25	1.90874e-14	1.000000	1.90874e-14	1.000000
PAH1+H	1.77262e-14	1.000000	1.77262e-14	1.000000
rad18	1.06400e-14	1.000000	1.06400e-14	1.000000
rad55	3.26151e-15	1.000000	3.26151e-15	1.000000
rad58	2.65300e-15	1.000000	2.65300e-15	1.000000
rad52	1.42999e-15	1.000000	1.42999e-15	1.000000
rad20	1.23127e-15	1.000000	1.23127e-15	1.000000
rad21	7.63713e-16	1.000000	7.63713e-16	1.000000
rad51	7.19466e-16	1.000000	7.19466e-16	1.000000
rad34	6.65165e-16	1.000000	6.65165e-16	1.000000
rad41	6.38494e-16	1.000000	6.38494e-16	1.000000

rad42	2.84406e-16	1.00000	2.84406e-16	1.00000
rad31	2.10546e-17	1.00000	2.10546e-17	1.00000
rad65	1.93197e-17	1.00000	1.93197e-17	1.00000
rad24	4.33630e-18	1.00000	4.33630e-18	1.00000
rad53	2.00070e-18	1.00000	2.00070e-18	1.00000
rad61	1.48564e-18	1.00000	1.48564e-18	1.00000
rad64	5.68042e-19	1.00000	5.68042e-19	1.00000
rad56	3.01643e-20	1.00000	3.01643e-20	1.00000
rad68syn	7.40606e-21	1.00000	7.40606e-21	1.00000
rad68anti	5.47127e-21	1.00000	5.47127e-21	1.00000
rad40syn	3.32923e-22	1.00000	3.32923e-22	1.00000
rad40anti	2.85595e-22	1.00000	2.85595e-22	1.00000
PAH8+H	6.79927e-23	1.00000	6.79927e-23	1.00000
rad73	8.20813e-24	1.00000	8.20813e-24	1.00000
rad47	5.79270e-24	1.00000	5.79270e-24	1.00000
rad71	1.06646e-25	1.00000	1.06646e-25	1.00000
rad19syn	7.46211e-29	1.00000	7.46211e-29	1.00000
rad8	1.91266e-49	1.00000	1.91266e-49	1.00000

100.000000 Pa, 270.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.24655e-14 (1.00)	3.24655e-14 (1.00)
Formation of rad19	3.24415e-14 (0.999)	3.24415e-14 (0.999)
H-abstraction to cyc2enyl	2.38790e-17 (0.000736)	2.38790e-17 (0.000736)
H-abstraction to cyclenyl	5.45397e-20 (1.68e-06)	5.45397e-20 (1.68e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.975840	0.975840	0.975840	0.975840
rad9	0.0229824	0.998823	0.0229824	0.998823
Benzene+cycloprop-2-enylidene	0.000735519	0.999558	0.000735519	0.999558
PhCHCCH2+H	0.000382286	0.999940	0.000382286	0.999940
rad15	2.29547e-05	0.999963	2.29547e-05	0.999963
rad6	1.80723e-05	0.999981	1.80723e-05	0.999981
PhCCH+CH3	5.13156e-06	0.999986	5.13156e-06	0.999986
PhCCCH3+H	3.80841e-06	0.999990	3.80841e-06	0.999990
Ph+MeAc	3.30664e-06	0.999994	3.30664e-06	0.999994
C2H2+PhCH2	2.65350e-06	0.999996	2.65350e-06	0.999996
Benzene+cycloprop-1-enylidene	1.67993e-06	0.999998	1.67993e-06	0.999998
rad67	1.09068e-06	0.999999	1.09068e-06	0.999999
rad35	4.63585e-07	0.999999	4.63585e-07	0.999999
rad2	3.71874e-07	1.000000	3.71874e-07	1.000000
rad26	3.28789e-07	1.000000	3.28789e-07	1.000000
Ph+Allene	9.07092e-08	1.000000	9.07092e-08	1.000000
rad10	3.58010e-08	1.000000	3.58010e-08	1.000000
rad1	2.71485e-08	1.000000	2.71485e-08	1.000000
rad28	2.22742e-08	1.000000	2.22742e-08	1.000000
PhCH2CCH+H	1.81941e-08	1.000000	1.81941e-08	1.000000
rad37	1.14290e-08	1.000000	1.14290e-08	1.000000
rad30	8.41149e-09	1.000000	8.41149e-09	1.000000
rad23	7.04083e-09	1.000000	7.04083e-09	1.000000
rad7	6.03307e-09	1.000000	6.03307e-09	1.000000
rad3	4.13880e-09	1.000000	4.13880e-09	1.000000
PAH7+H	3.61968e-09	1.000000	3.61968e-09	1.000000
rad11	2.43205e-09	1.000000	2.43205e-09	1.000000
rad4	2.17281e-09	1.000000	2.17281e-09	1.000000
rad39	9.97141e-10	1.000000	9.97141e-10	1.000000
rad45	4.58054e-10	1.000000	4.58054e-10	1.000000
PAH9+H	3.18354e-10	1.000000	3.18354e-10	1.000000
rad38	1.88000e-10	1.000000	1.88000e-10	1.000000
rad12	1.39849e-10	1.000000	1.39849e-10	1.000000
PhcycC3H3_A+H	1.29498e-10	1.000000	1.29498e-10	1.000000
PAH10+CH3	6.00679e-11	1.000000	6.00679e-11	1.000000
rad60syn	5.61535e-11	1.000000	5.61535e-11	1.000000
rad19anti	4.14581e-11	1.000000	4.14581e-11	1.000000
PAH3+H	3.94923e-11	1.000000	3.94923e-11	1.000000
rad22	3.82692e-11	1.000000	3.82692e-11	1.000000
rad36	2.94095e-11	1.000000	2.94095e-11	1.000000
rad60anti	2.85160e-11	1.000000	2.85160e-11	1.000000
rad13	1.99248e-11	1.000000	1.99248e-11	1.000000
rad46	1.03305e-11	1.000000	1.03305e-11	1.000000
rad59	7.46038e-12	1.000000	7.46038e-12	1.000000
PhcycC3H3_B+H	2.67871e-12	1.000000	2.67871e-12	1.000000
Phenyl+cycC3H4	2.60320e-12	1.000000	0.000000	1.000000
rad43	2.16669e-12	1.000000	2.16669e-12	1.000000
rad14	5.81987e-13	1.000000	5.81987e-13	1.000000
rad27	5.09507e-13	1.000000	5.09507e-13	1.000000
rad62	3.84749e-13	1.000000	3.84749e-13	1.000000

rad54	2.90841e-13	1.00000	2.90841e-13	1.00000
rad50	1.57627e-13	1.00000	1.57627e-13	1.00000
rad5	1.09097e-13	1.00000	1.09097e-13	1.00000
rad70	2.71234e-14	1.00000	2.71234e-14	1.00000
PAH1+H	2.60355e-14	1.00000	2.60355e-14	1.00000
rad33	2.39520e-14	1.00000	2.39520e-14	1.00000
rad25	1.99670e-14	1.00000	1.99670e-14	1.00000
rad18	1.06881e-14	1.00000	1.06881e-14	1.00000
rad55	4.98640e-15	1.00000	4.98640e-15	1.00000
rad58	3.57508e-15	1.00000	3.57508e-15	1.00000
rad52	1.91280e-15	1.00000	1.91280e-15	1.00000
rad20	1.25076e-15	1.00000	1.25076e-15	1.00000
rad51	1.01042e-15	1.00000	1.01042e-15	1.00000
rad34	9.89143e-16	1.00000	9.89143e-16	1.00000
rad41	9.18887e-16	1.00000	9.18887e-16	1.00000
rad21	7.76108e-16	1.00000	7.76108e-16	1.00000
rad42	3.99117e-16	1.00000	3.99117e-16	1.00000
rad65	2.75441e-17	1.00000	2.75441e-17	1.00000
rad31	2.12276e-17	1.00000	2.12276e-17	1.00000
rad24	4.28171e-18	1.00000	4.28171e-18	1.00000
rad53	3.77719e-18	1.00000	3.77719e-18	1.00000
rad61	2.89431e-18	1.00000	2.89431e-18	1.00000
rad64	1.13575e-18	1.00000	1.13575e-18	1.00000
rad56	6.74013e-20	1.00000	6.74013e-20	1.00000
rad68syn	1.59043e-20	1.00000	1.59043e-20	1.00000
rad68anti	1.16940e-20	1.00000	1.16940e-20	1.00000
rad40syn	7.90128e-22	1.00000	7.90128e-22	1.00000
rad40anti	6.77053e-22	1.00000	6.77053e-22	1.00000
PAH8+H	1.79095e-22	1.00000	1.79095e-22	1.00000
rad73	2.02272e-23	1.00000	2.02272e-23	1.00000
rad47	6.82682e-24	1.00000	6.82682e-24	1.00000
rad71	2.97173e-25	1.00000	2.97173e-25	1.00000
rad19syn	3.27891e-28	1.00000	3.27891e-28	1.00000
rad8	2.94123e-49	1.00000	2.94123e-49	1.00000

100.000000 Pa, 280.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.52572e-14 (1.00)	3.52572e-14 (1.00)
Formation of rad19	3.52244e-14 (0.999)	3.52244e-14 (0.999)
H-abstraction to cyc2enyl	3.26639e-17 (0.000926)	3.26639e-17 (0.000926)
H-abstraction to cyc1enyl	9.42926e-20 (2.67e-06)	9.42926e-20 (2.67e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.979046	0.979046	0.979046	0.979046
rad9	0.0195576	0.998603	0.0195576	0.998603
Benzene+cycloprop-2-enylidene	0.000926445	0.999530	0.000926445	0.999530
PhCHCCH2+H	0.000410478	0.999940	0.000410478	0.999940
rad15	1.94550e-05	0.999959	1.94550e-05	0.999959
rad6	1.90927e-05	0.999979	1.90927e-05	0.999979
PhCCH+CH3	5.56138e-06	0.999984	5.56138e-06	0.999984
PhCCCH3+H	4.16812e-06	0.999988	4.16812e-06	0.999988
Ph+MeAc	3.68466e-06	0.999992	3.68466e-06	0.999992
C2H2+PhCH2	2.96174e-06	0.999995	2.96174e-06	0.999995
Benzene+cycloprop-1-enylidene	2.67442e-06	0.999998	2.67442e-06	0.999998
rad67	1.19861e-06	0.999999	1.19861e-06	0.999999
rad35	5.07759e-07	0.999999	5.07759e-07	0.999999
rad2	3.36473e-07	1.000000	3.36473e-07	1.000000
rad26	3.02198e-07	1.000000	3.02198e-07	1.000000
Ph+Allene	1.10974e-07	1.000000	1.10974e-07	1.000000
rad10	3.23418e-08	1.000000	3.23418e-08	1.000000
rad1	2.49147e-08	1.000000	2.49147e-08	1.000000
rad28	2.44540e-08	1.000000	2.44540e-08	1.000000
PhCH2CCH+H	2.24504e-08	1.000000	2.24504e-08	1.000000
rad37	1.32479e-08	1.000000	1.32479e-08	1.000000
rad30	9.26088e-09	1.000000	9.26088e-09	1.000000
rad23	6.97860e-09	1.000000	6.97860e-09	1.000000
rad7	6.33430e-09	1.000000	6.33430e-09	1.000000
PAH7+H	4.79926e-09	1.000000	4.79926e-09	1.000000
rad3	3.75232e-09	1.000000	3.75232e-09	1.000000
rad11	2.54792e-09	1.000000	2.54792e-09	1.000000
rad4	1.97784e-09	1.000000	1.97784e-09	1.000000
rad39	1.32369e-09	1.000000	1.32369e-09	1.000000
rad45	4.51844e-10	1.000000	4.51844e-10	1.000000
PAH9+H	3.71687e-10	1.000000	3.71687e-10	1.000000
rad38	2.24394e-10	1.000000	2.24394e-10	1.000000
PhcycC3H3_A+H	1.72961e-10	1.000000	1.72961e-10	1.000000
rad12	1.20941e-10	1.000000	1.20941e-10	1.000000

PAH10+CH3	7.80616e-11	1.00000	7.80616e-11	1.00000
rad60syn	6.41165e-11	1.00000	6.41165e-11	1.00000
PAH3+H	4.71384e-11	1.00000	4.71384e-11	1.00000
rad22	3.88442e-11	1.00000	3.88442e-11	1.00000
rad19anti	3.62310e-11	1.00000	3.62310e-11	1.00000
rad60anti	3.26626e-11	1.00000	3.26626e-11	1.00000
rad36	2.92165e-11	1.00000	2.92165e-11	1.00000
rad13	2.09150e-11	1.00000	2.09150e-11	1.00000
rad46	1.23569e-11	1.00000	1.23569e-11	1.00000
rad59	8.83740e-12	1.00000	8.83740e-12	1.00000
PhcycC3H3_B+H	4.13370e-12	1.00000	4.13370e-12	1.00000
Phenyl+cycC3H4	3.74742e-12	1.00000	0.00000	1.00000
rad43	2.68139e-12	1.00000	2.68139e-12	1.00000
rad14	5.25747e-13	1.00000	5.25747e-13	1.00000
rad62	4.75363e-13	1.00000	4.75363e-13	1.00000
rad27	4.58817e-13	1.00000	4.58817e-13	1.00000
rad54	4.21845e-13	1.00000	4.21845e-13	1.00000
rad50	2.02216e-13	1.00000	2.02216e-13	1.00000
rad5	9.25112e-14	1.00000	9.25112e-14	1.00000
rad70	3.80682e-14	1.00000	3.80682e-14	1.00000
PAH1+H	3.80570e-14	1.00000	3.80570e-14	1.00000
rad33	2.52603e-14	1.00000	2.52603e-14	1.00000
rad25	2.08751e-14	1.00000	2.08751e-14	1.00000
rad18	1.07535e-14	1.00000	1.07535e-14	1.00000
rad55	7.59202e-15	1.00000	7.59202e-15	1.00000
rad58	4.82080e-15	1.00000	4.82080e-15	1.00000
rad52	2.56889e-15	1.00000	2.56889e-15	1.00000
rad34	1.47050e-15	1.00000	1.47050e-15	1.00000
rad51	1.42309e-15	1.00000	1.42309e-15	1.00000
rad41	1.31417e-15	1.00000	1.31417e-15	1.00000
rad20	1.27416e-15	1.00000	1.27416e-15	1.00000
rad21	7.90998e-16	1.00000	7.90998e-16	1.00000
rad42	5.57218e-16	1.00000	5.57218e-16	1.00000
rad65	3.93392e-17	1.00000	3.93392e-17	1.00000
rad31	2.15760e-17	1.00000	2.15760e-17	1.00000
rad53	6.97585e-18	1.00000	6.97585e-18	1.00000
rad61	5.45909e-18	1.00000	5.45909e-18	1.00000
rad24	4.27024e-18	1.00000	4.27024e-18	1.00000
rad64	2.20235e-18	1.00000	2.20235e-18	1.00000
rad56	1.44157e-19	1.00000	1.44157e-19	1.00000
rad68syn	3.28290e-20	1.00000	3.28290e-20	1.00000
rad68anti	2.40382e-20	1.00000	2.40382e-20	1.00000
rad40syn	1.77087e-21	1.00000	1.77087e-21	1.00000
rad40anti	1.51534e-21	1.00000	1.51534e-21	1.00000
PAH8+H	4.38995e-22	1.00000	4.38995e-22	1.00000
rad73	4.69911e-23	1.00000	4.69911e-23	1.00000
rad47	8.21060e-24	1.00000	8.21060e-24	1.00000
rad71	7.65104e-25	1.00000	7.65104e-25	1.00000
rad19syn	1.48927e-27	1.00000	1.48927e-27	1.00000
rad8	4.60818e-49	1.00000	4.60818e-49	1.00000

100.000000 Pa, 290.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.81171e-14 (1.00)	3.81171e-14 (1.00)
Formation of rad19	3.80733e-14 (0.999)	3.80733e-14 (0.999)
H-abstraction to cyc2enyl	4.36868e-17 (0.00115)	4.36868e-17 (0.00115)
H-abstraction to cyclenyl	1.56861e-19 (4.12e-06)	1.56861e-19 (4.12e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.981732	0.981732	0.981732	0.981732
rad9	0.0166186	0.998351	0.0166186	0.998351
Benzene+cycloprop-2-enylidene	0.00114612	0.999497	0.00114612	0.999497
PhCHCCH2+H	0.000441008	0.999938	0.000441008	0.999938
rad6	2.01402e-05	0.999958	2.01402e-05	0.999958
rad15	1.64677e-05	0.999975	1.64677e-05	0.999975
PhCCH+CH3	6.02550e-06	0.999981	6.02550e-06	0.999981
PhCCCH3+H	4.56019e-06	0.999985	4.56019e-06	0.999985
Benzene+cycloprop-1-enylidene	4.11523e-06	0.999989	4.11523e-06	0.999989
Ph+MeAc	4.10478e-06	0.999994	4.10478e-06	0.999994
C2H2+PhCH2	3.31384e-06	0.999997	3.31384e-06	0.999997
rad67	1.31835e-06	0.999998	1.31835e-06	0.999998
rad35	5.56611e-07	0.999999	5.56611e-07	0.999999
rad2	3.03989e-07	0.999999	3.03989e-07	0.999999
rad26	2.76124e-07	0.999999	2.76124e-07	0.999999
Ph+Allene	1.36314e-07	0.999999	1.36314e-07	0.999999
rad10	2.91759e-08	1.000000	2.91759e-08	1.000000
PhCH2CCH+H	2.78107e-08	1.000000	2.78107e-08	1.000000

rad28	2.67085e-08	1.000000	2.67085e-08	1.000000
rad1	2.28537e-08	1.000000	2.28537e-08	1.000000
rad37	1.53316e-08	1.000000	1.53316e-08	1.000000
rad30	1.02089e-08	1.000000	1.02089e-08	1.000000
rad23	6.96728e-09	1.000000	6.96728e-09	1.000000
rad7	6.64237e-09	1.000000	6.64237e-09	1.000000
PAH7+H	6.33377e-09	1.000000	6.33377e-09	1.000000
rad3	3.39992e-09	1.000000	3.39992e-09	1.000000
rad11	2.66633e-09	1.000000	2.66633e-09	1.000000
rad4	1.79985e-09	1.000000	1.79985e-09	1.000000
rad39	1.74831e-09	1.000000	1.74831e-09	1.000000
rad45	4.49297e-10	1.000000	4.49297e-10	1.000000
PAH9+H	4.35384e-10	1.000000	4.35384e-10	1.000000
rad38	2.68367e-10	1.000000	2.68367e-10	1.000000
PhcycC3H3_A+H	2.30617e-10	1.000000	2.30617e-10	1.000000
rad12	1.04565e-10	1.000000	1.04565e-10	1.000000
PAH10+CH3	1.01168e-10	1.000000	1.01168e-10	1.000000
rad60syn	7.33463e-11	1.000000	7.33463e-11	1.000000
PAH3+H	5.63943e-11	1.000000	5.63943e-11	1.000000
rad22	3.95038e-11	1.000000	3.95038e-11	1.000000
rad60anti	3.74841e-11	1.000000	3.74841e-11	1.000000
rad19anti	3.17315e-11	1.000000	3.17315e-11	1.000000
rad36	2.92765e-11	1.000000	2.92765e-11	1.000000
rad13	2.19310e-11	1.000000	2.19310e-11	1.000000
rad46	1.48346e-11	1.000000	1.48346e-11	1.000000
rad59	1.04913e-11	1.000000	1.04913e-11	1.000000
PhcycC3H3_B+H	6.30125e-12	1.000000	6.30125e-12	1.000000
Phenyl+cycC3H4	5.36584e-12	1.000000	0.00000	1.000000
rad43	3.31566e-12	1.000000	3.31566e-12	1.000000
rad54	6.09957e-13	1.000000	6.09957e-13	1.000000
rad62	5.86861e-13	1.000000	5.86861e-13	1.000000
rad14	4.74821e-13	1.000000	4.74821e-13	1.000000
rad27	4.12754e-13	1.000000	4.12754e-13	1.000000
rad50	2.60407e-13	1.000000	2.60407e-13	1.000000
rad5	7.85048e-14	1.000000	7.85048e-14	1.000000
PAH1+H	5.53270e-14	1.000000	5.53270e-14	1.000000
rad70	5.34899e-14	1.000000	5.34899e-14	1.000000
rad33	2.66188e-14	1.000000	2.66188e-14	1.000000
rad25	2.18068e-14	1.000000	2.18068e-14	1.000000
rad55	1.14918e-14	1.000000	1.14918e-14	1.000000
rad18	1.08327e-14	1.000000	1.08327e-14	1.000000
rad58	6.49900e-15	1.000000	6.49900e-15	1.000000
rad52	3.46043e-15	1.000000	3.46043e-15	1.000000
rad34	2.18159e-15	1.000000	2.18159e-15	1.000000
rad51	2.00730e-15	1.000000	2.00730e-15	1.000000
rad41	1.86698e-15	1.000000	1.86698e-15	1.000000
rad20	1.30125e-15	1.000000	1.30125e-15	1.000000
rad21	8.08252e-16	1.000000	8.08252e-16	1.000000
rad42	7.73717e-16	1.000000	7.73717e-16	1.000000
rad65	5.62070e-17	1.000000	5.62070e-17	1.000000
rad31	2.21353e-17	1.000000	2.21353e-17	1.000000
rad53	1.25861e-17	1.000000	1.25861e-17	1.000000
rad61	9.97855e-18	1.000000	9.97855e-18	1.000000
rad24	4.29685e-18	1.000000	4.29685e-18	1.000000
rad64	4.14069e-18	1.000000	4.14069e-18	1.000000
rad56	2.95360e-19	1.000000	2.95360e-19	1.000000
rad68syn	6.51816e-20	1.000000	6.51816e-20	1.000000
rad68anti	4.75567e-20	1.000000	4.75567e-20	1.000000
rad40syn	3.76133e-21	1.000000	3.76133e-21	1.000000
rad40anti	3.21358e-21	1.000000	3.21358e-21	1.000000
PAH8+H	1.00689e-21	1.000000	1.00689e-21	1.000000
rad73	1.03222e-22	1.000000	1.03222e-22	1.000000
rad47	1.00900e-23	1.000000	1.00900e-23	1.000000
rad71	1.83191e-24	1.000000	1.83191e-24	1.000000
rad19syn	6.96036e-27	1.000000	6.96036e-27	1.000000
rad8	7.36125e-49	1.000000	7.36125e-49	1.000000

100.000000 Pa, 300.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.34809e-14 (1.00)	5.34809e-14 (1.00)
Formation of rad19	5.34010e-14 (0.999)	5.34010e-14 (0.999)
H-abstraction to cyc2enyl	7.95823e-17 (0.00149)	7.95823e-17 (0.00149)
H-abstraction to cyclenyl	3.44981e-19 (6.45e-06)	3.44981e-19 (6.45e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.984247	0.984247	0.984247	0.984247
rad9	0.0137288	0.997976	0.0137288	0.997976

Benzene+cycloprop-2-enylidene	0.00148805	0.999464	0.00148805	0.999464
PhCHCCH2+H	0.000470135	0.999934	0.000470135	0.999934
rad6	2.14180e-05	0.999955	2.14180e-05	0.999955
rad15	1.37785e-05	0.999969	1.37785e-05	0.999969
PhCCH+CH3	7.25328e-06	0.999976	7.25328e-06	0.999976
Benzene+cycloprop-1-enylidene	6.45054e-06	0.999983	6.45054e-06	0.999983
PhCCCH3+H	5.27813e-06	0.999988	5.27813e-06	0.999988
Ph+MeAc	4.87715e-06	0.999993	4.87715e-06	0.999993
C2H2+PhCH2	4.56972e-06	0.999997	4.56972e-06	0.999997
rad67	1.56593e-06	0.999999	1.56593e-06	0.999999
rad35	6.47655e-07	1.000000	6.47655e-07	1.000000
rad2	2.42835e-07	1.000000	2.42835e-07	1.000000
rad26	2.14672e-07	1.000000	2.14672e-07	1.000000
Ph+Allene	2.08747e-07	1.000000	2.08747e-07	1.000000
PhCH2CCH+H	5.08456e-08	1.000000	5.08456e-08	1.000000
rad28	3.05284e-08	1.000000	3.05284e-08	1.000000
rad37	2.22641e-08	1.000000	2.22641e-08	1.000000
rad10	2.17125e-08	1.000000	2.17125e-08	1.000000
rad1	1.82992e-08	1.000000	1.82992e-08	1.000000
PAH7+H	1.64036e-08	1.000000	1.64036e-08	1.000000
rad30	1.16785e-08	1.000000	1.16785e-08	1.000000
rad23	7.38846e-09	1.000000	7.38846e-09	1.000000
rad7	6.86445e-09	1.000000	6.86445e-09	1.000000
rad39	4.00351e-09	1.000000	4.00351e-09	1.000000
rad3	2.82132e-09	1.000000	2.82132e-09	1.000000
rad11	2.54226e-09	1.000000	2.54226e-09	1.000000
rad4	1.40312e-09	1.000000	1.40312e-09	1.000000
PAH9+H	7.08786e-10	1.000000	7.08786e-10	1.000000
rad45	5.34832e-10	1.000000	5.34832e-10	1.000000
rad38	4.02811e-10	1.000000	4.02811e-10	1.000000
PhcycC3H3_A+H	3.24693e-10	1.000000	3.24693e-10	1.000000
PAH10+CH3	1.97287e-10	1.000000	1.97287e-10	1.000000
rad12	1.46119e-10	1.000000	1.46119e-10	1.000000
rad60syn	9.03262e-11	1.000000	9.03262e-11	1.000000
PAH3+H	8.51592e-11	1.000000	8.51592e-11	1.000000
rad60anti	4.66941e-11	1.000000	4.66941e-11	1.000000
rad22	4.52075e-11	1.000000	4.52075e-11	1.000000
rad19anti	2.75270e-11	1.000000	2.75270e-11	1.000000
rad46	2.33800e-11	1.000000	2.33800e-11	1.000000
rad13	2.33719e-11	1.000000	2.33719e-11	1.000000
rad36	1.82288e-11	1.000000	1.82288e-11	1.000000
rad59	1.44065e-11	1.000000	1.44065e-11	1.000000
PhcycC3H3_B+H	1.06155e-11	1.000000	1.06155e-11	1.000000
Phenyl+cycC3H4	8.20984e-12	1.000000	0.000000	1.000000
rad43	4.85040e-12	1.000000	4.85040e-12	1.000000
rad54	1.90355e-12	1.000000	1.90355e-12	1.000000
rad62	8.79886e-13	1.000000	8.79886e-13	1.000000
rad50	4.88070e-13	1.000000	4.88070e-13	1.000000
rad14	3.79249e-13	1.000000	3.79249e-13	1.000000
rad27	3.48317e-13	1.000000	3.48317e-13	1.000000
rad70	1.26270e-13	1.000000	1.26270e-13	1.000000
rad5	9.97740e-14	1.000000	9.97740e-14	1.000000
PAH1+H	9.44318e-14	1.000000	9.44318e-14	1.000000
rad55	3.81175e-14	1.000000	3.81175e-14	1.000000
rad33	3.59046e-14	1.000000	3.59046e-14	1.000000
rad25	2.46008e-14	1.000000	2.46008e-14	1.000000
rad18	1.59558e-14	1.000000	1.59558e-14	1.000000
rad58	1.04348e-14	1.000000	1.04348e-14	1.000000
rad52	7.43572e-15	1.000000	7.43572e-15	1.000000
rad34	5.86634e-15	1.000000	5.86634e-15	1.000000
rad51	4.56684e-15	1.000000	4.56684e-15	1.000000
rad41	3.48751e-15	1.000000	3.48751e-15	1.000000
rad20	2.88092e-15	1.000000	2.88092e-15	1.000000
rad21	1.90779e-15	1.000000	1.90779e-15	1.000000
rad42	1.43607e-15	1.000000	1.43607e-15	1.000000
rad65	1.32075e-16	1.000000	1.32075e-16	1.000000
rad53	6.72487e-17	1.000000	6.72487e-17	1.000000
rad31	5.31904e-17	1.000000	5.31904e-17	1.000000
rad61	3.11358e-17	1.000000	3.11358e-17	1.000000
rad64	2.66668e-17	1.000000	2.66668e-17	1.000000
rad24	6.29487e-18	1.000000	6.29487e-18	1.000000
rad56	2.44787e-18	1.000000	2.44787e-18	1.000000
rad68syn	3.55350e-19	1.000000	3.55350e-19	1.000000
rad68anti	2.54536e-19	1.000000	2.54536e-19	1.000000
rad40syn	1.66720e-20	1.000000	1.66720e-20	1.000000
rad40anti	1.28563e-20	1.000000	1.28563e-20	1.000000
PAH8+H	7.22004e-21	1.000000	7.22004e-21	1.000000
rad19syn	1.12392e-21	1.000000	1.12392e-21	1.000000
rad73	8.68659e-22	1.000000	8.68659e-22	1.000000
rad47	6.82567e-23	1.000000	6.82567e-23	1.000000

rad71	3.46343e-23	1.00000	3.46343e-23	1.00000
rad72	1.86711e-29	1.00000	1.86711e-29	1.00000
rad8	2.52947e-38	1.00000	2.52947e-38	1.00000

100.000000 Pa, 310.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.92544e-14 (1.00)	5.92544e-14 (1.00)
Formation of rad19	5.91462e-14 (0.998)	5.91462e-14 (0.998)
H-abstraction to cyc2enyl	1.07628e-16 (0.00182)	1.07628e-16 (0.00182)
H-abstraction to cyc1enyl	5.62537e-19 (9.49e-06)	5.62537e-19 (9.49e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.985650	0.985650	0.985650	0.985650
rad9	0.0119550	0.997605	0.0119550	0.997605
Benzene+cycloprop-2-enylidene	0.00181637	0.999421	0.00181637	0.999421
PhCHCCH2+H	0.000509815	0.999931	0.000509815	0.999931
rad6	2.22857e-05	0.999954	2.22857e-05	0.999954
rad15	1.17614e-05	0.999965	1.17614e-05	0.999965
Benzene+cycloprop-1-enylidene	9.49359e-06	0.999975	9.49359e-06	0.999975
PhCCH+CH3	7.06935e-06	0.999982	7.06935e-06	0.999982
PhCCCH3+H	5.45258e-06	0.999987	5.45258e-06	0.999987
Ph+MeAc	5.08908e-06	0.999992	5.08908e-06	0.999992
C2H2+PhCH2	4.17611e-06	0.999997	4.17611e-06	0.999997
rad67	1.59825e-06	0.999998	1.59825e-06	0.999998
rad35	6.70237e-07	0.999999	6.70237e-07	0.999999
rad2	2.47427e-07	0.999999	2.47427e-07	0.999999
rad26	2.26676e-07	0.999999	2.26676e-07	0.999999
Ph+Allene	2.07453e-07	1.000000	2.07453e-07	1.000000
PhCH2CCH+H	4.30317e-08	1.000000	4.30317e-08	1.000000
rad28	3.13555e-08	1.000000	3.13555e-08	1.000000
rad10	2.36816e-08	1.000000	2.36816e-08	1.000000
rad37	2.04340e-08	1.000000	2.04340e-08	1.000000
rad1	1.92342e-08	1.000000	1.92342e-08	1.000000
rad30	1.24472e-08	1.000000	1.24472e-08	1.000000
PAH7+H	1.08534e-08	1.000000	1.08534e-08	1.000000
rad7	7.26915e-09	1.000000	7.26915e-09	1.000000
rad23	7.06339e-09	1.000000	7.06339e-09	1.000000
rad39	2.99738e-09	1.000000	2.99738e-09	1.000000
rad11	2.90682e-09	1.000000	2.90682e-09	1.000000
rad3	2.79198e-09	1.000000	2.79198e-09	1.000000
rad4	1.49219e-09	1.000000	1.49219e-09	1.000000
PAH9+H	6.02555e-10	1.000000	6.02555e-10	1.000000
rad45	4.52920e-10	1.000000	4.52920e-10	1.000000
PhcycC3H3_A+H	4.06575e-10	1.000000	4.06575e-10	1.000000
rad38	3.85461e-10	1.000000	3.85461e-10	1.000000
PAH10+CH3	1.68264e-10	1.000000	1.68264e-10	1.000000
rad60syn	9.64295e-11	1.000000	9.64295e-11	1.000000
PAH3+H	8.11258e-11	1.000000	8.11258e-11	1.000000
rad12	7.81935e-11	1.000000	7.81935e-11	1.000000
rad60anti	4.95997e-11	1.000000	4.95997e-11	1.000000
rad22	4.09798e-11	1.000000	4.09798e-11	1.000000
rad36	3.00294e-11	1.000000	3.00294e-11	1.000000
rad19anti	2.44946e-11	1.000000	2.44946e-11	1.000000
rad13	2.40093e-11	1.000000	2.40093e-11	1.000000
rad46	2.15760e-11	1.000000	2.15760e-11	1.000000
rad59	1.48574e-11	1.000000	1.48574e-11	1.000000
PhcycC3H3_B+H	1.40924e-11	1.000000	1.40924e-11	1.000000
Phenyl+cycC3H4	1.07882e-11	1.000000	0.000000	1.000000
rad43	5.05008e-12	1.000000	5.05008e-12	1.000000
rad54	1.25529e-12	1.000000	1.25529e-12	1.000000
rad62	8.91348e-13	1.000000	8.91348e-13	1.000000
rad50	4.35160e-13	1.000000	4.35160e-13	1.000000
rad14	3.87747e-13	1.000000	3.87747e-13	1.000000
rad27	3.33553e-13	1.000000	3.33553e-13	1.000000
PAH1+H	1.14620e-13	1.000000	1.14620e-13	1.000000
rad70	1.05225e-13	1.000000	1.05225e-13	1.000000
rad5	5.66965e-14	1.000000	5.66965e-14	1.000000
rad33	2.94573e-14	1.000000	2.94573e-14	1.000000
rad55	2.56886e-14	1.000000	2.56886e-14	1.000000
rad25	2.37107e-14	1.000000	2.37107e-14	1.000000
rad58	1.17535e-14	1.000000	1.17535e-14	1.000000
rad18	1.10172e-14	1.000000	1.10172e-14	1.000000
rad52	6.30287e-15	1.000000	6.30287e-15	1.000000
rad34	4.73374e-15	1.000000	4.73374e-15	1.000000
rad51	3.98466e-15	1.000000	3.98466e-15	1.000000
rad41	3.68453e-15	1.000000	3.68453e-15	1.000000
rad42	1.46479e-15	1.000000	1.46479e-15	1.000000

rad20	1.36543e-15	1.000000	1.36543e-15	1.000000
rad21	8.49213e-16	1.000000	8.49213e-16	1.000000
rad65	1.14096e-16	1.000000	1.14096e-16	1.000000
rad53	3.80163e-17	1.000000	3.80163e-17	1.000000
rad61	3.04193e-17	1.000000	3.04193e-17	1.000000
rad31	2.40798e-17	1.000000	2.40798e-17	1.000000
rad64	1.33298e-17	1.000000	1.33298e-17	1.000000
rad24	4.44830e-18	1.000000	4.44830e-18	1.000000
rad56	1.09413e-18	1.000000	1.09413e-18	1.000000
rad68syn	2.29274e-19	1.000000	2.29274e-19	1.000000
rad68anti	1.66321e-19	1.000000	1.66321e-19	1.000000
rad40syn	1.46212e-20	1.000000	1.46212e-20	1.000000
rad40anti	1.24504e-20	1.000000	1.24504e-20	1.000000
PAH8+H	4.42482e-21	1.000000	4.42482e-21	1.000000
rad73	4.25894e-22	1.000000	4.25894e-22	1.000000
rad47	1.63213e-23	1.000000	1.63213e-23	1.000000
rad71	8.64229e-24	1.000000	8.64229e-24	1.000000
rad19syn	1.62295e-25	1.000000	1.62295e-25	1.000000
rad8	1.99783e-48	1.000000	1.99783e-48	1.000000

100.000000 Pa, 400.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.29463e-13 (1.00)	1.29463e-13 (1.00)
Formation of rad19	1.28526e-13 (0.993)	1.28526e-13 (0.993)
H-abstraction to cyc2enyl	9.19357e-16 (0.00710)	9.19357e-16 (0.00710)
H-abstraction to cyclenyl	1.69485e-17 (0.000131)	1.69485e-17 (0.000131)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.988033	0.988033	0.988033	0.988033
Benzene+cycloprop-2-enylidene	0.00710133	0.995135	0.00710133	0.995135
rad9	0.00367559	0.998810	0.00367559	0.998810
PhCHCCH2+H	0.000961858	0.999772	0.000961858	0.999772
Benzene+cycloprop-1-enylidene	0.000130914	0.999903	0.000130914	0.999903
rad6	2.83411e-05	0.999931	2.83411e-05	0.999931
PhCCH+CH3	1.58369e-05	0.999947	1.58369e-05	0.999947
C2H2+PhCH2	1.48945e-05	0.999962	1.48945e-05	0.999962
Ph+MeAc	1.34578e-05	0.999975	1.34578e-05	0.999975
PhCCCH3+H	1.23119e-05	0.999988	1.23119e-05	0.999988
rad67	4.05674e-06	0.999992	4.05674e-06	0.999992
rad15	3.61618e-06	0.999995	3.61618e-06	0.999995
rad35	1.62159e-06	0.999997	1.62159e-06	0.999997
Ph+Allene	1.59998e-06	0.999999	1.59998e-06	0.999999
PhCH2CCH+H	4.11074e-07	0.999999	4.11074e-07	0.999999
PAH7+H	1.32542e-07	0.999999	1.32542e-07	0.999999
rad2	1.13266e-07	0.999999	1.13266e-07	0.999999
rad37	8.24015e-08	0.999999	8.24015e-08	0.999999
rad26	7.48579e-08	0.999999	7.48579e-08	0.999999
rad28	4.54898e-08	1.000000	4.54898e-08	1.000000
rad39	3.20312e-08	1.000000	3.20312e-08	1.000000
rad30	3.16771e-08	1.000000	3.16771e-08	1.000000
rad1	1.05412e-08	1.000000	1.05412e-08	1.000000
rad23	1.03732e-08	1.000000	1.03732e-08	1.000000
rad10	9.94575e-09	1.000000	9.94575e-09	1.000000
rad7	8.77205e-09	1.000000	8.77205e-09	1.000000
PhcycC3H3_A+H	4.88977e-09	1.000000	4.88977e-09	1.000000
PAH9+H	3.77936e-09	1.000000	3.77936e-09	1.000000
rad11	3.22336e-09	1.000000	3.22336e-09	1.000000
rad38	2.35970e-09	1.000000	2.35970e-09	1.000000
PAH10+CH3	1.87825e-09	1.000000	1.87825e-09	1.000000
rad3	1.48451e-09	1.000000	1.48451e-09	1.000000
rad45	8.92569e-10	1.000000	8.92569e-10	1.000000
rad4	7.81826e-10	1.000000	7.81826e-10	1.000000
PAH3+H	5.11869e-10	1.000000	5.11869e-10	1.000000
PhcycC3H3_B+H	4.16222e-10	1.000000	4.16222e-10	1.000000
rad60syn	3.56626e-10	1.000000	3.56626e-10	1.000000
Phenyl+cycC3H4	2.22329e-10	1.000000	0.000000	1.000000
rad60anti	1.90103e-10	1.000000	1.90103e-10	1.000000
rad46	1.58211e-10	1.000000	1.58211e-10	1.000000
rad19anti	1.12088e-10	1.000000	1.12088e-10	1.000000
rad59	8.10901e-11	1.000000	8.10901e-11	1.000000
rad12	6.34552e-11	1.000000	6.34552e-11	1.000000
rad22	5.20109e-11	1.000000	5.20109e-11	1.000000
rad54	3.65844e-11	1.000000	3.65844e-11	1.000000
rad36	3.41975e-11	1.000000	3.41975e-11	1.000000
rad43	3.36435e-11	1.000000	3.36435e-11	1.000000
rad13	3.18075e-11	1.000000	3.18075e-11	1.000000
rad50	6.21967e-12	1.000000	6.21967e-12	1.000000

rad62	6.13644e-12	1.000000	6.13644e-12	1.000000
PAH1+H	2.74552e-12	1.000000	2.74552e-12	1.000000
rad70	2.67593e-12	1.000000	2.67593e-12	1.000000
rad55	9.76415e-13	1.000000	9.76415e-13	1.000000
rad14	1.98594e-13	1.000000	1.98594e-13	1.000000
rad34	1.79732e-13	1.000000	1.79732e-13	1.000000
rad27	1.69732e-13	1.000000	1.69732e-13	1.000000
rad58	1.68549e-13	1.000000	1.68549e-13	1.000000
rad52	1.37033e-13	1.000000	1.37033e-13	1.000000
rad51	1.19745e-13	1.000000	1.19745e-13	1.000000
rad41	6.96060e-14	1.000000	6.96060e-14	1.000000
rad33	5.56166e-14	1.000000	5.56166e-14	1.000000
rad25	3.35447e-14	1.000000	3.35447e-14	1.000000
rad5	2.70535e-14	1.000000	2.70535e-14	1.000000
rad42	2.43111e-14	1.000000	2.43111e-14	1.000000
rad18	1.85515e-14	1.000000	1.85515e-14	1.000000
rad53	5.27887e-15	1.000000	5.27887e-15	1.000000
rad20	4.67971e-15	1.000000	4.67971e-15	1.000000
rad65	3.70566e-15	1.000000	3.70566e-15	1.000000
rad61	3.60747e-15	1.000000	3.60747e-15	1.000000
rad21	3.20815e-15	1.000000	3.20815e-15	1.000000
rad64	2.34318e-15	1.000000	2.34318e-15	1.000000
rad56	4.65556e-16	1.000000	4.65556e-16	1.000000
rad31	4.47165e-16	1.000000	4.47165e-16	1.000000
rad19syn	2.04439e-16	1.000000	2.04439e-16	1.000000
rad68syn	6.92817e-17	1.000000	6.92817e-17	1.000000
rad68anti	4.84833e-17	1.000000	4.84833e-17	1.000000
rad24	1.45067e-17	1.000000	1.45067e-17	1.000000
rad40syn	6.85299e-18	1.000000	6.85299e-18	1.000000
PAH8+H	6.50057e-18	1.000000	6.50057e-18	1.000000
rad40anti	5.17801e-18	1.000000	5.17801e-18	1.000000
rad73	7.18622e-19	1.000000	7.18622e-19	1.000000
rad71	1.06621e-19	1.000000	1.06621e-19	1.000000
rad47	5.04654e-21	1.000000	5.04654e-21	1.000000
rad72	3.05835e-23	1.000000	3.05835e-23	1.000000
rad8	3.15881e-35	1.000000	3.15881e-35	1.000000

100.000000 Pa, 500.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.52837e-13 (1.00)	2.52837e-13 (1.00)
Formation of rad19	2.47941e-13 (0.981)	2.47941e-13 (0.981)
H-abstraction to cyc2enyl	4.69058e-15 (0.0186)	4.69058e-15 (0.0186)
H-abstraction to cyc1enyl	2.05381e-16 (0.000812)	2.05381e-16 (0.000812)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.977049	0.977049	0.977049	0.977049
Benzene+cycloprop-2-enylidene	0.0185518	0.995601	0.0185518	0.995601
PhCHCCH2+H	0.00200433	0.997605	0.00200433	0.997605
rad9	0.00138674	0.998992	0.00138674	0.998992
Benzene+cycloprop-1-enylidene	0.000812306	0.999804	0.000812306	0.999804
C2H2+PhCH2	4.45909e-05	0.999848	4.45909e-05	0.999848
Ph+MeAc	3.57162e-05	0.999884	3.57162e-05	0.999884
PhCCH+CH3	3.39611e-05	0.999918	3.39611e-05	0.999918
PhCCCH3+H	2.79891e-05	0.999946	2.79891e-05	0.999946
rad6	2.53756e-05	0.999972	2.53756e-05	0.999972
rad67	1.05416e-05	0.999982	1.05416e-05	0.999982
Ph+Allene	8.88259e-06	0.999991	8.88259e-06	0.999991
rad35	4.08984e-06	0.999995	4.08984e-06	0.999995
PhCH2CCH+H	2.49674e-06	0.999998	2.49674e-06	0.999998
rad15	1.35927e-06	0.999999	1.35927e-06	0.999999
PAH7+H	6.51623e-07	1.000000	6.51623e-07	1.000000
rad37	2.84819e-07	1.000000	2.84819e-07	1.000000
rad39	1.53978e-07	1.000000	1.53978e-07	1.000000
rad30	8.79854e-08	1.000000	8.79854e-08	1.000000
rad2	7.67921e-08	1.000000	7.67921e-08	1.000000
PhcycC3H3_A+H	5.05566e-08	1.000000	5.05566e-08	1.000000
rad28	4.17619e-08	1.000000	4.17619e-08	1.000000
rad23	2.46831e-08	1.000000	2.46831e-08	1.000000
rad26	2.36593e-08	1.000000	2.36593e-08	1.000000
PAH9+H	1.84097e-08	1.000000	1.84097e-08	1.000000
PAH10+CH3	1.46791e-08	1.000000	1.46791e-08	1.000000
rad38	1.24275e-08	1.000000	1.24275e-08	1.000000
rad1	9.17027e-09	1.000000	9.17027e-09	1.000000
rad19anti	9.14480e-09	1.000000	9.14480e-09	1.000000
PhcycC3H3_B+H	7.94083e-09	1.000000	7.94083e-09	1.000000
rad7	7.74870e-09	1.000000	7.74870e-09	1.000000
rad10	5.86184e-09	1.000000	5.86184e-09	1.000000

rad45	3.69220e-09	1.00000	3.69220e-09	1.00000
Phenyl+cycC3H4	3.55663e-09	1.00000	0.00000	1.00000
PAH3+H	3.00287e-09	1.00000	3.00287e-09	1.00000
rad11	2.85911e-09	1.00000	2.85911e-09	1.00000
rad60syn	1.42489e-09	1.00000	1.42489e-09	1.00000
rad3	1.26902e-09	1.00000	1.26902e-09	1.00000
rad46	9.58933e-10	1.00000	9.58933e-10	1.00000
rad60anti	7.81343e-10	1.00000	7.81343e-10	1.00000
rad4	7.14437e-10	1.00000	7.14437e-10	1.00000
rad59	4.44871e-10	1.00000	4.44871e-10	1.00000
rad54	3.96355e-10	1.00000	3.96355e-10	1.00000
rad43	1.99666e-10	1.00000	1.99666e-10	1.00000
rad36	1.71889e-10	1.00000	1.71889e-10	1.00000
rad50	6.70541e-11	1.00000	6.70541e-11	1.00000
rad12	6.17408e-11	1.00000	6.17408e-11	1.00000
rad22	6.02556e-11	1.00000	6.02556e-11	1.00000
PAH1+H	4.44231e-11	1.00000	4.44231e-11	1.00000
rad62	3.57971e-11	1.00000	3.57971e-11	1.00000
rad70	3.43256e-11	1.00000	3.43256e-11	1.00000
rad13	3.18327e-11	1.00000	3.18327e-11	1.00000
rad55	1.31188e-11	1.00000	1.31188e-11	1.00000
rad34	3.01832e-12	1.00000	3.01832e-12	1.00000
rad51	2.48297e-12	1.00000	2.48297e-12	1.00000
rad58	2.12899e-12	1.00000	2.12899e-12	1.00000
rad52	2.04101e-12	1.00000	2.04101e-12	1.00000
rad19syn	1.45992e-12	1.00000	1.45992e-12	1.00000
rad41	9.07264e-13	1.00000	9.07264e-13	1.00000
rad42	2.70330e-13	1.00000	2.70330e-13	1.00000
rad53	1.64252e-13	1.00000	1.64252e-13	1.00000
rad61	1.58648e-13	1.00000	1.58648e-13	1.00000
rad14	1.45081e-13	1.00000	1.45081e-13	1.00000
rad27	1.13658e-13	1.00000	1.13658e-13	1.00000
rad65	7.83562e-14	1.00000	7.83562e-14	1.00000
rad64	7.39396e-14	1.00000	7.39396e-14	1.00000
rad33	6.84386e-14	1.00000	6.84386e-14	1.00000
rad25	3.45373e-14	1.00000	3.45373e-14	1.00000
rad56	2.78447e-14	1.00000	2.78447e-14	1.00000
rad31	2.31174e-14	1.00000	2.31174e-14	1.00000
rad18	1.90265e-14	1.00000	1.90265e-14	1.00000
rad5	1.07306e-14	1.00000	1.07306e-14	1.00000
rad20	8.13851e-15	1.00000	8.13851e-15	1.00000
rad21	6.00613e-15	1.00000	6.00613e-15	1.00000
rad68syn	4.33995e-15	1.00000	4.33995e-15	1.00000
rad68anti	2.97554e-15	1.00000	2.97554e-15	1.00000
PAH8+H	1.80895e-15	1.00000	1.80895e-15	1.00000
rad73	1.03908e-15	1.00000	1.03908e-15	1.00000
rad71	8.01125e-16	1.00000	8.01125e-16	1.00000
rad40syn	7.96031e-16	1.00000	7.96031e-16	1.00000
rad40anti	5.93494e-16	1.00000	5.93494e-16	1.00000
rad24	9.46021e-17	1.00000	9.46021e-17	1.00000
rad72	9.61342e-18	1.00000	9.61342e-18	1.00000
rad47	4.80462e-19	1.00000	4.80462e-19	1.00000
rad8	5.38841e-31	1.00000	5.38841e-31	1.00000

100.000000 Pa, 600.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.35570e-13 (1.00)	4.35570e-13 (1.00)
Formation of rad19	4.18892e-13 (0.962)	4.18892e-13 (0.962)
H-abstraction to cyc2enyl	1.54751e-14 (0.0355)	1.54751e-14 (0.0355)
H-abstraction to cyclenyl	1.20343e-15 (0.00276)	1.20343e-15 (0.00276)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.956351	0.956351	0.956351	0.956351
Benzene+cycloprop-2-enylidene	0.0355285	0.991879	0.0355285	0.991879
PhCHCCH2+H	0.00405173	0.995931	0.00405173	0.995931
Benzene+cycloprop-1-enylidene	0.00276289	0.998694	0.00276289	0.998694
rad9	0.000883513	0.999578	0.000883513	0.999578
C2H2+PhCH2	0.000109061	0.999687	0.000109061	0.999687
Ph+MeAc	8.66270e-05	0.999773	8.66270e-05	0.999773
PhCCH+CH3	6.60171e-05	0.999839	6.60171e-05	0.999839
PhCCCH3+H	5.94560e-05	0.999899	5.94560e-05	0.999899
Ph+Allene	3.41803e-05	0.999933	3.41803e-05	0.999933
rad67	2.57741e-05	0.999959	2.57741e-05	0.999959
rad6	1.50872e-05	0.999974	1.50872e-05	0.999974
PhCH2CCH+H	1.06631e-05	0.999984	1.06631e-05	0.999984
rad35	9.76557e-06	0.999994	9.76557e-06	0.999994
PAH7+H	2.12259e-06	0.999996	2.12259e-06	0.999996

rad37	8.82615e-07	0.999997	8.82615e-07	0.999997
rad15	8.18696e-07	0.999998	8.18696e-07	0.999998
rad39	4.85709e-07	0.999999	4.85709e-07	0.999999
PhcycC3H3_A+H	3.74192e-07	0.999999	3.74192e-07	0.999999
rad30	2.30420e-07	0.999999	2.30420e-07	0.999999
PhcycC3H3_B+H	1.00810e-07	0.999999	1.00810e-07	0.999999
PAH10+CH3	9.03029e-08	0.999999	9.03029e-08	0.999999
rad2	8.62717e-08	0.999999	8.62717e-08	0.999999
PAH9+H	7.34517e-08	0.999999	7.34517e-08	0.999999
rad23	6.62985e-08	1.000000	6.62985e-08	1.000000
rad19anti	5.56067e-08	1.000000	5.56067e-08	1.000000
rad38	5.42255e-08	1.000000	5.42255e-08	1.000000
Phenyl+cycC3H4	3.58093e-08	1.000000	0.00000	1.000000
rad28	2.48405e-08	1.000000	2.48405e-08	1.000000
PAH3+H	1.53601e-08	1.000000	1.53601e-08	1.000000
rad45	1.51783e-08	1.000000	1.51783e-08	1.000000
rad1	1.27900e-08	1.000000	1.27900e-08	1.000000
rad26	9.17859e-09	1.000000	9.17859e-09	1.000000
rad60syn	5.18395e-09	1.000000	5.18395e-09	1.000000
rad46	4.76583e-09	1.000000	4.76583e-09	1.000000
rad7	4.65917e-09	1.000000	4.65917e-09	1.000000
rad10	3.99284e-09	1.000000	3.99284e-09	1.000000
rad60anti	2.91370e-09	1.000000	2.91370e-09	1.000000
rad54	2.59904e-09	1.000000	2.59904e-09	1.000000
rad59	2.12592e-09	1.000000	2.12593e-09	1.000000
rad11	1.75880e-09	1.000000	1.75881e-09	1.000000
rad3	1.43242e-09	1.000000	1.43242e-09	1.000000
rad43	9.59082e-10	1.000000	9.59082e-10	1.000000
rad36	9.30870e-10	1.000000	9.30870e-10	1.000000
rad4	8.75397e-10	1.000000	8.75397e-10	1.000000
rad50	6.89952e-10	1.000000	6.89952e-10	1.000000
PAH1+H	4.43502e-10	1.000000	4.43502e-10	1.000000
rad70	2.73540e-10	1.000000	2.73540e-10	1.000000
rad12	2.19093e-10	1.000000	2.19093e-10	1.000000
rad62	1.59923e-10	1.000000	1.59923e-10	1.000000
rad19syn	1.52297e-10	1.000000	1.52297e-10	1.000000
rad55	1.02187e-10	1.000000	1.02187e-10	1.000000
rad22	9.05880e-11	1.000000	9.05880e-11	1.000000
rad51	7.47968e-11	1.000000	7.47968e-11	1.000000
rad52	3.40930e-11	1.000000	3.40930e-11	1.000000
rad34	3.04302e-11	1.000000	3.04302e-11	1.000000
rad13	2.41582e-11	1.000000	2.41582e-11	1.000000
rad58	2.14095e-11	1.000000	2.14095e-11	1.000000
rad41	8.26228e-12	1.000000	8.26228e-12	1.000000
rad61	4.88958e-12	1.000000	4.88958e-12	1.000000
rad53	2.65432e-12	1.000000	2.65432e-12	1.000000
rad65	2.18345e-12	1.000000	2.18345e-12	1.000000
rad42	1.98475e-12	1.000000	1.98475e-12	1.000000
rad64	1.15516e-12	1.000000	1.15516e-12	1.000000
rad71	1.07107e-12	1.000000	1.07107e-12	1.000000
rad56	8.74756e-13	1.000000	8.74757e-13	1.000000
rad73	8.40039e-13	1.000000	8.40039e-13	1.000000
PAH8+H	5.03759e-13	1.000000	5.03759e-13	1.000000
rad31	3.39171e-13	1.000000	3.39171e-13	1.000000
rad68syn	1.93477e-13	1.000000	1.93477e-13	1.000000
rad68anti	1.28732e-13	1.000000	1.28732e-13	1.000000
rad14	1.27269e-13	1.000000	1.27269e-13	1.000000
rad27	1.01337e-13	1.000000	1.01337e-13	1.000000
rad40syn	9.39433e-14	1.000000	9.39433e-14	1.000000
rad33	7.38848e-14	1.000000	7.38848e-14	1.000000
rad40anti	7.33803e-14	1.000000	7.33803e-14	1.000000
rad72	3.08013e-14	1.000000	3.08013e-14	1.000000
rad25	2.78969e-14	1.000000	2.78969e-14	1.000000
rad18	1.85610e-14	1.000000	1.85610e-14	1.000000
rad20	1.70264e-14	1.000000	1.70264e-14	1.000000
rad21	1.44980e-14	1.000000	1.44980e-14	1.000000
rad5	5.96934e-15	1.000000	5.96934e-15	1.000000
rad24	1.04784e-15	1.000000	1.04784e-15	1.000000
rad47	1.77387e-17	1.000000	1.77387e-17	1.000000
rad8	4.97891e-26	1.000000	4.97891e-26	1.000000

100.000000 Pa, 700.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.91694e-13 (1.00)	6.91694e-13 (1.00)
Formation of rad19	6.47922e-13 (0.937)	6.47922e-13 (0.937)
H-abstraction to cyc2enyl	3.91858e-14 (0.0567)	3.91858e-14 (0.0567)
H-abstraction to cyclenyl	4.58543e-15 (0.00663)	4.58542e-15 (0.00663)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.927124	0.927124	0.927124	0.927124
Benzene+cycloprop-2-enylidene	0.0566520	0.983776	0.0566520	0.983776
PhCHCCH2+H	0.00776069	0.991537	0.00776069	0.991537
Phenene+cycloprop-1-enylidene	0.00662927	0.998166	0.00662927	0.998166
rad9	0.000948802	0.999115	0.000948802	0.999115
C2H2+PhCH2	0.000226931	0.999342	0.000226931	0.999342
Ph+MeAc	0.000189941	0.999532	0.000189941	0.999532
PhCCCH3+H	0.000116644	0.999648	0.000116644	0.999648
PhCCH+CH3	0.000115253	0.999763	0.000115253	0.999763
Ph+Allene	0.000100937	0.999864	0.000100937	0.999864
rad67	5.79063e-05	0.999922	5.79063e-05	0.999922
PhCH2CCH+H	3.50163e-05	0.999957	3.50163e-05	0.999957
rad35	2.15507e-05	0.999979	2.15507e-05	0.999979
rad6	6.65432e-06	0.999986	6.65432e-06	0.999986
PAH7+H	5.28635e-06	0.999991	5.28635e-06	0.999991
rad37	2.41751e-06	0.999993	2.41751e-06	0.999993
PhcycC3H3_A+H	1.99503e-06	0.999995	1.99503e-06	0.999995
rad39	1.16251e-06	0.999996	1.16251e-06	0.999996
PhcycC3H3_B+H	7.54744e-07	0.999997	7.54744e-07	0.999997
rad15	6.01789e-07	0.999998	6.01789e-07	0.999998
rad30	5.54192e-07	0.999998	5.54192e-07	0.999998
PAH10+CH3	4.36468e-07	0.999999	4.36468e-07	0.999999
PAH9+H	2.48611e-07	0.999999	2.48611e-07	0.999999
Phenyl+cycC3H4	2.47504e-07	0.999999	0.00000	0.999999
rad38	1.99023e-07	0.999999	1.99024e-07	0.999999
rad23	9.23103e-08	1.000000	9.23103e-08	0.999999
rad2	8.86529e-08	1.000000	8.86530e-08	0.999999
rad19anti	7.27665e-08	1.000000	7.27666e-08	0.999999
PAH3+H	6.63403e-08	1.000000	6.63403e-08	0.999999
rad45	2.33878e-08	1.000000	2.33878e-08	1.000000
rad46	1.98193e-08	1.000000	1.98193e-08	1.000000
rad60syn	1.66922e-08	1.000000	1.66922e-08	1.000000
rad1	1.60458e-08	1.000000	1.60458e-08	1.000000
rad54	1.18895e-08	1.000000	1.18895e-08	1.000000
rad28	1.09089e-08	1.000000	1.09089e-08	1.000000
rad60anti	9.58357e-09	1.000000	9.58357e-09	1.000000
rad59	8.61414e-09	1.000000	8.61414e-09	1.000000
rad50	5.30065e-09	1.000000	5.30065e-09	1.000000
rad26	4.51127e-09	1.000000	4.51128e-09	1.000000
rad43	3.75738e-09	1.000000	3.75738e-09	1.000000
rad12	3.60812e-09	1.000000	3.60812e-09	1.000000
PAH1+H	2.92559e-09	1.000000	2.92559e-09	1.000000
rad10	2.67427e-09	1.000000	2.67427e-09	1.000000
rad7	2.16980e-09	1.000000	2.16980e-09	1.000000
rad36	1.89544e-09	1.000000	1.89544e-09	1.000000
rad70	1.50430e-09	1.000000	1.50430e-09	1.000000
rad3	1.14314e-09	1.000000	1.14314e-09	1.000000
rad51	9.42779e-10	1.000000	9.42779e-10	1.000000
rad19syn	8.87890e-10	1.000000	8.87890e-10	1.000000
rad11	8.69241e-10	1.000000	8.69241e-10	1.000000
rad4	7.74927e-10	1.000000	7.74927e-10	1.000000
rad62	5.60547e-10	1.000000	5.60548e-10	1.000000
rad55	5.35604e-10	1.000000	5.35605e-10	1.000000
rad52	3.41981e-10	1.000000	3.41981e-10	1.000000
rad34	1.99981e-10	1.000000	1.99982e-10	1.000000
rad58	1.51160e-10	1.000000	1.51160e-10	1.000000
rad22	1.08594e-10	1.000000	1.08594e-10	1.000000
rad61	5.31714e-11	1.000000	5.31714e-11	1.000000
rad41	5.28031e-11	1.000000	5.28032e-11	1.000000
rad65	2.63840e-11	1.000000	2.63840e-11	1.000000
rad71	2.38570e-11	1.000000	2.38570e-11	1.000000
rad53	2.30486e-11	1.000000	2.30486e-11	1.000000
rad73	1.74948e-11	1.000000	1.74948e-11	1.000000
rad13	1.69193e-11	1.000000	1.69193e-11	1.000000
rad42	1.03155e-11	1.000000	1.03155e-11	1.000000
rad64	9.84960e-12	1.000000	9.84960e-12	1.000000
rad56	9.72005e-12	1.000000	9.72005e-12	1.000000
PAH8+H	6.72046e-12	1.000000	6.72046e-12	1.000000
rad68syn	2.26888e-12	1.000000	2.26888e-12	1.000000
rad68anti	1.50311e-12	1.000000	1.50311e-12	1.000000
rad40syn	1.21973e-12	1.000000	1.21973e-12	1.000000
rad31	9.83405e-13	1.000000	9.83405e-13	1.000000
rad40anti	9.60605e-13	1.000000	9.60605e-13	1.000000
rad72	7.70517e-13	1.000000	7.70517e-13	1.000000
rad27	1.08762e-13	1.000000	1.08762e-13	1.000000
rad14	1.08306e-13	1.000000	1.08306e-13	1.000000
rad33	9.71415e-14	1.000000	9.71415e-14	1.000000
rad21	6.05868e-14	1.000000	6.05868e-14	1.000000

rad20	5.58283e-14	1.000000	5.58284e-14	1.000000
rad18	2.40281e-14	1.000000	2.40281e-14	1.000000
rad25	2.20924e-14	1.000000	2.20924e-14	1.000000
rad24	1.22404e-14	1.000000	1.22404e-14	1.000000
rad5	3.79179e-15	1.000000	3.79179e-15	1.000000
rad47	4.67098e-16	1.000000	4.67098e-16	1.000000
rad8	8.10665e-21	1.000000	8.10666e-21	1.000000

100.000000 Pa, 800.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.03759e-12 (1.00)	1.03758e-12 (1.00)
Formation of rad19	9.41065e-13 (0.907)	9.41063e-13 (0.907)
H-abstraction to cyc2enyl	8.32953e-14 (0.0803)	8.32953e-14 (0.0803)
H-abstraction to cyclenyl	1.32261e-14 (0.0127)	1.32261e-14 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.889711	0.889711	0.889712	0.889712
Benzene+cycloprop-2-enylidene	0.0802780	0.969989	0.0802781	0.969990
PhCHCCH2+H	0.0140265	0.984015	0.0140265	0.984016
Benzene+cycloprop-1-enylidene	0.0127470	0.996762	0.0127470	0.996763
rad9	0.00148716	0.998249	0.00148716	0.998250
C2H2+PhCH2	0.000424575	0.998674	0.000424575	0.998675
Ph+MeAc	0.000380175	0.999054	0.000380176	0.999055
Ph+Allene	0.000248408	0.999303	0.000248408	0.999303
PhCCCH3+H	0.000212288	0.999515	0.000212289	0.999516
PhCCH+CH3	0.000185056	0.999700	0.000185056	0.999701
rad67	0.000119860	0.999820	0.000119860	0.999821
PhCH2CCH+H	9.62600e-05	0.999916	9.62600e-05	0.999917
rad35	4.40174e-05	0.999960	4.40175e-05	0.999961
PAH7+H	1.10378e-05	0.999971	1.10378e-05	0.999972
PhcycC3H3_A+H	7.81924e-06	0.999979	7.81925e-06	0.999980
rad37	5.91756e-06	0.999985	5.91757e-06	0.999986
PhcycC3H3_B+H	3.45129e-06	0.999988	3.45130e-06	0.999989
rad6	2.67235e-06	0.999991	2.67236e-06	0.999992
rad39	2.31545e-06	0.999993	2.31545e-06	0.999994
PAH10+CH3	1.79267e-06	0.999995	1.79267e-06	0.999996
Phenyl+cycC3H4	1.26494e-06	0.999996	0.00000	0.999996
rad30	1.23296e-06	0.999997	1.23296e-06	0.999997
PAH9+H	7.35701e-07	0.999998	7.35702e-07	0.999998
rad38	6.34010e-07	0.999999	6.34011e-07	0.999999
rad15	5.49293e-07	0.999999	5.49294e-07	0.999999
PAH3+H	2.55908e-07	1.000000	2.55908e-07	0.999999
rad23	8.54595e-08	1.000000	8.54596e-08	0.999999
rad12	8.36715e-08	1.000000	8.36716e-08	0.999999
rad46	6.81790e-08	1.000000	6.81791e-08	1.000000
rad2	6.39707e-08	1.000000	6.39708e-08	1.000000
rad19anti	6.15990e-08	1.000000	6.15991e-08	1.000000
rad60syn	4.87981e-08	1.000000	4.87981e-08	1.000000
rad54	4.28575e-08	1.000000	4.28575e-08	1.000000
rad59	3.11104e-08	1.000000	3.11104e-08	1.000000
rad60anti	2.85741e-08	1.000000	2.85741e-08	1.000000
rad45	2.57087e-08	1.000000	2.57087e-08	1.000000
rad50	2.39545e-08	1.000000	2.39545e-08	1.000000
PAH1+H	1.53822e-08	1.000000	1.53823e-08	1.000000
rad1	1.36985e-08	1.000000	1.36985e-08	1.000000
rad43	1.27003e-08	1.000000	1.27003e-08	1.000000
rad70	6.62329e-09	1.000000	6.62330e-09	1.000000
rad51	4.47709e-09	1.000000	4.47710e-09	1.000000
rad28	4.38073e-09	1.000000	4.38074e-09	1.000000
rad26	2.45178e-09	1.000000	2.45179e-09	1.000000
rad36	2.41592e-09	1.000000	2.41593e-09	1.000000
rad55	2.18009e-09	1.000000	2.18010e-09	1.000000
rad10	1.67400e-09	1.000000	1.67400e-09	1.000000
rad62	1.63786e-09	1.000000	1.63787e-09	1.000000
rad52	1.61687e-09	1.000000	1.61687e-09	1.000000
rad19syn	1.44428e-09	1.000000	1.44428e-09	1.000000
rad34	1.03789e-09	1.000000	1.03789e-09	1.000000
rad7	1.01005e-09	1.000000	1.01005e-09	1.000000
rad58	8.84069e-10	1.000000	8.84071e-10	1.000000
rad3	6.89365e-10	1.000000	6.89365e-10	1.000000
rad4	5.05412e-10	1.000000	5.05413e-10	1.000000
rad11	4.59435e-10	1.000000	4.59436e-10	1.000000
rad61	4.37673e-10	1.000000	4.37674e-10	1.000000
rad41	2.74228e-10	1.000000	2.74227e-10	1.000000
rad53	1.51000e-10	1.000000	1.51000e-10	1.000000
rad65	1.27448e-10	1.000000	1.27449e-10	1.000000
rad71	1.02339e-10	1.000000	1.02339e-10	1.000000

rad22	9.92439e-11	1.00000	9.92439e-11	1.000000
rad56	8.07974e-11	1.00000	8.07975e-11	1.000000
rad73	7.58048e-11	1.00000	7.58049e-11	1.000000
rad64	5.91432e-11	1.00000	5.91433e-11	1.000000
PAH8+H	4.66841e-11	1.00000	4.66842e-11	1.000000
rad42	4.25720e-11	1.00000	4.25721e-11	1.000000
rad68syn	1.82590e-11	1.00000	1.82590e-11	1.000000
rad13	1.51077e-11	1.00000	1.51077e-11	1.000000
rad68anti	1.20795e-11	1.00000	1.20795e-11	1.000000
rad40syn	9.37413e-12	1.00000	9.37422e-12	1.000000
rad40anti	7.28348e-12	1.00000	7.28349e-12	1.000000
rad72	3.29014e-12	1.00000	3.29014e-12	1.000000
rad31	1.52417e-12	1.00000	1.52417e-12	1.000000
rad21	6.68028e-13	1.00000	6.68029e-13	1.000000
rad24	4.77990e-13	1.00000	4.77991e-13	1.000000
rad20	4.11174e-13	1.00000	4.11174e-13	1.000000
rad33	2.72508e-13	1.00000	2.72509e-13	1.000000
rad27	1.38679e-13	1.00000	1.38679e-13	1.000000
rad14	9.71035e-14	1.00000	9.71035e-14	1.000000
rad18	8.09313e-14	1.00000	8.09314e-14	1.000000
rad25	2.61488e-14	1.00000	2.61488e-14	1.000000
rad47	4.04043e-15	1.00000	4.04043e-15	1.000000
rad5	2.64715e-15	1.00000	2.64715e-15	1.000000
rad8	3.04240e-16	1.00000	3.04241e-16	1.000000

100.000000 Pa, 900.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.49199e-12 (1.00)	1.49199e-12 (1.00)
Formation of rad19	1.30395e-12 (0.874)	1.30394e-12 (0.874)
H-abstraction to cyc2enyl	1.56554e-13 (0.105)	1.56554e-13 (0.105)
H-abstraction to cyclenyl	3.14892e-14 (0.0211)	3.14890e-14 (0.0211)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.845283	0.845283	0.845288	0.845288
Benzene+cycloprop-2-enylidene	0.104929	0.950213	0.104930	0.950218
PhCHCCH2+H	0.0238204	0.974033	0.0238205	0.974039
Benzene+cycloprop-1-enylidene	0.0211054	0.995139	0.0211054	0.995144
rad9	0.00162412	0.996763	0.00162412	0.996768
C2H2+PhCH2	0.000734043	0.997497	0.000734047	0.997502
Ph+MeAc	0.000697195	0.998194	0.000697199	0.998199
Ph+Allene	0.000526501	0.998720	0.000526504	0.998726
PhCCCH3+H	0.000358299	0.999079	0.000358301	0.999084
PhCCH+CH3	0.000279158	0.999358	0.000279160	0.999363
PhCH2CCH+H	0.000230689	0.999589	0.000230690	0.999594
rad67	0.000228644	0.999817	0.000228646	0.999823
rad35	8.32102e-05	0.999900	8.32107e-05	0.999906
PhcycC3H3_A+H	2.62559e-05	0.999927	2.62561e-05	0.999932
PAH7+H	2.01480e-05	0.999947	2.01480e-05	0.999952
PhcycC3H3_B+H	1.42011e-05	0.999961	1.42011e-05	0.999966
rad37	1.28844e-05	0.999974	1.28845e-05	0.999979
PAH10+CH3	6.51726e-06	0.999980	6.51730e-06	0.999986
Phenyl+cycC3H4	5.08123e-06	0.999986	0.00000	0.999986
rad39	4.01445e-06	0.999990	4.01447e-06	0.999990
rad30	2.54839e-06	0.999992	2.54841e-06	0.999992
PAH9+H	2.08404e-06	0.999994	2.08406e-06	0.999995
rad38	1.85148e-06	0.999996	1.85149e-06	0.999996
rad6	9.70058e-07	0.999997	9.70066e-07	0.999997
PAH3+H	9.66824e-07	0.999998	9.66832e-07	0.999998
rad15	4.68057e-07	0.999998	4.68060e-07	0.999999
rad12	4.28083e-07	0.999999	4.28085e-07	0.999999
rad46	2.29457e-07	0.999999	2.29458e-07	0.999999
rad60syn	1.33602e-07	0.999999	1.33603e-07	1.000000
rad54	1.26267e-07	0.999999	1.26268e-07	1.000000
rad50	1.20942e-07	0.999999	1.20943e-07	1.000000
rad59	1.07367e-07	1.000000	1.07367e-07	1.000000
rad60anti	7.98996e-08	1.000000	7.99000e-08	1.000000
PAH1+H	7.55599e-08	1.000000	7.55603e-08	1.000000
rad23	7.44230e-08	1.000000	7.44234e-08	1.000000
rad19anti	4.64128e-08	1.000000	4.64130e-08	1.000000
rad2	4.02556e-08	1.000000	4.02558e-08	1.000000
rad43	3.87811e-08	1.000000	3.87812e-08	1.000000
rad51	2.79804e-08	1.000000	2.79806e-08	1.000000
rad45	2.69813e-08	1.000000	2.69815e-08	1.000000
rad70	2.58050e-08	1.000000	2.58052e-08	1.000000
rad1	9.92571e-09	1.000000	9.92579e-09	1.000000
rad52	9.20259e-09	1.000000	9.20258e-09	1.000000
rad55	7.20083e-09	1.000000	7.20087e-09	1.000000

rad58	5.71885e-09	1.00000	5.71888e-09	1.00000
rad34	4.94918e-09	1.00000	4.94920e-09	1.00000
rad62	4.14510e-09	1.00000	4.14513e-09	1.00000
rad61	3.99377e-09	1.00000	3.99379e-09	1.00000
rad36	2.65411e-09	1.00000	2.65413e-09	1.00000
rad28	1.59002e-09	1.00000	1.59003e-09	1.00000
rad19syn	1.51735e-09	1.00000	1.51736e-09	1.00000
rad41	1.36415e-09	1.00000	1.36416e-09	1.00000
rad26	1.22727e-09	1.00000	1.22728e-09	1.00000
rad10	1.08116e-09	1.00000	1.08116e-09	1.00000
rad53	8.43151e-10	1.00000	8.43155e-10	1.00000
rad65	8.04955e-10	1.00000	8.04959e-10	1.00000
PAH8+H	7.80028e-10	1.00000	7.80032e-10	1.00000
rad71	7.35126e-10	1.00000	7.35130e-10	1.00000
rad56	6.32657e-10	1.00000	6.32660e-10	1.00000
rad73	5.46148e-10	1.00000	5.46150e-10	1.00000
rad7	4.92957e-10	1.00000	4.92959e-10	1.00000
rad3	4.11902e-10	1.00000	4.11905e-10	1.00000
rad4	3.20399e-10	1.00000	3.20402e-10	1.00000
rad64	3.13578e-10	1.00000	3.13579e-10	1.00000
rad11	2.77356e-10	1.00000	2.77358e-10	1.00000
rad68syn	1.92136e-10	1.00000	1.92137e-10	1.00000
rad42	1.53051e-10	1.00000	1.53051e-10	1.00000
rad40syn	1.29707e-10	1.00000	1.29708e-10	1.00000
rad68anti	1.25796e-10	1.00000	1.25797e-10	1.00000
rad22	1.07052e-10	1.00000	1.07053e-10	1.00000
rad40anti	1.02443e-10	1.00000	1.02444e-10	1.00000
rad72	2.32058e-11	1.00000	2.32059e-11	1.00000
rad13	1.93325e-11	1.00000	1.93326e-11	1.00000
rad21	1.82066e-11	1.00000	1.82067e-11	1.00000
rad24	8.32256e-12	1.00000	8.32260e-12	1.00000
rad20	7.04174e-12	1.00000	7.04178e-12	1.00000
rad33	2.59689e-12	1.00000	2.59691e-12	1.00000
rad31	1.90836e-12	1.00000	1.90836e-12	1.00000
rad18	9.72793e-13	1.00000	9.72801e-13	1.00000
rad8	6.24414e-13	1.00000	6.24417e-13	1.00000
rad27	2.35777e-13	1.00000	2.35777e-13	1.00000
rad14	1.11895e-13	1.00000	1.11895e-13	1.00000
rad25	8.44242e-14	1.00000	8.44246e-14	1.00000
rad47	2.98248e-14	1.00000	2.98250e-14	1.00000
rad5	1.76481e-15	1.00000	1.76481e-15	1.00000

100.000000 Pa, 1000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.07591e-12 (1.00)	2.07587e-12 (1.00)
Formation of rad19	1.74189e-12 (0.839)	1.74186e-12 (0.839)
H-abstraction to cyc2enyl	2.68753e-13 (0.129)	2.68753e-13 (0.129)
H-abstraction to cyclenyl	6.52627e-14 (0.0314)	6.52614e-14 (0.0314)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.795676	0.795676	0.795690	0.795690
Benzene+cycloprop-2-enylidene	0.129463	0.925139	0.129465	0.925155
PhCHCCH2+H	0.0369358	0.962075	0.0369364	0.962092
Benzene+cycloprop-1-enylidene	0.0314382	0.993513	0.0314381	0.993530
C2H2+PhCH2	0.00115075	0.994664	0.00115077	0.994681
Ph+MeAc	0.00113882	0.995803	0.00113884	0.995820
rad9	0.00110282	0.996906	0.00110283	0.996922
Ph+Allene	0.000941595	0.997847	0.000941617	0.997864
PhCCCH3+H	0.000549497	0.998397	0.000549507	0.998414
PhCH2CCH+H	0.000451940	0.998849	0.000451948	0.998865
PhCCH+CH3	0.000393374	0.999242	0.000393380	0.999259
rad67	0.000385968	0.999628	0.000385974	0.999645
rad35	0.000139723	0.999768	0.000139726	0.999785
PhcycC3H3_A+H	7.22310e-05	0.999840	7.22322e-05	0.999857
PhcycC3H3_B+H	4.52455e-05	0.999885	4.52463e-05	0.999902
PAH7+H	3.22432e-05	0.999917	3.22437e-05	0.999934
rad37	2.36972e-05	0.999941	2.36976e-05	0.999958
Phenyl+cycC3H4	1.68097e-05	0.999958	0.00000	0.999958
PAH10+CH3	1.60992e-05	0.999974	1.60995e-05	0.999974
rad39	6.14448e-06	0.999980	6.14459e-06	0.999980
PAH9+H	4.63829e-06	0.999985	4.63838e-06	0.999985
rad30	4.58237e-06	0.999989	4.58245e-06	0.999989
rad38	4.14195e-06	0.999994	4.14202e-06	0.999994
PAH3+H	2.46598e-06	0.999996	2.46602e-06	0.999996
rad12	7.35592e-07	0.999997	7.35604e-07	0.999997
rad46	5.61236e-07	0.999997	5.61247e-07	0.999997
rad6	3.73608e-07	0.999998	3.73614e-07	0.999998

rad15	3.65083e-07	0.999998	3.65088e-07	0.999998
rad50	3.56020e-07	0.999998	3.56026e-07	0.999998
rad60syn	2.88736e-07	0.999999	2.88742e-07	0.999999
rad54	2.77711e-07	0.999999	2.77716e-07	0.999999
rad59	2.62230e-07	0.999999	2.62234e-07	0.999999
PAH1+H	2.11581e-07	0.999999	2.11585e-07	0.999999
rad60anti	1.74798e-07	1.000000	1.74801e-07	1.000000
rad51	9.03600e-08	1.000000	9.03615e-08	1.000000
rad43	8.83437e-08	1.000000	8.83451e-08	1.000000
rad23	6.80356e-08	1.000000	6.80368e-08	1.000000
rad70	6.59118e-08	1.000000	6.59130e-08	1.000000
rad19anti	3.46116e-08	1.000000	3.46121e-08	1.000000
rad52	2.84572e-08	1.000000	2.84577e-08	1.000000
rad45	2.80682e-08	1.000000	2.80687e-08	1.000000
rad2	2.77923e-08	1.000000	2.77927e-08	1.000000
rad58	1.76327e-08	1.000000	1.76329e-08	1.000000
rad55	1.68417e-08	1.000000	1.68420e-08	1.000000
rad34	1.37179e-08	1.000000	1.37181e-08	1.000000
rad61	1.31461e-08	1.000000	1.31463e-08	1.000000
rad62	8.41188e-09	1.000000	8.41203e-09	1.000000
rad1	7.40238e-09	1.000000	7.40251e-09	1.000000
rad41	3.84038e-09	1.000000	3.84045e-09	1.000000
PAH8+H	2.97529e-09	1.000000	2.97534e-09	1.000000
rad71	2.79515e-09	1.000000	2.79520e-09	1.000000
rad36	2.75571e-09	1.000000	2.75576e-09	1.000000
rad65	2.58769e-09	1.000000	2.58774e-09	1.000000
rad53	2.43736e-09	1.000000	2.43741e-09	1.000000
rad73	2.01711e-09	1.000000	2.01715e-09	1.000000
rad56	2.00259e-09	1.000000	2.00263e-09	1.000000
rad19syn	1.42443e-09	1.000000	1.42446e-09	1.000000
rad10	9.30972e-10	1.000000	9.30986e-10	1.000000
rad64	9.05253e-10	1.000000	9.05276e-10	1.000000
rad68syn	6.61931e-10	1.000000	6.61943e-10	1.000000
rad26	6.58203e-10	1.000000	6.58214e-10	1.000000
rad28	6.16648e-10	1.000000	6.16658e-10	1.000000
rad40syn	4.74291e-10	1.000000	4.74299e-10	1.000000
rad68anti	4.32400e-10	1.000000	4.32407e-10	1.000000
rad42	3.77668e-10	1.000000	3.77675e-10	1.000000
rad40anti	3.76241e-10	1.000000	3.76248e-10	1.000000
rad7	3.16544e-10	1.000000	3.16549e-10	1.000000
rad3	2.74553e-10	1.000000	2.74558e-10	1.000000
rad11	2.46578e-10	1.000000	2.46582e-10	1.000000
rad21	2.45206e-10	1.000000	2.45209e-10	1.000000
rad22	2.41668e-10	1.000000	2.41672e-10	1.000000
rad4	2.18515e-10	1.000000	2.18519e-10	1.000000
rad72	9.32255e-11	1.000000	9.32270e-11	1.000000
rad20	8.16636e-11	1.000000	8.16651e-11	1.000000
rad8	6.75725e-11	1.000000	6.75737e-11	1.000000
rad13	6.43093e-11	1.000000	6.43104e-11	1.000000
rad24	3.67467e-11	1.000000	3.67473e-11	1.000000
rad33	2.56192e-11	1.000000	2.56196e-11	1.000000
rad18	9.71215e-12	1.000000	9.71237e-12	1.000000
rad31	2.21231e-12	1.000000	2.21235e-12	1.000000
rad25	1.07142e-12	1.000000	1.07144e-12	1.000000
rad27	1.00871e-12	1.000000	1.00873e-12	1.000000
rad14	2.03377e-13	1.000000	2.03380e-13	1.000000
rad47	9.89079e-14	1.000000	9.89093e-14	1.000000
rad5	1.41619e-15	1.000000	1.41622e-15	1.000000

100.000000 Pa, 1100.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.81236e-12 (1.00)	2.81222e-12 (1.00)
Formation of rad19	2.25993e-12 (0.804)	2.25980e-12 (0.804)
H-abstraction to cyc2enyl	4.30538e-13 (0.153)	4.30538e-13 (0.153)
H-abstraction to cyclenyl	1.21896e-13 (0.0433)	1.21889e-13 (0.0433)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.742317	0.742317	0.742354	0.742354
Benzene+cycloprop-2-enylidene	0.153088	0.895404	0.153095	0.895449
PhCHCCH2+H	0.0524720	0.947876	0.0524746	0.947924
Benzene+cycloprop-1-enylidene	0.0433429	0.991219	0.0433425	0.991266
Ph+MeAc	0.00167529	0.992894	0.00167538	0.992942
C2H2+PhCH2	0.00164581	0.994540	0.00164590	0.994588
Ph+Allene	0.00146999	0.996010	0.00147006	0.996058
PhCCCH3+H	0.000772518	0.996783	0.000772557	0.996830
PhCH2CCH+H	0.000747309	0.997530	0.000747347	0.997578
rad9	0.000674663	0.998205	0.000674697	0.998252

rad67	0.000582079	0.998787	0.000582108	0.998835
PhCCH+CH3	0.000517912	0.999305	0.000517938	0.999352
rad35	0.000209979	0.999515	0.000209990	0.999562
PhcycC3H3_A+H	0.000166921	0.999682	0.000166930	0.999729
PhcycC3H3_B+H	0.000115231	0.999797	0.000115237	0.999845
Phenyl+cycC3H4	4.74555e-05	0.999844	0.00000	0.999845
PAH7+H	4.62192e-05	0.999891	4.62215e-05	0.999891
rad37	3.79793e-05	0.999929	3.79812e-05	0.999929
PAH10+CH3	2.98026e-05	0.999958	2.98041e-05	0.999959
rad39	8.45339e-06	0.999967	8.45388e-06	0.999967
PAH9+H	8.03778e-06	0.999975	8.03819e-06	0.999975
rad38	7.29467e-06	0.999982	7.29503e-06	0.999982
rad30	7.21302e-06	0.999989	7.21338e-06	0.999990
PAH3+H	4.45455e-06	0.999994	4.45477e-06	0.999994
rad46	9.90415e-07	0.999995	9.90463e-07	0.999995
rad12	7.94596e-07	0.999996	7.94636e-07	0.999996
rad50	6.07629e-07	0.999996	6.07659e-07	0.999996
rad60syn	4.99847e-07	0.999997	4.99872e-07	0.999997
rad54	4.95986e-07	0.999997	4.96011e-07	0.999997
rad59	4.71574e-07	0.999998	4.71598e-07	0.999998
PAH1+H	3.91180e-07	0.999998	3.91199e-07	0.999998
rad15	3.42509e-07	0.999998	3.42526e-07	0.999999
rad60anti	3.04051e-07	0.999999	3.04066e-07	0.999999
rad6	1.75322e-07	0.999999	1.75331e-07	0.999999
rad43	1.57136e-07	0.999999	1.57145e-07	0.999999
rad51	1.44297e-07	0.999999	1.44304e-07	0.999999
rad70	1.21320e-07	0.999999	1.21326e-07	1.000000
rad23	6.24679e-08	0.999999	6.24710e-08	1.000000
rad52	4.71887e-08	0.999999	4.71910e-08	1.000000
rad58	3.13239e-08	0.999999	3.13255e-08	1.000000
rad55	3.09935e-08	0.999999	3.09951e-08	1.000000
rad45	2.80091e-08	0.999999	2.80105e-08	1.000000
rad19anti	2.59051e-08	0.999999	2.59064e-08	1.000000
rad34	2.53586e-08	1.000000	2.53599e-08	1.000000
rad61	2.32357e-08	1.000000	2.32368e-08	1.000000
rad2	2.04562e-08	1.000000	2.04572e-08	1.000000
rad62	1.41598e-08	1.000000	1.41605e-08	1.000000
rad41	7.05316e-09	1.000000	7.05351e-09	1.000000
rad1	5.57041e-09	1.000000	5.57069e-09	1.000000
rad53	4.65607e-09	1.000000	4.65630e-09	1.000000
PAH8+H	4.52570e-09	1.000000	4.52593e-09	1.000000
rad65	4.18233e-09	1.000000	4.18254e-09	1.000000
rad71	3.81156e-09	1.000000	3.81175e-09	1.000000
rad56	3.70735e-09	1.000000	3.70753e-09	1.000000
rad73	2.79878e-09	1.000000	2.79891e-09	1.000000
rad36	2.73926e-09	1.000000	2.73940e-09	1.000000
rad64	1.67609e-09	1.000000	1.67618e-09	1.000000
rad19syn	1.28391e-09	1.000000	1.28398e-09	1.000000
rad68syn	1.11977e-09	1.000000	1.11982e-09	1.000000
rad21	1.03945e-09	1.000000	1.03950e-09	1.000000
rad10	1.03190e-09	1.000000	1.03195e-09	1.000000
rad8	7.96600e-10	1.000000	7.96640e-10	1.000000
rad40syn	7.52740e-10	1.000000	7.52779e-10	1.000000
rad68anti	7.32888e-10	1.000000	7.32925e-10	1.000000
rad42	6.87222e-10	1.000000	6.87256e-10	1.000000
rad40anti	5.93342e-10	1.000000	5.93371e-10	1.000000
rad22	5.45912e-10	1.000000	5.45940e-10	1.000000
rad11	4.95113e-10	1.000000	4.95137e-10	1.000000
rad13	4.32739e-10	1.000000	4.32761e-10	1.000000
rad26	4.19544e-10	1.000000	4.19566e-10	1.000000
rad20	3.26157e-10	1.000000	3.26173e-10	1.000000
rad7	3.14769e-10	1.000000	3.14786e-10	1.000000
rad28	2.91709e-10	1.000000	2.91724e-10	1.000000
rad3	1.90940e-10	1.000000	1.90950e-10	1.000000
rad4	1.52734e-10	1.000000	1.52742e-10	1.000000
rad72	1.25460e-10	1.000000	1.25467e-10	1.000000
rad33	9.01042e-11	1.000000	9.01090e-11	1.000000
rad24	7.85291e-11	1.000000	7.85330e-11	1.000000
rad18	3.85527e-11	1.000000	3.85546e-11	1.000000
rad25	9.12935e-12	1.000000	9.12983e-12	1.000000
rad27	5.73340e-12	1.000000	5.73370e-12	1.000000
rad31	2.42835e-12	1.000000	2.42847e-12	1.000000
rad14	6.38634e-13	1.000000	6.38666e-13	1.000000
rad47	1.48124e-13	1.000000	1.48130e-13	1.000000
rad5	1.55617e-15	1.000000	1.55625e-15	1.000000

100.000000 Pa, 1200.00000 K

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

Total		3.72623e-12 (1.00)	3.72576e-12 (1.00)
Formation of rad19		2.86288e-12 (0.768)	2.86245e-12 (0.768)
H-abstraction to cyc2enyl		6.53266e-13 (0.175)	6.53266e-13 (0.175)
H-abstraction to cyc1enyl		2.10085e-13 (0.0564)	2.10053e-13 (0.0564)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.685475	0.685475	0.685562	0.685562
Benzene+cycloprop-2-enylidene	0.175315	0.860791	0.175337	0.860900
PhCHCCH2+H	0.0707864	0.931577	0.0707953	0.931695
Benzene+cycloprop-1-enylidene	0.0563801	0.987957	0.0563786	0.988073
Ph+MeAc	0.00232214	0.990279	0.00232243	0.990396
C2H2+PhCH2	0.00223859	0.992518	0.00223887	0.992635
Ph+Allene	0.00213011	0.994648	0.00213038	0.994765
PhCH2CCH+H	0.00114986	0.995798	0.00115001	0.995915
PhCCCH3+H	0.00102873	0.996826	0.00102886	0.996944
rad67	0.000826665	0.997653	0.000826774	0.997771
PhCCH+CH3	0.000657642	0.998311	0.000657725	0.998428
rad9	0.000423771	0.998734	0.000423824	0.998852
PhcycC3H3_A+H	0.000350079	0.999085	0.000350122	0.999202
rad35	0.000297561	0.999382	0.000297599	0.999500
PhcycC3H3_B+H	0.000266382	0.999649	0.000266416	0.999766
Phenyl+cycC3H4	0.000117515	0.999766	0.000000	0.999766
PAH7+H	6.20798e-05	0.999828	6.20876e-05	0.999828
rad37	5.65407e-05	0.999885	5.65479e-05	0.999885
PAH10+CH3	5.17502e-05	0.999936	5.17567e-05	0.999937
PAH9+H	1.32652e-05	0.999950	1.32669e-05	0.999950
rad38	1.20846e-05	0.999962	1.20861e-05	0.999962
rad39	1.08954e-05	0.999973	1.08968e-05	0.999973
rad30	1.06873e-05	0.999983	1.06888e-05	0.999984
PAH3+H	7.66117e-06	0.999991	7.66214e-06	0.999991
rad46	1.67966e-06	0.999993	1.67987e-06	0.999993
rad50	1.02619e-06	0.999994	1.02632e-06	0.999994
rad54	8.14180e-07	0.999995	8.14281e-07	0.999995
rad60syn	8.13512e-07	0.999995	8.13613e-07	0.999996
rad59	8.02878e-07	0.999996	8.02980e-07	0.999997
rad12	7.13976e-07	0.999997	7.14066e-07	0.999997
PAH1+H	6.94743e-07	0.999998	6.94830e-07	0.999998
rad60anti	4.97404e-07	0.999998	4.97467e-07	0.999998
rad15	4.00609e-07	0.999998	4.00660e-07	0.999999
rad43	2.62106e-07	0.999999	2.62139e-07	0.999999
rad51	2.28409e-07	0.999999	2.28438e-07	0.999999
rad70	2.10427e-07	0.999999	2.10454e-07	1.000000
rad6	1.14398e-07	0.999999	1.14412e-07	1.000000
rad52	7.78600e-08	0.999999	7.78694e-08	1.000000
rad23	5.76789e-08	0.999999	5.76862e-08	1.000000
rad58	5.45987e-08	0.999999	5.46056e-08	1.000000
rad55	5.25976e-08	0.999999	5.26042e-08	1.000000
rad34	4.48144e-08	1.000000	4.48200e-08	1.000000
rad61	4.13220e-08	1.000000	4.13272e-08	1.000000
rad45	2.69846e-08	1.000000	2.69880e-08	1.000000
rad62	2.21412e-08	1.000000	2.21439e-08	1.000000
rad19anti	1.95811e-08	1.000000	1.95836e-08	1.000000
rad2	1.52080e-08	1.000000	1.52099e-08	1.000000
rad41	1.24967e-08	1.000000	1.24983e-08	1.000000
rad53	8.55938e-09	1.000000	8.56045e-09	1.000000
rad56	6.83205e-09	1.000000	6.83291e-09	1.000000
rad65	6.72435e-09	1.000000	6.72520e-09	1.000000
PAH8+H	6.66487e-09	1.000000	6.66571e-09	1.000000
rad71	4.17963e-09	1.000000	4.18016e-09	1.000000
rad1	4.17724e-09	1.000000	4.17778e-09	1.000000
rad73	3.32233e-09	1.000000	3.32275e-09	1.000000
rad64	2.96495e-09	1.000000	2.96532e-09	1.000000
rad36	2.64227e-09	1.000000	2.64260e-09	1.000000
rad8	2.59178e-09	1.000000	2.59211e-09	1.000000
rad11	2.44604e-09	1.000000	2.44635e-09	1.000000
rad21	2.15517e-09	1.000000	2.15544e-09	1.000000
rad68syn	1.89542e-09	1.000000	1.89566e-09	1.000000
rad13	1.45973e-09	1.000000	1.45991e-09	1.000000
rad10	1.35178e-09	1.000000	1.35195e-09	1.000000
rad68anti	1.24279e-09	1.000000	1.24295e-09	1.000000
rad40syn	1.18580e-09	1.000000	1.18595e-09	1.000000
rad42	1.17207e-09	1.000000	1.17222e-09	1.000000
rad19syn	1.13955e-09	1.000000	1.13970e-09	1.000000
rad40anti	9.26552e-10	1.000000	9.26666e-10	1.000000
rad22	8.74369e-10	1.000000	8.74476e-10	1.000000
rad7	6.25171e-10	1.000000	6.25250e-10	1.000000
rad20	6.22252e-10	1.000000	6.22330e-10	1.000000
rad26	3.36020e-10	1.000000	3.36063e-10	1.000000
rad28	1.87464e-10	1.000000	1.87488e-10	1.000000

rad33	1.52362e-10	1.000000	1.52381e-10	1.000000
rad3	1.34221e-10	1.000000	1.34238e-10	1.000000
rad72	1.21007e-10	1.000000	1.21022e-10	1.000000
rad24	1.19800e-10	1.000000	1.19815e-10	1.000000
rad4	1.07298e-10	1.000000	1.07312e-10	1.000000
rad18	9.86096e-11	1.000000	9.86216e-11	1.000000
rad25	3.17179e-11	1.000000	3.17219e-11	1.000000
rad27	1.67334e-11	1.000000	1.67355e-11	1.000000
rad31	2.56581e-12	1.000000	2.56613e-12	1.000000
rad14	1.67396e-12	1.000000	1.67417e-12	1.000000
rad47	2.15269e-13	1.000000	2.15296e-13	1.000000
rad5	2.77456e-15	1.000000	2.77492e-15	1.000000

100.000000 Pa, 1300.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.84401e-12 (1.00)	4.84262e-12 (1.00)
Formation of rad19	3.55537e-12 (0.734)	3.55411e-12 (0.734)
H-abstraction to cyc2enyl	9.48893e-13 (0.196)	9.48893e-13 (0.196)
H-abstraction to cyclenyl	3.39740e-13 (0.0701)	3.39620e-13 (0.0701)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.625983	0.625983	0.626161	0.626161
Benzene+cycloprop-2-enylidene	0.195890	0.821873	0.195946	0.822108
PhCHCCH2+H	0.0916344	0.913507	0.0916603	0.913768
Benzene+cycloprop-1-enylidene	0.0701362	0.983643	0.0701313	0.983899
Ph+MeAc	0.00307259	0.986716	0.00307347	0.986973
C2H2+PhCH2	0.00293093	0.989647	0.00293176	0.989904
Ph+Allene	0.00291339	0.992560	0.00291422	0.992819
PhCH2CCH+H	0.00168032	0.994241	0.00168080	0.994499
PhCCCH3+H	0.00131074	0.995551	0.00131112	0.995811
rad67	0.00112065	0.996672	0.00112097	0.996932
PhCCH+CH3	0.000816414	0.997488	0.000816643	0.997748
PhcycC3H3_A+H	0.000676309	0.998165	0.000676502	0.998425
PhcycC3H3_B+H	0.000564762	0.998730	0.000564923	0.998990
rad35	0.000403023	0.999133	0.000403139	0.999393
rad9	0.000266192	0.999399	0.000266269	0.999659
Phenyl+cycC3H4	0.000260508	0.999659	0.000000	0.999659
PAH10+CH3	8.60951e-05	0.999745	8.61192e-05	0.999745
PAH7+H	7.95701e-05	0.999825	7.95932e-05	0.999825
rad37	7.91847e-05	0.999904	7.92071e-05	0.999904
PAH9+H	2.15095e-05	0.999926	2.15157e-05	0.999925
rad38	1.93122e-05	0.999945	1.93178e-05	0.999945
rad30	1.51440e-05	0.999960	1.51484e-05	0.999960
rad39	1.34510e-05	0.999973	1.34549e-05	0.999973
PAH3+H	1.30532e-05	0.999987	1.30570e-05	0.999986
rad46	2.85483e-06	0.999989	2.85565e-06	0.999989
rad50	1.89414e-06	0.999991	1.89469e-06	0.999991
rad59	1.33911e-06	0.999993	1.33950e-06	0.999993
rad60syn	1.27719e-06	0.999994	1.27755e-06	0.999994
rad54	1.25031e-06	0.999995	1.25067e-06	0.999995
PAH1+H	1.23302e-06	0.999996	1.23338e-06	0.999996
rad60anti	7.85836e-07	0.999997	7.86060e-07	0.999997
rad12	5.90620e-07	0.999998	5.90789e-07	0.999998
rad15	5.44291e-07	0.999998	5.44447e-07	0.999998
rad51	4.33198e-07	0.999999	4.33321e-07	0.999999
rad43	4.20368e-07	0.999999	4.20488e-07	0.999999
rad70	3.55032e-07	1.000000	3.55133e-07	0.999999
rad52	1.46336e-07	1.000000	1.46378e-07	1.000000
rad6	1.02476e-07	1.000000	1.02505e-07	1.000000
rad58	1.00924e-07	1.000000	1.00953e-07	1.000000
rad55	8.38154e-08	1.000000	8.38389e-08	1.000000
rad61	7.97455e-08	1.000000	7.97678e-08	1.000000
rad34	7.88170e-08	1.000000	7.88402e-08	1.000000
rad23	5.52129e-08	1.000000	5.52287e-08	1.000000
rad62	3.29336e-08	1.000000	3.29430e-08	1.000000
rad45	2.53145e-08	1.000000	2.53218e-08	1.000000
rad41	2.22950e-08	1.000000	2.23013e-08	1.000000
rad53	1.55059e-08	1.000000	1.55103e-08	1.000000
rad19anti	1.49877e-08	1.000000	1.49921e-08	1.000000
rad56	1.30550e-08	1.000000	1.30587e-08	1.000000
PAH8+H	1.29157e-08	1.000000	1.29193e-08	1.000000
rad65	1.27739e-08	1.000000	1.27775e-08	1.000000
rad2	1.12858e-08	1.000000	1.12890e-08	1.000000
rad11	9.26539e-09	1.000000	9.26805e-09	1.000000
rad71	6.74004e-09	1.000000	6.74196e-09	1.000000
rad73	5.73979e-09	1.000000	5.74143e-09	1.000000
rad64	5.26356e-09	1.000000	5.26507e-09	1.000000

rad8	4.48245e-09	1.00000	4.48372e-09	1.00000
rad68syn	3.66168e-09	1.00000	3.66273e-09	1.00000
rad1	3.12580e-09	1.00000	3.12669e-09	1.00000
rad21	3.12439e-09	1.00000	3.12529e-09	1.00000
rad36	2.49056e-09	1.00000	2.49127e-09	1.00000
rad13	2.43900e-09	1.00000	2.43970e-09	1.00000
rad68anti	2.39934e-09	1.00000	2.40002e-09	1.00000
rad10	2.38235e-09	1.00000	2.38303e-09	1.00000
rad40syn	2.31490e-09	1.00000	2.31556e-09	1.00000
rad7	2.16949e-09	1.00000	2.17011e-09	1.00000
rad42	1.93789e-09	1.00000	1.93844e-09	1.00000
rad40anti	1.80803e-09	1.00000	1.80854e-09	1.00000
rad22	1.17321e-09	1.00000	1.17354e-09	1.00000
rad19syn	1.00706e-09	1.00000	1.00735e-09	1.00000
rad20	8.22726e-10	1.00000	8.22962e-10	1.00000
rad26	3.65445e-10	1.00000	3.65549e-10	1.00000
rad18	2.96155e-10	1.00000	2.96240e-10	1.00000
rad33	1.78770e-10	1.00000	1.78821e-10	1.00000
rad28	1.63265e-10	1.00000	1.63312e-10	1.00000
rad72	1.63114e-10	1.00000	1.63161e-10	1.00000
rad24	1.54382e-10	1.00000	1.54426e-10	1.00000
rad3	9.47942e-11	1.00000	9.48213e-11	1.00000
rad4	7.55472e-11	1.00000	7.55691e-11	1.00000
rad25	5.94602e-11	1.00000	5.94771e-11	1.00000
rad27	2.85795e-11	1.00000	2.85876e-11	1.00000
rad14	2.72646e-12	1.00000	2.72723e-12	1.00000
rad31	2.63071e-12	1.00000	2.63146e-12	1.00000
rad47	3.87211e-13	1.00000	3.87322e-13	1.00000
rad5	1.13806e-14	1.00000	1.13839e-14	1.00000

100.000000 Pa, 1400.00000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	6.19360e-12 (1.00)	6.18997e-12 (1.00)		
Formation of rad19	4.34185e-12 (0.701)	4.33861e-12 (0.701)		
H-abstraction to cyc2enyl	1.32990e-12 (0.215)	1.32990e-12 (0.215)		
H-abstraction to cyclenyl	5.21850e-13 (0.0843)	5.21461e-13 (0.0842)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.565386	0.565386	0.565718	0.565718
Benzene+cycloprop-2-enylidene	0.214721	0.780108	0.214847	0.780566
PhCHCCH2+H	0.113917	0.894025	0.113983	0.894549
Benzene+cycloprop-1-enylidene	0.0842564	0.978281	0.0842429	0.978792
Ph+MeAc	0.00388756	0.982168	0.00388984	0.982682
Ph+Allene	0.00377533	0.985944	0.00377754	0.986459
C2H2+PhCH2	0.00369364	0.989637	0.00369581	0.990155
PhCH2CCH+H	0.00232736	0.991965	0.00232872	0.992484
PhCCCH3+H	0.00160100	0.993566	0.00160194	0.994086
rad67	0.00145042	0.995016	0.00145127	0.995537
PhcycC3H3_A+H	0.00120667	0.996223	0.00120738	0.996744
PhcycC3H3_B+H	0.00109392	0.997317	0.00109456	0.997839
PhCCH+CH3	0.000992374	0.998309	0.000992951	0.998832
Phenyl+cycC3H4	0.000523345	0.998833	0.00000	0.998832
rad35	0.000521721	0.999354	0.000522027	0.999354
rad9	0.000166530	0.999521	0.000166627	0.999521
PAH10+CH3	0.000134288	0.999655	0.000134367	0.999655
rad37	0.000104403	0.999759	0.000104464	0.999759
PAH7+H	9.80022e-05	0.999857	9.80601e-05	0.999857
PAH9+H	3.34327e-05	0.999891	3.34523e-05	0.999891
rad38	2.92758e-05	0.999920	2.92930e-05	0.999920
PAH3+H	2.12666e-05	0.999941	2.12790e-05	0.999941
rad30	2.04635e-05	0.999962	2.04755e-05	0.999962
rad39	1.60930e-05	0.999978	1.61025e-05	0.999978
rad46	4.67432e-06	0.999983	4.67706e-06	0.999983
rad50	3.47855e-06	0.999986	3.48059e-06	0.999986
rad59	2.12823e-06	0.999988	2.12948e-06	0.999988
PAH1+H	2.08335e-06	0.999990	2.08458e-06	0.999990
rad60syn	1.90733e-06	0.999992	1.90845e-06	0.999992
rad54	1.79199e-06	0.999994	1.79304e-06	0.999994
rad60anti	1.18101e-06	0.999995	1.18170e-06	0.999995
rad51	8.56334e-07	0.999996	8.56841e-07	0.999996
rad15	8.40736e-07	0.999997	8.41225e-07	0.999997
rad43	6.37834e-07	0.999998	6.38208e-07	0.999998
rad70	5.66983e-07	0.999998	5.67316e-07	0.999998
rad12	4.69852e-07	0.999999	4.70128e-07	0.999999
rad52	2.78750e-07	0.999999	2.78914e-07	0.999999
rad58	1.82181e-07	0.999999	1.82288e-07	0.999999
rad61	1.49518e-07	0.999999	1.49606e-07	0.999999

rad34	1.31988e-07	0.999999	1.32065e-07	0.999999
rad55	1.24495e-07	1.000000	1.24568e-07	1.000000
rad6	1.10215e-07	1.000000	1.10280e-07	1.000000
rad23	5.57768e-08	1.000000	5.58095e-08	1.000000
rad62	4.64814e-08	1.000000	4.65087e-08	1.000000
rad41	3.79911e-08	1.000000	3.80134e-08	1.000000
PAH8+H	2.74098e-08	1.000000	2.74259e-08	1.000000
rad53	2.63972e-08	1.000000	2.64127e-08	1.000000
rad65	2.50415e-08	1.000000	2.50561e-08	1.000000
rad56	2.37749e-08	1.000000	2.37889e-08	1.000000
rad45	2.32456e-08	1.000000	2.32592e-08	1.000000
rad11	1.92544e-08	1.000000	1.92657e-08	1.000000
rad71	1.54491e-08	1.000000	1.54581e-08	1.000000
rad73	1.29301e-08	1.000000	1.29377e-08	1.000000
rad19anti	1.16241e-08	1.000000	1.16309e-08	1.000000
rad64	8.94399e-09	1.000000	8.94929e-09	1.000000
rad2	8.37231e-09	1.000000	8.37721e-09	1.000000
rad68syn	7.08965e-09	1.000000	7.09384e-09	1.000000
rad7	5.81938e-09	1.000000	5.82279e-09	1.000000
rad8	5.72296e-09	1.000000	5.72632e-09	1.000000
rad10	4.86289e-09	1.000000	4.86574e-09	1.000000
rad40syn	4.73693e-09	1.000000	4.73971e-09	1.000000
rad68anti	4.63711e-09	1.000000	4.63983e-09	1.000000
rad21	3.75199e-09	1.000000	3.75419e-09	1.000000
rad40anti	3.71855e-09	1.000000	3.72074e-09	1.000000
rad42	3.04174e-09	1.000000	3.04352e-09	1.000000
rad13	2.75887e-09	1.000000	2.76049e-09	1.000000
rad1	2.34159e-09	1.000000	2.34297e-09	1.000000
rad36	2.30194e-09	1.000000	2.30330e-09	1.000000
rad22	1.44175e-09	1.000000	1.44260e-09	1.000000
rad20	9.04256e-10	1.000000	9.04784e-10	1.000000
rad19syn	8.90593e-10	1.000000	8.91116e-10	1.000000
rad18	7.28615e-10	1.000000	7.29037e-10	1.000000
rad26	6.14621e-10	1.000000	6.14981e-10	1.000000
rad72	3.74450e-10	1.000000	3.74670e-10	1.000000
rad24	1.80885e-10	1.000000	1.80991e-10	1.000000
rad28	1.79282e-10	1.000000	1.79387e-10	1.000000
rad33	1.74257e-10	1.000000	1.74359e-10	1.000000
rad25	7.97869e-11	1.000000	7.98336e-11	1.000000
rad3	6.73241e-11	1.000000	6.73635e-11	1.000000
rad4	5.33828e-11	1.000000	5.34141e-11	1.000000
rad27	3.63544e-11	1.000000	3.63758e-11	1.000000
rad14	3.27070e-12	1.000000	3.27262e-12	1.000000
rad31	2.62724e-12	1.000000	2.62878e-12	1.000000
rad47	7.43294e-13	1.000000	7.43736e-13	1.000000
rad5	1.05135e-13	1.000000	1.05197e-13	1.000000

100.000000 Pa, 1500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.80417e-12 (1.00)	7.79561e-12 (1.00)
Formation of rad19	5.22661e-12 (0.670)	5.21915e-12 (0.669)
H-abstraction to cyc2enyl	1.80920e-12 (0.232)	1.80920e-12 (0.232)
H-abstraction to cyc1enyl	7.68359e-13 (0.0985)	7.67262e-13 (0.0984)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.505541	0.505541	0.506096	0.506096
Benzene+cycloprop-2-enylidene	0.231825	0.737366	0.232079	0.738175
PhCHCCH2+H	0.136149	0.873515	0.136298	0.874474
Benzene+cycloprop-1-enylidene	0.0984549	0.971970	0.0984223	0.972896
Ph+MeAc	0.00471268	0.976682	0.00471785	0.977614
Ph+Allene	0.00465464	0.981337	0.00465974	0.982274
C2H2+PhCH2	0.00447993	0.985817	0.00448485	0.986758
PhCH2CCH+H	0.00305565	0.988872	0.00305900	0.989817
PhcycC3H3_A+H	0.00199081	0.990863	0.00199300	0.991810
PhcycC3H3_B+H	0.00193404	0.992797	0.00193617	0.993747
PhCCCH3+H	0.00187870	0.994676	0.00188076	0.995627
rad67	0.00179407	0.996470	0.00179604	0.997423
PhCCH+CH3	0.00117966	0.997650	0.00118095	0.998604
Phenyl+cycC3H4	0.000956146	0.998606	0.000000	0.998604
rad35	0.000645983	0.999252	0.000646692	0.999251
PAH10+CH3	0.000194941	0.999447	0.000195155	0.999446
rad37	0.000130011	0.999577	0.000130154	0.999576
PAH7+H	0.000116574	0.999693	0.000116702	0.999693
rad9	0.000104467	0.999798	0.000104582	0.999798
PAH9+H	4.90650e-05	0.999847	4.91188e-05	0.999847
rad38	4.17580e-05	0.999889	4.18039e-05	0.999889
PAH3+H	3.25042e-05	0.999921	3.25399e-05	0.999921

rad30	2.63402e-05	0.999947	2.63691e-05	0.999948
rad39	1.88190e-05	0.999966	1.88396e-05	0.999966
rad46	7.20117e-06	0.999974	7.20902e-06	0.999974
rad50	5.98940e-06	0.999980	5.99597e-06	0.999980
PAH1+H	3.27547e-06	0.999983	3.27906e-06	0.999983
rad59	3.17632e-06	0.999986	3.17980e-06	0.999986
rad60syn	2.68948e-06	0.999989	2.69243e-06	0.999989
rad54	2.40433e-06	0.999991	2.40697e-06	0.999991
rad60anti	1.67493e-06	0.999993	1.67677e-06	0.999993
rad51	1.59135e-06	0.999994	1.59310e-06	0.999994
rad15	1.14771e-06	0.999995	1.14897e-06	0.999996
rad43	9.08924e-07	0.999996	9.09922e-07	0.999996
rad70	8.46600e-07	0.999997	8.47531e-07	0.999997
rad52	4.97821e-07	0.999998	4.98367e-07	0.999998
rad12	3.67179e-07	0.999998	3.67582e-07	0.999998
rad58	3.06683e-07	0.999998	3.07020e-07	0.999998
rad61	2.58085e-07	0.999999	2.58368e-07	0.999999
rad34	2.06053e-07	0.999999	2.06280e-07	0.999999
rad55	1.72523e-07	0.999999	1.72712e-07	0.999999
rad6	1.33473e-07	0.999999	1.33620e-07	0.999999
rad62	6.22353e-08	0.999999	6.23037e-08	0.999999
rad41	6.02501e-08	0.999999	6.03163e-08	0.999999
rad23	5.85457e-08	0.999999	5.86100e-08	0.999999
PAH8+H	5.45407e-08	0.999999	5.46005e-08	0.999999
rad65	4.60424e-08	0.999999	4.60930e-08	1.000000
rad53	4.15017e-08	0.999999	4.15473e-08	1.000000
rad56	3.98265e-08	1.000000	3.98702e-08	1.000000
rad71	3.58319e-08	1.000000	3.58713e-08	1.000000
rad73	2.86417e-08	1.000000	2.86731e-08	1.000000
rad11	2.64542e-08	1.000000	2.64832e-08	1.000000
rad45	2.09726e-08	1.000000	2.09956e-08	1.000000
rad64	1.42130e-08	1.000000	1.42286e-08	1.000000
rad68syn	1.27477e-08	1.000000	1.27616e-08	1.000000
rad7	9.57251e-09	1.000000	9.58300e-09	1.000000
rad19anti	9.13338e-09	1.000000	9.14341e-09	1.000000
rad40syn	9.03325e-09	1.000000	9.04318e-09	1.000000
rad68anti	8.32221e-09	1.000000	8.33137e-09	1.000000
rad10	7.92118e-09	1.000000	7.92987e-09	1.000000
rad40anti	7.13212e-09	1.000000	7.13993e-09	1.000000
rad8	6.29780e-09	1.000000	6.30472e-09	1.000000
rad2	6.21708e-09	1.000000	6.22390e-09	1.000000
rad42	4.48790e-09	1.000000	4.49282e-09	1.000000
rad21	4.05054e-09	1.000000	4.05498e-09	1.000000
rad13	2.54436e-09	1.000000	2.54716e-09	1.000000
rad36	2.09170e-09	1.000000	2.09400e-09	1.000000
rad1	1.75829e-09	1.000000	1.76022e-09	1.000000
rad22	1.64581e-09	1.000000	1.64762e-09	1.000000
rad26	1.57281e-09	1.000000	1.57454e-09	1.000000
rad18	1.20563e-09	1.000000	1.20695e-09	1.000000
rad72	9.50367e-10	1.000000	9.51411e-10	1.000000
rad20	8.97767e-10	1.000000	8.98755e-10	1.000000
rad19syn	7.89908e-10	1.000000	7.90771e-10	1.000000
rad28	2.39697e-10	1.000000	2.39960e-10	1.000000
rad24	1.99453e-10	1.000000	1.99673e-10	1.000000
rad33	1.53584e-10	1.000000	1.53752e-10	1.000000
rad25	8.89348e-11	1.000000	8.90319e-11	1.000000
rad3	4.81221e-11	1.000000	4.81750e-11	1.000000
rad27	3.91952e-11	1.000000	3.92382e-11	1.000000
rad4	3.78898e-11	1.000000	3.79314e-11	1.000000
rad14	3.31196e-12	1.000000	3.31560e-12	1.000000
rad31	2.56264e-12	1.000000	2.56546e-12	1.000000
rad47	1.34848e-12	1.000000	1.34995e-12	1.000000
rad5	1.10634e-12	1.000000	1.10756e-12	1.000000

10.000000 Pa, 20.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.24541e-22 (1.00)	1.24541e-22 (1.00)
Formation of rad19	1.24541e-22 (1.00)	1.24541e-22 (1.00)
H-abstraction to cyc2enyl	3.84323e-68 (3.09e-46)	3.84323e-68 (3.09e-46)
H-abstraction to cyclenyl	6.26313e-106 (5.03e-84)	6.26313e-106 (5.03e-84)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.768565	0.768565	0.768565	0.768565
rad9	0.231071	0.999636	0.231071	0.999636
rad15	0.000252722	0.999889	0.000252722	0.999889
PhCHCH2+H	0.000101218	0.999990	0.000101218	0.999990
rad6	5.14452e-06	0.999995	5.14452e-06	0.999995

rad2	1.08434e-06	0.999996	1.08434e-06	0.999996
PhCCH+CH3	8.31406e-07	0.999997	8.31406e-07	0.999997
PhCCCH3+H	5.32005e-07	0.999998	5.32005e-07	0.999998
C2H2+PhCH2	4.46012e-07	0.999998	4.46012e-07	0.999998
rad26	4.32302e-07	0.999998	4.32302e-07	0.999998
Ph+MeAc	3.40157e-07	0.999999	3.40157e-07	0.999999
rad67	1.99187e-07	0.999999	1.99187e-07	0.999999
rad10	1.08317e-07	0.999999	1.08317e-07	0.999999
rad35	8.94503e-08	0.999999	8.94503e-08	0.999999
rad1	6.85077e-08	0.999999	6.85077e-08	0.999999
rad23	2.42664e-08	0.999999	2.42664e-08	0.999999
rad3	1.24709e-08	0.999999	1.24709e-08	0.999999
rad4	6.29921e-09	0.999999	6.29921e-09	0.999999
Ph+Allene	4.64813e-09	0.999999	4.64813e-09	0.999999
rad7	1.97307e-09	0.999999	1.97307e-09	0.999999
rad28	1.84421e-09	0.999999	1.84421e-09	0.999999
rad45	1.83076e-09	0.999999	1.83076e-09	0.999999
rad30	1.55934e-09	0.999999	1.55934e-09	0.999999
rad12	1.18563e-09	0.999999	1.18563e-09	0.999999
rad11	8.40789e-10	0.999999	8.40789e-10	0.999999
PhCH2CCH+H	7.59108e-10	0.999999	7.59108e-10	0.999999
rad37	4.93681e-10	0.999999	4.93681e-10	0.999999
rad19anti	3.81731e-10	0.999999	3.81731e-10	0.999999
rad36	1.12290e-10	0.999999	1.12290e-10	0.999999
rad22	5.56130e-11	0.999999	5.56130e-11	0.999999
PAH9+H	2.58270e-11	0.999999	2.58270e-11	0.999999
PAH7+H	1.74516e-11	0.999999	1.74516e-11	0.999999
rad38	1.04060e-11	0.999999	1.04060e-11	0.999999
rad13	6.65802e-12	0.999999	6.65802e-12	0.999999
rad60syn	6.04840e-12	0.999999	6.04840e-12	0.999999
rad39	3.99318e-12	0.999999	3.99318e-12	0.999999
rad60anti	2.92762e-12	0.999999	2.92762e-12	0.999999
PAH3+H	2.16857e-12	0.999999	2.16857e-12	0.999999
rad14	1.93922e-12	0.999999	1.93922e-12	0.999999
rad27	1.69896e-12	0.999999	1.69896e-12	0.999999
rad5	1.44356e-12	0.999999	1.44356e-12	0.999999
rad46	5.88502e-13	0.999999	5.88502e-13	0.999999
rad59	4.55607e-13	0.999999	4.55607e-13	0.999999
PhcycC3H3_A+H	4.02654e-13	0.999999	4.02654e-13	0.999999
PAH10+CH3	3.39579e-13	0.999999	3.39579e-13	0.999999
rad43	3.41592e-14	0.999999	3.41592e-14	0.999999
rad18	9.57970e-15	0.999999	9.57970e-15	0.999999
rad33	7.59059e-15	0.999999	7.59059e-15	0.999999
rad25	7.44669e-15	0.999999	7.44669e-15	0.999999
rad62	5.79363e-15	0.999999	5.79363e-15	0.999999
rad50	3.05279e-15	0.999999	3.05279e-15	0.999999
rad20	1.04113e-15	0.999999	1.04113e-15	0.999999
rad21	6.47056e-16	0.999999	6.47056e-16	0.999999
rad54	4.97427e-16	0.999999	4.97427e-16	0.999999
rad70	1.13717e-16	0.999999	1.13717e-16	0.999999
Phenyl+cycC3H4	2.77348e-17	0.999999	0.00000	0.999999
rad31	2.10521e-17	0.999999	2.10521e-17	0.999999
rad58	1.93570e-17	0.999999	1.93570e-17	0.999999
rad52	1.69931e-17	0.999999	1.69931e-17	0.999999
rad24	1.54174e-17	0.999999	1.54174e-17	0.999999
PAH1+H	1.00638e-17	0.999999	1.00638e-17	0.999999
rad51	3.66673e-18	0.999999	3.66673e-18	0.999999
rad55	2.71782e-18	0.999999	2.71782e-18	0.999999
rad34	9.59299e-19	0.999999	9.59299e-19	0.999999
rad41	2.26872e-19	0.999999	2.26872e-19	0.999999
rad42	1.94374e-19	0.999999	1.94374e-19	0.999999
rad65	6.63260e-20	0.999999	6.63260e-20	0.999999
PhcycC3H3_B+H	2.70753e-22	0.999999	2.70753e-22	0.999999
rad47	1.51837e-24	0.999999	1.51837e-24	0.999999
rad53	1.17565e-26	0.999999	1.17565e-26	0.999999
rad64	1.04901e-28	0.999999	1.04901e-28	0.999999
rad61	4.81877e-31	0.999999	4.81877e-31	0.999999
rad56	2.74427e-34	0.999999	2.74427e-34	0.999999
rad68syn	1.09992e-35	0.999999	1.09992e-35	0.999999
rad68anti	9.07364e-36	0.999999	9.07364e-36	0.999999
rad19syn	1.37480e-38	0.999999	1.37480e-38	0.999999
rad40syn	1.39483e-41	0.999999	1.39483e-41	0.999999
rad40anti	1.11301e-41	0.999999	1.11301e-41	0.999999
rad73	4.46726e-42	0.999999	4.46726e-42	0.999999
PAH8+H	4.39649e-45	0.999999	4.39649e-45	0.999999
Benzene+cycloprop-2-enylidene	3.08591e-46	0.999999	3.08591e-46	0.999999
rad71	2.11107e-48	0.999999	2.11107e-48	0.999999
rad8	1.93505e-52	0.999999	1.93505e-52	0.999999
Benzene+cycloprop-1-enylidene	5.02895e-84	0.999999	5.02895e-84	0.999999

10.0000000 Pa, 30.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.13009e-20 (1.00)	8.13009e-20 (1.00)
Formation of rad19	8.13009e-20 (1.00)	8.13009e-20 (1.00)
H-abstraction to cyc2enyl	1.08880e-49 (1.34e-30)	1.08880e-49 (1.34e-30)
H-abstraction to cyclenyl	7.55172e-75 (9.29e-56)	7.55172e-75 (9.29e-56)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.935094	0.935094	0.935094	0.935094
rad9	0.0646853	0.999779	0.0646853	0.999779
PhCHCCH2+H	0.000143862	0.999923	0.000143862	0.999923
rad15	6.36827e-05	0.999987	6.36827e-05	0.999987
rad6	7.39997e-06	0.999994	7.39997e-06	0.999994
PhCCH+CH3	1.56971e-06	0.999996	1.56971e-06	0.999996
PhCCCH3+H	1.00894e-06	0.999997	1.00894e-06	0.999997
Ph+MeAc	6.66235e-07	0.999997	6.66235e-07	0.999997
C2H2+PhCH2	6.64106e-07	0.999998	6.64106e-07	0.999998
rad2	6.21510e-07	0.999999	6.21510e-07	0.999999
rad26	3.90868e-07	0.999999	3.90868e-07	0.999999
rad67	2.91059e-07	0.999999	2.91059e-07	0.999999
rad35	1.30198e-07	1.000000	1.30198e-07	1.000000
rad10	5.85454e-08	1.000000	5.85454e-08	1.000000
rad1	3.92835e-08	1.000000	3.92835e-08	1.000000
Ph+Allene	7.92370e-09	1.000000	7.92370e-09	1.000000
rad3	6.69762e-09	1.000000	6.69762e-09	1.000000
rad23	5.35852e-09	1.000000	5.35852e-09	1.000000
rad28	4.59964e-09	1.000000	4.59964e-09	1.000000
rad4	3.38328e-09	1.000000	3.38328e-09	1.000000
rad7	2.41787e-09	1.000000	2.41787e-09	1.000000
rad30	2.27077e-09	1.000000	2.27077e-09	1.000000
rad37	1.26418e-09	1.000000	1.26418e-09	1.000000
PhCH2CCH+H	1.26073e-09	1.000000	1.26073e-09	1.000000
rad11	9.65912e-10	1.000000	9.65912e-10	1.000000
rad45	3.33546e-10	1.000000	3.33546e-10	1.000000
rad12	3.18826e-10	1.000000	3.18826e-10	1.000000
PAH7+H	8.52605e-11	1.000000	8.52605e-11	1.000000
rad19anti	8.41918e-11	1.000000	8.41918e-11	1.000000
PAH9+H	4.56943e-11	1.000000	4.56943e-11	1.000000
rad39	2.22139e-11	1.000000	2.22139e-11	1.000000
rad36	2.04542e-11	1.000000	2.04542e-11	1.000000
rad38	1.92691e-11	1.000000	1.92691e-11	1.000000
rad22	1.81912e-11	1.000000	1.81912e-11	1.000000
rad60syn	9.07873e-12	1.000000	9.07873e-12	1.000000
rad13	7.80861e-12	1.000000	7.80861e-12	1.000000
rad60anti	4.40458e-12	1.000000	4.40458e-12	1.000000
PAH3+H	3.34655e-12	1.000000	3.34655e-12	1.000000
rad46	1.06542e-12	1.000000	1.06542e-12	1.000000
PAH10+CH3	9.51216e-13	1.000000	9.51216e-13	1.000000
rad14	9.10032e-13	1.000000	9.10032e-13	1.000000
rad27	8.10266e-13	1.000000	8.10266e-13	1.000000
rad59	7.00719e-13	1.000000	7.00719e-13	1.000000
PhcycC3H3_A+H	4.31863e-13	1.000000	4.31863e-13	1.000000
rad5	2.08848e-13	1.000000	2.08848e-13	1.000000
rad43	7.55417e-14	1.000000	7.55417e-14	1.000000
rad62	1.30897e-14	1.000000	1.30897e-14	1.000000
rad33	8.98080e-15	1.000000	8.98080e-15	1.000000
rad25	7.67613e-15	1.000000	7.67613e-15	1.000000
rad50	5.94477e-15	1.000000	5.94477e-15	1.000000
rad18	3.31380e-15	1.000000	3.31380e-15	1.000000
rad54	1.68204e-15	1.000000	1.68204e-15	1.000000
rad20	3.19965e-16	1.000000	3.19965e-16	1.000000
rad70	1.97833e-16	1.000000	1.97833e-16	1.000000
rad21	1.97651e-16	1.000000	1.97651e-16	1.000000
Phenyl+cycC3H4	5.25631e-17	1.000000	0.000000	1.000000
rad52	3.43877e-17	1.000000	3.43877e-17	1.000000
rad58	3.18745e-17	1.000000	3.18745e-17	1.000000
PAH1+H	3.03775e-17	1.000000	3.03775e-17	1.000000
rad31	1.19639e-17	1.000000	1.19639e-17	1.000000
rad55	9.38719e-18	1.000000	9.38719e-18	1.000000
rad51	7.68783e-18	1.000000	7.68783e-18	1.000000
rad24	2.65857e-18	1.000000	2.65857e-18	1.000000
rad34	1.71589e-18	1.000000	1.71589e-18	1.000000
rad41	5.74247e-19	1.000000	5.74247e-19	1.000000
rad42	4.97904e-19	1.000000	4.97904e-19	1.000000
rad65	1.44804e-19	1.000000	1.44804e-19	1.000000
PhcycC3H3_B+H	3.15174e-22	1.000000	3.15174e-22	1.000000
rad47	1.15245e-24	1.000000	1.15245e-24	1.000000

rad53	3.69792e-26	1.000000	3.69792e-26	1.000000
rad64	4.72016e-28	1.000000	4.72016e-28	1.000000
Benzene+cycloprop-2-enylidene	1.33923e-30	1.000000	1.33923e-30	1.000000
rad61	3.99466e-31	1.000000	3.99466e-31	1.000000
rad56	5.89833e-34	1.000000	5.89833e-34	1.000000
rad68syn	1.54133e-35	1.000000	1.54133e-35	1.000000
rad68anti	1.27077e-35	1.000000	1.27077e-35	1.000000
rad19syn	8.38803e-39	1.000000	8.38803e-39	1.000000
rad73	4.86579e-42	1.000000	4.86579e-42	1.000000
rad40syn	3.50196e-42	1.000000	3.50196e-42	1.000000
rad40anti	2.66989e-42	1.000000	2.66989e-42	1.000000
PAH8+H	2.32628e-45	1.000000	2.32628e-45	1.000000
rad71	2.73624e-48	1.000000	2.73624e-48	1.000000
rad8	2.87230e-53	1.000000	2.87230e-53	1.000000
Benzene+cycloprop-1-enylidene	9.28861e-56	1.000000	9.28861e-56	1.000000

10.0000000 Pa, 40.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.24819e-18 (1.00)	2.24819e-18 (1.00)
Formation of rad19	2.24819e-18 (1.00)	2.24819e-18 (1.00)
H-abstraction to cyc2enyl	1.72361e-40 (7.67e-23)	1.72361e-40 (7.67e-23)
H-abstraction to cyclenyl	2.48792e-59 (1.11e-41)	2.48792e-59 (1.11e-41)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.977790	0.977790	0.977790	0.977790
rad9	0.0220086	0.999799	0.0220086	0.999799
PhCHCCH2+H	0.000166584	0.999965	0.000166584	0.999965
rad15	2.04812e-05	0.999986	2.04812e-05	0.999986
rad6	8.46752e-06	0.999994	8.46752e-06	0.999994
PhCCH+CH3	2.01219e-06	0.999996	2.01219e-06	0.999996
PhCCCH3+H	1.30111e-06	0.999997	1.30111e-06	0.999997
Ph+MeAc	8.79833e-07	0.999998	8.79833e-07	0.999998
C2H2+PhCH2	8.01422e-07	0.999999	8.01422e-07	0.999999
rad2	3.50762e-07	0.999999	3.50762e-07	0.999999
rad67	3.44175e-07	1.000000	3.44175e-07	1.000000
rad26	2.86956e-07	1.000000	2.86956e-07	1.000000
rad35	1.53501e-07	1.000000	1.53501e-07	1.000000
rad10	3.20114e-08	1.000000	3.20114e-08	1.000000
rad1	2.21946e-08	1.000000	2.21946e-08	1.000000
Ph+Allene	1.07143e-08	1.000000	1.07143e-08	1.000000
rad28	6.91799e-09	1.000000	6.91799e-09	1.000000
rad3	3.65430e-09	1.000000	3.65430e-09	1.000000
rad30	2.67970e-09	1.000000	2.67970e-09	1.000000
rad7	2.53939e-09	1.000000	2.53939e-09	1.000000
rad23	2.42880e-09	1.000000	2.42880e-09	1.000000
rad37	1.93400e-09	1.000000	1.93400e-09	1.000000
rad4	1.84636e-09	1.000000	1.84636e-09	1.000000
PhCH2CCH+H	1.66695e-09	1.000000	1.66695e-09	1.000000
rad11	9.82882e-10	1.000000	9.82882e-10	1.000000
PAH7+H	2.02997e-10	1.000000	2.02997e-10	1.000000
rad45	1.36301e-10	1.000000	1.36301e-10	1.000000
rad12	1.07151e-10	1.000000	1.07151e-10	1.000000
PAH9+H	5.89201e-11	1.000000	5.89201e-11	1.000000
rad39	5.45240e-11	1.000000	5.45240e-11	1.000000
rad38	2.57382e-11	1.000000	2.57382e-11	1.000000
rad19anti	2.54798e-11	1.000000	2.54798e-11	1.000000
rad22	1.10583e-11	1.000000	1.10583e-11	1.000000
rad60syn	1.09722e-11	1.000000	1.09722e-11	1.000000
rad36	8.35560e-12	1.000000	8.35560e-12	1.000000
rad13	8.04515e-12	1.000000	8.04515e-12	1.000000
rad60anti	5.33334e-12	1.000000	5.33334e-12	1.000000
PAH3+H	4.14159e-12	1.000000	4.14159e-12	1.000000
PAH10+CH3	1.58884e-12	1.000000	1.58884e-12	1.000000
rad46	1.39665e-12	1.000000	1.39665e-12	1.000000
rad59	8.64534e-13	1.000000	8.64534e-13	1.000000
PhcycC3H3_A+H	4.90598e-13	1.000000	4.90598e-13	1.000000
rad14	4.63394e-13	1.000000	4.63394e-13	1.000000
rad27	4.16255e-13	1.000000	4.16255e-13	1.000000
rad43	1.09902e-13	1.000000	1.09902e-13	1.000000
rad5	5.57945e-14	1.000000	5.57945e-14	1.000000
rad62	1.92495e-14	1.000000	1.92495e-14	1.000000
rad33	9.37320e-15	1.000000	9.37320e-15	1.000000
rad50	8.15709e-15	1.000000	8.15709e-15	1.000000
rad25	7.45583e-15	1.000000	7.45583e-15	1.000000
rad54	3.29635e-15	1.000000	3.29635e-15	1.000000
rad18	1.63750e-15	1.000000	1.63750e-15	1.000000
rad70	2.73956e-16	1.000000	2.73956e-16	1.000000

rad20	1.53749e-16	1.00000	1.53749e-16	1.00000
Phenyl+cycC3H4	1.15738e-16	1.00000	0.00000	1.00000
rad21	9.49847e-17	1.00000	9.49847e-17	1.00000
PAH1+H	5.55388e-17	1.00000	5.55388e-17	1.00000
rad52	4.84883e-17	1.00000	4.84883e-17	1.00000
rad58	4.21493e-17	1.00000	4.21493e-17	1.00000
rad55	1.88903e-17	1.00000	1.88903e-17	1.00000
rad51	1.11458e-17	1.00000	1.11458e-17	1.00000
rad31	6.76033e-18	1.00000	6.76033e-18	1.00000
rad34	2.46273e-18	1.00000	2.46273e-18	1.00000
rad24	1.06701e-18	1.00000	1.06701e-18	1.00000
rad41	9.76523e-19	1.00000	9.76523e-19	1.00000
rad42	8.34913e-19	1.00000	8.34913e-19	1.00000
rad65	2.14386e-19	1.00000	2.14386e-19	1.00000
PhcycC3H3_B+H	4.52948e-22	1.00000	4.52948e-22	1.00000
Benzene+cycloprop-2-enylidene	7.66665e-23	1.00000	7.66665e-23	1.00000
rad47	8.93919e-25	1.00000	8.93919e-25	1.00000
rad53	9.12803e-26	1.00000	9.12803e-26	1.00000
rad64	1.35710e-27	1.00000	1.35710e-27	1.00000
rad61	4.29111e-31	1.00000	4.29111e-31	1.00000
rad56	1.29462e-33	1.00000	1.29462e-33	1.00000
rad68syn	3.12010e-35	1.00000	3.12010e-35	1.00000
rad68anti	2.57164e-35	1.00000	2.57164e-35	1.00000
rad19syn	8.61493e-39	1.00000	8.61493e-39	1.00000
Benzene+cycloprop-1-enylidene	1.10663e-41	1.00000	1.10663e-41	1.00000
rad73	9.47195e-42	1.00000	9.47195e-42	1.00000
rad40syn	3.71437e-42	1.00000	3.71437e-42	1.00000
rad40anti	2.68254e-42	1.00000	2.68254e-42	1.00000
PAH8+H	3.92226e-45	1.00000	3.92226e-45	1.00000
rad71	5.07528e-48	1.00000	5.07528e-48	1.00000
rad8	9.57113e-54	1.00000	9.57113e-54	1.00000

10.0000000 Pa, 50.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.72707e-17 (1.00)	1.72707e-17 (1.00)
Formation of rad19	1.72707e-17 (1.00)	1.72707e-17 (1.00)
H-abstraction to cyc2enyl	5.49905e-35 (3.18e-18)	5.49905e-35 (3.18e-18)
H-abstraction to cyclenyl	4.93090e-50 (2.86e-33)	4.93090e-50 (2.86e-33)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.991211	0.991211	0.991211	0.991211
rad9	0.00858330	0.999794	0.00858330	0.999794
PhCHCCH2+H	0.000181775	0.999976	0.000181775	0.999976
rad6	9.06717e-06	0.999985	9.06717e-06	0.999985
rad15	7.69175e-06	0.999993	7.69175e-06	0.999993
PhCCH+CH3	2.31012e-06	0.999995	2.31012e-06	0.999995
PhCCCH3+H	1.50134e-06	0.999997	1.50134e-06	0.999997
Ph+MeAc	1.03459e-06	0.999998	1.03459e-06	0.999998
C2H2+PhCH2	9.08622e-07	0.999999	9.08622e-07	0.999999
rad67	3.82125e-07	0.999999	3.82125e-07	0.999999
rad2	2.10089e-07	0.999999	2.10089e-07	0.999999
rad26	2.01484e-07	0.999999	2.01484e-07	0.999999
rad35	1.70005e-07	1.000000	1.70005e-07	1.000000
rad10	1.87615e-08	1.000000	1.87615e-08	1.000000
Ph+Allene	1.34234e-08	1.000000	1.34234e-08	1.000000
rad1	1.33148e-08	1.000000	1.33148e-08	1.000000
rad28	8.74641e-09	1.000000	8.74641e-09	1.000000
rad30	2.97143e-09	1.000000	2.97143e-09	1.000000
rad7	2.56737e-09	1.000000	2.56737e-09	1.000000
rad37	2.49449e-09	1.000000	2.49449e-09	1.000000
rad3	2.14753e-09	1.000000	2.14753e-09	1.000000
PhCH2CCH+H	2.05027e-09	1.000000	2.05027e-09	1.000000
rad23	1.68202e-09	1.000000	1.68202e-09	1.000000
rad4	1.08542e-09	1.000000	1.08542e-09	1.000000
rad11	9.73065e-10	1.000000	9.73065e-10	1.000000
PAH7+H	3.65663e-10	1.000000	3.65663e-10	1.000000
rad39	9.95024e-11	1.000000	9.95024e-11	1.000000
rad45	8.80343e-11	1.000000	8.80343e-11	1.000000
PAH9+H	6.95247e-11	1.000000	6.95247e-11	1.000000
rad12	4.16113e-11	1.000000	4.16113e-11	1.000000
rad38	3.11686e-11	1.000000	3.11686e-11	1.000000
rad60syn	1.24194e-11	1.000000	1.24194e-11	1.000000
rad19anti	9.23458e-12	1.000000	9.23458e-12	1.000000
rad22	8.27791e-12	1.000000	8.27791e-12	1.000000
rad13	8.04514e-12	1.000000	8.04514e-12	1.000000
rad60anti	6.04698e-12	1.000000	6.04698e-12	1.000000
rad36	5.39446e-12	1.000000	5.39446e-12	1.000000

PAH3+H	4.79081e-12	1.000000	4.79081e-12	1.000000
PAH10+CH3	2.22793e-12	1.000000	2.22793e-12	1.000000
rad46	1.66931e-12	1.000000	1.66931e-12	1.000000
rad59	9.97135e-13	1.000000	9.97135e-13	1.000000
PhcycC3H3_A+H	5.74524e-13	1.000000	5.74524e-13	1.000000
rad14	2.60473e-13	1.000000	2.60473e-13	1.000000
rad27	2.34553e-13	1.000000	2.34553e-13	1.000000
rad43	1.40397e-13	1.000000	1.40397e-13	1.000000
rad62	2.47837e-14	1.000000	2.47837e-14	1.000000
rad5	2.01694e-14	1.000000	2.01694e-14	1.000000
rad50	1.01025e-14	1.000000	1.01025e-14	1.000000
rad33	9.49404e-15	1.000000	9.49404e-15	1.000000
rad25	7.18549e-15	1.000000	7.18549e-15	1.000000
rad54	5.32366e-15	1.000000	5.32366e-15	1.000000
rad18	9.58845e-16	1.000000	9.58845e-16	1.000000
rad70	3.53740e-16	1.000000	3.53740e-16	1.000000
Phenyl+cycC3H4	2.36668e-16	1.000000	0.00000	1.000000
rad20	9.12034e-17	1.000000	9.12034e-17	1.000000
PAH1+H	8.57847e-17	1.000000	8.57847e-17	1.000000
rad52	6.14588e-17	1.000000	6.14588e-17	1.000000
rad21	5.64314e-17	1.000000	5.64314e-17	1.000000
rad58	5.21478e-17	1.000000	5.21478e-17	1.000000
rad55	3.14214e-17	1.000000	3.14214e-17	1.000000
rad51	1.44877e-17	1.000000	1.44877e-17	1.000000
rad31	4.07871e-18	1.000000	4.07871e-18	1.000000
rad34	3.30971e-18	1.000000	3.30971e-18	1.000000
Benzene+cycloprop-2-enylidene	3.18404e-18	1.000000	3.18404e-18	1.000000
rad41	1.47189e-18	1.000000	1.47189e-18	1.000000
rad42	1.22916e-18	1.000000	1.22916e-18	1.000000
rad24	6.84072e-19	1.000000	6.84072e-19	1.000000
rad65	2.83165e-19	1.000000	2.83165e-19	1.000000
PhcycC3H3_B+H	1.13715e-21	1.000000	1.13715e-21	1.000000
rad47	7.31617e-25	1.000000	7.31617e-25	1.000000
rad53	2.28674e-25	1.000000	2.28674e-25	1.000000
rad64	3.71600e-27	1.000000	3.71600e-27	1.000000
rad61	6.58536e-31	1.000000	6.58536e-31	1.000000
rad56	3.22843e-33	1.000000	3.22843e-33	1.000000
Benzene+cycloprop-1-enylidene	2.85507e-33	1.000000	2.85507e-33	1.000000
rad68syn	7.63078e-35	1.000000	7.63078e-35	1.000000
rad68anti	6.28836e-35	1.000000	6.28836e-35	1.000000
rad19syn	1.15728e-38	1.000000	1.15728e-38	1.000000
rad73	2.30174e-41	1.000000	2.30174e-41	1.000000
rad40syn	7.51230e-42	1.000000	7.51230e-42	1.000000
rad40anti	5.30354e-42	1.000000	5.30354e-42	1.000000
PAH8+H	8.94071e-45	1.000000	8.94071e-45	1.000000
rad71	1.17124e-47	1.000000	1.17124e-47	1.000000
rad8	4.63962e-54	1.000000	4.63962e-54	1.000000

10.000000 Pa, 60.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.93738e-17 (1.00)	6.93738e-17 (1.00)
Formation of rad19	6.93738e-17 (1.00)	6.93738e-17 (1.00)
H-abstraction to cyc2enyl	2.50609e-31 (3.61e-15)	2.50609e-31 (3.61e-15)
H-abstraction to cyclenyl	7.62015e-44 (1.10e-27)	7.62015e-44 (1.10e-27)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.996076	0.996076	0.996076	0.996076
rad9	0.00371079	0.999787	0.00371079	0.999787
PhCHCCH2+H	0.000193473	0.999980	0.000193473	0.999980
rad6	9.44482e-06	0.999990	9.44482e-06	0.999990
rad15	3.23338e-06	0.999993	3.23338e-06	0.999993
PhCCH+CH3	2.53449e-06	0.999995	2.53449e-06	0.999995
PhCCCH3+H	1.65394e-06	0.999997	1.65394e-06	0.999997
Ph+MeAc	1.15784e-06	0.999998	1.15784e-06	0.999998
C2H2+PhCH2	1.00281e-06	0.999999	1.00281e-06	0.999999
rad67	4.12902e-07	1.000000	4.12902e-07	1.000000
rad35	1.83298e-07	1.000000	1.83298e-07	1.000000
rad26	1.40555e-07	1.000000	1.40555e-07	1.000000
rad2	1.33541e-07	1.000000	1.33541e-07	1.000000
Ph+Allene	1.62051e-08	1.000000	1.62051e-08	1.000000
rad10	1.17286e-08	1.000000	1.17286e-08	1.000000
rad28	1.01692e-08	1.000000	1.01692e-08	1.000000
rad1	8.48034e-09	1.000000	8.48034e-09	1.000000
rad30	3.20828e-09	1.000000	3.20828e-09	1.000000
rad37	2.97423e-09	1.000000	2.97423e-09	1.000000
rad7	2.56246e-09	1.000000	2.56246e-09	1.000000
PhCH2CCH+H	2.43813e-09	1.000000	2.43813e-09	1.000000

rad23	1.37609e-09	1.00000	1.37609e-09	1.00000
rad3	1.35261e-09	1.00000	1.35261e-09	1.00000
rad11	9.56224e-10	1.00000	9.56224e-10	1.00000
rad4	6.83941e-10	1.00000	6.83941e-10	1.00000
PAH7+H	5.70139e-10	1.00000	5.70139e-10	1.00000
rad39	1.56275e-10	1.00000	1.56275e-10	1.00000
PAH9+H	7.90190e-11	1.00000	7.90190e-11	1.00000
rad45	6.83760e-11	1.00000	6.83760e-11	1.00000
rad38	3.61245e-11	1.00000	3.61245e-11	1.00000
rad12	1.79791e-11	1.00000	1.79791e-11	1.00000
rad60syn	1.36604e-11	1.00000	1.36604e-11	1.00000
rad13	7.97365e-12	1.00000	7.97365e-12	1.00000
rad22	6.70058e-12	1.00000	6.70058e-12	1.00000
rad60anti	6.66157e-12	1.00000	6.66157e-12	1.00000
PAH3+H	5.37843e-12	1.00000	5.37843e-12	1.00000
rad36	4.18818e-12	1.00000	4.18818e-12	1.00000
rad19anti	3.79358e-12	1.00000	3.79358e-12	1.00000
PAH10+CH3	2.87442e-12	1.00000	2.87442e-12	1.00000
rad46	1.91805e-12	1.00000	1.91805e-12	1.00000
rad59	1.11628e-12	1.00000	1.11628e-12	1.00000
PhcycC3H3_A+H	6.83428e-13	1.00000	6.83428e-13	1.00000
rad43	1.69146e-13	1.00000	1.69146e-13	1.00000
rad14	1.58940e-13	1.00000	1.58940e-13	1.00000
rad27	1.42648e-13	1.00000	1.42648e-13	1.00000
rad62	3.00527e-14	1.00000	3.00527e-14	1.00000
rad50	1.19696e-14	1.00000	1.19696e-14	1.00000
rad33	9.52414e-15	1.00000	9.52414e-15	1.00000
rad5	8.78625e-15	1.00000	8.78625e-15	1.00000
rad54	7.80403e-15	1.00000	7.80403e-15	1.00000
rad25	6.93818e-15	1.00000	6.93818e-15	1.00000
Benzene+cycloprop-2-enylidene	3.61245e-15	1.00000	3.61245e-15	1.00000
rad18	6.24027e-16	1.00000	6.24027e-16	1.00000
Phenyl+cycC3H4	4.45921e-16	1.00000	0.00000	1.00000
rad70	4.42534e-16	1.00000	4.42534e-16	1.00000
PAH1+H	1.22168e-16	1.00000	1.22168e-16	1.00000
rad52	7.43749e-17	1.00000	7.43749e-17	1.00000
rad58	6.26266e-17	1.00000	6.26266e-17	1.00000
rad20	6.12290e-17	1.00000	6.12290e-17	1.00000
rad55	4.75193e-17	1.00000	4.75193e-17	1.00000
rad21	3.79563e-17	1.00000	3.79563e-17	1.00000
rad51	1.79579e-17	1.00000	1.79579e-17	1.00000
rad34	4.31878e-18	1.00000	4.31878e-18	1.00000
rad31	2.62362e-18	1.00000	2.62362e-18	1.00000
rad41	2.09600e-18	1.00000	2.09600e-18	1.00000
rad42	1.70395e-18	1.00000	1.70395e-18	1.00000
rad24	5.29869e-19	1.00000	5.29869e-19	1.00000
rad65	3.55931e-19	1.00000	3.55931e-19	1.00000
PhcycC3H3_B+H	1.66257e-20	1.00000	1.66257e-20	1.00000
rad47	6.26553e-25	1.00000	6.26553e-25	1.00000
rad53	6.23710e-25	1.00000	6.23710e-25	1.00000
rad64	1.07823e-26	1.00000	1.07823e-26	1.00000
Benzene+cycloprop-1-enylidene	1.09842e-27	1.00000	1.09842e-27	1.00000
rad61	1.45407e-30	1.00000	1.45407e-30	1.00000
rad56	9.38046e-33	1.00000	9.38046e-33	1.00000
rad68syn	2.21460e-34	1.00000	2.21460e-34	1.00000
rad68anti	1.82467e-34	1.00000	1.82467e-34	1.00000
rad19syn	1.80525e-38	1.00000	1.80525e-38	1.00000
rad73	6.73832e-41	1.00000	6.73832e-41	1.00000
rad40syn	2.09068e-41	1.00000	2.09068e-41	1.00000
rad40anti	1.46694e-41	1.00000	1.46694e-41	1.00000
PAH8+H	2.53561e-44	1.00000	2.53561e-44	1.00000
rad71	3.32540e-47	1.00000	3.32540e-47	1.00000
rad8	2.82574e-54	1.00000	2.82574e-54	1.00000

10.000000 Pa, 70.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.91520e-16 (1.00)	1.91520e-16 (1.00)
Formation of rad19	1.91520e-16 (1.000)	1.91520e-16 (1.000)
H-abstraction to cyc2enyl	1.01125e-28 (5.28e-13)	1.01125e-28 (5.28e-13)
H-abstraction to cyclenyl	1.97822e-39 (1.03e-23)	1.97822e-39 (1.03e-23)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998038	0.998038	0.998038	0.998038
rad9	0.00174001	0.999778	0.00174001	0.999778
PhCHCCH2+H	0.000203377	0.999981	0.000203377	0.999981
rad6	9.70279e-06	0.999991	9.70279e-06	0.999991
PhCCH+CH3	2.71936e-06	0.999994	2.71936e-06	0.999994

PhCCCH3+H	1.78056e-06	0.999996	1.78056e-06	0.999996
rad15	1.48295e-06	0.999997	1.48295e-06	0.999997
Ph+MeAc	1.26365e-06	0.999998	1.26365e-06	0.999998
C2H2+PhCH2	1.09164e-06	0.999999	1.09164e-06	0.999999
rad67	4.40031e-07	1.000000	4.40031e-07	1.000000
rad35	1.94952e-07	1.000000	1.94952e-07	1.000000
rad26	9.86175e-08	1.000000	9.86175e-08	1.000000
rad2	8.94735e-08	1.000000	8.94735e-08	1.000000
Ph+Allene	1.91511e-08	1.000000	1.91511e-08	1.000000
rad28	1.12755e-08	1.000000	1.12755e-08	1.000000
rad10	7.75199e-09	1.000000	7.75199e-09	1.000000
rad1	5.69517e-09	1.000000	5.69517e-09	1.000000
rad30	3.41755e-09	1.000000	3.41755e-09	1.000000
rad37	3.40006e-09	1.000000	3.40006e-09	1.000000
PhCH2CCH+H	2.84637e-09	1.000000	2.84637e-09	1.000000
rad7	2.54515e-09	1.000000	2.54515e-09	1.000000
rad23	1.19997e-09	1.000000	1.19997e-09	1.000000
rad11	9.38209e-10	1.000000	9.38209e-10	1.000000
rad3	9.05026e-10	1.000000	9.05026e-10	1.000000
PAH7+H	8.15640e-10	1.000000	8.15640e-10	1.000000
rad4	4.57860e-10	1.000000	4.57860e-10	1.000000
rad39	2.24627e-10	1.000000	2.24627e-10	1.000000
PAH9+H	8.81209e-11	1.000000	8.81209e-11	1.000000
rad45	5.72271e-11	1.000000	5.72271e-11	1.000000
rad38	4.09047e-11	1.000000	4.09047e-11	1.000000
rad60syn	1.48064e-11	1.000000	1.48064e-11	1.000000
rad12	8.44311e-12	1.000000	8.44311e-12	1.000000
rad13	7.88214e-12	1.000000	7.88214e-12	1.000000
rad60anti	7.23109e-12	1.000000	7.23109e-12	1.000000
PAH3+H	5.94599e-12	1.000000	5.94599e-12	1.000000
rad22	5.64250e-12	1.000000	5.64250e-12	1.000000
PAH10+CH3	3.54213e-12	1.000000	3.54213e-12	1.000000
rad36	3.50418e-12	1.000000	3.50418e-12	1.000000
rad46	2.16020e-12	1.000000	2.16020e-12	1.000000
rad19anti	1.71300e-12	1.000000	1.71300e-12	1.000000
rad59	1.23063e-12	1.000000	1.23063e-12	1.000000
PhcycC3H3_A+H	8.21534e-13	1.000000	8.21534e-13	1.000000
Benzene+cycloprop-2-enylidene	5.28015e-13	1.000000	5.28015e-13	1.000000
rad43	1.97570e-13	1.000000	1.97570e-13	1.000000
rad14	1.03845e-13	1.000000	1.03845e-13	1.000000
rad27	9.23757e-14	1.000000	9.23757e-14	1.000000
rad62	3.53044e-14	1.000000	3.53044e-14	1.000000
rad50	1.38670e-14	1.000000	1.38670e-14	1.000000
rad54	1.08161e-14	1.000000	1.08161e-14	1.000000
rad33	9.52206e-15	1.000000	9.52206e-15	1.000000
rad25	6.72446e-15	1.000000	6.72446e-15	1.000000
rad5	4.35490e-15	1.000000	4.35490e-15	1.000000
Phenyl+cycC3H4	7.87809e-16	1.000000	0.000000	1.000000
rad70	5.44836e-16	1.000000	5.44836e-16	1.000000
rad18	4.36812e-16	1.000000	4.36812e-16	1.000000
PAH1+H	1.66375e-16	1.000000	1.66375e-16	1.000000
rad52	8.79296e-17	1.000000	8.79296e-17	1.000000
rad58	7.41036e-17	1.000000	7.41036e-17	1.000000
rad55	6.80400e-17	1.000000	6.80400e-17	1.000000
rad20	4.45926e-17	1.000000	4.45926e-17	1.000000
rad21	2.76959e-17	1.000000	2.76959e-17	1.000000
rad51	2.17376e-17	1.000000	2.17376e-17	1.000000
rad34	5.55683e-18	1.000000	5.55683e-18	1.000000
rad41	2.89141e-18	1.000000	2.89141e-18	1.000000
rad42	2.28669e-18	1.000000	2.28669e-18	1.000000
rad31	1.78582e-18	1.000000	1.78582e-18	1.000000
rad24	4.43398e-19	1.000000	4.43398e-19	1.000000
rad65	4.36504e-19	1.000000	4.36504e-19	1.000000
PhcycC3H3_B+H	2.42746e-19	1.000000	2.42746e-19	1.000000
Benzene+cycloprop-1-enylidene	1.03290e-23	1.000000	1.03290e-23	1.000000
rad53	1.93311e-24	1.000000	1.93311e-24	1.000000
rad47	5.56322e-25	1.000000	5.56322e-25	1.000000
rad64	3.55783e-26	1.000000	3.55783e-26	1.000000
rad61	5.10059e-30	1.000000	5.10059e-30	1.000000
rad56	3.38325e-32	1.000000	3.38325e-32	1.000000
rad68syn	8.06341e-34	1.000000	8.06341e-34	1.000000
rad68anti	6.64227e-34	1.000000	6.64227e-34	1.000000
rad19syn	3.07679e-38	1.000000	3.07679e-38	1.000000
rad73	2.50177e-40	1.000000	2.50177e-40	1.000000
rad40syn	7.89500e-41	1.000000	7.89500e-41	1.000000
rad40anti	5.55719e-41	1.000000	5.55719e-41	1.000000
PAH8+H	9.32589e-44	1.000000	9.32589e-44	1.000000
rad71	1.22006e-46	1.000000	1.22006e-46	1.000000
rad8	2.01557e-54	1.000000	2.01557e-54	1.000000

10.0000000 Pa, 80.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.17084e-16 (1.00)	4.17084e-16 (1.00)
Formation of rad19	4.17084e-16 (1.000)	4.17084e-16 (1.000)
H-abstraction to cyc2enyl	8.98751e-27 (2.15e-11)	8.98751e-27 (2.15e-11)
H-abstraction to cyclenyl	4.00120e-36 (9.59e-21)	4.00120e-36 (9.59e-21)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998897	0.998897	0.998897	0.998897
rad9	0.000871455	0.999768	0.000871455	0.999768
PhCHCCH2+H	0.000212328	0.999981	0.000212328	0.999981
rad6	9.88985e-06	0.999991	9.88985e-06	0.999991
PhCCH+CH3	2.88270e-06	0.999994	2.88270e-06	0.999994
PhCCCH3+H	1.89281e-06	0.999995	1.89281e-06	0.999995
Ph+MeAc	1.35995e-06	0.999997	1.35995e-06	0.999997
C2H2+PhCH2	1.17929e-06	0.999998	1.17929e-06	0.999998
rad15	7.29338e-07	0.999999	7.29338e-07	0.999999
rad67	4.65360e-07	0.999999	4.65360e-07	0.999999
rad35	2.05785e-07	0.999999	2.05785e-07	0.999999
rad26	6.98950e-08	0.999999	6.98950e-08	0.999999
rad2	6.28406e-08	1.000000	6.28406e-08	1.000000
Ph+Allene	2.23347e-08	1.000000	2.23347e-08	1.000000
rad28	1.21382e-08	1.000000	1.21382e-08	1.000000
rad10	5.38166e-09	1.000000	5.38166e-09	1.000000
rad1	4.01048e-09	1.000000	4.01048e-09	1.000000
rad37	3.79255e-09	1.000000	3.79255e-09	1.000000
rad30	3.61348e-09	1.000000	3.61348e-09	1.000000
PhCH2CCH+H	3.28727e-09	1.000000	3.28727e-09	1.000000
rad7	2.52333e-09	1.000000	2.52333e-09	1.000000
PAH7+H	1.10350e-09	1.000000	1.10350e-09	1.000000
rad23	1.07739e-09	1.000000	1.07739e-09	1.000000
rad11	9.20886e-10	1.000000	9.20886e-10	1.000000
rad3	6.38973e-10	1.000000	6.38973e-10	1.000000
rad4	3.23458e-10	1.000000	3.23458e-10	1.000000
rad39	3.04938e-10	1.000000	3.04938e-10	1.000000
PAH9+H	9.72489e-11	1.000000	9.72489e-11	1.000000
rad45	4.96773e-11	1.000000	4.96773e-11	1.000000
rad38	4.57011e-11	1.000000	4.57011e-11	1.000000
Benzene+cycloprop-2-enylidene	2.15484e-11	1.000000	2.15484e-11	1.000000
rad60syn	1.59195e-11	1.000000	1.59195e-11	1.000000
rad13	7.78854e-12	1.000000	7.78854e-12	1.000000
rad60anti	7.78592e-12	1.000000	7.78592e-12	1.000000
PAH3+H	6.51897e-12	1.000000	6.51897e-12	1.000000
rad22	4.87172e-12	1.000000	4.87172e-12	1.000000
PAH10+CH3	4.24760e-12	1.000000	4.24760e-12	1.000000
rad12	4.24074e-12	1.000000	4.24074e-12	1.000000
rad36	3.04130e-12	1.000000	3.04130e-12	1.000000
rad46	2.40639e-12	1.000000	2.40639e-12	1.000000
rad59	1.34544e-12	1.000000	1.34544e-12	1.000000
PhcycC3H3_A+H	9.95869e-13	1.000000	9.95869e-13	1.000000
rad19anti	8.33580e-13	1.000000	8.33580e-13	1.000000
rad43	2.26731e-13	1.000000	2.26731e-13	1.000000
rad14	7.19793e-14	1.000000	7.19793e-14	1.000000
rad27	6.31283e-14	1.000000	6.31283e-14	1.000000
rad62	4.07296e-14	1.000000	4.07296e-14	1.000000
rad50	1.58732e-14	1.000000	1.58732e-14	1.000000
rad54	1.44762e-14	1.000000	1.44762e-14	1.000000
rad33	9.50962e-15	1.000000	9.50962e-15	1.000000
rad25	6.54169e-15	1.000000	6.54169e-15	1.000000
rad5	2.37781e-15	1.000000	2.37781e-15	1.000000
Phenyl+cycC3H4	1.32430e-15	1.000000	0.000000	1.000000
rad70	6.65557e-16	1.000000	6.65557e-16	1.000000
rad18	3.22535e-16	1.000000	3.22535e-16	1.000000
PAH1+H	2.20778e-16	1.000000	2.20778e-16	1.000000
rad52	1.02690e-16	1.000000	1.02690e-16	1.000000
rad55	9.42113e-17	1.000000	9.42113e-17	1.000000
rad58	8.70576e-17	1.000000	8.70576e-17	1.000000
rad20	3.43996e-17	1.000000	3.43996e-17	1.000000
rad51	2.59971e-17	1.000000	2.59971e-17	1.000000
rad21	2.14041e-17	1.000000	2.14041e-17	1.000000
rad34	7.10875e-18	1.000000	7.10875e-18	1.000000
rad41	3.91369e-18	1.000000	3.91369e-18	1.000000
rad42	3.01212e-18	1.000000	3.01212e-18	1.000000
PhcycC3H3_B+H	1.96821e-18	1.000000	1.96821e-18	1.000000
rad31	1.27869e-18	1.000000	1.27869e-18	1.000000
rad65	5.28697e-19	1.000000	5.28697e-19	1.000000
rad24	3.85456e-19	1.000000	3.85456e-19	1.000000

Benzene+cycloprop-1-enylidene	9.59328e-21	1.000000	9.59328e-21	1.000000
rad53	6.63132e-24	1.000000	6.63132e-24	1.000000
rad47	5.08501e-25	1.000000	5.08501e-25	1.000000
rad64	1.38474e-25	1.000000	1.38474e-25	1.000000
rad61	3.83300e-29	1.000000	3.83300e-29	1.000000
rad56	1.75351e-31	1.000000	1.75351e-31	1.000000
rad68syn	4.33639e-33	1.000000	4.33639e-33	1.000000
rad68anti	3.57155e-33	1.000000	3.57155e-33	1.000000
rad19syn	5.56556e-38	1.000000	5.56556e-38	1.000000
rad73	1.38035e-39	1.000000	1.38035e-39	1.000000
rad40syn	5.05846e-40	1.000000	5.05846e-40	1.000000
rad40anti	3.63823e-40	1.000000	3.63823e-40	1.000000
PAH8+H	5.21213e-43	1.000000	5.21213e-43	1.000000
rad71	6.71607e-46	1.000000	6.71607e-46	1.000000
rad8	1.62020e-54	1.000000	1.62020e-54	1.000000

10.0000000 Pa, 90.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.74016e-16 (1.00)	7.74016e-16 (1.00)
Formation of rad19	7.74016e-16 (1.000)	7.74016e-16 (1.000)
H-abstraction to cyc2enyl	2.91736e-25 (3.77e-10)	2.91736e-25 (3.77e-10)
H-abstraction to cyclenyl	1.47814e-33 (1.91e-18)	1.47814e-33 (1.91e-18)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999299	0.999299	0.999299	0.999299
rad9	0.000460986	0.999760	0.000460986	0.999760
PhCHCCH2+H	0.000220798	0.999981	0.000220798	0.999981
rad6	1.00313e-05	0.999991	1.00313e-05	0.999991
PhCCH+CH3	3.03478e-06	0.999994	3.03478e-06	0.999994
PhCCCH3+H	1.99741e-06	0.999996	1.99741e-06	0.999996
Ph+MeAc	1.45153e-06	0.999997	1.45153e-06	0.999997
C2H2+PhCH2	1.26844e-06	0.999999	1.26844e-06	0.999999
rad67	4.89974e-07	0.999999	4.89974e-07	0.999999
rad15	3.79932e-07	0.999999	3.79932e-07	0.999999
rad35	2.16274e-07	1.000000	2.16274e-07	1.000000
rad26	5.01174e-08	1.000000	5.01174e-08	1.000000
rad2	4.60970e-08	1.000000	4.60970e-08	1.000000
Ph+Allene	2.58253e-08	1.000000	2.58253e-08	1.000000
rad28	1.28125e-08	1.000000	1.28125e-08	1.000000
rad37	4.16691e-09	1.000000	4.16691e-09	1.000000
rad10	3.90775e-09	1.000000	3.90775e-09	1.000000
rad30	3.80445e-09	1.000000	3.80445e-09	1.000000
PhCH2CCH+H	3.77211e-09	1.000000	3.77211e-09	1.000000
rad1	2.95052e-09	1.000000	2.95052e-09	1.000000
rad7	2.50022e-09	1.000000	2.50022e-09	1.000000
PAH7+H	1.43687e-09	1.000000	1.43687e-09	1.000000
rad23	9.83389e-10	1.000000	9.83389e-10	1.000000
rad11	9.04772e-10	1.000000	9.04772e-10	1.000000
rad3	4.73795e-10	1.000000	4.73795e-10	1.000000
rad39	3.98095e-10	1.000000	3.98095e-10	1.000000
Benzene+cycloprop-2-enylidene	3.76912e-10	1.000000	3.76912e-10	1.000000
rad4	2.40008e-10	1.000000	2.40008e-10	1.000000
PAH9+H	1.06689e-10	1.000000	1.06689e-10	1.000000
rad38	5.06547e-11	1.000000	5.06547e-11	1.000000
rad45	4.40708e-11	1.000000	4.40708e-11	1.000000
rad60syn	1.70393e-11	1.000000	1.70393e-11	1.000000
rad60anti	8.34557e-12	1.000000	8.34557e-12	1.000000
rad13	7.69898e-12	1.000000	7.69898e-12	1.000000
PAH3+H	7.11550e-12	1.000000	7.11550e-12	1.000000
PAH10+CH3	5.00861e-12	1.000000	5.00861e-12	1.000000
rad22	4.28214e-12	1.000000	4.28214e-12	1.000000
rad36	2.69794e-12	1.000000	2.69794e-12	1.000000
rad46	2.66435e-12	1.000000	2.66435e-12	1.000000
rad12	2.25198e-12	1.000000	2.25198e-12	1.000000
rad59	1.46437e-12	1.000000	1.46437e-12	1.000000
PhcycC3H3_A+H	1.21608e-12	1.000000	1.21608e-12	1.000000
rad19anti	4.31187e-13	1.000000	4.31187e-13	1.000000
rad43	2.57504e-13	1.000000	2.57504e-13	1.000000
rad14	5.26019e-14	1.000000	5.26019e-14	1.000000
rad62	4.64895e-14	1.000000	4.64895e-14	1.000000
rad27	4.52727e-14	1.000000	4.52727e-14	1.000000
rad54	1.89415e-14	1.000000	1.89415e-14	1.000000
rad50	1.80553e-14	1.000000	1.80553e-14	1.000000
rad33	9.49519e-15	1.000000	9.49519e-15	1.000000
rad25	6.38465e-15	1.000000	6.38465e-15	1.000000
Phenyl+cycC3H4	2.14284e-15	1.000000	0.00000	1.000000
rad5	1.40281e-15	1.000000	1.40281e-15	1.000000

rad70	8.10598e-16	1.000000	8.10598e-16	1.000000
PAH1+H	2.88581e-16	1.000000	2.88581e-16	1.000000
rad18	2.48079e-16	1.000000	2.48079e-16	1.000000
rad55	1.27729e-16	1.000000	1.27729e-16	1.000000
rad52	1.19199e-16	1.000000	1.19199e-16	1.000000
rad58	1.01997e-16	1.000000	1.01997e-16	1.000000
rad51	3.09200e-17	1.000000	3.09200e-17	1.000000
rad20	2.76945e-17	1.000000	2.76945e-17	1.000000
rad21	1.72616e-17	1.000000	1.72616e-17	1.000000
PhcycC3H3_B+H	1.03978e-17	1.000000	1.03978e-17	1.000000
rad34	9.08730e-18	1.000000	9.08730e-18	1.000000
rad41	5.23746e-18	1.000000	5.23746e-18	1.000000
rad42	3.92537e-18	1.000000	3.92537e-18	1.000000
Benzene+cycloprop-1-enylidene	1.90970e-18	1.000000	1.90970e-18	1.000000
rad31	9.59406e-19	1.000000	9.59406e-19	1.000000
rad65	6.36799e-19	1.000000	6.36799e-19	1.000000
rad24	3.42828e-19	1.000000	3.42828e-19	1.000000
rad53	2.29255e-23	1.000000	2.29255e-23	1.000000
rad64	6.01158e-25	1.000000	6.01158e-25	1.000000
rad47	4.75960e-25	1.000000	4.75960e-25	1.000000
rad61	5.95031e-28	1.000000	5.95031e-28	1.000000
rad56	1.62291e-30	1.000000	1.62291e-30	1.000000
rad68syn	4.84264e-32	1.000000	4.84264e-32	1.000000
rad68anti	3.98318e-32	1.000000	3.98318e-32	1.000000
rad19syn	1.05536e-37	1.000000	1.05536e-37	1.000000
rad73	1.72440e-38	1.000000	1.72440e-38	1.000000
rad40syn	1.14596e-38	1.000000	1.14596e-38	1.000000
rad40anti	8.75416e-39	1.000000	8.75416e-39	1.000000
PAH8+H	6.86254e-42	1.000000	6.86254e-42	1.000000
rad71	7.93506e-45	1.000000	7.93506e-45	1.000000
rad8	1.43491e-54	1.000000	1.43491e-54	1.000000

10.0000000 Pa, 100.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.28255e-15 (1.00)	1.28255e-15 (1.00)
Formation of rad19	1.28255e-15 (1.000)	1.28255e-15 (1.000)
H-abstraction to cyc2enyl	4.68359e-24 (3.65e-09)	4.68359e-24 (3.65e-09)
H-abstraction to cyclenyl	1.66242e-31 (1.30e-16)	1.66242e-31 (1.30e-16)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999496	0.999496	0.999496	0.999496
rad9	0.000255404	0.999751	0.000255404	0.999751
PhCHCCH2+H	0.000229075	0.999980	0.000229075	0.999980
rad6	1.01411e-05	0.999991	1.01411e-05	0.999991
PhCCH+CH3	3.18193e-06	0.999994	3.18193e-06	0.999994
PhCCCH3+H	2.09859e-06	0.999996	2.09859e-06	0.999996
Ph+MeAc	1.54159e-06	0.999997	1.54159e-06	0.999997
C2H2+PhCH2	1.36101e-06	0.999999	1.36101e-06	0.999999
rad67	5.14584e-07	0.999999	5.14584e-07	0.999999
rad35	2.26728e-07	1.000000	2.26728e-07	1.000000
rad15	2.07730e-07	1.000000	2.07730e-07	1.000000
rad26	3.63754e-08	1.000000	3.63754e-08	1.000000
rad2	3.52315e-08	1.000000	3.52315e-08	1.000000
Ph+Allene	2.96962e-08	1.000000	2.96962e-08	1.000000
rad28	1.33393e-08	1.000000	1.33393e-08	1.000000
rad37	4.53461e-09	1.000000	4.53461e-09	1.000000
PhCH2CCH+H	4.31266e-09	1.000000	4.31266e-09	1.000000
rad30	3.99597e-09	1.000000	3.99597e-09	1.000000
Benzene+cycloprop-2-enylidene	3.65179e-09	1.000000	3.65179e-09	1.000000
rad10	2.95966e-09	1.000000	2.95966e-09	1.000000
rad7	2.47705e-09	1.000000	2.47705e-09	1.000000
rad1	2.26233e-09	1.000000	2.26233e-09	1.000000
PAH7+H	1.82056e-09	1.000000	1.82056e-09	1.000000
rad23	9.07449e-10	1.000000	9.07449e-10	1.000000
rad11	8.89895e-10	1.000000	8.89895e-10	1.000000
rad39	5.05462e-10	1.000000	5.05462e-10	1.000000
rad3	3.67590e-10	1.000000	3.67590e-10	1.000000
rad4	1.86354e-10	1.000000	1.86354e-10	1.000000
PAH9+H	1.16667e-10	1.000000	1.16667e-10	1.000000
rad38	5.58835e-11	1.000000	5.58835e-11	1.000000
rad45	3.96827e-11	1.000000	3.96827e-11	1.000000
rad60syn	1.81946e-11	1.000000	1.81946e-11	1.000000
rad60anti	8.92428e-12	1.000000	8.92428e-12	1.000000
PAH3+H	7.75053e-12	1.000000	7.75053e-12	1.000000
rad13	7.61501e-12	1.000000	7.61501e-12	1.000000
PAH10+CH3	5.84465e-12	1.000000	5.84465e-12	1.000000
rad22	3.81574e-12	1.000000	3.81574e-12	1.000000

rad46	2.94058e-12	1.000000	2.94058e-12	1.000000
rad36	2.42960e-12	1.000000	2.42960e-12	1.000000
rad59	1.59039e-12	1.000000	1.59039e-12	1.000000
PhcycC3H3_A+H	1.49520e-12	1.000000	1.49520e-12	1.000000
rad12	1.25351e-12	1.000000	1.25351e-12	1.000000
rad43	2.90697e-13	1.000000	2.90697e-13	1.000000
rad19anti	2.34746e-13	1.000000	2.34746e-13	1.000000
rad62	5.27361e-14	1.000000	5.27361e-14	1.000000
rad14	4.03376e-14	1.000000	4.03376e-14	1.000000
rad27	3.39474e-14	1.000000	3.39474e-14	1.000000
rad54	2.44218e-14	1.000000	2.44218e-14	1.000000
rad50	2.04795e-14	1.000000	2.04795e-14	1.000000
rad33	9.48172e-15	1.000000	9.48172e-15	1.000000
rad25	6.24826e-15	1.000000	6.24826e-15	1.000000
Phenyl+cycC3H4	3.36905e-15	1.000000	0.00000	1.000000
rad70	9.87474e-16	1.000000	9.87474e-16	1.000000
rad5	8.83484e-16	1.000000	8.83484e-16	1.000000
PAH1+H	3.74122e-16	1.000000	3.74122e-16	1.000000
rad18	1.97053e-16	1.000000	1.97053e-16	1.000000
rad55	1.70929e-16	1.000000	1.70929e-16	1.000000
rad52	1.38051e-16	1.000000	1.38051e-16	1.000000
Benzene+cycloprop-1-enylidene	1.29619e-16	1.000000	1.29619e-16	1.000000
rad58	1.19515e-16	1.000000	1.19515e-16	1.000000
PhcycC3H3_B+H	4.08526e-17	1.000000	4.08526e-17	1.000000
rad51	3.67247e-17	1.000000	3.67247e-17	1.000000
rad20	2.30419e-17	1.000000	2.30419e-17	1.000000
rad21	1.43848e-17	1.000000	1.43848e-17	1.000000
rad34	1.16475e-17	1.000000	1.16475e-17	1.000000
rad41	6.96470e-18	1.000000	6.96470e-18	1.000000
rad42	5.08628e-18	1.000000	5.08628e-18	1.000000
rad65	7.66070e-19	1.000000	7.66070e-19	1.000000
rad31	7.52338e-19	1.000000	7.52338e-19	1.000000
rad24	3.09740e-19	1.000000	3.09740e-19	1.000000
rad53	7.41713e-23	1.000000	7.41713e-23	1.000000
rad64	2.59861e-24	1.000000	2.59861e-24	1.000000
rad47	4.54454e-25	1.000000	4.54454e-25	1.000000
rad61	9.26334e-27	1.000000	9.26334e-27	1.000000
rad56	2.33461e-29	1.000000	2.33461e-29	1.000000
rad68syn	9.97519e-31	1.000000	9.97519e-31	1.000000
rad68anti	8.15991e-31	1.000000	8.15991e-31	1.000000
rad40syn	2.69875e-36	1.000000	2.69875e-36	1.000000
rad40anti	2.08123e-36	1.000000	2.08123e-36	1.000000
rad73	8.02561e-37	1.000000	8.02561e-37	1.000000
rad19syn	2.08918e-37	1.000000	2.08918e-37	1.000000
PAH8+H	4.24544e-40	1.000000	4.24544e-40	1.000000
rad71	3.22428e-43	1.000000	3.22428e-43	1.000000
rad8	1.38042e-54	1.000000	1.38042e-54	1.000000

10.000000 Pa, 110.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.95524e-15 (1.00)	1.95524e-15 (1.00)
Formation of rad19	1.95524e-15 (1.00)	1.95524e-15 (1.00)
H-abstraction to cyc2enyl	4.50936e-23 (2.31e-08)	4.50936e-23 (2.31e-08)
H-abstraction to cyclenyl	7.87782e-30 (4.03e-15)	7.87782e-30 (4.03e-15)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999596	0.999596	0.999596	0.999596
PhCHCCH2+H	0.000237358	0.999833	0.000237358	0.999833
rad9	0.000147247	0.999981	0.000147247	0.999981
rad6	1.02272e-05	0.999991	1.02272e-05	0.999991
PhCCH+CH3	3.32847e-06	0.999994	3.32847e-06	0.999994
PhCCCH3+H	2.19924e-06	0.999996	2.19924e-06	0.999996
Ph+MeAc	1.63241e-06	0.999998	1.63241e-06	0.999998
C2H2+PhCH2	1.45864e-06	0.999999	1.45864e-06	0.999999
rad67	5.39712e-07	1.000000	5.39712e-07	1.000000
rad35	2.37372e-07	1.000000	2.37372e-07	1.000000
rad15	1.18381e-07	1.000000	1.18381e-07	1.000000
Ph+Allene	3.40303e-08	1.000000	3.40303e-08	1.000000
rad2	2.79968e-08	1.000000	2.79968e-08	1.000000
rad26	2.67297e-08	1.000000	2.67297e-08	1.000000
Benzene+cycloprop-2-enylidene	2.30629e-08	1.000000	2.30629e-08	1.000000
rad28	1.37492e-08	1.000000	1.37492e-08	1.000000
PhCH2CCH+H	4.92220e-09	1.000000	4.92220e-09	1.000000
rad37	4.90481e-09	1.000000	4.90481e-09	1.000000
rad30	4.19211e-09	1.000000	4.19211e-09	1.000000
rad7	2.45423e-09	1.000000	2.45423e-09	1.000000
rad10	2.33275e-09	1.000000	2.33275e-09	1.000000

PAH7+H	2.26119e-09	1.00000	2.26119e-09	1.00000
rad1	1.80412e-09	1.00000	1.80412e-09	1.00000
rad11	8.76107e-10	1.00000	8.76107e-10	1.00000
rad23	8.44099e-10	1.00000	8.44099e-10	1.00000
rad39	6.28902e-10	1.00000	6.28902e-10	1.00000
rad3	2.97312e-10	1.00000	2.97312e-10	1.00000
rad4	1.50857e-10	1.00000	1.50857e-10	1.00000
PAH9+H	1.27392e-10	1.00000	1.27392e-10	1.00000
rad38	6.14988e-11	1.00000	6.14988e-11	1.00000
rad45	3.61295e-11	1.00000	3.61295e-11	1.00000
rad60syn	1.94091e-11	1.00000	1.94091e-11	1.00000
rad60anti	9.53399e-12	1.00000	9.53399e-12	1.00000
PAH3+H	8.43822e-12	1.00000	8.43822e-12	1.00000
rad13	7.53635e-12	1.00000	7.53635e-12	1.00000
PAH10+CH3	6.77802e-12	1.00000	6.77802e-12	1.00000
rad22	3.43724e-12	1.00000	3.43724e-12	1.00000
rad46	3.24137e-12	1.00000	3.24137e-12	1.00000
rad36	2.21272e-12	1.00000	2.21272e-12	1.00000
PhcycC3H3_A+H	1.85090e-12	1.00000	1.85090e-12	1.00000
rad59	1.72623e-12	1.00000	1.72623e-12	1.00000
rad12	7.26550e-13	1.00000	7.26550e-13	1.00000
rad43	3.27134e-13	1.00000	3.27134e-13	1.00000
rad19anti	1.33505e-13	1.00000	1.33505e-13	1.00000
rad62	5.96279e-14	1.00000	5.96279e-14	1.00000
rad14	3.23160e-14	1.00000	3.23160e-14	1.00000
rad54	3.11966e-14	1.00000	3.11966e-14	1.00000
rad27	2.65384e-14	1.00000	2.65384e-14	1.00000
rad50	2.32193e-14	1.00000	2.32193e-14	1.00000
rad33	9.46978e-15	1.00000	9.46978e-15	1.00000
rad25	6.12815e-15	1.00000	6.12815e-15	1.00000
Phenyl+cycC3H4	5.18630e-15	1.00000	0.00000	1.00000
Benzene+cycloprop-1-enylidene	4.02908e-15	1.00000	4.02908e-15	1.00000
rad70	1.20613e-15	1.00000	1.20613e-15	1.00000
rad5	5.89236e-16	1.00000	5.89236e-16	1.00000
PAH1+H	4.83359e-16	1.00000	4.83359e-16	1.00000
rad55	2.27052e-16	1.00000	2.27052e-16	1.00000
rad18	1.60644e-16	1.00000	1.60644e-16	1.00000
rad52	1.59949e-16	1.00000	1.59949e-16	1.00000
rad58	1.40350e-16	1.00000	1.40350e-16	1.00000
PhcycC3H3_B+H	1.30160e-16	1.00000	1.30160e-16	1.00000
rad51	4.36877e-17	1.00000	4.36877e-17	1.00000
rad20	1.96770e-17	1.00000	1.96770e-17	1.00000
rad34	1.50078e-17	1.00000	1.50078e-17	1.00000
rad21	1.23026e-17	1.00000	1.23026e-17	1.00000
rad41	9.23652e-18	1.00000	9.23652e-18	1.00000
rad42	6.57560e-18	1.00000	6.57560e-18	1.00000
rad65	9.23321e-19	1.00000	9.23321e-19	1.00000
rad31	6.15199e-19	1.00000	6.15199e-19	1.00000
rad24	2.83152e-19	1.00000	2.83152e-19	1.00000
rad53	2.19191e-22	1.00000	2.19191e-22	1.00000
rad64	1.03594e-23	1.00000	1.03594e-23	1.00000
rad47	4.41383e-25	1.00000	4.41383e-25	1.00000
rad61	1.04717e-25	1.00000	1.04717e-25	1.00000
rad56	3.27635e-28	1.00000	3.27635e-28	1.00000
rad68syn	1.91793e-29	1.00000	1.91793e-29	1.00000
rad68anti	1.55857e-29	1.00000	1.55857e-29	1.00000
rad40syn	3.30917e-34	1.00000	3.30917e-34	1.00000
rad40anti	2.60936e-34	1.00000	2.60936e-34	1.00000
rad73	3.96264e-35	1.00000	3.96264e-35	1.00000
rad19syn	4.31585e-37	1.00000	4.31585e-37	1.00000
PAH8+H	7.29875e-38	1.00000	7.29875e-38	1.00000
rad71	3.38961e-41	1.00000	3.38961e-41	1.00000
rad8	1.42859e-54	1.00000	1.42859e-54	1.00000

10.000000 Pa, 120.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.79817e-15 (1.00)	2.79817e-15 (1.00)
Formation of rad19	2.79817e-15 (1.00)	2.79817e-15 (1.00)
H-abstraction to cyc2enyl	2.96039e-22 (1.06e-07)	2.96039e-22 (1.06e-07)
H-abstraction to cyclenyl	1.95323e-28 (6.98e-14)	1.95323e-28 (6.98e-14)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999646	0.999646	0.999646	0.999646
PhCHCCH2+H	0.000245795	0.999892	0.000245795	0.999892
rad9	8.78868e-05	0.999980	8.78868e-05	0.999980
rad6	1.02941e-05	0.999990	1.02941e-05	0.999990
PhCCH+CH3	3.47755e-06	0.999993	3.47755e-06	0.999993

PhCCCH3+H	2.30151e-06	0.999996	2.30151e-06	0.999996
Ph+MeAc	1.72582e-06	0.999997	1.72582e-06	0.999997
C2H2+PhCH2	1.56287e-06	0.999999	1.56287e-06	0.999999
rad67	5.65785e-07	1.000000	5.65785e-07	1.000000
rad35	2.48388e-07	1.000000	2.48388e-07	1.000000
Benzene+cycloprop-2-enylidene	1.05797e-07	1.000000	1.05797e-07	1.000000
rad15	6.99336e-08	1.000000	6.99336e-08	1.000000
Ph+Allene	3.89257e-08	1.000000	3.89257e-08	1.000000
rad2	2.30756e-08	1.000000	2.30756e-08	1.000000
rad26	1.98896e-08	1.000000	1.98896e-08	1.000000
rad28	1.40648e-08	1.000000	1.40648e-08	1.000000
PhCH2CCH+H	5.61653e-09	1.000000	5.61653e-09	1.000000
rad37	5.28536e-09	1.000000	5.28536e-09	1.000000
rad30	4.39625e-09	1.000000	4.39625e-09	1.000000
PAH7+H	2.76737e-09	1.000000	2.76737e-09	1.000000
rad7	2.43174e-09	1.000000	2.43174e-09	1.000000
rad10	1.90856e-09	1.000000	1.90856e-09	1.000000
rad1	1.49275e-09	1.000000	1.49275e-09	1.000000
rad11	8.63201e-10	1.000000	8.63201e-10	1.000000
rad23	7.90051e-10	1.000000	7.90051e-10	1.000000
rad39	7.70844e-10	1.000000	7.70844e-10	1.000000
rad3	2.49663e-10	1.000000	2.49663e-10	1.000000
PAH9+H	1.39075e-10	1.000000	1.39075e-10	1.000000
rad4	1.26803e-10	1.000000	1.26803e-10	1.000000
rad38	6.76158e-11	1.000000	6.76158e-11	1.000000
rad45	3.31804e-11	1.000000	3.31804e-11	1.000000
rad60syn	2.07049e-11	1.000000	2.07049e-11	1.000000
rad60anti	1.01859e-11	1.000000	1.01859e-11	1.000000
PAH3+H	9.19338e-12	1.000000	9.19338e-12	1.000000
PAH10+CH3	7.83525e-12	1.000000	7.83525e-12	1.000000
rad13	7.46196e-12	1.000000	7.46196e-12	1.000000
rad46	3.57346e-12	1.000000	3.57346e-12	1.000000
rad22	3.12363e-12	1.000000	3.12363e-12	1.000000
PhcycC3H3_A+H	2.30724e-12	1.000000	2.30724e-12	1.000000
rad36	2.03311e-12	1.000000	2.03311e-12	1.000000
rad59	1.87473e-12	1.000000	1.87473e-12	1.000000
rad12	4.36237e-13	1.000000	4.36237e-13	1.000000
rad43	3.67727e-13	1.000000	3.67727e-13	1.000000
rad19anti	7.88599e-14	1.000000	7.88599e-14	1.000000
Benzene+cycloprop-1-enylidene	6.98038e-14	1.000000	6.98038e-14	1.000000
rad62	6.73426e-14	1.000000	6.73426e-14	1.000000
rad54	3.96411e-14	1.000000	3.96411e-14	1.000000
rad14	2.69212e-14	1.000000	2.69212e-14	1.000000
rad50	2.63616e-14	1.000000	2.63616e-14	1.000000
rad27	2.15650e-14	1.000000	2.15650e-14	1.000000
rad33	9.45889e-15	1.000000	9.45889e-15	1.000000
Phenyl+cycC3H4	7.86468e-15	1.000000	0.000000	1.000000
rad25	6.02067e-15	1.000000	6.02067e-15	1.000000
rad70	1.47999e-15	1.000000	1.47999e-15	1.000000
PAH1+H	6.24563e-16	1.000000	6.24563e-16	1.000000
rad5	4.13714e-16	1.000000	4.13714e-16	1.000000
PhcycC3H3_B+H	3.56090e-16	1.000000	3.56090e-16	1.000000
rad55	3.00633e-16	1.000000	3.00633e-16	1.000000
rad52	1.85777e-16	1.000000	1.85777e-16	1.000000
rad58	1.65453e-16	1.000000	1.65453e-16	1.000000
rad18	1.33793e-16	1.000000	1.33793e-16	1.000000
rad51	5.21738e-17	1.000000	5.21738e-17	1.000000
rad34	1.94815e-17	1.000000	1.94815e-17	1.000000
rad20	1.71620e-17	1.000000	1.71620e-17	1.000000
rad41	1.22496e-17	1.000000	1.22496e-17	1.000000
rad21	1.07455e-17	1.000000	1.07455e-17	1.000000
rad42	8.50345e-18	1.000000	8.50345e-18	1.000000
rad65	1.11768e-18	1.000000	1.11768e-18	1.000000
rad31	5.23232e-19	1.000000	5.23232e-19	1.000000
rad24	2.61245e-19	1.000000	2.61245e-19	1.000000
rad53	5.94245e-22	1.000000	5.94245e-22	1.000000
rad64	3.71784e-23	1.000000	3.71784e-23	1.000000
rad61	8.52256e-25	1.000000	8.52256e-25	1.000000
rad47	4.35146e-25	1.000000	4.35146e-25	1.000000
rad56	3.59573e-27	1.000000	3.59573e-27	1.000000
rad68syn	2.64568e-28	1.000000	2.64568e-28	1.000000
rad68anti	2.13720e-28	1.000000	2.13720e-28	1.000000
rad40syn	1.58686e-32	1.000000	1.58686e-32	1.000000
rad40anti	1.25634e-32	1.000000	1.25634e-32	1.000000
rad73	1.24216e-33	1.000000	1.24216e-33	1.000000
PAH8+H	3.96166e-35	1.000000	3.96166e-35	1.000000
rad19syn	9.31505e-37	1.000000	9.31505e-37	1.000000
rad71	1.13958e-38	1.000000	1.13958e-38	1.000000
rad8	1.57848e-54	1.000000	1.57848e-54	1.000000

10.0000000 Pa, 130.000000 K

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Rate constant      | True (fraction)      Effective (fraction)
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Total              | 3.81236e-15 (1.00   ) 3.81236e-15 (1.00   )
Formation of rad19| 3.81236e-15 (1.000  ) 3.81236e-15 (1.000  )
H-abstraction to cyc2enyl| 1.44825e-21 (3.80e-07) 1.44825e-21 (3.80e-07)
H-abstraction to cyclenyl| 2.94348e-27 (7.72e-13) 2.94348e-27 (7.72e-13)
  
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species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999671	0.999671	0.999671	0.999671
PhCHCCH2+H	0.000254511	0.999925	0.000254511	0.999925
rad9	5.40837e-05	0.999979	5.40837e-05	0.999979
rad6	1.03444e-05	0.999990	1.03444e-05	0.999990
PhCCH+CH3	3.63177e-06	0.999993	3.63177e-06	0.999993
PhCCCH3+H	2.40717e-06	0.999996	2.40717e-06	0.999996
Ph+MeAc	1.82342e-06	0.999997	1.82342e-06	0.999997
C2H2+PhCH2	1.67525e-06	0.999999	1.67525e-06	0.999999
rad67	5.93188e-07	1.000000	5.93188e-07	1.000000
Benzene+cycloprop-2-enylidene	3.79882e-07	1.000000	3.79882e-07	1.000000
rad35	2.59937e-07	1.000000	2.59937e-07	1.000000
Ph+Allene	4.45005e-08	1.000000	4.45005e-08	1.000000
rad15	4.26400e-08	1.000000	4.26400e-08	1.000000
rad2	1.96666e-08	1.000000	1.96666e-08	1.000000
rad26	1.49911e-08	1.000000	1.49911e-08	1.000000
rad28	1.43030e-08	1.000000	1.43030e-08	1.000000
PhCH2CCH+H	6.41487e-09	1.000000	6.41487e-09	1.000000
rad37	5.68343e-09	1.000000	5.68343e-09	1.000000
rad30	4.61148e-09	1.000000	4.61148e-09	1.000000
PAH7+H	3.35005e-09	1.000000	3.35005e-09	1.000000
rad7	2.40934e-09	1.000000	2.40934e-09	1.000000
rad10	1.61581e-09	1.000000	1.61581e-09	1.000000
rad1	1.27759e-09	1.000000	1.27759e-09	1.000000
rad39	9.34371e-10	1.000000	9.34371e-10	1.000000
rad11	8.50949e-10	1.000000	8.50949e-10	1.000000
rad23	7.43117e-10	1.000000	7.43117e-10	1.000000
rad3	2.16660e-10	1.000000	2.16660e-10	1.000000
PAH9+H	1.51947e-10	1.000000	1.51947e-10	1.000000
rad4	1.10159e-10	1.000000	1.10159e-10	1.000000
rad38	7.43617e-11	1.000000	7.43617e-11	1.000000
rad45	3.06846e-11	1.000000	3.06846e-11	1.000000
rad60syn	2.21045e-11	1.000000	2.21045e-11	1.000000
rad60anti	1.08915e-11	1.000000	1.08915e-11	1.000000
PAH3+H	1.00326e-11	1.000000	1.00326e-11	1.000000
PAH10+CH3	9.04866e-12	1.000000	9.04866e-12	1.000000
rad13	7.39047e-12	1.000000	7.39047e-12	1.000000
rad46	3.94449e-12	1.000000	3.94449e-12	1.000000
PhcycC3H3_A+H	2.89700e-12	1.000000	2.89700e-12	1.000000
rad22	2.85920e-12	1.000000	2.85920e-12	1.000000
rad59	2.03902e-12	1.000000	2.03902e-12	1.000000
rad36	1.88151e-12	1.000000	1.88151e-12	1.000000
Benzene+cycloprop-1-enylidene	7.72089e-13	1.000000	7.72089e-13	1.000000
rad43	4.13531e-13	1.000000	4.13531e-13	1.000000
rad12	2.70204e-13	1.000000	2.70204e-13	1.000000
rad62	7.60884e-14	1.000000	7.60884e-14	1.000000
rad54	5.02609e-14	1.000000	5.02609e-14	1.000000
rad19anti	4.81608e-14	1.000000	4.81608e-14	1.000000
rad50	3.00138e-14	1.000000	3.00138e-14	1.000000
rad14	2.32027e-14	1.000000	2.32027e-14	1.000000
rad27	1.81518e-14	1.000000	1.81518e-14	1.000000
Phenyl+cycC3H4	1.18041e-14	1.000000	0.000000	1.000000
rad33	9.44797e-15	1.000000	9.44797e-15	1.000000
rad25	5.92275e-15	1.000000	5.92275e-15	1.000000
rad70	1.82746e-15	1.000000	1.82746e-15	1.000000
PhcycC3H3_B+H	8.69675e-16	1.000000	8.69675e-16	1.000000
PAH1+H	8.09326e-16	1.000000	8.09326e-16	1.000000
rad55	3.98065e-16	1.000000	3.98065e-16	1.000000
rad5	3.04258e-16	1.000000	3.04258e-16	1.000000
rad52	2.16673e-16	1.000000	2.16673e-16	1.000000
rad58	1.96068e-16	1.000000	1.96068e-16	1.000000
rad18	1.13436e-16	1.000000	1.13436e-16	1.000000
rad51	6.26732e-17	1.000000	6.26732e-17	1.000000
rad34	2.55225e-17	1.000000	2.55225e-17	1.000000
rad41	1.62791e-17	1.000000	1.62791e-17	1.000000
rad20	1.52314e-17	1.000000	1.52314e-17	1.000000
rad42	1.10208e-17	1.000000	1.10208e-17	1.000000
rad21	9.54957e-18	1.000000	9.54957e-18	1.000000
rad65	1.36158e-18	1.000000	1.36158e-18	1.000000
rad31	4.61382e-19	1.000000	4.61382e-19	1.000000

rad24	2.42838e-19	1.00000	2.42838e-19	1.00000
rad53	1.49789e-21	1.00000	1.49789e-21	1.00000
rad64	1.20509e-22	1.00000	1.20509e-22	1.00000
rad61	5.26501e-24	1.00000	5.26501e-24	1.00000
rad47	4.34786e-25	1.00000	4.34786e-25	1.00000
rad56	3.01148e-26	1.00000	3.01148e-26	1.00000
rad68syn	2.61656e-27	1.00000	2.61656e-27	1.00000
rad68anti	2.10233e-27	1.00000	2.10233e-27	1.00000
rad40syn	4.17435e-31	1.00000	4.17435e-31	1.00000
rad40anti	3.31930e-31	1.00000	3.31930e-31	1.00000
rad73	2.48138e-32	1.00000	2.48138e-32	1.00000
PAH8+H	2.06743e-33	1.00000	2.06743e-33	1.00000
rad19syn	2.10405e-36	1.00000	2.10405e-36	1.00000
rad71	8.48823e-37	1.00000	8.48823e-37	1.00000
rad8	1.84981e-54	1.00000	1.84981e-54	1.00000

10.0000000 Pa, 140.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.99515e-15 (1.00)	4.99515e-15 (1.00)
Formation of rad19	4.99514e-15 (1.000)	4.99514e-15 (1.000)
H-abstraction to cyc2enyl	5.62488e-21 (1.13e-06)	5.62488e-21 (1.13e-06)
H-abstraction to cyclenyl	3.00047e-26 (6.01e-12)	3.00047e-26 (6.01e-12)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999680	0.999680	0.999680	0.999680
PhCHCCH2+H	0.000263615	0.999943	0.000263615	0.999943
rad9	3.41990e-05	0.999978	3.41990e-05	0.999978
rad6	1.03791e-05	0.999988	1.03791e-05	0.999988
PhCCH+CH3	3.79338e-06	0.999992	3.79338e-06	0.999992
PhCCCH3+H	2.51778e-06	0.999994	2.51778e-06	0.999994
Ph+MeAc	1.92670e-06	0.999996	1.92670e-06	0.999996
C2H2+PhCH2	1.79748e-06	0.999998	1.79748e-06	0.999998
Benzene+cycloprop-2-enylidene	1.12607e-06	0.999999	1.12607e-06	0.999999
rad67	6.22292e-07	1.000000	6.22292e-07	1.000000
rad35	2.72174e-07	1.000000	2.72174e-07	1.000000
Ph+Allene	5.08986e-08	1.000000	5.08986e-08	1.000000
rad15	2.67383e-08	1.000000	2.67383e-08	1.000000
rad2	1.72663e-08	1.000000	1.72663e-08	1.000000
rad28	1.44762e-08	1.000000	1.44762e-08	1.000000
rad26	1.14503e-08	1.000000	1.14503e-08	1.000000
PhCH2CCH+H	7.34090e-09	1.000000	7.34090e-09	1.000000
rad37	6.10603e-09	1.000000	6.10603e-09	1.000000
rad30	4.84081e-09	1.000000	4.84081e-09	1.000000
PAH7+H	4.02285e-09	1.000000	4.02285e-09	1.000000
rad7	2.38670e-09	1.000000	2.38670e-09	1.000000
rad10	1.41016e-09	1.000000	1.41016e-09	1.000000
rad1	1.12683e-09	1.000000	1.12683e-09	1.000000
rad39	1.12332e-09	1.000000	1.12332e-09	1.000000
rad11	8.39122e-10	1.000000	8.39122e-10	1.000000
rad23	7.01746e-10	1.000000	7.01746e-10	1.000000
rad3	1.93343e-10	1.000000	1.93343e-10	1.000000
PAH9+H	1.66272e-10	1.000000	1.66272e-10	1.000000
rad4	9.84205e-11	1.000000	9.84205e-11	1.000000
rad38	8.18815e-11	1.000000	8.18815e-11	1.000000
rad45	2.85375e-11	1.000000	2.85375e-11	1.000000
rad60syn	2.36320e-11	1.000000	2.36320e-11	1.000000
rad60anti	1.16631e-11	1.000000	1.16631e-11	1.000000
PAH3+H	1.09751e-11	1.000000	1.09751e-11	1.000000
PAH10+CH3	1.04582e-11	1.000000	1.04582e-11	1.000000
rad13	7.32030e-12	1.000000	7.32030e-12	1.000000
Benzene+cycloprop-1-enylidene	6.00677e-12	1.000000	6.00677e-12	1.000000
rad46	4.36340e-12	1.000000	4.36340e-12	1.000000
PhcycC3H3_A+H	3.66485e-12	1.000000	3.66485e-12	1.000000
rad22	2.63278e-12	1.000000	2.63278e-12	1.000000
rad59	2.22267e-12	1.000000	2.22267e-12	1.000000
rad36	1.75148e-12	1.000000	1.75148e-12	1.000000
rad43	4.65800e-13	1.000000	4.65800e-13	1.000000
rad12	1.72069e-13	1.000000	1.72069e-13	1.000000
rad62	8.61153e-14	1.000000	8.61153e-14	1.000000
rad54	6.37399e-14	1.000000	6.37399e-14	1.000000
rad50	3.43107e-14	1.000000	3.43107e-14	1.000000
rad19anti	3.02980e-14	1.000000	3.02980e-14	1.000000
rad14	2.05802e-14	1.000000	2.05802e-14	1.000000
Phenyl+cycC3H4	1.75978e-14	1.000000	0.000000	1.000000
rad27	1.57624e-14	1.000000	1.57624e-14	1.000000
rad33	9.43556e-15	1.000000	9.43556e-15	1.000000
rad25	5.83174e-15	1.000000	5.83174e-15	1.000000

rad70	2.27390e-15	1.00000	2.27390e-15	1.00000
PhcycC3H3_B+H	1.94836e-15	1.00000	1.94836e-15	1.00000
PAH1+H	1.05398e-15	1.00000	1.05398e-15	1.00000
rad55	5.28396e-16	1.00000	5.28396e-16	1.00000
rad52	2.54127e-16	1.00000	2.54127e-16	1.00000
rad58	2.33837e-16	1.00000	2.33837e-16	1.00000
rad5	2.33243e-16	1.00000	2.33243e-16	1.00000
rad18	9.76362e-17	1.00000	9.76362e-17	1.00000
rad51	7.58537e-17	1.00000	7.58537e-17	1.00000
rad34	3.37930e-17	1.00000	3.37930e-17	1.00000
rad41	2.17110e-17	1.00000	2.17110e-17	1.00000
rad42	1.43355e-17	1.00000	1.43355e-17	1.00000
rad20	1.37164e-17	1.00000	1.37164e-17	1.00000
rad21	8.61080e-18	1.00000	8.61080e-18	1.00000
rad65	1.67221e-18	1.00000	1.67221e-18	1.00000
rad31	4.20209e-19	1.00000	4.20209e-19	1.00000
rad24	2.27114e-19	1.00000	2.27114e-19	1.00000
rad53	3.55920e-21	1.00000	3.55920e-21	1.00000
rad64	3.57121e-22	1.00000	3.57121e-22	1.00000
rad61	2.60402e-23	1.00000	2.60402e-23	1.00000
rad47	4.39792e-25	1.00000	4.39792e-25	1.00000
rad56	1.98508e-25	1.00000	1.98508e-25	1.00000
rad68syn	1.95140e-26	1.00000	1.95140e-26	1.00000
rad68anti	1.55975e-26	1.00000	1.55975e-26	1.00000
rad40syn	7.00814e-30	1.00000	7.00814e-30	1.00000
rad40anti	5.60648e-30	1.00000	5.60648e-30	1.00000
rad73	3.41345e-31	1.00000	3.41345e-31	1.00000
PAH8+H	6.01142e-32	1.00000	6.01142e-32	1.00000
rad71	3.09040e-35	1.00000	3.09040e-35	1.00000
rad19syn	4.98198e-36	1.00000	4.98198e-36	1.00000
rad8	2.28484e-54	1.00000	2.28484e-54	1.00000

10.000000 Pa, 150.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.34137e-15 (1.00)	6.34137e-15 (1.00)
Formation of rad19	6.34135e-15 (1.000)	6.34135e-15 (1.000)
H-abstraction to cyc2enyl	1.81685e-20 (2.87e-06)	1.81685e-20 (2.87e-06)
H-abstraction to cyclenyl	2.23765e-25 (3.53e-11)	2.23765e-25 (3.53e-11)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999680	0.999680	0.999680	0.999680
PhCHCCH2+H	0.000273212	0.999953	0.000273212	0.999953
rad9	2.21590e-05	0.999976	2.21590e-05	0.999976
rad6	1.03982e-05	0.999986	1.03982e-05	0.999986
PhCCH+CH3	3.96449e-06	0.999990	3.96449e-06	0.999990
Benzene+cycloprop-2-enylidene	2.86508e-06	0.999993	2.86508e-06	0.999993
PhCCCH3+H	2.63479e-06	0.999995	2.63479e-06	0.999995
Ph+MeAc	2.03713e-06	0.999997	2.03713e-06	0.999997
C2H2+PhCH2	1.93139e-06	0.999999	1.93139e-06	0.999999
rad67	6.53476e-07	1.000000	6.53476e-07	1.000000
rad35	2.85255e-07	1.00000	2.85255e-07	1.00000
Ph+Allene	5.82954e-08	1.00000	5.82954e-08	1.00000
rad15	1.71935e-08	1.00000	1.71935e-08	1.00000
rad2	1.55497e-08	1.00000	1.55497e-08	1.00000
rad28	1.45930e-08	1.00000	1.45930e-08	1.00000
rad26	8.86846e-09	1.00000	8.86846e-09	1.00000
PhCH2CCH+H	8.42389e-09	1.00000	8.42389e-09	1.00000
rad37	6.56030e-09	1.00000	6.56030e-09	1.00000
rad30	5.08736e-09	1.00000	5.08736e-09	1.00000
PAH7+H	4.80252e-09	1.00000	4.80252e-09	1.00000
rad7	2.36337e-09	1.00000	2.36337e-09	1.00000
rad39	1.34241e-09	1.00000	1.34241e-09	1.00000
rad10	1.26320e-09	1.00000	1.26320e-09	1.00000
rad1	1.01990e-09	1.00000	1.01990e-09	1.00000
rad11	8.27488e-10	1.00000	8.27488e-10	1.00000
rad23	6.64777e-10	1.00000	6.64777e-10	1.00000
PAH9+H	1.82352e-10	1.00000	1.82352e-10	1.00000
rad3	1.76542e-10	1.00000	1.76542e-10	1.00000
rad38	9.03447e-11	1.00000	9.03447e-11	1.00000
rad4	8.99857e-11	1.00000	8.99857e-11	1.00000
Benzene+cycloprop-1-enylidene	3.52865e-11	1.00000	3.52865e-11	1.00000
rad45	2.66632e-11	1.00000	2.66632e-11	1.00000
rad60syn	2.53140e-11	1.00000	2.53140e-11	1.00000
rad60anti	1.25146e-11	1.00000	1.25146e-11	1.00000
PAH10+CH3	1.21134e-11	1.00000	1.21134e-11	1.00000
PAH3+H	1.20435e-11	1.00000	1.20435e-11	1.00000
rad13	7.24979e-12	1.00000	7.24979e-12	1.00000

rad46	4.84087e-12	1.00000	4.84087e-12	1.00000
PhcycC3H3_A+H	4.67156e-12	1.00000	4.67156e-12	1.00000
rad22	2.43619e-12	1.00000	2.43619e-12	1.00000
rad59	2.42987e-12	1.00000	2.42987e-12	1.00000
rad36	1.63838e-12	1.00000	1.63838e-12	1.00000
rad43	5.26046e-13	1.00000	5.26046e-13	1.00000
rad12	1.12342e-13	1.00000	1.12342e-13	1.00000
rad62	9.77272e-14	1.00000	9.77272e-14	1.00000
rad54	8.10030e-14	1.00000	8.10030e-14	1.00000
rad50	3.94240e-14	1.00000	3.94240e-14	1.00000
Phenyl+cycC3H4	2.61242e-14	1.00000	0.00000	1.00000
rad19anti	1.95757e-14	1.00000	1.95757e-14	1.00000
rad14	1.86886e-14	1.00000	1.86886e-14	1.00000
rad27	1.40578e-14	1.00000	1.40578e-14	1.00000
rad33	9.41994e-15	1.00000	9.41994e-15	1.00000
rad25	5.74526e-15	1.00000	5.74526e-15	1.00000
PhcycC3H3_B+H	4.08244e-15	1.00000	4.08244e-15	1.00000
rad70	2.85442e-15	1.00000	2.85442e-15	1.00000
PAH1+H	1.38165e-15	1.00000	1.38165e-15	1.00000
rad55	7.04455e-16	1.00000	7.04455e-16	1.00000
rad52	3.00108e-16	1.00000	3.00108e-16	1.00000
rad58	2.80941e-16	1.00000	2.80941e-16	1.00000
rad5	1.85461e-16	1.00000	1.85461e-16	1.00000
rad51	9.26318e-17	1.00000	9.26318e-17	1.00000
rad18	8.51201e-17	1.00000	8.51201e-17	1.00000
rad34	4.52643e-17	1.00000	4.52643e-17	1.00000
rad41	2.90868e-17	1.00000	2.90868e-17	1.00000
rad42	1.87337e-17	1.00000	1.87337e-17	1.00000
rad20	1.25050e-17	1.00000	1.25050e-17	1.00000
rad21	7.86014e-18	1.00000	7.86014e-18	1.00000
rad65	2.07344e-18	1.00000	2.07344e-18	1.00000
rad31	3.93637e-19	1.00000	3.93637e-19	1.00000
rad24	2.13484e-19	1.00000	2.13484e-19	1.00000
rad53	8.06376e-21	1.00000	8.06376e-21	1.00000
rad64	9.80484e-22	1.00000	9.80484e-22	1.00000
rad61	1.07724e-22	1.00000	1.07724e-22	1.00000
rad56	1.07035e-24	1.00000	1.07035e-24	1.00000
rad47	4.49991e-25	1.00000	4.49991e-25	1.00000
rad68syn	1.15478e-25	1.00000	1.15478e-25	1.00000
rad68anti	9.18087e-26	1.00000	9.18087e-26	1.00000
rad40syn	8.21112e-29	1.00000	8.21112e-29	1.00000
rad40anti	6.61262e-29	1.00000	6.61262e-29	1.00000
rad73	3.45960e-30	1.00000	3.45960e-30	1.00000
PAH8+H	1.12889e-30	1.00000	1.12889e-30	1.00000
rad71	7.00587e-34	1.00000	7.00587e-34	1.00000
rad19syn	1.23840e-35	1.00000	1.23840e-35	1.00000
rad8	2.95680e-54	1.00000	2.95680e-54	1.00000

10.000000 Pa, 160.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.84423e-15 (1.00)	7.84423e-15 (1.00)
Formation of rad19	7.84418e-15 (1.000)	7.84418e-15 (1.000)
H-abstraction to cyc2enyl	5.05321e-20 (6.44e-06)	5.05321e-20 (6.44e-06)
H-abstraction to cyclenyl	1.29479e-24 (1.65e-10)	1.29479e-24 (1.65e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999673	0.999673	0.999673	0.999673
PhCHCCH2+H	0.000283406	0.999956	0.000283406	0.999956
rad9	1.46781e-05	0.999971	1.46781e-05	0.999971
rad6	1.04011e-05	0.999981	1.04011e-05	0.999981
Benzene+cycloprop-2-enylidene	6.44194e-06	0.999987	6.44194e-06	0.999987
PhCCH+CH3	4.14718e-06	0.999992	4.14718e-06	0.999992
PhCCCH3+H	2.75963e-06	0.999994	2.75963e-06	0.999994
Ph+MeAc	2.15625e-06	0.999997	2.15625e-06	0.999997
C2H2+PhCH2	2.07903e-06	0.999999	2.07903e-06	0.999999
rad67	6.87135e-07	0.999999	6.87135e-07	0.999999
rad35	2.99341e-07	1.000000	2.99341e-07	1.000000
Ph+Allene	6.69036e-08	1.000000	6.69036e-08	1.000000
rad28	1.46595e-08	1.000000	1.46595e-08	1.000000
rad2	1.43017e-08	1.000000	1.43017e-08	1.000000
rad15	1.13096e-08	1.000000	1.13096e-08	1.000000
PhCH2CCH+H	9.69991e-09	1.000000	9.69991e-09	1.000000
rad37	7.05378e-09	1.000000	7.05378e-09	1.000000
rad26	6.97044e-09	1.000000	6.97044e-09	1.000000
PAH7+H	5.70937e-09	1.000000	5.70937e-09	1.000000
rad30	5.35441e-09	1.000000	5.35441e-09	1.000000
rad7	2.33886e-09	1.000000	2.33886e-09	1.000000

rad39	1.59733e-09	1.000000	1.59733e-09	1.000000
rad10	1.15631e-09	1.000000	1.15631e-09	1.000000
rad1	9.43179e-10	1.000000	9.43179e-10	1.000000
rad11	8.15812e-10	1.000000	8.15812e-10	1.000000
rad23	6.31316e-10	1.000000	6.31316e-10	1.000000
PAH9+H	2.00546e-10	1.000000	2.00546e-10	1.000000
Benzene+cycloprop-1-enylidene	1.65062e-10	1.000000	1.65062e-10	1.000000
rad3	1.64179e-10	1.000000	1.64179e-10	1.000000
rad38	9.99501e-11	1.000000	9.99501e-11	1.000000
rad4	8.38040e-11	1.000000	8.38040e-11	1.000000
rad60syn	2.71808e-11	1.000000	2.71808e-11	1.000000
rad45	2.50050e-11	1.000000	2.50050e-11	1.000000
PAH10+CH3	1.40763e-11	1.000000	1.40763e-11	1.000000
rad60anti	1.34615e-11	1.000000	1.34615e-11	1.000000
PAH3+H	1.32647e-11	1.000000	1.32647e-11	1.000000
rad13	7.17713e-12	1.000000	7.17713e-12	1.000000
PhcycC3H3_A+H	5.99971e-12	1.000000	5.99971e-12	1.000000
rad46	5.38972e-12	1.000000	5.38972e-12	1.000000
rad59	2.66557e-12	1.000000	2.66557e-12	1.000000
rad22	2.26329e-12	1.000000	2.26329e-12	1.000000
rad36	1.53872e-12	1.000000	1.53872e-12	1.000000
rad43	5.96101e-13	1.000000	5.96101e-13	1.000000
rad62	1.11295e-13	1.000000	1.11295e-13	1.000000
rad54	1.03299e-13	1.000000	1.03299e-13	1.000000
rad12	7.50237e-14	1.000000	7.50237e-14	1.000000
rad50	4.55734e-14	1.000000	4.55734e-14	1.000000
Phenyl+cycC3H4	3.86829e-14	1.000000	0.000000	1.000000
rad14	1.72917e-14	1.000000	1.72917e-14	1.000000
rad19anti	1.29580e-14	1.000000	1.29580e-14	1.000000
rad27	1.28181e-14	1.000000	1.28181e-14	1.000000
rad33	9.39910e-15	1.000000	9.39910e-15	1.000000
PhcycC3H3_B+H	8.11381e-15	1.000000	8.11381e-15	1.000000
rad25	5.66113e-15	1.000000	5.66113e-15	1.000000
rad70	3.61773e-15	1.000000	3.61773e-15	1.000000
PAH1+H	1.82511e-15	1.000000	1.82511e-15	1.000000
rad55	9.44438e-16	1.000000	9.44438e-16	1.000000
rad52	3.57230e-16	1.000000	3.57230e-16	1.000000
rad58	3.40288e-16	1.000000	3.40288e-16	1.000000
rad5	1.52193e-16	1.000000	1.52193e-16	1.000000
rad51	1.14272e-16	1.000000	1.14272e-16	1.000000
rad18	7.50243e-17	1.000000	7.50243e-17	1.000000
rad34	6.13642e-17	1.000000	6.13642e-17	1.000000
rad41	3.91660e-17	1.000000	3.91660e-17	1.000000
rad42	2.46103e-17	1.000000	2.46103e-17	1.000000
rad20	1.15207e-17	1.000000	1.15207e-17	1.000000
rad21	7.25025e-18	1.000000	7.25025e-18	1.000000
rad65	2.59867e-18	1.000000	2.59867e-18	1.000000
rad31	3.77686e-19	1.000000	3.77686e-19	1.000000
rad24	2.01510e-19	1.000000	2.01510e-19	1.000000
rad53	1.75710e-20	1.000000	1.75710e-20	1.000000
rad64	2.52329e-21	1.000000	2.52329e-21	1.000000
rad61	3.85758e-22	1.000000	3.85758e-22	1.000000
rad56	4.88688e-24	1.000000	4.88688e-24	1.000000
rad68syn	5.65829e-25	1.000000	5.65829e-25	1.000000
rad47	4.65499e-25	1.000000	4.65499e-25	1.000000
rad68anti	4.47293e-25	1.000000	4.47293e-25	1.000000
rad40syn	7.19491e-28	1.000000	7.19491e-28	1.000000
rad40anti	5.83138e-28	1.000000	5.83138e-28	1.000000
rad73	2.73120e-29	1.000000	2.73120e-29	1.000000
PAH8+H	1.49882e-29	1.000000	1.49882e-29	1.000000
rad71	1.10075e-32	1.000000	1.10075e-32	1.000000
rad19syn	3.23547e-35	1.000000	3.23547e-35	1.000000
rad8	3.98637e-54	1.000000	3.98637e-54	1.000000

10.000000 Pa, 170.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	9.49598e-15 (1.00)	9.49598e-15 (1.00)
Formation of rad19	9.49586e-15 (1.000)	9.49586e-15 (1.000)
H-abstraction to cyc2enyl	1.24279e-19 (1.31e-05)	1.24279e-19 (1.31e-05)
H-abstraction to cyclenyl	6.08025e-24 (6.40e-10)	6.08025e-24 (6.40e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999659	0.999659	0.999659	0.999659
PhCHCCH2+H	0.000294300	0.999953	0.000294300	0.999953
Benzene+cycloprop-2-enylidene	1.30875e-05	0.999966	1.30875e-05	0.999966
rad6	1.03867e-05	0.999977	1.03867e-05	0.999977
rad9	9.92023e-06	0.999987	9.92023e-06	0.999987

PhCCH+CH3	4.34353e-06	0.999991	4.34353e-06	0.999991
PhCCCH3+H	2.89375e-06	0.999994	2.89375e-06	0.999994
Ph+MeAc	2.28562e-06	0.999996	2.28562e-06	0.999996
C2H2+PhCH2	2.24264e-06	0.999998	2.24264e-06	0.999998
rad67	7.23685e-07	0.999999	7.23685e-07	0.999999
rad35	3.14602e-07	0.999999	3.14602e-07	0.999999
Ph+Allene	7.69806e-08	0.999999	7.69806e-08	0.999999
rad28	1.46795e-08	1.000000	1.46795e-08	1.000000
rad2	1.33772e-08	1.000000	1.33772e-08	1.000000
PhCH2CCH+H	1.12135e-08	1.000000	1.12135e-08	1.000000
rad37	7.59460e-09	1.000000	7.59460e-09	1.000000
rad15	7.59450e-09	1.000000	7.59450e-09	1.000000
PAH7+H	6.76776e-09	1.000000	6.76776e-09	1.000000
rad30	5.64547e-09	1.000000	5.64547e-09	1.000000
rad26	5.56420e-09	1.000000	5.56420e-09	1.000000
rad7	2.31263e-09	1.000000	2.31263e-09	1.000000
rad39	1.89496e-09	1.000000	1.89496e-09	1.000000
rad10	1.07701e-09	1.000000	1.07701e-09	1.000000
rad1	8.87467e-10	1.000000	8.87467e-10	1.000000
rad11	8.03857e-10	1.000000	8.03857e-10	1.000000
Benzene+cycloprop-1-enylidene	6.40297e-10	1.000000	6.40297e-10	1.000000
rad23	6.00650e-10	1.000000	6.00650e-10	1.000000
PAH9+H	2.21268e-10	1.000000	2.21268e-10	1.000000
rad3	1.54854e-10	1.000000	1.54854e-10	1.000000
rad38	1.10933e-10	1.000000	1.10933e-10	1.000000
rad4	7.91694e-11	1.000000	7.91694e-11	1.000000
rad60syn	2.92666e-11	1.000000	2.92666e-11	1.000000
rad45	2.35193e-11	1.000000	2.35193e-11	1.000000
PAH10+CH3	1.64247e-11	1.000000	1.64247e-11	1.000000
PAH3+H	1.46712e-11	1.000000	1.46712e-11	1.000000
rad60anti	1.45218e-11	1.000000	1.45218e-11	1.000000
PhcycC3H3_A+H	7.76139e-12	1.000000	7.76139e-12	1.000000
rad13	7.10045e-12	1.000000	7.10045e-12	1.000000
rad46	6.02539e-12	1.000000	6.02539e-12	1.000000
rad59	2.93567e-12	1.000000	2.93567e-12	1.000000
rad22	2.10935e-12	1.000000	2.10935e-12	1.000000
rad36	1.44983e-12	1.000000	1.44983e-12	1.000000
rad43	6.78196e-13	1.000000	6.78196e-13	1.000000
rad54	1.32315e-13	1.000000	1.32315e-13	1.000000
rad62	1.27274e-13	1.000000	1.27274e-13	1.000000
Phenyl+cycC3H4	5.71891e-14	1.000000	0.000000	1.000000
rad50	5.30402e-14	1.000000	5.30402e-14	1.000000
rad12	5.11482e-14	1.000000	5.11482e-14	1.000000
rad14	1.62325e-14	1.000000	1.62325e-14	1.000000
PhcycC3H3_B+H	1.54559e-14	1.000000	1.54559e-14	1.000000
rad27	1.18973e-14	1.000000	1.18973e-14	1.000000
rad33	9.37080e-15	1.000000	9.37080e-15	1.000000
rad19anti	8.76996e-15	1.000000	8.76996e-15	1.000000
rad25	5.57728e-15	1.000000	5.57728e-15	1.000000
rad70	4.63144e-15	1.000000	4.63144e-15	1.000000
PAH1+H	2.43099e-15	1.000000	2.43099e-15	1.000000
rad55	1.27411e-15	1.000000	1.27411e-15	1.000000
rad52	4.28968e-16	1.000000	4.28968e-16	1.000000
rad58	4.15752e-16	1.000000	4.15752e-16	1.000000
rad51	1.42528e-16	1.000000	1.42528e-16	1.000000
rad5	1.28257e-16	1.000000	1.28257e-16	1.000000
rad34	8.41931e-17	1.000000	8.41931e-17	1.000000
rad18	6.67471e-17	1.000000	6.67471e-17	1.000000
rad41	5.30131e-17	1.000000	5.30131e-17	1.000000
rad42	3.25088e-17	1.000000	3.25088e-17	1.000000
rad20	1.07094e-17	1.000000	1.07094e-17	1.000000
rad21	6.74767e-18	1.000000	6.74767e-18	1.000000
rad65	3.29471e-18	1.000000	3.29471e-18	1.000000
rad31	3.69709e-19	1.000000	3.69709e-19	1.000000
rad24	1.90853e-19	1.000000	1.90853e-19	1.000000
rad53	3.70553e-20	1.000000	3.70553e-20	1.000000
rad64	6.14511e-21	1.000000	6.14511e-21	1.000000
rad61	1.22813e-21	1.000000	1.22813e-21	1.000000
rad56	1.94381e-23	1.000000	1.94381e-23	1.000000
rad68syn	2.37507e-24	1.000000	2.37507e-24	1.000000
rad68anti	1.86602e-24	1.000000	1.86602e-24	1.000000
rad47	4.86697e-25	1.000000	4.86697e-25	1.000000
rad40syn	4.97212e-27	1.000000	4.97212e-27	1.000000
rad40anti	4.05223e-27	1.000000	4.05223e-27	1.000000
rad73	1.75493e-28	1.000000	1.75493e-28	1.000000
PAH8+H	1.49723e-28	1.000000	1.49723e-28	1.000000
rad71	1.27741e-31	1.000000	1.27741e-31	1.000000
rad19syn	8.89221e-35	1.000000	8.89221e-35	1.000000
rad8	5.57069e-54	1.000000	5.57069e-54	1.000000

10.000000 Pa, 180.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.12884e-14 (1.00)	1.12884e-14 (1.00)
Formation of rad19	1.12881e-14 (1.000)	1.12881e-14 (1.000)
H-abstraction to cyc2enyl	2.75916e-19 (2.44e-05)	2.75916e-19 (2.44e-05)
H-abstraction to cyclenyl	2.39955e-23 (2.13e-09)	2.39955e-23 (2.13e-09)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999639	0.999639	0.999639	0.999639
PhCHCCH2+H	0.000306000	0.999945	0.000306000	0.999945
Benzene+cycloprop-2-enylidene	2.44424e-05	0.999969	2.44424e-05	0.999969
rad6	1.03528e-05	0.999979	1.03528e-05	0.999979
rad9	6.82946e-06	0.999986	6.82946e-06	0.999986
PhCCH+CH3	4.55568e-06	0.999991	4.55568e-06	0.999991
PhCCCH3+H	3.03862e-06	0.999994	3.03862e-06	0.999994
Ph+MeAc	2.42697e-06	0.999996	2.42697e-06	0.999996
C2H2+PhCH2	2.42477e-06	0.999999	2.42477e-06	0.999999
rad67	7.63575e-07	0.999999	7.63575e-07	0.999999
rad35	3.31219e-07	1.000000	3.31219e-07	1.000000
Ph+Allene	8.88361e-08	1.000000	8.88361e-08	1.000000
rad28	1.46552e-08	1.000000	1.46552e-08	1.000000
PhCH2CCH+H	1.30190e-08	1.000000	1.30190e-08	1.000000
rad2	1.26759e-08	1.000000	1.26759e-08	1.000000
rad37	8.19166e-09	1.000000	8.19166e-09	1.000000
PAH7+H	8.00659e-09	1.000000	8.00659e-09	1.000000
rad30	5.96438e-09	1.000000	5.96438e-09	1.000000
rad15	5.19721e-09	1.000000	5.19721e-09	1.000000
rad26	4.51443e-09	1.000000	4.51443e-09	1.000000
rad7	2.28409e-09	1.000000	2.28409e-09	1.000000
rad39	2.24337e-09	1.000000	2.24337e-09	1.000000
Benzene+cycloprop-1-enylidene	2.12567e-09	1.000000	2.12567e-09	1.000000
rad10	1.01672e-09	1.000000	1.01672e-09	1.000000
rad1	8.46396e-10	1.000000	8.46396e-10	1.000000
rad11	7.91387e-10	1.000000	7.91387e-10	1.000000
rad23	5.72201e-10	1.000000	5.72201e-10	1.000000
PAH9+H	2.45011e-10	1.000000	2.45011e-10	1.000000
rad3	1.47611e-10	1.000000	1.47611e-10	1.000000
rad38	1.23569e-10	1.000000	1.23569e-10	1.000000
rad4	7.55976e-11	1.000000	7.55976e-11	1.000000
rad60syn	3.16106e-11	1.000000	3.16106e-11	1.000000
rad45	2.21719e-11	1.000000	2.21719e-11	1.000000
PAH10+CH3	1.92558e-11	1.000000	1.92558e-11	1.000000
PAH3+H	1.63019e-11	1.000000	1.63019e-11	1.000000
rad60anti	1.57161e-11	1.000000	1.57161e-11	1.000000
PhcycC3H3_A+H	1.01084e-11	1.000000	1.01084e-11	1.000000
rad13	7.01778e-12	1.000000	7.01778e-12	1.000000
rad46	6.76645e-12	1.000000	6.76645e-12	1.000000
rad59	3.24715e-12	1.000000	3.24715e-12	1.000000
rad22	1.97069e-12	1.000000	1.97069e-12	1.000000
rad36	1.36961e-12	1.000000	1.36961e-12	1.000000
rad43	7.75045e-13	1.000000	7.75045e-13	1.000000
rad54	1.70317e-13	1.000000	1.70317e-13	1.000000
rad62	1.46224e-13	1.000000	1.46224e-13	1.000000
Phenyl+cycC3H4	8.44565e-14	1.000000	0.000000	1.000000
rad50	6.21858e-14	1.000000	6.21858e-14	1.000000
rad12	3.55409e-14	1.000000	3.55409e-14	1.000000
PhcycC3H3_B+H	2.84373e-14	1.000000	2.84373e-14	1.000000
rad14	1.54046e-14	1.000000	1.54046e-14	1.000000
rad27	1.11963e-14	1.000000	1.11963e-14	1.000000
rad33	9.33257e-15	1.000000	9.33257e-15	1.000000
rad19anti	6.05850e-15	1.000000	6.05850e-15	1.000000
rad70	5.98927e-15	1.000000	5.98927e-15	1.000000
rad25	5.49171e-15	1.000000	5.49171e-15	1.000000
PAH1+H	3.26556e-15	1.000000	3.26556e-15	1.000000
rad55	1.72988e-15	1.000000	1.72988e-15	1.000000
rad52	5.19965e-16	1.000000	5.19965e-16	1.000000
rad58	5.12511e-16	1.000000	5.12511e-16	1.000000
rad51	1.79832e-16	1.000000	1.79832e-16	1.000000
rad34	1.16838e-16	1.000000	1.16838e-16	1.000000
rad5	1.10478e-16	1.000000	1.10478e-16	1.000000
rad41	7.21175e-17	1.000000	7.21175e-17	1.000000
rad18	5.98586e-17	1.000000	5.98586e-17	1.000000
rad42	4.31775e-17	1.000000	4.31775e-17	1.000000
rad20	1.00317e-17	1.000000	1.00317e-17	1.000000
rad21	6.32811e-18	1.000000	6.32811e-18	1.000000
rad65	4.22742e-18	1.000000	4.22742e-18	1.000000
rad31	3.67940e-19	1.000000	3.67940e-19	1.000000

rad24	1.81247e-19	1.000000	1.81247e-19	1.000000
rad53	7.59685e-20	1.000000	7.59685e-20	1.000000
rad64	1.42689e-20	1.000000	1.42689e-20	1.000000
rad61	3.54924e-21	1.000000	3.54924e-21	1.000000
rad56	6.89137e-23	1.000000	6.89137e-23	1.000000
rad68syn	8.77269e-24	1.000000	8.77269e-24	1.000000
rad68anti	6.84742e-24	1.000000	6.84742e-24	1.000000
rad47	5.14250e-25	1.000000	5.14250e-25	1.000000
rad40syn	2.82461e-26	1.000000	2.82461e-26	1.000000
rad40anti	2.31200e-26	1.000000	2.31200e-26	1.000000
PAH8+H	1.18318e-27	1.000000	1.18318e-27	1.000000
rad73	9.50286e-28	1.000000	9.50286e-28	1.000000
rad71	1.15957e-30	1.000000	1.15957e-30	1.000000
rad19syn	2.57219e-34	1.000000	2.57219e-34	1.000000
rad8	8.03311e-54	1.000000	8.03311e-54	1.000000

10.0000000 Pa, 190.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.32132e-14 (1.00)	1.32132e-14 (1.00)
Formation of rad19	1.32126e-14 (1.000)	1.32126e-14 (1.000)
H-abstraction to cyc2enyl	5.62053e-19 (4.25e-05)	5.62053e-19 (4.25e-05)
H-abstraction to cyclenyl	8.18073e-23 (6.19e-09)	8.18073e-23 (6.19e-09)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999609	0.999609	0.999609	0.999609
PhCHCCH2+H	0.000318615	0.999928	0.000318615	0.999928
Benzene+cycloprop-2-enylidene	4.25373e-05	0.999971	4.25373e-05	0.999971
rad6	1.02978e-05	0.999981	1.02978e-05	0.999981
PhCCH+CH3	4.78582e-06	0.999986	4.78582e-06	0.999986
rad9	4.78256e-06	0.999990	4.78256e-06	0.999990
PhCCCH3+H	3.19577e-06	0.999994	3.19577e-06	0.999994
C2H2+PhCH2	2.62818e-06	0.999996	2.62818e-06	0.999996
Ph+MeAc	2.58212e-06	0.999999	2.58212e-06	0.999999
rad67	8.07293e-07	1.000000	8.07293e-07	1.000000
rad35	3.49388e-07	1.000000	3.49388e-07	1.000000
Ph+Allene	1.02841e-07	1.000000	1.02841e-07	1.000000
PhCH2CCH+H	1.51831e-08	1.000000	1.51831e-08	1.000000
rad28	1.45873e-08	1.000000	1.45873e-08	1.000000
rad2	1.21274e-08	1.000000	1.21274e-08	1.000000
PAH7+H	9.45978e-09	1.000000	9.45978e-09	1.000000
rad37	8.85481e-09	1.000000	8.85481e-09	1.000000
rad30	6.31532e-09	1.000000	6.31532e-09	1.000000
Benzene+cycloprop-1-enylidene	6.19133e-09	1.000000	6.19133e-09	1.000000
rad26	3.72482e-09	1.000000	3.72482e-09	1.000000
rad15	3.61938e-09	1.000000	3.61938e-09	1.000000
rad39	2.65206e-09	1.000000	2.65206e-09	1.000000
rad7	2.25263e-09	1.000000	2.25263e-09	1.000000
rad10	9.69470e-10	1.000000	9.69470e-10	1.000000
rad1	8.15483e-10	1.000000	8.15483e-10	1.000000
rad11	7.78163e-10	1.000000	7.78163e-10	1.000000
rad23	5.45495e-10	1.000000	5.45495e-10	1.000000
PAH9+H	2.72343e-10	1.000000	2.72343e-10	1.000000
rad3	1.41780e-10	1.000000	1.41780e-10	1.000000
rad38	1.38188e-10	1.000000	1.38188e-10	1.000000
rad4	7.27490e-11	1.000000	7.27490e-11	1.000000
rad60syn	3.42579e-11	1.000000	3.42579e-11	1.000000
PAH10+CH3	2.26917e-11	1.000000	2.26917e-11	1.000000
rad45	2.09355e-11	1.000000	2.09355e-11	1.000000
PAH3+H	1.82035e-11	1.000000	1.82035e-11	1.000000
rad60anti	1.70679e-11	1.000000	1.70679e-11	1.000000
PhcycC3H3_A+H	1.32459e-11	1.000000	1.32459e-11	1.000000
rad46	7.63523e-12	1.000000	7.63523e-12	1.000000
rad13	6.92711e-12	1.000000	6.92711e-12	1.000000
rad59	3.60841e-12	1.000000	3.60841e-12	1.000000
rad22	1.84438e-12	1.000000	1.84438e-12	1.000000
rad36	1.29637e-12	1.000000	1.29637e-12	1.000000
rad43	8.89962e-13	1.000000	8.89962e-13	1.000000
rad54	2.20336e-13	1.000000	2.20336e-13	1.000000
rad62	1.68830e-13	1.000000	1.68830e-13	1.000000
Phenyl+cycC3H4	1.24603e-13	1.000000	0.000000	1.000000
rad50	7.34735e-14	1.000000	7.34735e-14	1.000000
PhcycC3H3_B+H	5.08317e-14	1.000000	5.08317e-14	1.000000
rad12	2.51363e-14	1.000000	2.51363e-14	1.000000
rad14	1.47343e-14	1.000000	1.47343e-14	1.000000
rad27	1.06462e-14	1.000000	1.06462e-14	1.000000
rad33	9.28185e-15	1.000000	9.28185e-15	1.000000
rad70	7.82094e-15	1.000000	7.82094e-15	1.000000

rad25	5.40252e-15	1.00000	5.40252e-15	1.00000
PAH1+H	4.42297e-15	1.00000	4.42297e-15	1.00000
rad19anti	4.26624e-15	1.00000	4.26624e-15	1.00000
rad55	2.36291e-15	1.00000	2.36291e-15	1.00000
rad58	6.37499e-16	1.00000	6.37499e-16	1.00000
rad52	6.36415e-16	1.00000	6.36415e-16	1.00000
rad51	2.29569e-16	1.00000	2.29569e-16	1.00000
rad34	1.63827e-16	1.00000	1.63827e-16	1.00000
rad41	9.85593e-17	1.00000	9.85593e-17	1.00000
rad5	9.68573e-17	1.00000	9.68573e-17	1.00000
rad42	5.76447e-17	1.00000	5.76447e-17	1.00000
rad18	5.40455e-17	1.00000	5.40455e-17	1.00000
rad20	9.45833e-18	1.00000	9.45833e-18	1.00000
rad21	5.97347e-18	1.00000	5.97347e-18	1.00000
rad65	5.48952e-18	1.00000	5.48952e-18	1.00000
rad31	3.71205e-19	1.00000	3.71205e-19	1.00000
rad24	1.72481e-19	1.00000	1.72481e-19	1.00000
rad53	1.51879e-19	1.00000	1.51879e-19	1.00000
rad64	3.17747e-20	1.00000	3.17747e-20	1.00000
rad61	9.46335e-21	1.00000	9.46335e-21	1.00000
rad56	2.21745e-22	1.00000	2.21745e-22	1.00000
rad68syn	2.91238e-23	1.00000	2.91238e-23	1.00000
rad68anti	2.25767e-23	1.00000	2.25767e-23	1.00000
rad47	5.49150e-25	1.00000	5.49150e-25	1.00000
rad40syn	1.36265e-25	1.00000	1.36265e-25	1.00000
rad40anti	1.11864e-25	1.00000	1.11864e-25	1.00000
PAH8+H	7.67611e-27	1.00000	7.67611e-27	1.00000
rad73	4.45696e-27	1.00000	4.45696e-27	1.00000
rad71	8.55146e-30	1.00000	8.55146e-30	1.00000
rad19syn	7.83231e-34	1.00000	7.83231e-34	1.00000
rad8	1.19090e-53	1.00000	1.19090e-53	1.00000

10.0000000 Pa, 200.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.52621e-14 (1.00)	1.52621e-14 (1.00)
Formation of rad19	1.52610e-14 (1.000)	1.52610e-14 (1.000)
H-abstraction to cyc2enyl	1.06427e-18 (6.97e-05)	1.06427e-18 (6.97e-05)
H-abstraction to cyclenyl	2.46309e-22 (1.61e-08)	2.46309e-22 (1.61e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999569	0.999569	0.999569	0.999569
PhCHCCH2+H	0.000332261	0.999902	0.000332261	0.999902
Benzene+cycloprop-2-enylidene	6.97330e-05	0.999971	6.97330e-05	0.999971
rad6	1.02190e-05	0.999981	1.02190e-05	0.999981
PhCCH+CH3	5.03622e-06	0.999987	5.03622e-06	0.999987
rad9	3.40278e-06	0.999990	3.40278e-06	0.999990
PhCCCH3+H	3.36684e-06	0.999993	3.36684e-06	0.999993
C2H2+PhCH2	2.85590e-06	0.999996	2.85590e-06	0.999996
Ph+MeAc	2.75303e-06	0.999999	2.75303e-06	0.999999
rad67	8.55363e-07	1.000000	8.55363e-07	1.000000
rad35	3.69319e-07	1.00000	3.69319e-07	1.00000
Ph+Allene	1.19433e-07	1.00000	1.19433e-07	1.00000
PhCH2CCH+H	1.77864e-08	1.00000	1.77864e-08	1.00000
Benzene+cycloprop-1-enylidene	1.61386e-08	1.00000	1.61386e-08	1.00000
rad28	1.44755e-08	1.00000	1.44755e-08	1.00000
rad2	1.16812e-08	1.00000	1.16812e-08	1.00000
PAH7+H	1.11667e-08	1.00000	1.11667e-08	1.00000
rad37	9.59505e-09	1.00000	9.59505e-09	1.00000
rad30	6.70285e-09	1.00000	6.70285e-09	1.00000
rad39	3.13206e-09	1.00000	3.13206e-09	1.00000
rad26	3.12615e-09	1.00000	3.12615e-09	1.00000
rad15	2.56186e-09	1.00000	2.56186e-09	1.00000
rad7	2.21767e-09	1.00000	2.21767e-09	1.00000
rad10	9.31026e-10	1.00000	9.31026e-10	1.00000
rad1	7.91509e-10	1.00000	7.91509e-10	1.00000
rad11	7.63961e-10	1.00000	7.63961e-10	1.00000
rad23	5.20140e-10	1.00000	5.20140e-10	1.00000
PAH9+H	3.03934e-10	1.00000	3.03934e-10	1.00000
rad38	1.55173e-10	1.00000	1.55173e-10	1.00000
rad3	1.36881e-10	1.00000	1.36881e-10	1.00000
rad4	7.03814e-11	1.00000	7.03814e-11	1.00000
rad60syn	3.72604e-11	1.00000	3.72604e-11	1.00000
PAH10+CH3	2.68857e-11	1.00000	2.68857e-11	1.00000
PAH3+H	2.04323e-11	1.00000	2.04323e-11	1.00000
rad45	1.97882e-11	1.00000	1.97882e-11	1.00000
rad60anti	1.86045e-11	1.00000	1.86045e-11	1.00000
PhcycC3H3_A+H	1.74507e-11	1.00000	1.74507e-11	1.00000

rad46	8.65842e-12	1.00000	8.65842e-12	1.00000
rad13	6.82648e-12	1.00000	6.82648e-12	1.00000
rad59	4.02945e-12	1.00000	4.02945e-12	1.00000
rad22	1.72810e-12	1.00000	1.72810e-12	1.00000
rad36	1.22879e-12	1.00000	1.22879e-12	1.00000
rad43	1.02698e-12	1.00000	1.02698e-12	1.00000
rad54	2.86414e-13	1.00000	2.86414e-13	1.00000
rad62	1.95930e-13	1.00000	1.95930e-13	1.00000
Phenyl+cycC3H4	1.83626e-13	1.00000	0.00000	1.00000
PhcycC3H3_B+H	8.86642e-14	1.00000	8.86642e-14	1.00000
rad50	8.74978e-14	1.00000	8.74978e-14	1.00000
rad12	1.80738e-14	1.00000	1.80738e-14	1.00000
rad14	1.41694e-14	1.00000	1.41694e-14	1.00000
rad70	1.03054e-14	1.00000	1.03054e-14	1.00000
rad27	1.01988e-14	1.00000	1.01988e-14	1.00000
rad33	9.21592e-15	1.00000	9.21592e-15	1.00000
PAH1+H	6.03683e-15	1.00000	6.03683e-15	1.00000
rad25	5.30791e-15	1.00000	5.30791e-15	1.00000
rad55	3.24482e-15	1.00000	3.24482e-15	1.00000
rad19anti	3.05878e-15	1.00000	3.05878e-15	1.00000
rad58	7.99993e-16	1.00000	7.99993e-16	1.00000
rad52	7.86585e-16	1.00000	7.86585e-16	1.00000
rad51	2.96452e-16	1.00000	2.96452e-16	1.00000
rad34	2.31772e-16	1.00000	2.31772e-16	1.00000
rad41	1.35236e-16	1.00000	1.35236e-16	1.00000
rad5	8.61031e-17	1.00000	8.61031e-17	1.00000
rad42	7.73198e-17	1.00000	7.73198e-17	1.00000
rad18	4.90751e-17	1.00000	4.90751e-17	1.00000
rad20	8.96722e-18	1.00000	8.96722e-18	1.00000
rad65	7.21164e-18	1.00000	7.21164e-18	1.00000
rad21	5.67002e-18	1.00000	5.67002e-18	1.00000
rad31	3.78744e-19	1.00000	3.78744e-19	1.00000
rad53	2.96743e-19	1.00000	2.96743e-19	1.00000
rad24	1.64383e-19	1.00000	1.64383e-19	1.00000
rad64	6.81702e-20	1.00000	6.81702e-20	1.00000
rad61	2.35798e-20	1.00000	2.35798e-20	1.00000
rad56	6.56956e-22	1.00000	6.56956e-22	1.00000
rad68syn	8.83649e-23	1.00000	8.83649e-23	1.00000
rad68anti	6.80205e-23	1.00000	6.80205e-23	1.00000
rad47	5.92784e-25	1.00000	5.92784e-25	1.00000
rad40syn	5.72760e-25	1.00000	5.72760e-25	1.00000
rad40anti	4.70927e-25	1.00000	4.70927e-25	1.00000
PAH8+H	4.20918e-26	1.00000	4.20918e-26	1.00000
rad73	1.85014e-26	1.00000	1.85014e-26	1.00000
rad71	5.27454e-29	1.00000	5.27454e-29	1.00000
rad19syn	2.51007e-33	1.00000	2.51007e-33	1.00000
rad8	1.80948e-53	1.00000	1.80948e-53	1.00000

10.0000000 Pa, 210.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.74272e-14 (1.00)	1.74272e-14 (1.00)
Formation of rad19	1.74253e-14 (1.000)	1.74253e-14 (1.000)
H-abstraction to cyc2enyl	1.89310e-18 (0.000109)	1.89310e-18 (0.000109)
H-abstraction to cyclenyl	6.66714e-22 (3.83e-08)	6.66714e-22 (3.83e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999515	0.999515	0.999515	0.999515
PhCHCCH2+H	0.000347056	0.999862	0.000347056	0.999862
Benzene+cycloprop-2-enylidene	0.000108629	0.999971	0.000108629	0.999971
rad6	1.01142e-05	0.999981	1.01142e-05	0.999981
PhCCH+CH3	5.30924e-06	0.999986	5.30924e-06	0.999986
PhCCCH3+H	3.55348e-06	0.999990	3.55348e-06	0.999990
C2H2+PhCH2	3.11124e-06	0.999993	3.11124e-06	0.999993
Ph+MeAc	2.94184e-06	0.999996	2.94184e-06	0.999996
rad9	2.45742e-06	0.999999	2.45742e-06	0.999999
rad67	9.08358e-07	0.999999	9.08358e-07	0.999999
rad35	3.91239e-07	1.000000	3.91239e-07	1.000000
Ph+Allene	1.39131e-07	1.000000	1.39131e-07	1.000000
Benzene+cycloprop-1-enylidene	3.82571e-08	1.000000	3.82571e-08	1.000000
PhCH2CCH+H	2.09266e-08	1.000000	2.09266e-08	1.000000
rad28	1.43190e-08	1.000000	1.43190e-08	1.000000
PAH7+H	1.31729e-08	1.000000	1.31729e-08	1.000000
rad2	1.13009e-08	1.000000	1.13009e-08	1.000000
rad37	1.04247e-08	1.000000	1.04247e-08	1.000000
rad30	7.13199e-09	1.000000	7.13199e-09	1.000000
rad39	3.69602e-09	1.000000	3.69602e-09	1.000000
rad26	2.66825e-09	1.000000	2.66825e-09	1.000000

rad7	2.17861e-09	1.00000	2.17861e-09	1.00000
rad15	1.84117e-09	1.00000	1.84117e-09	1.00000
rad10	8.98321e-10	1.00000	8.98321e-10	1.00000
rad1	7.72120e-10	1.00000	7.72120e-10	1.00000
rad11	7.48566e-10	1.00000	7.48566e-10	1.00000
rad23	4.95812e-10	1.00000	4.95812e-10	1.00000
PAH9+H	3.40553e-10	1.00000	3.40553e-10	1.00000
rad38	1.74980e-10	1.00000	1.74980e-10	1.00000
rad3	1.32569e-10	1.00000	1.32569e-10	1.00000
rad4	6.83188e-11	1.00000	6.83188e-11	1.00000
rad60syn	4.06776e-11	1.00000	4.06776e-11	1.00000
PAH10+CH3	3.20301e-11	1.00000	3.20301e-11	1.00000
PhcycC3H3_A+H	2.30949e-11	1.00000	2.30949e-11	1.00000
PAH3+H	2.30564e-11	1.00000	2.30564e-11	1.00000
rad60anti	2.03577e-11	1.00000	2.03577e-11	1.00000
rad45	1.87125e-11	1.00000	1.87125e-11	1.00000
rad46	9.86798e-12	1.00000	9.86798e-12	1.00000
rad13	6.71401e-12	1.00000	6.71401e-12	1.00000
rad59	4.52223e-12	1.00000	4.52223e-12	1.00000
rad22	1.61996e-12	1.00000	1.61996e-12	1.00000
rad43	1.19101e-12	1.00000	1.19101e-12	1.00000
rad36	1.16577e-12	1.00000	1.16577e-12	1.00000
rad54	3.73903e-13	1.00000	3.73903e-13	1.00000
Phenyl+cycC3H4	2.70226e-13	1.00000	0.00000	1.00000
rad62	2.28557e-13	1.00000	2.28557e-13	1.00000
PhcycC3H3_B+H	1.51423e-13	1.00000	1.51423e-13	1.00000
rad50	1.05020e-13	1.00000	1.05020e-13	1.00000
rad70	1.36882e-14	1.00000	1.36882e-14	1.00000
rad14	1.36724e-14	1.00000	1.36724e-14	1.00000
rad12	1.31998e-14	1.00000	1.31998e-14	1.00000
rad27	9.81925e-15	1.00000	9.81925e-15	1.00000
rad33	9.13215e-15	1.00000	9.13215e-15	1.00000
PAH1+H	8.29614e-15	1.00000	8.29614e-15	1.00000
rad25	5.20622e-15	1.00000	5.20622e-15	1.00000
rad55	4.47521e-15	1.00000	4.47521e-15	1.00000
rad19anti	2.23091e-15	1.00000	2.23091e-15	1.00000
rad58	1.01242e-15	1.00000	1.01242e-15	1.00000
rad52	9.81506e-16	1.00000	9.81506e-16	1.00000
rad51	3.87037e-16	1.00000	3.87037e-16	1.00000
rad34	3.30284e-16	1.00000	3.30284e-16	1.00000
rad41	1.86171e-16	1.00000	1.86171e-16	1.00000
rad42	1.04130e-16	1.00000	1.04130e-16	1.00000
rad5	7.73640e-17	1.00000	7.73640e-17	1.00000
rad18	4.47721e-17	1.00000	4.47721e-17	1.00000
rad65	9.57764e-18	1.00000	9.57764e-18	1.00000
rad20	8.54120e-18	1.00000	8.54120e-18	1.00000
rad21	5.40715e-18	1.00000	5.40715e-18	1.00000
rad53	5.67492e-19	1.00000	5.67492e-19	1.00000
rad31	3.90100e-19	1.00000	3.90100e-19	1.00000
rad24	1.56813e-19	1.00000	1.56813e-19	1.00000
rad64	1.41413e-19	1.00000	1.41413e-19	1.00000
rad61	5.54659e-20	1.00000	5.54659e-20	1.00000
rad56	1.81264e-21	1.00000	1.81264e-21	1.00000
rad68syn	2.48298e-22	1.00000	2.48298e-22	1.00000
rad68anti	1.89789e-22	1.00000	1.89789e-22	1.00000
rad40syn	2.14074e-24	1.00000	2.14074e-24	1.00000
rad40anti	1.76061e-24	1.00000	1.76061e-24	1.00000
rad47	6.47061e-25	1.00000	6.47061e-25	1.00000
PAH8+H	1.99570e-25	1.00000	1.99570e-25	1.00000
rad73	6.91381e-26	1.00000	6.91381e-26	1.00000
rad71	2.78263e-28	1.00000	2.78263e-28	1.00000
rad19syn	8.46127e-33	1.00000	8.46127e-33	1.00000
rad8	2.81094e-53	1.00000	2.81094e-53	1.00000

10.000000 Pa, 220.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.97009e-14 (1.00)	1.97009e-14 (1.00)
Formation of rad19	1.96977e-14 (1.000)	1.96977e-14 (1.000)
H-abstraction to cyc2enyl	3.19064e-18 (0.000162)	3.19064e-18 (0.000162)
H-abstraction to cyclenyl	1.64627e-21 (8.36e-08)	1.64627e-21 (8.36e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999445	0.999445	0.999445	0.999445
PhCHCCH2+H	0.000363125	0.999808	0.000363125	0.999808
Benzene+cycloprop-2-enylidene	0.000161954	0.999970	0.000161954	0.999970
rad6	9.98137e-06	0.999980	9.98137e-06	0.999980
PhCCH+CH3	5.60732e-06	0.999986	5.60732e-06	0.999986

PhCCCH3+H	3.75750e-06	0.999989	3.75750e-06	0.999989
C2H2+PhCH2	3.39777e-06	0.999993	3.39777e-06	0.999993
Ph+MeAc	3.15088e-06	0.999996	3.15088e-06	0.999996
rad9	1.79988e-06	0.999998	1.79988e-06	0.999998
rad67	9.66901e-07	0.999999	9.66901e-07	0.999999
rad35	4.15397e-07	0.999999	4.15397e-07	0.999999
Ph+Allene	1.62544e-07	0.999999	1.62544e-07	0.999999
Benzene+cycloprop-1-enylidene	8.35632e-08	0.999999	8.35632e-08	0.999999
PhCH2CCH+H	2.47207e-08	0.999999	2.47207e-08	0.999999
PAH7+H	1.55297e-08	0.999999	1.55297e-08	0.999999
rad28	1.41171e-08	0.999999	1.41171e-08	0.999999
rad37	1.13575e-08	0.999999	1.13575e-08	0.999999
rad2	1.09596e-08	1.000000	1.09596e-08	1.000000
rad30	7.60823e-09	1.000000	7.60823e-09	1.000000
rad39	4.35828e-09	1.000000	4.35828e-09	1.000000
rad26	2.31443e-09	1.000000	2.31443e-09	1.000000
rad7	2.13495e-09	1.000000	2.13495e-09	1.000000
rad15	1.34239e-09	1.000000	1.34239e-09	1.000000
rad10	8.69126e-10	1.000000	8.69126e-10	1.000000
rad1	7.55573e-10	1.000000	7.55573e-10	1.000000
rad11	7.31793e-10	1.000000	7.31793e-10	1.000000
rad23	4.72252e-10	1.000000	4.72252e-10	1.000000
PAH9+H	3.83095e-10	1.000000	3.83095e-10	1.000000
rad38	1.98139e-10	1.000000	1.98139e-10	1.000000
rad3	1.28588e-10	1.000000	1.28588e-10	1.000000
rad4	6.64318e-11	1.000000	6.64318e-11	1.000000
rad60syn	4.45785e-11	1.000000	4.45785e-11	1.000000
PAH10+CH3	3.83664e-11	1.000000	3.83664e-11	1.000000
PhcycC3H3_A+H	3.06773e-11	1.000000	3.06773e-11	1.000000
PAH3+H	2.61576e-11	1.000000	2.61576e-11	1.000000
rad60anti	2.23638e-11	1.000000	2.23638e-11	1.000000
rad45	1.76942e-11	1.000000	1.76942e-11	1.000000
rad46	1.13019e-11	1.000000	1.13019e-11	1.000000
rad13	6.58799e-12	1.000000	6.58799e-12	1.000000
rad59	5.10109e-12	1.000000	5.10109e-12	1.000000
rad22	1.51848e-12	1.000000	1.51848e-12	1.000000
rad43	1.38806e-12	1.000000	1.38806e-12	1.000000
rad36	1.10642e-12	1.000000	1.10642e-12	1.000000
rad54	4.89853e-13	1.000000	4.89853e-13	1.000000
Phenyl+cycC3H4	3.96956e-13	1.000000	0.00000	1.000000
rad62	2.67967e-13	1.000000	2.67967e-13	1.000000
PhcycC3H3_B+H	2.53852e-13	1.000000	2.53852e-13	1.000000
rad50	1.27013e-13	1.000000	1.27013e-13	1.000000
rad70	1.83053e-14	1.000000	1.83053e-14	1.000000
rad14	1.32161e-14	1.000000	1.32161e-14	1.000000
PAH1+H	1.14673e-14	1.000000	1.14673e-14	1.000000
rad12	9.78384e-15	1.000000	9.78384e-15	1.000000
rad27	9.48235e-15	1.000000	9.48235e-15	1.000000
rad33	9.02804e-15	1.000000	9.02804e-15	1.000000
rad55	6.19164e-15	1.000000	6.19164e-15	1.000000
rad25	5.09595e-15	1.000000	5.09595e-15	1.000000
rad19anti	1.65402e-15	1.000000	1.65402e-15	1.000000
rad58	1.29143e-15	1.000000	1.29143e-15	1.000000
rad52	1.23587e-15	1.000000	1.23587e-15	1.000000
rad51	5.10429e-16	1.000000	5.10429e-16	1.000000
rad34	4.73247e-16	1.000000	4.73247e-16	1.000000
rad41	2.56934e-16	1.000000	2.56934e-16	1.000000
rad42	1.40696e-16	1.000000	1.40696e-16	1.000000
rad5	7.00671e-17	1.000000	7.00671e-17	1.000000
rad18	4.10030e-17	1.000000	4.10030e-17	1.000000
rad65	1.28458e-17	1.000000	1.28458e-17	1.000000
rad20	8.16679e-18	1.000000	8.16679e-18	1.000000
rad21	5.17650e-18	1.000000	5.17650e-18	1.000000
rad53	1.06346e-18	1.000000	1.06346e-18	1.000000
rad31	4.05050e-19	1.000000	4.05050e-19	1.000000
rad64	2.84448e-19	1.000000	2.84448e-19	1.000000
rad24	1.49659e-19	1.000000	1.49659e-19	1.000000
rad61	1.24169e-19	1.000000	1.24169e-19	1.000000
rad56	4.70015e-21	1.000000	4.70015e-21	1.000000
rad68syn	6.52925e-22	1.000000	6.52925e-22	1.000000
rad68anti	4.95636e-22	1.000000	4.95636e-22	1.000000
rad40syn	7.23008e-24	1.000000	7.23008e-24	1.000000
rad40anti	5.94142e-24	1.000000	5.94142e-24	1.000000
PAH8+H	8.32973e-25	1.000000	8.32973e-25	1.000000
rad47	7.14574e-25	1.000000	7.14574e-25	1.000000
rad73	2.35660e-25	1.000000	2.35660e-25	1.000000
rad71	1.27813e-27	1.000000	1.27813e-27	1.000000
rad19syn	2.99704e-32	1.000000	2.99704e-32	1.000000
rad8	4.45593e-53	1.000000	4.45593e-53	1.000000

10.0000000 Pa, 230.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.20761e-14 (1.00)	2.20761e-14 (1.00)
Formation of rad19	2.20710e-14 (1.000)	2.20710e-14 (1.000)
H-abstraction to cyc2enyl	5.13155e-18 (0.000232)	5.13155e-18 (0.000232)
H-abstraction to cyclenyl	3.75316e-21 (1.70e-07)	3.75316e-21 (1.70e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999356	0.999356	0.999356	0.999356
PhCHCCH2+H	0.000380602	0.999737	0.000380602	0.999737
Benzene+cycloprop-2-enylidene	0.000232448	0.999970	0.000232448	0.999970
rad6	9.81848e-06	0.999979	9.81848e-06	0.999979
PhCCH+CH3	5.93295e-06	0.999985	5.93295e-06	0.999985
PhCCCH3+H	3.98077e-06	0.999989	3.98077e-06	0.999989
C2H2+PhCH2	3.71930e-06	0.999993	3.71930e-06	0.999993
Ph+MeAc	3.38265e-06	0.999996	3.38265e-06	0.999996
rad9	1.33607e-06	0.999998	1.33607e-06	0.999998
rad67	1.03167e-06	0.999999	1.03167e-06	0.999999
rad35	4.42059e-07	0.999999	4.42059e-07	0.999999
Ph+Allene	1.90377e-07	0.999999	1.90377e-07	0.999999
Benzene+cycloprop-1-enylidene	1.70010e-07	1.000000	1.70010e-07	1.000000
PhCH2CCH+H	2.93084e-08	1.000000	2.93084e-08	1.000000
PAH7+H	1.82958e-08	1.000000	1.82958e-08	1.000000
rad28	1.38687e-08	1.000000	1.38687e-08	1.000000
rad37	1.24089e-08	1.000000	1.24089e-08	1.000000
rad2	1.06376e-08	1.000000	1.06376e-08	1.000000
rad30	8.13762e-09	1.000000	8.13762e-09	1.000000
rad39	5.13507e-09	1.000000	5.13507e-09	1.000000
rad7	2.08627e-09	1.000000	2.08627e-09	1.000000
rad26	2.03774e-09	1.000000	2.03774e-09	1.000000
rad15	9.92207e-10	1.000000	9.92207e-10	1.000000
rad10	8.41802e-10	1.000000	8.41802e-10	1.000000
rad1	7.40559e-10	1.000000	7.40559e-10	1.000000
rad11	7.13486e-10	1.000000	7.13486e-10	1.000000
rad23	4.49256e-10	1.000000	4.49256e-10	1.000000
PAH9+H	4.32586e-10	1.000000	4.32586e-10	1.000000
rad38	2.25273e-10	1.000000	2.25273e-10	1.000000
rad3	1.24753e-10	1.000000	1.24753e-10	1.000000
rad4	6.46251e-11	1.000000	6.46251e-11	1.000000
rad60syn	4.90421e-11	1.000000	4.90421e-11	1.000000
PAH10+CH3	4.61972e-11	1.000000	4.61972e-11	1.000000
PhcycC3H3_A+H	4.08645e-11	1.000000	4.08645e-11	1.000000
PAH3+H	2.98350e-11	1.000000	2.98350e-11	1.000000
rad60anti	2.46651e-11	1.000000	2.46651e-11	1.000000
rad45	1.67224e-11	1.000000	1.67224e-11	1.000000
rad46	1.30053e-11	1.000000	1.30053e-11	1.000000
rad13	6.44699e-12	1.000000	6.44699e-12	1.000000
rad59	5.78319e-12	1.000000	5.78319e-12	1.000000
rad43	1.62536e-12	1.000000	1.62536e-12	1.000000
rad22	1.42250e-12	1.000000	1.42250e-12	1.000000
rad36	1.05003e-12	1.000000	1.05003e-12	1.000000
rad54	6.43480e-13	1.000000	6.43480e-13	1.000000
Phenyl+cycC3H4	5.81829e-13	1.000000	0.000000	1.000000
PhcycC3H3_B+H	4.18587e-13	1.000000	4.18587e-13	1.000000
rad62	3.15694e-13	1.000000	3.15694e-13	1.000000
rad50	1.54719e-13	1.000000	1.54719e-13	1.000000
rad70	2.46132e-14	1.000000	2.46132e-14	1.000000
PAH1+H	1.59242e-14	1.000000	1.59242e-14	1.000000
rad14	1.27804e-14	1.000000	1.27804e-14	1.000000
rad27	9.16974e-15	1.000000	9.16974e-15	1.000000
rad33	8.90134e-15	1.000000	8.90134e-15	1.000000
rad55	8.58264e-15	1.000000	8.58264e-15	1.000000
rad12	7.35542e-15	1.000000	7.35542e-15	1.000000
rad25	4.97587e-15	1.000000	4.97587e-15	1.000000
rad58	1.65928e-15	1.000000	1.65928e-15	1.000000
rad52	1.56920e-15	1.000000	1.56920e-15	1.000000
rad19anti	1.24591e-15	1.000000	1.24591e-15	1.000000
rad34	6.80574e-16	1.000000	6.80574e-16	1.000000
rad51	6.79254e-16	1.000000	6.79254e-16	1.000000
rad41	3.55202e-16	1.000000	3.55202e-16	1.000000
rad42	1.90579e-16	1.000000	1.90579e-16	1.000000
rad5	6.38213e-17	1.000000	6.38213e-17	1.000000
rad18	3.76647e-17	1.000000	3.76647e-17	1.000000
rad65	1.73781e-17	1.000000	1.73781e-17	1.000000
rad20	7.83332e-18	1.000000	7.83332e-18	1.000000
rad21	4.97145e-18	1.000000	4.97145e-18	1.000000
rad53	1.95449e-18	1.000000	1.95449e-18	1.000000

rad64	5.56092e-19	1.000000	5.56092e-19	1.000000
rad31	4.23564e-19	1.000000	4.23564e-19	1.000000
rad61	2.66247e-19	1.000000	2.66247e-19	1.000000
rad24	1.42830e-19	1.000000	1.42830e-19	1.000000
rad56	1.15355e-20	1.000000	1.15355e-20	1.000000
rad68syn	1.62001e-21	1.000000	1.62001e-21	1.000000
rad68anti	1.22161e-21	1.000000	1.22161e-21	1.000000
rad40syn	2.23463e-23	1.000000	2.23463e-23	1.000000
rad40anti	1.83328e-23	1.000000	1.83328e-23	1.000000
PAH8+H	3.10449e-24	1.000000	3.10449e-24	1.000000
rad47	7.98864e-25	1.000000	7.98864e-25	1.000000
rad73	7.40068e-25	1.000000	7.40068e-25	1.000000
rad71	5.18563e-27	1.000000	5.18563e-27	1.000000
rad19syn	1.11383e-31	1.000000	1.11383e-31	1.000000
rad8	7.19731e-53	1.000000	7.19731e-53	1.000000

10.0000000 Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.45462e-14 (1.00)	2.45462e-14 (1.00)
Formation of rad19	2.45383e-14 (1.000)	2.45383e-14 (1.000)
H-abstraction to cyc2enyl	7.92234e-18 (0.000323)	7.92234e-18 (0.000323)
H-abstraction to cyclenyl	7.97958e-21 (3.25e-07)	7.97958e-21 (3.25e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999246	0.999246	0.999246	0.999246
PhCHCCH2+H	0.000399625	0.999646	0.000399625	0.999646
Benzene+cycloprop-2-enylidene	0.000322752	0.999968	0.000322752	0.999968
rad6	9.62413e-06	0.999978	9.62413e-06	0.999978
PhCCH+CH3	6.28872e-06	0.999984	6.28872e-06	0.999984
PhCCCH3+H	4.22531e-06	0.999989	4.22531e-06	0.999989
C2H2+PhCH2	4.07990e-06	0.999993	4.07990e-06	0.999993
Ph+MeAc	3.63992e-06	0.999996	3.63992e-06	0.999996
rad67	1.10341e-06	0.999997	1.10341e-06	0.999997
rad9	1.00462e-06	0.999998	1.00462e-06	0.999998
rad35	4.71518e-07	0.999999	4.71518e-07	0.999999
Benzene+cycloprop-1-enylidene	3.25084e-07	0.999999	3.25084e-07	0.999999
Ph+Allene	2.23448e-07	0.999999	2.23448e-07	0.999999
PhCH2CCH+H	3.48557e-08	0.999999	3.48557e-08	0.999999
PAH7+H	2.15366e-08	0.999999	2.15366e-08	0.999999
rad37	1.35966e-08	0.999999	1.35966e-08	0.999999
rad28	1.35733e-08	1.000000	1.35733e-08	1.000000
rad2	1.03204e-08	1.000000	1.03204e-08	1.000000
rad30	8.72679e-09	1.000000	8.72679e-09	1.000000
rad39	6.04443e-09	1.000000	6.04443e-09	1.000000
rad7	2.03225e-09	1.000000	2.03225e-09	1.000000
rad26	1.81818e-09	1.000000	1.81818e-09	1.000000
rad10	8.15156e-10	1.000000	8.15156e-10	1.000000
rad15	7.43049e-10	1.000000	7.43049e-10	1.000000
rad1	7.26091e-10	1.000000	7.26091e-10	1.000000
rad11	6.93535e-10	1.000000	6.93535e-10	1.000000
PAH9+H	4.90208e-10	1.000000	4.90208e-10	1.000000
rad23	4.26670e-10	1.000000	4.26670e-10	1.000000
rad38	2.57108e-10	1.000000	2.57108e-10	1.000000
rad3	1.20928e-10	1.000000	1.20928e-10	1.000000
rad4	6.28281e-11	1.000000	6.28281e-11	1.000000
PAH10+CH3	5.59022e-11	1.000000	5.59022e-11	1.000000
PhcycC3H3_A+H	5.45432e-11	1.000000	5.45432e-11	1.000000
rad60syn	5.41599e-11	1.000000	5.41599e-11	1.000000
PAH3+H	3.42077e-11	1.000000	3.42077e-11	1.000000
rad60anti	2.73104e-11	1.000000	2.73104e-11	1.000000
rad45	1.57884e-11	1.000000	1.57884e-11	1.000000
rad46	1.50315e-11	1.000000	1.50315e-11	1.000000
rad59	6.58903e-12	1.000000	6.58903e-12	1.000000
rad13	6.28992e-12	1.000000	6.28992e-12	1.000000
rad43	1.91179e-12	1.000000	1.91179e-12	1.000000
rad22	1.33110e-12	1.000000	1.33110e-12	1.000000
rad36	9.96060e-13	1.000000	9.96060e-13	1.000000
Phenyl+cycC3H4	8.50545e-13	1.000000	0.00000	1.000000
rad54	8.46760e-13	1.000000	8.46760e-13	1.000000
PhcycC3H3_B+H	6.79935e-13	1.000000	6.79935e-13	1.000000
rad62	3.73602e-13	1.000000	3.73602e-13	1.000000
rad50	1.89715e-13	1.000000	1.89715e-13	1.000000
rad70	3.32279e-14	1.000000	3.32279e-14	1.000000
PAH1+H	2.21887e-14	1.000000	2.21887e-14	1.000000
rad14	1.23512e-14	1.000000	1.23512e-14	1.000000
rad55	1.19047e-14	1.000000	1.19047e-14	1.000000
rad27	8.86797e-15	1.000000	8.86797e-15	1.000000

rad33	8.75023e-15	1.000000	8.75023e-15	1.000000
rad12	5.60589e-15	1.000000	5.60589e-15	1.000000
rad25	4.84503e-15	1.000000	4.84503e-15	1.000000
rad58	2.14574e-15	1.000000	2.14574e-15	1.000000
rad52	2.00739e-15	1.000000	2.00739e-15	1.000000
rad34	9.80607e-16	1.000000	9.80607e-16	1.000000
rad19anti	9.53139e-16	1.000000	9.53139e-16	1.000000
rad51	9.10957e-16	1.000000	9.10957e-16	1.000000
rad41	4.91515e-16	1.000000	4.91515e-16	1.000000
rad42	2.58575e-16	1.000000	2.58575e-16	1.000000
rad5	5.83552e-17	1.000000	5.83552e-17	1.000000
rad18	3.46776e-17	1.000000	3.46776e-17	1.000000
rad65	2.36797e-17	1.000000	2.36797e-17	1.000000
rad20	7.53225e-18	1.000000	7.53225e-18	1.000000
rad21	4.78670e-18	1.000000	4.78670e-18	1.000000
rad53	3.52511e-18	1.000000	3.52511e-18	1.000000
rad64	1.05860e-18	1.000000	1.05860e-18	1.000000
rad61	5.49575e-19	1.000000	5.49575e-19	1.000000
rad31	4.45785e-19	1.000000	4.45785e-19	1.000000
rad24	1.36255e-19	1.000000	1.36255e-19	1.000000
rad56	2.69463e-20	1.000000	2.69463e-20	1.000000
rad68syn	3.81684e-21	1.000000	3.81684e-21	1.000000
rad68anti	2.86016e-21	1.000000	2.86016e-21	1.000000
rad40syn	6.38330e-23	1.000000	6.38330e-23	1.000000
rad40anti	5.22494e-23	1.000000	5.22494e-23	1.000000
PAH8+H	1.04510e-23	1.000000	1.04510e-23	1.000000
rad73	2.15762e-24	1.000000	2.15762e-24	1.000000
rad47	9.04778e-25	1.000000	9.04778e-25	1.000000
rad71	1.88078e-26	1.000000	1.88078e-26	1.000000
rad19syn	4.33477e-31	1.000000	4.33477e-31	1.000000
rad8	1.18324e-52	1.000000	1.18324e-52	1.000000

10.0000000 Pa, 250.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.71048e-14 (1.00)	2.71048e-14 (1.00)
Formation of rad19	2.70930e-14 (1.000)	2.70930e-14 (1.000)
H-abstraction to cyc2enyl	1.17991e-17 (0.000435)	1.17991e-17 (0.000435)
H-abstraction to cyclenyl	1.59554e-20 (5.89e-07)	1.59554e-20 (5.89e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999112	0.999112	0.999112	0.999112
Benzene+cycloprop-2-enylidene	0.000435312	0.999548	0.000435312	0.999548
PhCHCCH2+H	0.000420341	0.999968	0.000420341	0.999968
rad6	9.39755e-06	0.999977	9.39755e-06	0.999977
PhCCH+CH3	6.67723e-06	0.999984	6.67723e-06	0.999984
PhCCCH3+H	4.49322e-06	0.999989	4.49322e-06	0.999989
C2H2+PhCH2	4.48387e-06	0.999993	4.48387e-06	0.999993
Ph+MeAc	3.92567e-06	0.999997	3.92567e-06	0.999997
rad67	1.18294e-06	0.999998	1.18294e-06	0.999998
rad9	7.64831e-07	0.999999	7.64831e-07	0.999999
Benzene+cycloprop-1-enylidene	5.88656e-07	0.999999	5.88656e-07	0.999999
rad35	5.04092e-07	1.000000	5.04092e-07	1.000000
Ph+Allene	2.62696e-07	1.000000	2.62696e-07	1.000000
PhCH2CCH+H	4.15585e-08	1.000000	4.15585e-08	1.000000
PAH7+H	2.53249e-08	1.000000	2.53249e-08	1.000000
rad37	1.49402e-08	1.000000	1.49402e-08	1.000000
rad28	1.32310e-08	1.000000	1.32310e-08	1.000000
rad2	9.99744e-09	1.000000	9.99744e-09	1.000000
rad30	9.38307e-09	1.000000	9.38307e-09	1.000000
rad39	7.10638e-09	1.000000	7.10638e-09	1.000000
rad7	1.97273e-09	1.000000	1.97273e-09	1.000000
rad26	1.64093e-09	1.000000	1.64093e-09	1.000000
rad10	7.88327e-10	1.000000	7.88327e-10	1.000000
rad1	7.11433e-10	1.000000	7.11433e-10	1.000000
rad11	6.71875e-10	1.000000	6.71875e-10	1.000000
rad15	5.63541e-10	1.000000	5.63541e-10	1.000000
PAH9+H	5.57306e-10	1.000000	5.57306e-10	1.000000
rad23	4.04390e-10	1.000000	4.04390e-10	1.000000
rad38	2.94490e-10	1.000000	2.94490e-10	1.000000
rad3	1.17017e-10	1.000000	1.17017e-10	1.000000
PhcycC3H3_A+H	7.28881e-11	1.000000	7.28881e-11	1.000000
PAH10+CH3	6.79566e-11	1.000000	6.79566e-11	1.000000
rad4	6.09903e-11	1.000000	6.09903e-11	1.000000
rad60syn	6.00372e-11	1.000000	6.00372e-11	1.000000
PAH3+H	3.94201e-11	1.000000	3.94201e-11	1.000000
rad60anti	3.03562e-11	1.000000	3.03562e-11	1.000000
rad46	1.74435e-11	1.000000	1.74435e-11	1.000000

rad45	1.48861e-11	1.00000	1.48861e-11	1.00000
rad59	7.54314e-12	1.00000	7.54314e-12	1.00000
rad13	6.11611e-12	1.00000	6.11611e-12	1.00000
rad43	2.25805e-12	1.00000	2.25805e-12	1.00000
rad22	1.24361e-12	1.00000	1.24361e-12	1.00000
Phenyl+cycC3H4	1.23952e-12	1.00000	0.00000	1.00000
rad54	1.11514e-12	1.00000	1.11514e-12	1.00000
PhcycC3H3_B+H	1.08926e-12	1.00000	1.08926e-12	1.00000
rad36	9.44086e-13	1.00000	9.44086e-13	1.00000
rad62	4.43954e-13	1.00000	4.43954e-13	1.00000
rad50	2.34003e-13	1.00000	2.34003e-13	1.00000
rad70	4.49759e-14	1.00000	4.49759e-14	1.00000
PAH1+H	3.09844e-14	1.00000	3.09844e-14	1.00000
rad55	1.65035e-14	1.00000	1.65035e-14	1.00000
rad14	1.19180e-14	1.00000	1.19180e-14	1.00000
rad33	8.57340e-15	1.00000	8.57340e-15	1.00000
rad27	8.56741e-15	1.00000	8.56741e-15	1.00000
rad25	4.70281e-15	1.00000	4.70281e-15	1.00000
rad12	4.32970e-15	1.00000	4.32970e-15	1.00000
rad58	2.79047e-15	1.00000	2.79047e-15	1.00000
rad52	2.58461e-15	1.00000	2.58461e-15	1.00000
rad34	1.41334e-15	1.00000	1.41334e-15	1.00000
rad51	1.22954e-15	1.00000	1.22954e-15	1.00000
rad19anti	7.40347e-16	1.00000	7.40347e-16	1.00000
rad41	6.80258e-16	1.00000	6.80258e-16	1.00000
rad42	3.51129e-16	1.00000	3.51129e-16	1.00000
rad5	5.34798e-17	1.00000	5.34798e-17	1.00000
rad65	3.24529e-17	1.00000	3.24529e-17	1.00000
rad18	3.19795e-17	1.00000	3.19795e-17	1.00000
rad20	7.25674e-18	1.00000	7.25674e-18	1.00000
rad53	6.24231e-18	1.00000	6.24231e-18	1.00000
rad21	4.61800e-18	1.00000	4.61800e-18	1.00000
rad64	1.96518e-18	1.00000	1.96518e-18	1.00000
rad61	1.09628e-18	1.00000	1.09628e-18	1.00000
rad31	4.72029e-19	1.00000	4.72029e-19	1.00000
rad24	1.29880e-19	1.00000	1.29880e-19	1.00000
rad56	6.01647e-20	1.00000	6.01647e-20	1.00000
rad68syn	8.58058e-21	1.00000	8.58058e-21	1.00000
rad68anti	6.39247e-21	1.00000	6.39247e-21	1.00000
rad40syn	1.69826e-22	1.00000	1.69826e-22	1.00000
rad40anti	1.38640e-22	1.00000	1.38640e-22	1.00000
PAH8+H	3.20806e-23	1.00000	3.20806e-23	1.00000
rad73	5.87357e-24	1.00000	5.87357e-24	1.00000
rad47	1.03902e-24	1.00000	1.03902e-24	1.00000
rad71	6.16070e-26	1.00000	6.16070e-26	1.00000
rad19syn	1.76222e-30	1.00000	1.76222e-30	1.00000
rad8	1.97833e-52	1.00000	1.97833e-52	1.00000

10.000000 Pa, 260.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.97464e-14 (1.00)	2.97464e-14 (1.00)
Formation of rad19	2.97293e-14 (0.999)	2.97293e-14 (0.999)
H-abstraction to cyc2enyl	1.70236e-17 (0.000572)	1.70236e-17 (0.000572)
H-abstraction to cyclenyl	3.02186e-20 (1.02e-06)	3.02186e-20 (1.02e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998951	0.998951	0.998951	0.998951
Benzene+cycloprop-2-enylidene	0.000572291	0.999523	0.000572291	0.999523
PhCHCCH2+H	0.000442907	0.999966	0.000442907	0.999966
rad6	9.13868e-06	0.999975	9.13868e-06	0.999975
PhCCH+CH3	7.10116e-06	0.999982	7.10116e-06	0.999982
C2H2+PhCH2	4.93575e-06	0.999987	4.93575e-06	0.999987
PhCCCH3+H	4.78674e-06	0.999992	4.78674e-06	0.999992
Ph+MeAc	4.24313e-06	0.999996	4.24313e-06	0.999996
rad67	1.27115e-06	0.999998	1.27115e-06	0.999998
Benzene+cycloprop-1-enylidene	1.01588e-06	0.999999	1.01588e-06	0.999999
rad9	5.89368e-07	0.999999	5.89368e-07	0.999999
rad35	5.40129e-07	1.000000	5.40129e-07	1.000000
Ph+Allene	3.09199e-07	1.000000	3.09199e-07	1.000000
PhCH2CCH+H	4.96467e-08	1.000000	4.96467e-08	1.000000
PAH7+H	2.97408e-08	1.000000	2.97408e-08	1.000000
rad37	1.64620e-08	1.000000	1.64620e-08	1.000000
rad28	1.28430e-08	1.000000	1.28430e-08	1.000000
rad30	1.01145e-08	1.000000	1.01145e-08	1.000000
rad2	9.66177e-09	1.000000	9.66177e-09	1.000000
rad39	8.34293e-09	1.000000	8.34293e-09	1.000000
rad7	1.90769e-09	1.000000	1.90769e-09	1.000000

rad26	1.49491e-09	1.00000	1.49491e-09	1.00000
rad10	7.60728e-10	1.00000	7.60728e-10	1.00000
rad1	6.96038e-10	1.00000	6.96038e-10	1.00000
rad11	6.48500e-10	1.00000	6.48500e-10	1.00000
PAH9+H	6.35416e-10	1.00000	6.35416e-10	1.00000
rad15	4.32691e-10	1.00000	4.32691e-10	1.00000
rad23	3.82356e-10	1.00000	3.82356e-10	1.00000
rad38	3.38403e-10	1.00000	3.38403e-10	1.00000
rad3	1.12955e-10	1.00000	1.12955e-10	1.00000
PhcycC3H3_A+H	9.74470e-11	1.00000	9.74470e-11	1.00000
PAH10+CH3	8.29535e-11	1.00000	8.29535e-11	1.00000
rad60syn	6.67950e-11	1.00000	6.67950e-11	1.00000
rad4	5.90767e-11	1.00000	5.90767e-11	1.00000
PAH3+H	4.56451e-11	1.00000	4.56451e-11	1.00000
rad60anti	3.38676e-11	1.00000	3.38676e-11	1.00000
rad46	2.03150e-11	1.00000	2.03150e-11	1.00000
rad45	1.40114e-11	1.00000	1.40114e-11	1.00000
rad59	8.67483e-12	1.00000	8.67483e-12	1.00000
rad13	5.92540e-12	1.00000	5.92540e-12	1.00000
rad43	2.67708e-12	1.00000	2.67708e-12	1.00000
Phenyl+cycC3H4	1.79997e-12	1.00000	0.00000	1.00000
PhcycC3H3_B+H	1.72243e-12	1.00000	1.72243e-12	1.00000
rad54	1.46840e-12	1.00000	1.46840e-12	1.00000
rad22	1.15954e-12	1.00000	1.15954e-12	1.00000
rad36	8.93810e-13	1.00000	8.93810e-13	1.00000
rad62	5.29480e-13	1.00000	5.29480e-13	1.00000
rad50	2.90112e-13	1.00000	2.90112e-13	1.00000
rad70	6.09570e-14	1.00000	6.09570e-14	1.00000
PAH1+H	4.33072e-14	1.00000	4.33072e-14	1.00000
rad55	2.28415e-14	1.00000	2.28415e-14	1.00000
rad14	1.14740e-14	1.00000	1.14740e-14	1.00000
rad33	8.37015e-15	1.00000	8.37015e-15	1.00000
rad27	8.26139e-15	1.00000	8.26139e-15	1.00000
rad25	4.54900e-15	1.00000	4.54900e-15	1.00000
rad58	3.64622e-15	1.00000	3.64622e-15	1.00000
rad12	3.38789e-15	1.00000	3.38789e-15	1.00000
rad52	3.34585e-15	1.00000	3.34585e-15	1.00000
rad34	2.03467e-15	1.00000	2.03467e-15	1.00000
rad51	1.66790e-15	1.00000	1.66790e-15	1.00000
rad41	9.40958e-16	1.00000	9.40958e-16	1.00000
rad19anti	5.83791e-16	1.00000	5.83791e-16	1.00000
rad42	4.76823e-16	1.00000	4.76823e-16	1.00000
rad5	4.90622e-17	1.00000	4.90622e-17	1.00000
rad65	4.46680e-17	1.00000	4.46680e-17	1.00000
rad18	2.95223e-17	1.00000	2.95223e-17	1.00000
rad53	1.08562e-17	1.00000	1.08562e-17	1.00000
rad20	7.00132e-18	1.00000	7.00132e-18	1.00000
rad21	4.46195e-18	1.00000	4.46195e-18	1.00000
rad64	3.56169e-18	1.00000	3.56169e-18	1.00000
rad61	2.11936e-18	1.00000	2.11936e-18	1.00000
rad31	5.02797e-19	1.00000	5.02797e-19	1.00000
rad56	1.28804e-19	1.00000	1.28804e-19	1.00000
rad24	1.23669e-19	1.00000	1.23669e-19	1.00000
rad68syn	1.84719e-20	1.00000	1.84719e-20	1.00000
rad68anti	1.36881e-20	1.00000	1.36881e-20	1.00000
rad40syn	4.23356e-22	1.00000	4.23356e-22	1.00000
rad40anti	3.44636e-22	1.00000	3.44636e-22	1.00000
PAH8+H	9.05118e-23	1.00000	9.05118e-23	1.00000
rad73	1.49970e-23	1.00000	1.49970e-23	1.00000
rad47	1.21096e-24	1.00000	1.21096e-24	1.00000
rad71	1.83887e-25	1.00000	1.83887e-25	1.00000
rad19syn	7.46115e-30	1.00000	7.46115e-30	1.00000
rad8	3.36212e-52	1.00000	3.36212e-52	1.00000

10.000000 Pa, 270.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.24655e-14 (1.00)	3.24655e-14 (1.00)
Formation of rad19	3.24415e-14 (0.999)	3.24415e-14 (0.999)
H-abstraction to cyc2enyl	2.38790e-17 (0.000736)	2.38790e-17 (0.000736)
H-abstraction to cyclenyl	5.45397e-20 (1.68e-06)	5.45397e-20 (1.68e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998761	0.998761	0.998761	0.998761
Benzene+cycloprop-2-enylidene	0.000735519	0.999497	0.000735519	0.999497
PhCHCCH2+H	0.000467489	0.999964	0.000467489	0.999964
rad6	8.84826e-06	0.999973	8.84826e-06	0.999973
PhCCH+CH3	7.56321e-06	0.999981	7.56321e-06	0.999981

C2H2+PhCH2	5.44028e-06	0.999986	5.44028e-06	0.999986
PhCCCH3+H	5.10827e-06	0.999991	5.10827e-06	0.999991
Ph+MeAc	4.59583e-06	0.999996	4.59583e-06	0.999996
Benzene+cycloprop-1-enylidene	1.67993e-06	0.999997	1.67993e-06	0.999997
rad67	1.36900e-06	0.999999	1.36900e-06	0.999999
rad35	5.80004e-07	0.999999	5.80004e-07	0.999999
rad9	4.59575e-07	1.000000	4.59575e-07	1.000000
Ph+Allene	3.64174e-07	1.000000	3.64174e-07	1.000000
PhCH2CCH+H	5.93890e-08	1.000000	5.93890e-08	1.000000
PAH7+H	3.48730e-08	1.000000	3.48730e-08	1.000000
rad37	1.81870e-08	1.000000	1.81870e-08	1.000000
rad28	1.24109e-08	1.000000	1.24109e-08	1.000000
rad30	1.09298e-08	1.000000	1.09298e-08	1.000000
rad39	9.77811e-09	1.000000	9.77811e-09	1.000000
rad2	9.30872e-09	1.000000	9.30872e-09	1.000000
rad7	1.83727e-09	1.000000	1.83727e-09	1.000000
rad26	1.37190e-09	1.000000	1.37190e-09	1.000000
rad10	7.31982e-10	1.000000	7.31982e-10	1.000000
PAH9+H	7.26282e-10	1.000000	7.26282e-10	1.000000
rad1	6.79523e-10	1.000000	6.79523e-10	1.000000
rad11	6.23460e-10	1.000000	6.23460e-10	1.000000
rad38	3.89988e-10	1.000000	3.89988e-10	1.000000
rad23	3.60549e-10	1.000000	3.60549e-10	1.000000
rad15	3.36248e-10	1.000000	3.36248e-10	1.000000
PhcycC3H3_A+H	1.30246e-10	1.000000	1.30246e-10	1.000000
rad3	1.08704e-10	1.000000	1.08704e-10	1.000000
PAH10+CH3	1.01632e-10	1.000000	1.01632e-10	1.000000
rad60syn	7.45726e-11	1.000000	7.45726e-11	1.000000
rad4	5.70657e-11	1.000000	5.70657e-11	1.000000
PAH3+H	5.30913e-11	1.000000	5.30913e-11	1.000000
rad60anti	3.79199e-11	1.000000	3.79199e-11	1.000000
rad46	2.37326e-11	1.000000	2.37326e-11	1.000000
rad45	1.31616e-11	1.000000	1.31616e-11	1.000000
rad59	1.00190e-11	1.000000	1.00190e-11	1.000000
rad13	5.71811e-12	1.000000	5.71811e-12	1.000000
rad43	3.18452e-12	1.000000	3.18452e-12	1.000000
PhcycC3H3_B+H	2.68990e-12	1.000000	2.68990e-12	1.000000
Phenyl+cycC3H4	2.60320e-12	1.000000	0.000000	1.000000
rad54	1.93164e-12	1.000000	1.93164e-12	1.000000
rad22	1.07860e-12	1.000000	1.07860e-12	1.000000
rad36	8.45031e-13	1.000000	8.45031e-13	1.000000
rad62	6.33462e-13	1.000000	6.33462e-13	1.000000
rad50	3.61223e-13	1.000000	3.61223e-13	1.000000
rad70	8.26225e-14	1.000000	8.26225e-14	1.000000
PAH1+H	6.05156e-14	1.000000	6.05156e-14	1.000000
rad55	3.15302e-14	1.000000	3.15302e-14	1.000000
rad14	1.10149e-14	1.000000	1.10149e-14	1.000000
rad33	8.14048e-15	1.000000	8.14048e-15	1.000000
rad27	7.94557e-15	1.000000	7.94557e-15	1.000000
rad58	4.78270e-15	1.000000	4.78270e-15	1.000000
rad25	4.38377e-15	1.000000	4.38377e-15	1.000000
rad52	4.34990e-15	1.000000	4.34990e-15	1.000000
rad34	2.92185e-15	1.000000	2.92185e-15	1.000000
rad12	2.68526e-15	1.000000	2.68526e-15	1.000000
rad51	2.27072e-15	1.000000	2.27072e-15	1.000000
rad41	1.29991e-15	1.000000	1.29991e-15	1.000000
rad42	6.47012e-16	1.000000	6.47012e-16	1.000000
rad19anti	4.67296e-16	1.000000	4.67296e-16	1.000000
rad65	6.16548e-17	1.000000	6.16548e-17	1.000000
rad5	4.50093e-17	1.000000	4.50093e-17	1.000000
rad18	2.72682e-17	1.000000	2.72682e-17	1.000000
rad53	1.85443e-17	1.000000	1.85443e-17	1.000000
rad20	6.76169e-18	1.000000	6.76169e-18	1.000000
rad64	6.30715e-18	1.000000	6.30715e-18	1.000000
rad21	4.31586e-18	1.000000	4.31586e-18	1.000000
rad61	3.97871e-18	1.000000	3.97871e-18	1.000000
rad31	5.38801e-19	1.000000	5.38801e-19	1.000000
rad56	2.65009e-19	1.000000	2.65009e-19	1.000000
rad24	1.17596e-19	1.000000	1.17596e-19	1.000000
rad68syn	3.81786e-20	1.000000	3.81786e-20	1.000000
rad68anti	2.81549e-20	1.000000	2.81549e-20	1.000000
rad40syn	9.93694e-22	1.000000	9.93694e-22	1.000000
rad40anti	8.06614e-22	1.000000	8.06614e-22	1.000000
PAH8+H	2.36341e-22	1.000000	2.36341e-22	1.000000
rad73	3.60484e-23	1.000000	3.60484e-23	1.000000
rad47	1.43384e-24	1.000000	1.43384e-24	1.000000
rad71	5.04119e-25	1.000000	5.04119e-25	1.000000
rad19syn	3.27852e-29	1.000000	3.27852e-29	1.000000
rad8	5.80602e-52	1.000000	5.80602e-52	1.000000

10.0000000 Pa, 280.000000 K

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Rate constant | True (fraction) | Effective (fraction)
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Total | 3.52572e-14 (1.00 ) | 3.52572e-14 (1.00 )
Formation of rad19 | 3.52244e-14 (0.999 ) | 3.52244e-14 (0.999 )
H-abstraction to cyc2enyl | 3.26639e-17 (0.000926) | 3.26639e-17 (0.000926)
H-abstraction to cyclenyl | 9.42926e-20 (2.67e-06) | 9.42926e-20 (2.67e-06)

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species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998540	0.998540	0.998540	0.998540
Benzene+cycloprop-2-enylidene	0.000926445	0.999467	0.000926445	0.999467
PhCHCCH2+H	0.000494261	0.999961	0.000494261	0.999961
rad6	8.52789e-06	0.999970	8.52789e-06	0.999970
PhCCH+CH3	8.06612e-06	0.999978	8.06612e-06	0.999978
C2H2+PhCH2	6.00244e-06	0.999984	6.00244e-06	0.999984
PhCCCH3+H	5.46033e-06	0.999989	5.46033e-06	0.999989
Ph+MeAc	4.98761e-06	0.999994	4.98761e-06	0.999994
Benzene+cycloprop-1-enylidene	2.67442e-06	0.999997	2.67442e-06	0.999997
rad67	1.47755e-06	0.999998	1.47755e-06	0.999998
rad35	6.24130e-07	0.999999	6.24130e-07	0.999999
Ph+Allene	4.29007e-07	0.999999	4.29007e-07	0.999999
rad9	3.62584e-07	1.000000	3.62584e-07	1.000000
PhCH2CCH+H	7.10971e-08	1.000000	7.10971e-08	1.000000
PAH7+H	4.08174e-08	1.000000	4.08174e-08	1.000000
rad37	2.01435e-08	1.000000	2.01435e-08	1.000000
rad28	1.19380e-08	1.000000	1.19380e-08	1.000000
rad30	1.18388e-08	1.000000	1.18388e-08	1.000000
rad39	1.14380e-08	1.000000	1.14380e-08	1.000000
rad2	8.93611e-09	1.000000	8.93611e-09	1.000000
rad7	1.76184e-09	1.000000	1.76184e-09	1.000000
rad26	1.26577e-09	1.000000	1.26577e-09	1.000000
PAH9+H	8.31878e-10	1.000000	8.31878e-10	1.000000
rad10	7.01895e-10	1.000000	7.01895e-10	1.000000
rad1	6.61637e-10	1.000000	6.61637e-10	1.000000
rad11	5.96865e-10	1.000000	5.96865e-10	1.000000
rad38	4.50565e-10	1.000000	4.50565e-10	1.000000
rad23	3.38987e-10	1.000000	3.38987e-10	1.000000
rad15	2.64424e-10	1.000000	2.64424e-10	1.000000
PhcycC3H3_A+H	1.73914e-10	1.000000	1.73914e-10	1.000000
PAH10+CH3	1.24909e-10	1.000000	1.24909e-10	1.000000
rad3	1.04246e-10	1.000000	1.04246e-10	1.000000
rad60syn	8.35298e-11	1.000000	8.35298e-11	1.000000
PAH3+H	6.20082e-11	1.000000	6.20082e-11	1.000000
rad4	5.49462e-11	1.000000	5.49462e-11	1.000000
rad60anti	4.25997e-11	1.000000	4.25997e-11	1.000000
rad46	2.77970e-11	1.000000	2.77970e-11	1.000000
rad45	1.23359e-11	1.000000	1.23359e-11	1.000000
rad59	1.16172e-11	1.000000	1.16172e-11	1.000000
rad13	5.49511e-12	1.000000	5.49511e-12	1.000000
PhcycC3H3_B+H	4.14973e-12	1.000000	4.14973e-12	1.000000
rad43	3.79911e-12	1.000000	3.79911e-12	1.000000
Phenyl+cycC3H4	3.74742e-12	1.000000	0.000000	1.000000
rad54	2.53649e-12	1.000000	2.53649e-12	1.000000
rad22	1.00060e-12	1.000000	1.00060e-12	1.000000
rad36	7.97637e-13	1.000000	7.97637e-13	1.000000
rad62	7.59821e-13	1.000000	7.59821e-13	1.000000
rad50	4.51311e-13	1.000000	4.51311e-13	1.000000
rad70	1.11867e-13	1.000000	1.11867e-13	1.000000
PAH1+H	8.44422e-14	1.000000	8.44422e-14	1.000000
rad55	4.33707e-14	1.000000	4.33707e-14	1.000000
rad14	1.05389e-14	1.000000	1.05389e-14	1.000000
rad33	7.88514e-15	1.000000	7.88514e-15	1.000000
rad27	7.61760e-15	1.000000	7.61760e-15	1.000000
rad58	6.29149e-15	1.000000	6.29149e-15	1.000000
rad52	5.67315e-15	1.000000	5.67315e-15	1.000000
rad25	4.20770e-15	1.000000	4.20770e-15	1.000000
rad34	4.18035e-15	1.000000	4.18035e-15	1.000000
rad51	3.09824e-15	1.000000	3.09824e-15	1.000000
rad12	2.15573e-15	1.000000	2.15573e-15	1.000000
rad41	1.79219e-15	1.000000	1.79219e-15	1.000000
rad42	8.76563e-16	1.000000	8.76563e-16	1.000000
rad19anti	3.79707e-16	1.000000	3.79707e-16	1.000000
rad65	8.52192e-17	1.000000	8.52192e-17	1.000000
rad5	4.12564e-17	1.000000	4.12564e-17	1.000000
rad53	3.11101e-17	1.000000	3.11101e-17	1.000000
rad18	2.51882e-17	1.000000	2.51882e-17	1.000000
rad64	1.09180e-17	1.000000	1.09180e-17	1.000000
rad61	7.26242e-18	1.000000	7.26242e-18	1.000000

rad20	6.53445e-18	1.000000	6.53445e-18	1.000000
rad21	4.17763e-18	1.000000	4.17763e-18	1.000000
rad31	5.81013e-19	1.000000	5.81013e-19	1.000000
rad56	5.24869e-19	1.000000	5.24869e-19	1.000000
rad24	1.11651e-19	1.000000	1.11651e-19	1.000000
rad68syn	7.59022e-20	1.000000	7.59022e-20	1.000000
rad68anti	5.57337e-20	1.000000	5.57337e-20	1.000000
rad40syn	2.20486e-21	1.000000	2.20486e-21	1.000000
rad40anti	1.78479e-21	1.000000	1.78479e-21	1.000000
PAH8+H	5.74625e-22	1.000000	5.74625e-22	1.000000
rad73	8.18352e-23	1.000000	8.18352e-23	1.000000
rad47	1.72661e-24	1.000000	1.72661e-24	1.000000
rad71	1.27838e-24	1.000000	1.27838e-24	1.000000
rad19syn	1.48911e-28	1.000000	1.48911e-28	1.000000
rad8	1.01866e-51	1.000000	1.01866e-51	1.000000

10.0000000 Pa, 290.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.81171e-14 (1.00)	3.81171e-14 (1.00)
Formation of rad19	3.80733e-14 (0.999)	3.80733e-14 (0.999)
H-abstraction to cyc2enyl	4.36868e-17 (0.00115)	4.36868e-17 (0.00115)
H-abstraction to cyclenyl	1.56861e-19 (4.12e-06)	1.56861e-19 (4.12e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998288	0.998288	0.998288	0.998288
Benzene+cycloprop-2-enylidene	0.00114612	0.999435	0.00114612	0.999435
PhCHCCH2+H	0.000523410	0.999958	0.000523410	0.999958
PhCCH+CH3	8.61265e-06	0.999967	8.61265e-06	0.999967
rad6	8.17999e-06	0.999975	8.17999e-06	0.999975
C2H2+PhCH2	6.62740e-06	0.999981	6.62740e-06	0.999981
PhCCCH3+H	5.84559e-06	0.999987	5.84559e-06	0.999987
Ph+MeAc	5.42261e-06	0.999993	5.42261e-06	0.999993
Benzene+cycloprop-1-enylidene	4.11523e-06	0.999997	4.11523e-06	0.999997
rad67	1.59796e-06	0.999998	1.59796e-06	0.999998
rad35	6.72948e-07	0.999999	6.72948e-07	0.999999
Ph+Allene	5.05247e-07	1.000000	5.05247e-07	1.000000
rad9	2.89408e-07	1.000000	2.89408e-07	1.000000
PhCH2CCH+H	8.51307e-08	1.000000	8.51307e-08	1.000000
PAH7+H	4.76788e-08	1.000000	4.76788e-08	1.000000
rad37	2.23629e-08	1.000000	2.23629e-08	1.000000
rad39	1.33508e-08	1.000000	1.33508e-08	1.000000
rad30	1.28520e-08	1.000000	1.28520e-08	1.000000
rad28	1.14280e-08	1.000000	1.14280e-08	1.000000
rad2	8.54352e-09	1.000000	8.54352e-09	1.000000
rad7	1.68187e-09	1.000000	1.68187e-09	1.000000
rad26	1.17205e-09	1.000000	1.17205e-09	1.000000
PAH9+H	9.54432e-10	1.000000	9.54432e-10	1.000000
rad10	6.70420e-10	1.000000	6.70420e-10	1.000000
rad1	6.42245e-10	1.000000	6.42245e-10	1.000000
rad11	5.68877e-10	1.000000	5.68877e-10	1.000000
rad38	5.21653e-10	1.000000	5.21653e-10	1.000000
rad23	3.17716e-10	1.000000	3.17716e-10	1.000000
PhcycC3H3_A+H	2.31829e-10	1.000000	2.31829e-10	1.000000
rad15	2.10409e-10	1.000000	2.10409e-10	1.000000
PAH10+CH3	1.53909e-10	1.000000	1.53909e-10	1.000000
rad3	9.95857e-11	1.000000	9.95857e-11	1.000000
rad60syn	9.38488e-11	1.000000	9.38488e-11	1.000000
PAH3+H	7.26932e-11	1.000000	7.26932e-11	1.000000
rad4	5.27169e-11	1.000000	5.27169e-11	1.000000
rad60anti	4.80059e-11	1.000000	4.80059e-11	1.000000
rad46	3.26254e-11	1.000000	3.26254e-11	1.000000
rad59	1.35183e-11	1.000000	1.35183e-11	1.000000
rad45	1.15346e-11	1.000000	1.15346e-11	1.000000
PhcycC3H3_B+H	6.32391e-12	1.000000	6.32391e-12	1.000000
Phenyl+cycC3H4	5.36584e-12	1.000000	0.000000	1.000000
rad13	5.25777e-12	1.000000	5.25777e-12	1.000000
rad43	4.54322e-12	1.000000	4.54322e-12	1.000000
rad54	3.32228e-12	1.000000	3.32228e-12	1.000000
rad22	9.25489e-13	1.000000	9.25489e-13	1.000000
rad62	9.13212e-13	1.000000	9.13212e-13	1.000000
rad36	7.51591e-13	1.000000	7.51591e-13	1.000000
rad50	5.65312e-13	1.000000	5.65312e-13	1.000000
rad70	1.51137e-13	1.000000	1.51137e-13	1.000000
PAH1+H	1.17526e-13	1.000000	1.17526e-13	1.000000
rad55	5.93972e-14	1.000000	5.93972e-14	1.000000
rad14	1.00458e-14	1.000000	1.00458e-14	1.000000
rad58	8.29166e-15	1.000000	8.29166e-15	1.000000

rad33	7.60555e-15	1.00000	7.60555e-15	1.00000
rad52	7.41380e-15	1.00000	7.41380e-15	1.00000
rad27	7.27669e-15	1.00000	7.27669e-15	1.00000
rad34	5.95188e-15	1.00000	5.95188e-15	1.00000
rad51	4.23062e-15	1.00000	4.23062e-15	1.00000
rad25	4.02176e-15	1.00000	4.02176e-15	1.00000
rad41	2.46402e-15	1.00000	2.46402e-15	1.00000
rad12	1.75289e-15	1.00000	1.75289e-15	1.00000
rad42	1.18472e-15	1.00000	1.18472e-15	1.00000
rad19anti	3.13309e-16	1.00000	3.13309e-16	1.00000
rad65	1.17781e-16	1.00000	1.17781e-16	1.00000
rad53	5.12408e-17	1.00000	5.12408e-17	1.00000
rad5	3.77590e-17	1.00000	3.77590e-17	1.00000
rad18	2.32598e-17	1.00000	2.32598e-17	1.00000
rad64	1.84790e-17	1.00000	1.84790e-17	1.00000
rad61	1.28984e-17	1.00000	1.28984e-17	1.00000
rad20	6.31705e-18	1.00000	6.31705e-18	1.00000
rad21	4.04568e-18	1.00000	4.04568e-18	1.00000
rad56	1.00194e-18	1.00000	1.00194e-18	1.00000
rad31	6.30721e-19	1.00000	6.30721e-19	1.00000
rad68syn	1.45354e-19	1.00000	1.45354e-19	1.00000
rad68anti	1.06325e-19	1.00000	1.06325e-19	1.00000
rad24	1.05833e-19	1.00000	1.05833e-19	1.00000
rad40syn	4.64069e-21	1.00000	4.64069e-21	1.00000
rad40anti	3.74669e-21	1.00000	3.74669e-21	1.00000
PAH8+H	1.30801e-21	1.00000	1.30801e-21	1.00000
rad73	1.75975e-22	1.00000	1.75975e-22	1.00000
rad71	3.01788e-24	1.00000	3.01788e-24	1.00000
rad47	2.11677e-24	1.00000	2.11677e-24	1.00000
rad19syn	6.95965e-28	1.00000	6.95965e-28	1.00000
rad8	1.81581e-51	1.00000	1.81581e-51	1.00000

10.0000000 Pa, 300.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.34809e-14 (1.00)	5.34809e-14 (1.00)
Formation of rad19	5.34010e-14 (0.999)	5.34010e-14 (0.999)
H-abstraction to cyc2enyl	7.95823e-17 (0.00149)	7.95823e-17 (0.00149)
H-abstraction to cyclenyl	3.44981e-19 (6.45e-06)	3.44981e-19 (6.45e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997940	0.997940	0.997940	0.997940
Benzene+cycloprop-2-enylidene	0.00148805	0.999428	0.00148805	0.999428
PhCHCCH2+H	0.000523283	0.999952	0.000523283	0.999952
PhCCH+CH3	9.66419e-06	0.999961	9.66419e-06	0.999961
C2H2+PhCH2	8.28585e-06	0.999970	8.28585e-06	0.999970
rad6	6.61772e-06	0.999976	6.61772e-06	0.999976
Benzene+cycloprop-1-enylidene	6.45054e-06	0.999983	6.45054e-06	0.999983
PhCCCH3+H	6.21432e-06	0.999989	6.21432e-06	0.999989
Ph+MeAc	5.81351e-06	0.999995	5.81351e-06	0.999995
rad9	2.18485e-06	0.999997	2.18485e-06	0.999997
rad67	1.74670e-06	0.999999	1.74670e-06	0.999999
rad35	7.22514e-07	0.999999	7.22514e-07	0.999999
Ph+Allene	5.93474e-07	1.000000	5.93474e-07	1.000000
PhCH2CCH+H	1.21131e-07	1.000000	1.21131e-07	1.000000
PAH7+H	7.00774e-08	1.000000	7.00774e-08	1.000000
rad37	2.76107e-08	1.000000	2.76107e-08	1.000000
rad39	1.72506e-08	1.000000	1.72506e-08	1.000000
rad30	1.35042e-08	1.000000	1.35042e-08	1.000000
rad28	9.12789e-09	1.000000	9.12789e-09	1.000000
rad2	6.88860e-09	1.000000	6.88860e-09	1.000000
rad15	1.63515e-09	1.000000	1.63515e-09	1.000000
PAH9+H	1.34473e-09	1.000000	1.34473e-09	1.000000
rad7	1.33799e-09	1.000000	1.33799e-09	1.000000
rad26	1.24309e-09	1.000000	1.24309e-09	1.000000
rad38	6.53307e-10	1.000000	6.53307e-10	1.000000
rad1	5.19085e-10	1.000000	5.19085e-10	1.000000
rad10	5.07298e-10	1.000000	5.07298e-10	1.000000
rad11	4.22346e-10	1.000000	4.22346e-10	1.000000
PhcycC3H3_A+H	3.25067e-10	1.000000	3.25067e-10	1.000000
rad23	2.68308e-10	1.000000	2.68308e-10	1.000000
PAH10+CH3	2.32054e-10	1.000000	2.32054e-10	1.000000
rad60syn	1.03415e-10	1.000000	1.03415e-10	1.000000
PAH3+H	9.55655e-11	1.000000	9.55655e-11	1.000000
rad3	8.33177e-11	1.000000	8.33177e-11	1.000000
rad60anti	5.33964e-11	1.000000	5.33964e-11	1.000000
rad46	4.35466e-11	1.000000	4.35466e-11	1.000000
rad4	4.14343e-11	1.000000	4.14343e-11	1.000000

rad59	1.62229e-11	1.00000	1.62229e-11	1.00000
rad45	1.10304e-11	1.00000	1.10304e-11	1.00000
PhcycC3H3_B+H	1.05924e-11	1.00000	1.05924e-11	1.00000
Phenyl+cycC3H4	8.20984e-12	1.00000	0.00000	1.00000
rad54	5.59783e-12	1.00000	5.59783e-12	1.00000
rad43	5.50722e-12	1.00000	5.50722e-12	1.00000
rad13	4.60398e-12	1.00000	4.60398e-12	1.00000
rad62	1.14257e-12	1.00000	1.14257e-12	1.00000
rad22	9.64732e-13	1.00000	9.64732e-13	1.00000
rad50	8.42270e-13	1.00000	8.42270e-13	1.00000
rad36	3.75946e-13	1.00000	3.75946e-13	1.00000
rad70	2.50146e-13	1.00000	2.50146e-13	1.00000
PAH1+H	1.63304e-13	1.00000	1.63304e-13	1.00000
rad55	1.01470e-13	1.00000	1.01470e-13	1.00000
rad12	2.27386e-14	1.00000	2.27386e-14	1.00000
rad52	1.21594e-14	1.00000	1.21594e-14	1.00000
rad58	1.09344e-14	1.00000	1.09344e-14	1.00000
rad34	1.06939e-14	1.00000	1.06939e-14	1.00000
rad33	8.63112e-15	1.00000	8.63112e-15	1.00000
rad14	8.58749e-15	1.00000	8.58749e-15	1.00000
rad51	7.05807e-15	1.00000	7.05807e-15	1.00000
rad27	6.86213e-15	1.00000	6.86213e-15	1.00000
rad19anti	4.66794e-15	1.00000	4.66794e-15	1.00000
rad25	4.03721e-15	1.00000	4.03721e-15	1.00000
rad41	3.55306e-15	1.00000	3.55306e-15	1.00000
rad42	1.70908e-15	1.00000	1.70908e-15	1.00000
rad65	2.00921e-16	1.00000	2.00921e-16	1.00000
rad53	1.16471e-16	1.00000	1.16471e-16	1.00000
rad18	8.45503e-17	1.00000	8.45503e-17	1.00000
rad5	5.86521e-17	1.00000	5.86521e-17	1.00000
rad64	4.55602e-17	1.00000	4.55602e-17	1.00000
rad20	3.96867e-17	1.00000	3.96867e-17	1.00000
rad61	2.78681e-17	1.00000	2.78681e-17	1.00000
rad21	2.76263e-17	1.00000	2.76263e-17	1.00000
rad56	2.99907e-18	1.00000	2.99907e-18	1.00000
rad31	1.55371e-18	1.00000	1.55371e-18	1.00000
rad68syn	3.97246e-19	1.00000	3.97246e-19	1.00000
rad68anti	2.85921e-19	1.00000	2.85921e-19	1.00000
rad24	1.23335e-19	1.00000	1.23335e-19	1.00000
rad40syn	1.38260e-20	1.00000	1.38260e-20	1.00000
rad40anti	1.05335e-20	1.00000	1.05335e-20	1.00000
PAH8+H	5.71868e-21	1.00000	5.71868e-21	1.00000
rad73	6.87921e-22	1.00000	6.87921e-22	1.00000
rad19syn	1.12387e-22	1.00000	1.12387e-22	1.00000
rad71	2.28238e-23	1.00000	2.28238e-23	1.00000
rad47	1.36613e-23	1.00000	1.36613e-23	1.00000
rad72	5.80845e-30	1.00000	5.80845e-30	1.00000
rad8	5.66644e-40	1.00000	5.66644e-40	1.00000

10.000000 Pa, 310.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.92544e-14 (1.00)	5.92544e-14 (1.00)
Formation of rad19	5.91462e-14 (0.998)	5.91462e-14 (0.998)
H-abstraction to cyc2enyl	1.07628e-16 (0.00182)	1.07628e-16 (0.00182)
H-abstraction to cyclenyl	5.62537e-19 (9.49e-06)	5.62537e-19 (9.49e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997542	0.997542	0.997542	0.997542
Benzene+cycloprop-2-enylidene	0.00181637	0.999359	0.00181637	0.999359
PhCHCCH2+H	0.000589539	0.999948	0.000589539	0.999948
PhCCH+CH3	9.84615e-06	0.999958	9.84615e-06	0.999958
Benzene+cycloprop-1-enylidene	9.49359e-06	0.999968	9.49359e-06	0.999968
C2H2+PhCH2	8.08620e-06	0.999976	8.08620e-06	0.999976
rad6	7.41382e-06	0.999983	7.41382e-06	0.999983
PhCCCH3+H	6.72617e-06	0.999990	6.72617e-06	0.999990
Ph+MeAc	6.43939e-06	0.999996	6.43939e-06	0.999996
rad67	1.87914e-06	0.999998	1.87914e-06	0.999998
rad35	7.86504e-07	0.999999	7.86504e-07	0.999999
Ph+Allene	6.98955e-07	1.000000	6.98955e-07	1.000000
rad9	1.90909e-07	1.000000	1.90909e-07	1.000000
PhCH2CCH+H	1.21853e-07	1.000000	1.21853e-07	1.000000
PAH7+H	6.46008e-08	1.000000	6.46008e-08	1.000000
rad37	2.77312e-08	1.000000	2.77312e-08	1.000000
rad39	1.80547e-08	1.000000	1.80547e-08	1.000000
rad30	1.52357e-08	1.000000	1.52357e-08	1.000000
rad28	1.03160e-08	1.000000	1.03160e-08	1.000000
rad2	7.70321e-09	1.000000	7.70321e-09	1.000000

rad7	1.51079e-09	1.00000	1.51079e-09	1.00000
PAH9+H	1.26047e-09	1.00000	1.26047e-09	1.00000
rad26	1.00946e-09	1.00000	1.00946e-09	1.00000
rad38	7.02435e-10	1.00000	7.02435e-10	1.00000
rad10	6.03614e-10	1.00000	6.03614e-10	1.00000
rad1	5.98780e-10	1.00000	5.98780e-10	1.00000
rad11	5.09541e-10	1.00000	5.09541e-10	1.00000
PhcycC3H3_A+H	4.08508e-10	1.00000	4.08508e-10	1.00000
rad23	2.76310e-10	1.00000	2.76310e-10	1.00000
PAH10+CH3	2.34822e-10	1.00000	2.34822e-10	1.00000
rad15	1.38005e-10	1.00000	1.38005e-10	1.00000
rad60syn	1.19408e-10	1.00000	1.19408e-10	1.00000
PAH3+H	1.00818e-10	1.00000	1.00818e-10	1.00000
rad3	8.97249e-11	1.00000	8.97249e-11	1.00000
rad60anti	6.14541e-11	1.00000	6.14541e-11	1.00000
rad4	4.79524e-11	1.00000	4.79524e-11	1.00000
rad46	4.51243e-11	1.00000	4.51243e-11	1.00000
rad59	1.84658e-11	1.00000	1.84658e-11	1.00000
PhcycC3H3_B+H	1.41358e-11	1.00000	1.41358e-11	1.00000
Phenyl+cycC3H4	1.07882e-11	1.00000	0.00000	1.00000
rad45	1.00087e-11	1.00000	1.00087e-11	1.00000
rad43	6.52928e-12	1.00000	6.52928e-12	1.00000
rad54	5.63964e-12	1.00000	5.63964e-12	1.00000
rad13	4.74710e-12	1.00000	4.74710e-12	1.00000
rad62	1.32364e-12	1.00000	1.32364e-12	1.00000
rad50	8.90424e-13	1.00000	8.90424e-13	1.00000
rad22	7.83972e-13	1.00000	7.83972e-13	1.00000
rad36	6.63584e-13	1.00000	6.63584e-13	1.00000
rad70	2.72917e-13	1.00000	2.72917e-13	1.00000
PAH1+H	2.24802e-13	1.00000	2.24802e-13	1.00000
rad55	1.09586e-13	1.00000	1.09586e-13	1.00000
rad58	1.44154e-14	1.00000	1.44154e-14	1.00000
rad52	1.26751e-14	1.00000	1.26751e-14	1.00000
rad34	1.18356e-14	1.00000	1.18356e-14	1.00000
rad14	9.01490e-15	1.00000	9.01490e-15	1.00000
rad51	7.85937e-15	1.00000	7.85937e-15	1.00000
rad33	6.98183e-15	1.00000	6.98183e-15	1.00000
rad27	6.55838e-15	1.00000	6.55838e-15	1.00000
rad41	4.60203e-15	1.00000	4.60203e-15	1.00000
rad25	3.62530e-15	1.00000	3.62530e-15	1.00000
rad42	2.14085e-15	1.00000	2.14085e-15	1.00000
rad12	1.20464e-15	1.00000	1.20464e-15	1.00000
rad19anti	2.26201e-16	1.00000	2.26201e-16	1.00000
rad65	2.23573e-16	1.00000	2.23573e-16	1.00000
rad53	1.31296e-16	1.00000	1.31296e-16	1.00000
rad64	4.94681e-17	1.00000	4.94681e-17	1.00000
rad61	3.75210e-17	1.00000	3.75210e-17	1.00000
rad5	3.14149e-17	1.00000	3.14149e-17	1.00000
rad18	1.97898e-17	1.00000	1.97898e-17	1.00000
rad20	5.90391e-18	1.00000	5.90391e-18	1.00000
rad21	3.79576e-18	1.00000	3.79576e-18	1.00000
rad56	3.28159e-18	1.00000	3.28159e-18	1.00000
rad31	7.59862e-19	1.00000	7.59862e-19	1.00000
rad68syn	4.78447e-19	1.00000	4.78447e-19	1.00000
rad68anti	3.47794e-19	1.00000	3.47794e-19	1.00000
rad24	9.46011e-20	1.00000	9.46011e-20	1.00000
rad40syn	1.77573e-20	1.00000	1.77573e-20	1.00000
rad40anti	1.42697e-20	1.00000	1.42697e-20	1.00000
PAH8+H	5.66984e-21	1.00000	5.66984e-21	1.00000
rad73	6.99309e-22	1.00000	6.99309e-22	1.00000
rad71	1.38773e-23	1.00000	1.38773e-23	1.00000
rad47	3.37028e-24	1.00000	3.37028e-24	1.00000
rad19syn	1.62281e-26	1.00000	1.62281e-26	1.00000
rad8	6.05492e-51	1.00000	6.05492e-51	1.00000

10.000000 Pa, 400.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.29463e-13 (1.00)	1.29463e-13 (1.00)
Formation of rad19	1.28526e-13 (0.993)	1.28526e-13 (0.993)
H-abstraction to cyc2enyl	9.19357e-16 (0.00710)	9.19357e-16 (0.00710)
H-abstraction to cyclenyl	1.69485e-17 (0.000131)	1.69485e-17 (0.000131)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.991685	0.991685	0.991685	0.991685
Benzene+cycloprop-2-enylidene	0.00710133	0.998786	0.00710133	0.998786
PhCHCCH2+H	0.00100125	0.999787	0.00100125	0.999787
Benzene+cycloprop-1-enylidene	0.000130914	0.999918	0.000130914	0.999918

C2H2+PhCH2	2.11379e-05	0.999939	2.11379e-05	0.999939
PhCCH+CH3	1.90115e-05	0.999958	1.90115e-05	0.999958
Ph+MeAc	1.43909e-05	0.999973	1.43909e-05	0.999973
PhCCCH3+H	1.31122e-05	0.999986	1.31122e-05	0.999986
rad67	4.20438e-06	0.999990	4.20438e-06	0.999990
rad6	3.22535e-06	0.999993	3.22535e-06	0.999993
Ph+Allene	2.70288e-06	0.999996	2.70288e-06	0.999996
rad35	1.68199e-06	0.999998	1.68199e-06	0.999998
rad9	9.48440e-07	0.999999	9.48440e-07	0.999999
PhCH2CCH+H	6.36413e-07	0.999999	6.36413e-07	0.999999
PAH7+H	2.60513e-07	0.999999	2.60513e-07	0.999999
rad37	8.76078e-08	1.000000	8.76078e-08	1.000000
rad39	6.33531e-08	1.000000	6.33531e-08	1.000000
rad30	3.37855e-08	1.000000	3.37855e-08	1.000000
PAH9+H	5.31541e-09	1.000000	5.31541e-09	1.000000
PhcycC3H3_A+H	4.88864e-09	1.000000	4.88864e-09	1.000000
rad28	4.38192e-09	1.000000	4.38192e-09	1.000000
rad2	3.40614e-09	1.000000	3.40614e-09	1.000000
rad38	2.94295e-09	1.000000	2.94295e-09	1.000000
PAH10+CH3	1.93427e-09	1.000000	1.93427e-09	1.000000
rad15	7.06947e-10	1.000000	7.06947e-10	1.000000
rad7	6.37553e-10	1.000000	6.37553e-10	1.000000
PAH3+H	5.30419e-10	1.000000	5.30419e-10	1.000000
rad26	4.81356e-10	1.000000	4.81356e-10	1.000000
PhcycC3H3_B+H	4.15259e-10	1.000000	4.15259e-10	1.000000
rad60syn	3.75543e-10	1.000000	3.75543e-10	1.000000
rad1	3.16989e-10	1.000000	3.16989e-10	1.000000
rad10	2.48846e-10	1.000000	2.48846e-10	1.000000
Phenyl+cycC3H4	2.22328e-10	1.000000	0.000000	1.000000
rad46	2.16915e-10	1.000000	2.16915e-10	1.000000
rad11	2.00950e-10	1.000000	2.00950e-10	1.000000
rad60anti	1.99961e-10	1.000000	1.99961e-10	1.000000
rad23	1.67871e-10	1.000000	1.67871e-10	1.000000
rad59	8.42573e-11	1.000000	8.42573e-11	1.000000
rad54	5.85504e-11	1.000000	5.85504e-11	1.000000
rad3	4.43490e-11	1.000000	4.43490e-11	1.000000
rad43	3.45227e-11	1.000000	3.45227e-11	1.000000
rad4	2.33558e-11	1.000000	2.33558e-11	1.000000
rad45	8.62926e-12	1.000000	8.62926e-12	1.000000
rad50	7.87069e-12	1.000000	7.87069e-12	1.000000
rad62	7.06178e-12	1.000000	7.06178e-12	1.000000
rad19anti	5.72756e-12	1.000000	5.72756e-12	1.000000
rad70	3.62668e-12	1.000000	3.62668e-12	1.000000
PAH1+H	3.45199e-12	1.000000	3.45199e-12	1.000000
rad13	2.40670e-12	1.000000	2.40670e-12	1.000000
rad55	1.48155e-12	1.000000	1.48155e-12	1.000000
rad22	4.31231e-13	1.000000	4.31231e-13	1.000000
rad36	3.30616e-13	1.000000	3.30616e-13	1.000000
rad34	2.32213e-13	1.000000	2.32213e-13	1.000000
rad58	1.68786e-13	1.000000	1.68786e-13	1.000000
rad52	1.65498e-13	1.000000	1.65498e-13	1.000000
rad51	1.38304e-13	1.000000	1.38304e-13	1.000000
rad41	6.83988e-14	1.000000	6.83988e-14	1.000000
rad42	2.66261e-14	1.000000	2.66261e-14	1.000000
rad12	1.60770e-14	1.000000	1.60770e-14	1.000000
rad53	6.63408e-15	1.000000	6.63408e-15	1.000000
rad33	5.09076e-15	1.000000	5.09076e-15	1.000000
rad14	4.56170e-15	1.000000	4.56170e-15	1.000000
rad65	4.25773e-15	1.000000	4.25773e-15	1.000000
rad27	3.70727e-15	1.000000	3.70727e-15	1.000000
rad61	3.44797e-15	1.000000	3.44797e-15	1.000000
rad64	2.95103e-15	1.000000	2.95103e-15	1.000000
rad25	2.16730e-15	1.000000	2.16730e-15	1.000000
rad56	5.22602e-16	1.000000	5.22602e-16	1.000000
rad68syn	7.40813e-17	1.000000	7.40813e-17	1.000000
rad68anti	5.19456e-17	1.000000	5.19456e-17	1.000000
rad18	4.68057e-17	1.000000	4.68057e-17	1.000000
rad20	3.79713e-17	1.000000	3.79713e-17	1.000000
rad21	2.83670e-17	1.000000	2.83670e-17	1.000000
rad5	2.27897e-17	1.000000	2.27897e-17	1.000000
rad19syn	2.04435e-17	1.000000	2.04435e-17	1.000000
rad31	1.79502e-17	1.000000	1.79502e-17	1.000000
rad40syn	6.43635e-18	1.000000	6.43635e-18	1.000000
PAH8+H	6.00065e-18	1.000000	6.00065e-18	1.000000
rad40anti	4.78611e-18	1.000000	4.78611e-18	1.000000
rad73	5.12608e-19	1.000000	5.12608e-19	1.000000
rad24	1.33124e-19	1.000000	1.33124e-19	1.000000
rad71	5.62234e-20	1.000000	5.62234e-20	1.000000
rad47	7.09858e-22	1.000000	7.09858e-22	1.000000
rad72	4.09728e-24	1.000000	4.09728e-24	1.000000

rad8 | 1.02198e-36 1.000000 | 1.02198e-36 1.000000

10.000000 Pa, 500.000000 K

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Rate constant | True (fraction) Effective (fraction)

Total | 2.52837e-13 (1.00) 2.52837e-13 (1.00)
Formation of rad19 | 2.47941e-13 (0.981) 2.47941e-13 (0.981)
H-abstraction to cyc2enyl | 4.69058e-15 (0.0186) 4.69058e-15 (0.0186)
H-abstraction to cyc1enyl | 2.05381e-16 (0.000812) 2.05381e-16 (0.000812)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.978429	0.978429	0.978429	0.978429
Benzene+cycloprop-2-enylidene	0.0185518	0.996980	0.0185518	0.996980
PhCHCCH2+H	0.00202267	0.999003	0.00202267	0.999003
Benzene+cycloprop-1-enylidene	0.000812306	0.999815	0.000812306	0.999815
C2H2+PhCH2	5.08092e-05	0.999866	5.08092e-05	0.999866
PhCCH+CH3	3.68861e-05	0.999903	3.68861e-05	0.999903
Ph+MeAc	3.62609e-05	0.999939	3.62609e-05	0.999939
PhCCCH3+H	2.84211e-05	0.999968	2.84211e-05	0.999968
Ph+Allene	1.06872e-05	0.999978	1.06872e-05	0.999978
rad67	1.05780e-05	0.999989	1.05780e-05	0.999989
rad35	4.10730e-06	0.999993	4.10730e-06	0.999993
PhCH2CCH+H	2.89410e-06	0.999996	2.89410e-06	0.999996
rad9	1.31405e-06	0.999997	1.31405e-06	0.999997
rad6	1.08235e-06	0.999998	1.08235e-06	0.999998
PAH7+H	8.28918e-07	0.999999	8.28918e-07	0.999999
rad37	2.86503e-07	0.999999	2.86503e-07	0.999999
rad39	1.96700e-07	1.000000	1.96700e-07	1.000000
rad30	8.93450e-08	1.000000	8.93450e-08	1.000000
PhcycC3H3_A+H	5.03115e-08	1.000000	5.03115e-08	1.000000
PAH9+H	2.04116e-08	1.000000	2.04116e-08	1.000000
PAH10+CH3	1.44327e-08	1.000000	1.44327e-08	1.000000
rad38	1.30889e-08	1.000000	1.30889e-08	1.000000
PhcycC3H3_B+H	7.82403e-09	1.000000	7.82403e-09	1.000000
Phenyl+cycC3H4	3.55660e-09	1.000000	0.000000	1.000000
PAH3+H	2.97809e-09	1.000000	2.97809e-09	1.000000
rad2	2.05620e-09	1.000000	2.05620e-09	1.000000
rad28	1.45205e-09	1.000000	1.45205e-09	1.000000
rad60syn	1.43068e-09	1.000000	1.43068e-09	1.000000
rad46	1.03702e-09	1.000000	1.03702e-09	1.000000
rad15	9.95336e-10	1.000000	9.95336e-10	1.000000
rad60anti	7.83815e-10	1.000000	7.83815e-10	1.000000
rad19anti	7.19186e-10	1.000000	7.19186e-10	1.000000
rad23	5.27295e-10	1.000000	5.27295e-10	1.000000
rad54	4.58842e-10	1.000000	4.58842e-10	1.000000
rad59	4.42221e-10	1.000000	4.42221e-10	1.000000
rad1	2.45540e-10	1.000000	2.45540e-10	1.000000
rad26	2.17716e-10	1.000000	2.17716e-10	1.000000
rad7	2.14051e-10	1.000000	2.14051e-10	1.000000
rad43	1.96591e-10	1.000000	1.96591e-10	1.000000
rad10	1.29375e-10	1.000000	1.29375e-10	1.000000
rad11	6.83070e-11	1.000000	6.83070e-11	1.000000
rad50	6.64923e-11	1.000000	6.64923e-11	1.000000
rad45	6.03550e-11	1.000000	6.03550e-11	1.000000
PAH1+H	4.65310e-11	1.000000	4.65310e-11	1.000000
rad62	3.74821e-11	1.000000	3.74821e-11	1.000000
rad70	3.71795e-11	1.000000	3.71795e-11	1.000000
rad3	3.06177e-11	1.000000	3.06177e-11	1.000000
rad4	1.72385e-11	1.000000	1.72385e-11	1.000000
rad55	1.48307e-11	1.000000	1.48307e-11	1.000000
rad34	3.19200e-12	1.000000	3.19200e-12	1.000000
rad36	2.82411e-12	1.000000	2.82411e-12	1.000000
rad51	2.12371e-12	1.000000	2.12371e-12	1.000000
rad58	2.05827e-12	1.000000	2.05827e-12	1.000000
rad52	1.89968e-12	1.000000	1.89968e-12	1.000000
rad13	9.38536e-13	1.000000	9.38536e-13	1.000000
rad41	8.68244e-13	1.000000	8.68244e-13	1.000000
rad22	5.11379e-13	1.000000	5.11379e-13	1.000000
rad42	2.73999e-13	1.000000	2.73999e-13	1.000000
rad53	1.69607e-13	1.000000	1.69607e-13	1.000000
rad19syn	1.45991e-13	1.000000	1.45991e-13	1.000000
rad61	1.42452e-13	1.000000	1.42452e-13	1.000000
rad64	7.68506e-14	1.000000	7.68506e-14	1.000000
rad65	6.76617e-14	1.000000	6.76617e-14	1.000000
rad12	5.76455e-14	1.000000	5.76455e-14	1.000000
rad56	2.63614e-14	1.000000	2.63614e-14	1.000000
rad68syn	3.92668e-15	1.000000	3.92668e-15	1.000000
rad68anti	2.70310e-15	1.000000	2.70310e-15	1.000000

rad14	2.60953e-15	1.000000	2.60953e-15	1.000000
rad33	2.39354e-15	1.000000	2.39354e-15	1.000000
rad27	2.27707e-15	1.000000	2.27707e-15	1.000000
rad31	1.93757e-15	1.000000	1.93757e-15	1.000000
PAH8+H	9.43730e-16	1.000000	9.43730e-16	1.000000
rad25	8.84466e-16	1.000000	8.84466e-16	1.000000
rad40syn	5.79734e-16	1.000000	5.79734e-16	1.000000
rad40anti	4.25204e-16	1.000000	4.25204e-16	1.000000
rad73	1.73455e-16	1.000000	1.73455e-16	1.000000
rad71	9.85647e-17	1.000000	9.85647e-17	1.000000
rad20	4.26775e-17	1.000000	4.26775e-17	1.000000
rad21	3.60983e-17	1.000000	3.60983e-17	1.000000
rad18	2.62614e-17	1.000000	2.62614e-17	1.000000
rad5	1.02811e-17	1.000000	1.02811e-17	1.000000
rad24	1.31955e-18	1.000000	1.31955e-18	1.000000
rad72	1.03233e-18	1.000000	1.03233e-18	1.000000
rad47	4.98997e-20	1.000000	4.98997e-20	1.000000
rad8	2.11915e-32	1.000000	2.11915e-32	1.000000

10.000000 Pa, 600.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.35570e-13 (1.00)	4.35570e-13 (1.00)
Formation of rad19	4.18892e-13 (0.962)	4.18892e-13 (0.962)
H-abstraction to cyc2enyl	1.54751e-14 (0.0355)	1.54751e-14 (0.0355)
H-abstraction to cyc1enyl	1.20343e-15 (0.00276)	1.20343e-15 (0.00276)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.957269	0.957269	0.957269	0.957269
Benzene+cycloprop-2-enylidene	0.0355285	0.992798	0.0355285	0.992798
PhCHCCH2+H	0.00402470	0.996823	0.00402470	0.996823
Benzene+cycloprop-1-enylidene	0.00276289	0.999585	0.00276289	0.999585
C2H2+PhCH2	0.000111873	0.999697	0.000111873	0.999697
Ph+MeAc	8.58424e-05	0.999783	8.58424e-05	0.999783
PhCCH+CH3	6.74577e-05	0.999851	6.74577e-05	0.999851
PhCCCH3+H	5.90944e-05	0.999910	5.90944e-05	0.999910
Ph+Allene	3.55140e-05	0.999945	3.55140e-05	0.999945
rad67	2.54402e-05	0.999971	2.54402e-05	0.999971
PhCH2CCH+H	1.08921e-05	0.999982	1.08921e-05	0.999982
rad35	9.64632e-06	0.999991	9.64632e-06	0.999991
rad9	3.63877e-06	0.999995	3.63877e-06	0.999995
PAH7+H	2.25459e-06	0.999997	2.25459e-06	0.999997
rad37	8.66703e-07	0.999998	8.66703e-07	0.999998
rad39	5.17317e-07	0.999998	5.17317e-07	0.999998
PhcycC3H3_A+H	3.58293e-07	0.999999	3.58293e-07	0.999999
rad6	2.93372e-07	0.999999	2.93372e-07	0.999999
rad30	2.27770e-07	0.999999	2.27770e-07	0.999999
PhcycC3H3_B+H	8.60298e-08	0.999999	8.60298e-08	0.999999
PAH10+CH3	8.56127e-08	1.000000	8.56127e-08	1.000000
PAH9+H	7.15327e-08	1.000000	7.15327e-08	1.000000
rad38	5.23439e-08	1.000000	5.23439e-08	1.000000
Phenyl+cycC3H4	3.58031e-08	1.000000	0.000000	1.000000
PAH3+H	1.46480e-08	1.000000	1.46480e-08	1.000000
rad19anti	5.07106e-09	1.000000	5.07106e-09	1.000000
rad60syn	5.05428e-09	1.000000	5.05428e-09	1.000000
rad46	4.41505e-09	1.000000	4.41506e-09	1.000000
rad2	3.74613e-09	1.000000	3.74613e-09	1.000000
rad23	3.53220e-09	1.000000	3.53220e-09	1.000000
rad60anti	2.83741e-09	1.000000	2.83741e-09	1.000000
rad15	2.63185e-09	1.000000	2.63185e-09	1.000000
rad54	2.62569e-09	1.000000	2.62569e-09	1.000000
rad59	2.04071e-09	1.000000	2.04071e-09	1.000000
rad43	9.18777e-10	1.000000	9.18777e-10	1.000000
rad45	6.22457e-10	1.000000	6.22457e-10	1.000000
rad1	5.57271e-10	1.000000	5.57271e-10	1.000000
rad50	4.73259e-10	1.000000	4.73259e-10	1.000000
PAH1+H	4.09555e-10	1.000000	4.09555e-10	1.000000
rad28	3.87095e-10	1.000000	3.87095e-10	1.000000
rad70	2.64704e-10	1.000000	2.64704e-10	1.000000
rad26	1.76063e-10	1.000000	1.76063e-10	1.000000
rad62	1.58176e-10	1.000000	1.58176e-10	1.000000
rad10	1.41966e-10	1.000000	1.41966e-10	1.000000
rad55	1.01586e-10	1.000000	1.01586e-10	1.000000
rad7	5.98766e-11	1.000000	5.98766e-11	1.000000
rad3	5.16050e-11	1.000000	5.16050e-11	1.000000
rad36	4.12295e-11	1.000000	4.12295e-11	1.000000
rad4	3.17658e-11	1.000000	3.17658e-11	1.000000
rad34	2.83560e-11	1.000000	2.83560e-11	1.000000

rad51	2.74533e-11	1.000000	2.74533e-11	1.000000
rad11	1.97910e-11	1.000000	1.97910e-11	1.000000
rad58	1.83163e-11	1.000000	1.83163e-11	1.000000
rad52	1.79131e-11	1.000000	1.79131e-11	1.000000
rad19syn	1.52297e-11	1.000000	1.52297e-11	1.000000
rad41	7.37610e-12	1.000000	7.37610e-12	1.000000
rad61	2.90998e-12	1.000000	2.90998e-12	1.000000
rad22	2.61633e-12	1.000000	2.61633e-12	1.000000
rad53	2.30365e-12	1.000000	2.30365e-12	1.000000
rad42	1.89132e-12	1.000000	1.89132e-12	1.000000
rad12	1.03895e-12	1.000000	1.03895e-12	1.000000
rad64	1.01185e-12	1.000000	1.01185e-12	1.000000
rad65	8.62884e-13	1.000000	8.62884e-13	1.000000
rad56	5.80243e-13	1.000000	5.80243e-13	1.000000
rad13	3.35613e-13	1.000000	3.35613e-13	1.000000
rad71	1.08391e-13	1.000000	1.08391e-13	1.000000
rad68syn	9.62478e-14	1.000000	9.62478e-14	1.000000
rad73	8.73305e-14	1.000000	8.73305e-14	1.000000
PAH8+H	8.35557e-14	1.000000	8.35557e-14	1.000000
rad68anti	6.51819e-14	1.000000	6.51819e-14	1.000000
rad31	3.29227e-14	1.000000	3.29227e-14	1.000000
rad40syn	2.49770e-14	1.000000	2.49770e-14	1.000000
rad40anti	1.87048e-14	1.000000	1.87048e-14	1.000000
rad27	3.32110e-15	1.000000	3.32110e-15	1.000000
rad14	3.29762e-15	1.000000	3.29762e-15	1.000000
rad72	3.08984e-15	1.000000	3.08984e-15	1.000000
rad33	1.19016e-15	1.000000	1.19016e-15	1.000000
rad25	3.41084e-16	1.000000	3.41084e-16	1.000000
rad21	7.88411e-17	1.000000	7.88411e-17	1.000000
rad20	7.66735e-17	1.000000	7.66735e-17	1.000000
rad24	3.08604e-17	1.000000	3.08604e-17	1.000000
rad18	2.18077e-17	1.000000	2.18077e-17	1.000000
rad5	8.76116e-18	1.000000	8.76116e-18	1.000000
rad47	1.35093e-18	1.000000	1.35093e-18	1.000000
rad8	2.87995e-27	1.000000	2.87995e-27	1.000000

10.0000000 Pa, 700.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.91694e-13 (1.00)	6.91694e-13 (1.00)
Formation of rad19	6.47922e-13 (0.937)	6.47922e-13 (0.937)
H-abstraction to cyc2enyl	3.91858e-14 (0.0567)	3.91858e-14 (0.0567)
H-abstraction to cyclenyl	4.58543e-15 (0.00663)	4.58542e-15 (0.00663)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.928229	0.928229	0.928229	0.928229
Benzene+cycloprop-2-enylidene	0.0566520	0.984881	0.0566520	0.984881
PhCHCCH2+H	0.00761464	0.992496	0.00761464	0.992496
Benzene+cycloprop-1-enylidene	0.00662927	0.999125	0.00662927	0.999125
C2H2+PhCH2	0.000223846	0.999349	0.000223846	0.999349
Ph+MeAc	0.000185285	0.999534	0.000185285	0.999534
PhCCH+CH3	0.000114606	0.999649	0.000114606	0.999649
PhCCCH3+H	0.000114426	0.999763	0.000114426	0.999763
Ph+Allene	9.88941e-05	0.999862	9.88941e-05	0.999862
rad67	5.63368e-05	0.999919	5.63368e-05	0.999919
PhCH2CCH+H	3.38684e-05	0.999952	3.38684e-05	0.999952
rad35	2.09833e-05	0.999973	2.09833e-05	0.999973
rad9	1.39986e-05	0.999987	1.39986e-05	0.999987
PAH7+H	5.25609e-06	0.999993	5.25609e-06	0.999993
rad37	2.32775e-06	0.999995	2.32775e-06	0.999995
PhcycC3H3_A+H	1.86144e-06	0.999997	1.86144e-06	0.999997
rad39	1.15907e-06	0.999998	1.15907e-06	0.999998
PhcycC3H3_B+H	6.13492e-07	0.999999	6.13493e-07	0.999999
rad30	5.37105e-07	0.999999	5.37105e-07	0.999999
PAH10+CH3	3.97895e-07	1.000000	3.97895e-07	1.000000
Phenyl+cycC3H4	2.47297e-07	1.000000	0.000000	1.000000
PAH9+H	2.23273e-07	1.000000	2.23273e-07	1.000000
rad38	1.81272e-07	1.000000	1.81272e-07	1.000000
rad6	7.91584e-08	1.000000	7.91584e-08	1.000000
PAH3+H	6.05254e-08	1.000000	6.05254e-08	1.000000
rad46	1.63108e-08	1.000000	1.63109e-08	1.000000
rad60syn	1.58174e-08	1.000000	1.58174e-08	1.000000
rad54	1.12649e-08	1.000000	1.12650e-08	1.000000
rad60anti	9.06305e-09	1.000000	9.06305e-09	1.000000
rad23	7.99118e-09	1.000000	7.99118e-09	1.000000
rad59	7.95385e-09	1.000000	7.95385e-09	1.000000
rad19anti	7.02689e-09	1.000000	7.02689e-09	1.000000
rad15	7.01556e-09	1.000000	7.01556e-09	1.000000

rad2	5.80160e-09	1.00000	5.80160e-09	1.00000
rad43	3.48920e-09	1.00000	3.48920e-09	1.00000
rad50	2.71773e-09	1.00000	2.71773e-09	1.00000
PAH1+H	2.50600e-09	1.00000	2.50600e-09	1.00000
rad45	1.48261e-09	1.00000	1.48261e-09	1.00000
rad70	1.36476e-09	1.00000	1.36476e-09	1.00000
rad1	1.08332e-09	1.00000	1.08332e-09	1.00000
rad62	5.34096e-10	1.00000	5.34096e-10	1.00000
rad55	4.99215e-10	1.00000	4.99215e-10	1.00000
rad51	2.45842e-10	1.00000	2.45842e-10	1.00000
rad34	1.73432e-10	1.00000	1.73432e-10	1.00000
rad26	1.60040e-10	1.00000	1.60040e-10	1.00000
rad12	1.50707e-10	1.00000	1.50707e-10	1.00000
rad10	1.49202e-10	1.00000	1.49202e-10	1.00000
rad36	1.35019e-10	1.00000	1.35019e-10	1.00000
rad52	1.27948e-10	1.00000	1.27948e-10	1.00000
rad58	1.19019e-10	1.00000	1.19019e-10	1.00000
rad28	1.00508e-10	1.00000	1.00508e-10	1.00000
rad19syn	8.87889e-11	1.00000	8.87889e-11	1.00000
rad3	6.70907e-11	1.00000	6.70907e-11	1.00000
rad4	4.67203e-11	1.00000	4.67203e-11	1.00000
rad41	4.43153e-11	1.00000	4.43153e-11	1.00000
rad61	3.17394e-11	1.00000	3.17394e-11	1.00000
rad53	1.88558e-11	1.00000	1.88558e-11	1.00000
rad7	1.76009e-11	1.00000	1.76009e-11	1.00000
rad42	9.33568e-12	1.00000	9.33568e-12	1.00000
rad64	7.90190e-12	1.00000	7.90190e-12	1.00000
rad65	7.54264e-12	1.00000	7.54264e-12	1.00000
rad56	6.49458e-12	1.00000	6.49458e-12	1.00000
rad11	6.27564e-12	1.00000	6.27564e-12	1.00000
rad22	5.84534e-12	1.00000	5.84534e-12	1.00000
rad71	2.29391e-12	1.00000	2.29391e-12	1.00000
rad73	1.73237e-12	1.00000	1.73237e-12	1.00000
PAH8+H	1.32030e-12	1.00000	1.32030e-12	1.00000
rad68syn	1.14140e-12	1.00000	1.14140e-12	1.00000
rad68anti	7.66733e-13	1.00000	7.66734e-13	1.00000
rad40syn	3.61980e-13	1.00000	3.61980e-13	1.00000
rad40anti	2.71899e-13	1.00000	2.71899e-13	1.00000
rad13	1.47250e-13	1.00000	1.47250e-13	1.00000
rad31	9.74618e-14	1.00000	9.74618e-14	1.00000
rad72	7.31258e-14	1.00000	7.31258e-14	1.00000
rad27	5.41643e-15	1.00000	5.41643e-15	1.00000
rad14	4.53083e-15	1.00000	4.53083e-15	1.00000
rad33	9.85700e-16	1.00000	9.85700e-16	1.00000
rad24	5.21706e-16	1.00000	5.21706e-16	1.00000
rad21	4.14133e-16	1.00000	4.14133e-16	1.00000
rad20	2.94804e-16	1.00000	2.94804e-16	1.00000
rad25	1.72622e-16	1.00000	1.72622e-16	1.00000
rad18	4.02796e-17	1.00000	4.02796e-17	1.00000
rad47	1.61285e-17	1.00000	1.61285e-17	1.00000
rad5	8.92153e-18	1.00000	8.92153e-18	1.00000
rad8	5.94030e-22	1.00000	5.94030e-22	1.00000

10.000000 Pa, 800.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.03759e-12 (1.00)	1.03758e-12 (1.00)
Formation of rad19	9.41065e-13 (0.907)	9.41063e-13 (0.907)
H-abstraction to cyc2enyl	8.32953e-14 (0.0803)	8.32953e-14 (0.0803)
H-abstraction to cyc1enyl	1.32261e-14 (0.0127)	1.32261e-14 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.891732	0.891732	0.891732	0.891732
Benzene+cycloprop-2-enylidene	0.0802780	0.972009	0.0802781	0.972010
PhCHCCH2+H	0.0135177	0.985527	0.0135177	0.985528
Benzene+cycloprop-1-enylidene	0.0127470	0.998274	0.0127470	0.998275
C2H2+PhCH2	0.000408875	0.998683	0.000408875	0.998684
Ph+MeAc	0.000363023	0.999046	0.000363024	0.999047
Ph+Allene	0.000233949	0.999280	0.000233950	0.999281
PhCCCH3+H	0.000204790	0.999485	0.000204791	0.999486
PhCCH+CH3	0.000181010	0.999666	0.000181011	0.999667
rad67	0.000113838	0.999780	0.000113838	0.999781
PhCH2CCH+H	8.86401e-05	0.999868	8.86402e-05	0.999869
rad9	5.56802e-05	0.999924	5.56803e-05	0.999925
rad35	4.18515e-05	0.999966	4.18515e-05	0.999967
PAH7+H	1.06264e-05	0.999976	1.06265e-05	0.999977
PhcycC3H3_A+H	7.45253e-06	0.999984	7.45255e-06	0.999985
rad37	5.51164e-06	0.999989	5.51165e-06	0.999990

PhcycC3H3_B+H	3.09995e-06	0.999993	3.09995e-06	0.999993
rad39	2.24252e-06	0.999995	2.24253e-06	0.999996
PAH10+CH3	1.48752e-06	0.999996	1.48752e-06	0.999997
Phenyl+cycC3H4	1.26421e-06	0.999998	0.00000	0.999997
rad30	1.15766e-06	0.999999	1.15766e-06	0.999998
PAH9+H	6.18852e-07	0.999999	6.18853e-07	0.999999
rad38	5.41347e-07	1.000000	5.41348e-07	1.000000
PAH3+H	2.11452e-07	1.000000	2.11452e-07	1.000000
rad46	5.21020e-08	1.000000	5.21021e-08	1.000000
rad60syn	4.35888e-08	1.000000	4.35889e-08	1.000000
rad54	3.78208e-08	1.000000	3.78209e-08	1.000000
rad6	2.72889e-08	1.000000	2.72890e-08	1.000000
rad59	2.63298e-08	1.000000	2.63298e-08	1.000000
rad60anti	2.54117e-08	1.000000	2.54117e-08	1.000000
rad15	1.70757e-08	1.000000	1.70757e-08	1.000000
rad50	1.21030e-08	1.000000	1.21030e-08	1.000000
PAH1+H	1.15345e-08	1.000000	1.15345e-08	1.000000
rad43	1.10122e-08	1.000000	1.10123e-08	1.000000
rad23	9.29767e-09	1.000000	9.29767e-09	1.000000
rad12	7.02753e-09	1.000000	7.02754e-09	1.000000
rad19anti	6.05689e-09	1.000000	6.05690e-09	1.000000
rad70	5.41169e-09	1.000000	5.41169e-09	1.000000
rad2	5.12927e-09	1.000000	5.12928e-09	1.000000
rad45	2.05863e-09	1.000000	2.05863e-09	1.000000
rad55	1.86654e-09	1.000000	1.86654e-09	1.000000
rad62	1.48633e-09	1.000000	1.48633e-09	1.000000
rad51	1.34865e-09	1.000000	1.34866e-09	1.000000
rad1	1.15200e-09	1.000000	1.15200e-09	1.000000
rad34	7.91289e-10	1.000000	7.91289e-10	1.000000
rad52	6.43952e-10	1.000000	6.43953e-10	1.000000
rad58	5.97630e-10	1.000000	5.97631e-10	1.000000
rad61	2.31731e-10	1.000000	2.31731e-10	1.000000
rad36	2.06747e-10	1.000000	2.06748e-10	1.000000
rad41	2.02494e-10	1.000000	2.02495e-10	1.000000
rad19syn	1.44428e-10	1.000000	1.44428e-10	1.000000
rad10	1.21659e-10	1.000000	1.21660e-10	1.000000
rad26	1.15137e-10	1.000000	1.15137e-10	1.000000
rad53	1.06423e-10	1.000000	1.06423e-10	1.000000
rad3	5.29541e-11	1.000000	5.29542e-11	1.000000
rad56	4.69241e-11	1.000000	4.69242e-11	1.000000
rad64	4.20158e-11	1.000000	4.20159e-11	1.000000
rad65	4.16041e-11	1.000000	4.16042e-11	1.000000
rad4	3.97929e-11	1.000000	3.97930e-11	1.000000
rad42	3.52850e-11	1.000000	3.52850e-11	1.000000
rad28	3.29198e-11	1.000000	3.29199e-11	1.000000
PAH8+H	1.19150e-11	1.000000	1.19151e-11	1.000000
rad71	1.01270e-11	1.000000	1.01270e-11	1.000000
rad68syn	8.71617e-12	1.000000	8.71617e-12	1.000000
rad73	8.11342e-12	1.000000	8.11343e-12	1.000000
rad7	7.31711e-12	1.000000	7.31712e-12	1.000000
rad22	6.90153e-12	1.000000	6.90154e-12	1.000000
rad68anti	5.81960e-12	1.000000	5.81960e-12	1.000000
rad40syn	3.16548e-12	1.000000	3.16549e-12	1.000000
rad11	3.00328e-12	1.000000	3.00328e-12	1.000000
rad40anti	2.37546e-12	1.000000	2.37547e-12	1.000000
rad72	3.09024e-13	1.000000	3.09024e-13	1.000000
rad31	1.51263e-13	1.000000	1.51263e-13	1.000000
rad13	1.15630e-13	1.000000	1.15630e-13	1.000000
rad24	4.21123e-14	1.000000	4.21123e-14	1.000000
rad21	1.93035e-14	1.000000	1.93035e-14	1.000000
rad27	8.18774e-15	1.000000	8.18774e-15	1.000000
rad20	6.78089e-15	1.000000	6.78090e-15	1.000000
rad14	5.25235e-15	1.000000	5.25236e-15	1.000000
rad33	4.72021e-15	1.000000	4.72021e-15	1.000000
rad18	5.14055e-16	1.000000	5.14056e-16	1.000000
rad25	2.27039e-16	1.000000	2.27038e-16	1.000000
rad47	1.15553e-16	1.000000	1.15553e-16	1.000000
rad8	2.54872e-17	1.000000	2.54873e-17	1.000000
rad5	8.48293e-18	1.000000	8.48294e-18	1.000000

10.000000 Pa, 900.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.49199e-12 (1.00)	1.49199e-12 (1.00)
Formation of rad19	1.30395e-12 (0.874)	1.30394e-12 (0.874)
H-abstraction to cyc2enyl	1.56554e-13 (0.105)	1.56554e-13 (0.105)
H-abstraction to cyclenyl	3.14892e-14 (0.0211)	3.14890e-14 (0.0211)

species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.848427	0.848427	0.848431	0.848431
Benzene+cycloprop-2-enylidene	0.104929	0.953356	0.104930	0.953361
PhCHCCH2+H	0.0224393	0.975796	0.0224395	0.975800
Benzene+cycloprop-1-enylidene	0.0211054	0.996901	0.0211054	0.996906
C2H2+PhCH2	0.000688676	0.997590	0.000688680	0.997594
Ph+MeAc	0.000648557	0.998238	0.000648560	0.998243
Ph+Allene	0.000479235	0.998718	0.000479238	0.998722
PhCCCH3+H	0.000339165	0.999057	0.000339166	0.999061
PhCCH+CH3	0.000267994	0.999325	0.000267995	0.999329
rad67	0.000210213	0.999535	0.000210214	0.999540
PhCH2CCH+H	0.000199870	0.999735	0.000199871	0.999739
rad9	0.000101342	0.999836	0.000101343	0.999841
rad35	7.65781e-05	0.999913	7.65785e-05	0.999917
PhcycC3H3_A+H	2.44097e-05	0.999937	2.44098e-05	0.999942
PAH7+H	1.89629e-05	0.999956	1.89630e-05	0.999961
PhcycC3H3_B+H	1.23554e-05	0.999969	1.23555e-05	0.999973
rad37	1.15481e-05	0.999980	1.15480e-05	0.999985
Phenyl+cycC3H4	5.08007e-06	0.999985	0.00000	0.999985
PAH10+CH3	4.61010e-06	0.999990	4.61013e-06	0.999989
rad39	3.81938e-06	0.999994	3.81940e-06	0.999993
rad30	2.28030e-06	0.999996	2.28031e-06	0.999995
PAH9+H	1.54618e-06	0.999997	1.54618e-06	0.999997
rad38	1.41217e-06	0.999999	1.41218e-06	0.999998
PAH3+H	6.41254e-07	0.999999	6.41258e-07	0.999999
rad46	1.48180e-07	1.000000	1.48181e-07	0.999999
rad60syn	1.06680e-07	1.000000	1.06680e-07	0.999999
rad54	1.03154e-07	1.000000	1.03155e-07	0.999999
rad59	7.56706e-08	1.000000	7.56710e-08	0.999999
rad60anti	6.31448e-08	1.000000	6.31452e-08	0.999999
rad50	4.78912e-08	1.000000	4.78915e-08	1.000000
PAH1+H	4.29827e-08	1.000000	4.29830e-08	1.000000
rad12	4.12301e-08	1.000000	4.12303e-08	1.000000
rad43	2.96825e-08	1.000000	2.96826e-08	1.000000
rad15	2.55616e-08	1.000000	2.55617e-08	1.000000
rad70	1.74417e-08	1.000000	1.74418e-08	1.000000
rad6	1.05687e-08	1.000000	1.05687e-08	1.000000
rad23	8.78868e-09	1.000000	8.78868e-09	1.000000
rad51	7.01164e-09	1.000000	7.01168e-09	1.000000
rad55	5.56338e-09	1.000000	5.56341e-09	1.000000
rad19anti	4.58916e-09	1.000000	4.58918e-09	1.000000
rad2	3.58536e-09	1.000000	3.58538e-09	1.000000
rad62	3.51413e-09	1.000000	3.51414e-09	1.000000
rad52	2.92358e-09	1.000000	2.92360e-09	1.000000
rad34	2.89974e-09	1.000000	2.89975e-09	1.000000
rad58	2.54633e-09	1.000000	2.54635e-09	1.000000
rad45	2.36353e-09	1.000000	2.36354e-09	1.000000
rad61	1.34763e-09	1.000000	1.34764e-09	1.000000
rad1	9.14517e-10	1.000000	9.14517e-10	1.000000
rad41	7.56637e-10	1.000000	7.56641e-10	1.000000
rad53	4.54548e-10	1.000000	4.54550e-10	1.000000
rad56	2.53251e-10	1.000000	2.53253e-10	1.000000
rad36	2.40273e-10	1.000000	2.40275e-10	1.000000
rad65	2.13546e-10	1.000000	2.13548e-10	1.000000
rad64	1.70287e-10	1.000000	1.70289e-10	1.000000
rad19syn	1.51735e-10	1.000000	1.51736e-10	1.000000
PAH8+H	1.29182e-10	1.000000	1.29182e-10	1.000000
rad42	1.08205e-10	1.000000	1.08206e-10	1.000000
rad10	9.23274e-11	1.000000	9.23282e-11	1.000000
rad71	7.68870e-11	1.000000	7.68874e-11	1.000000
rad26	6.66794e-11	1.000000	6.66797e-11	1.000000
rad73	6.18006e-11	1.000000	6.18009e-11	1.000000
rad68syn	5.54353e-11	1.000000	5.54356e-11	1.000000
rad68anti	3.66909e-11	1.000000	3.66911e-11	1.000000
rad3	3.57363e-11	1.000000	3.57365e-11	1.000000
rad4	2.82147e-11	1.000000	2.82149e-11	1.000000
rad40syn	2.67572e-11	1.000000	2.67574e-11	1.000000
rad40anti	2.05342e-11	1.000000	2.05343e-11	1.000000
rad28	1.21557e-11	1.000000	1.21558e-11	1.000000
rad22	7.39908e-12	1.000000	7.39912e-12	1.000000
rad7	3.95465e-12	1.000000	3.95466e-12	1.000000
rad72	2.26718e-12	1.000000	2.26720e-12	1.000000
rad11	2.02343e-12	1.000000	2.02344e-12	1.000000
rad21	1.37473e-12	1.000000	1.37473e-12	1.000000
rad24	8.16509e-13	1.000000	8.16514e-13	1.000000
rad20	3.85164e-13	1.000000	3.85167e-13	1.000000
rad13	2.02809e-13	1.000000	2.02810e-13	1.000000
rad31	1.88717e-13	1.000000	1.88719e-13	1.000000
rad33	1.75435e-13	1.000000	1.75435e-13	1.000000
rad8	5.65900e-14	1.000000	5.65903e-14	1.000000

rad18	2.24054e-14	1.00000	2.24055e-14	1.000000
rad27	1.39819e-14	1.00000	1.39819e-14	1.000000
rad14	6.22208e-15	1.00000	6.22211e-15	1.000000
rad25	3.22741e-15	1.00000	3.22743e-15	1.000000
rad47	6.65039e-16	1.00000	6.65042e-16	1.000000
rad5	7.06921e-18	1.00000	7.06925e-18	1.000000

10.000000 Pa, 1000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.07591e-12 (1.00)	2.07587e-12 (1.00)
Formation of rad19	1.74189e-12 (0.839)	1.74186e-12 (0.839)
H-abstraction to cyc2enyl	2.68753e-13 (0.129)	2.68753e-13 (0.129)
H-abstraction to cyclenyl	6.52627e-14 (0.0314)	6.52614e-14 (0.0314)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.799236	0.799236	0.799250	0.799250
Benzene+cycloprop-2-enylidene	0.129463	0.928699	0.129465	0.928715
PhCHCCH2+H	0.0347910	0.963490	0.0347916	0.963507
Benzene+cycloprop-1-enylidene	0.0314382	0.994928	0.0314381	0.994945
C2H2+PhCH2	0.00107760	0.996006	0.00107762	0.996022
Ph+MeAc	0.00106147	0.997067	0.00106149	0.997084
Ph+Allene	0.000864104	0.997931	0.000864118	0.997948
PhCCCH3+H	0.000521251	0.998452	0.000521261	0.998469
PhCH2CCH+H	0.000393394	0.998846	0.000393401	0.998863
PhCCH+CH3	0.000375241	0.999221	0.000375247	0.999238
rad67	0.000355305	0.999576	0.000355310	0.999593
rad35	0.000128644	0.999705	0.000128646	0.999722
rad9	8.77689e-05	0.999793	8.77703e-05	0.999809
PhcycC3H3_A+H	6.73846e-05	0.999860	6.73857e-05	0.999877
PhcycC3H3_B+H	3.99786e-05	0.999900	3.99793e-05	0.999917
PAH7+H	3.03953e-05	0.999931	3.03958e-05	0.999947
rad37	2.14848e-05	0.999952	2.14852e-05	0.999969
Phenyl+cycC3H4	1.68080e-05	0.999969	0.000000	0.999969
PAH10+CH3	1.17024e-05	0.999981	1.17025e-05	0.999980
rad39	5.84097e-06	0.999986	5.84108e-06	0.999986
rad30	4.09445e-06	0.999990	4.09452e-06	0.999990
PAH9+H	3.42017e-06	0.999994	3.42022e-06	0.999994
rad38	3.18234e-06	0.999997	3.18240e-06	0.999997
PAH3+H	1.62798e-06	0.999999	1.62801e-06	0.999999
rad46	3.62874e-07	0.999999	3.62881e-07	0.999999
rad54	2.33149e-07	0.999999	2.33152e-07	0.999999
rad60syn	2.29342e-07	1.000000	2.29347e-07	0.999999
rad59	1.84194e-07	1.000000	1.84198e-07	1.000000
rad50	1.47540e-07	1.000000	1.47542e-07	1.000000
rad60anti	1.37406e-07	1.000000	1.37408e-07	1.000000
PAH1+H	1.24244e-07	1.000000	1.24246e-07	1.000000
rad12	7.32294e-08	1.000000	7.32307e-08	1.000000
rad43	6.80940e-08	1.000000	6.80952e-08	1.000000
rad70	4.53544e-08	1.000000	4.53552e-08	1.000000
rad15	2.60429e-08	1.000000	2.60435e-08	1.000000
rad51	2.50117e-08	1.000000	2.50121e-08	1.000000
rad55	1.34648e-08	1.000000	1.34651e-08	1.000000
rad52	9.74219e-09	1.000000	9.74233e-09	1.000000
rad34	8.26081e-09	1.000000	8.26096e-09	1.000000
rad23	8.22334e-09	1.000000	8.22348e-09	1.000000
rad58	8.06389e-09	1.000000	8.06404e-09	1.000000
rad62	7.16838e-09	1.000000	7.16850e-09	1.000000
rad6	5.10464e-09	1.000000	5.10473e-09	1.000000
rad61	4.97458e-09	1.000000	4.97467e-09	1.000000
rad19anti	3.42901e-09	1.000000	3.42907e-09	1.000000
rad2	2.58663e-09	1.000000	2.58667e-09	1.000000
rad45	2.53282e-09	1.000000	2.53286e-09	1.000000
rad41	2.19585e-09	1.000000	2.19589e-09	1.000000
rad53	1.42032e-09	1.000000	1.42034e-09	1.000000
rad56	9.03046e-10	1.000000	9.03061e-10	1.000000
rad65	7.55914e-10	1.000000	7.55927e-10	1.000000
rad1	7.03291e-10	1.000000	7.03303e-10	1.000000
PAH8+H	5.61381e-10	1.000000	5.61390e-10	1.000000
rad64	5.12753e-10	1.000000	5.12763e-10	1.000000
rad71	3.10628e-10	1.000000	3.10634e-10	1.000000
rad42	2.70390e-10	1.000000	2.70395e-10	1.000000
rad36	2.53870e-10	1.000000	2.53875e-10	1.000000
rad73	2.50579e-10	1.000000	2.50584e-10	1.000000
rad68syn	2.11219e-10	1.000000	2.11222e-10	1.000000
rad19syn	1.42443e-10	1.000000	1.42446e-10	1.000000
rad68anti	1.39341e-10	1.000000	1.39344e-10	1.000000
rad40syn	1.10939e-10	1.000000	1.10941e-10	1.000000

rad10	8.59631e-11	1.00000	8.59646e-11	1.00000
rad40anti	8.55243e-11	1.00000	8.55258e-11	1.00000
rad26	4.05965e-11	1.00000	4.05973e-11	1.00000
rad3	2.50029e-11	1.00000	2.50033e-11	1.00000
rad21	2.22164e-11	1.00000	2.22168e-11	1.00000
rad4	2.00773e-11	1.00000	2.00777e-11	1.00000
rad22	1.39928e-11	1.00000	1.39931e-11	1.00000
rad72	9.19711e-12	1.00000	9.19734e-12	1.00000
rad8	6.39453e-12	1.00000	6.39464e-12	1.00000
rad20	6.30724e-12	1.00000	6.30735e-12	1.00000
rad28	5.71627e-12	1.00000	5.71637e-12	1.00000
rad24	3.62172e-12	1.00000	3.62178e-12	1.00000
rad7	3.22946e-12	1.00000	3.22951e-12	1.00000
rad13	2.86856e-12	1.00000	2.86861e-12	1.00000
rad11	2.55122e-12	1.00000	2.55126e-12	1.00000
rad33	2.35017e-12	1.00000	2.35021e-12	1.00000
rad18	3.15901e-13	1.00000	3.15906e-13	1.00000
rad31	2.18808e-13	1.00000	2.18812e-13	1.00000
rad25	8.43210e-14	1.00000	8.43225e-14	1.00000
rad27	7.61266e-14	1.00000	7.61280e-14	1.00000
rad14	1.18809e-14	1.00000	1.18811e-14	1.00000
rad47	2.40836e-15	1.00000	2.40841e-15	1.00000
rad5	7.25811e-18	1.00000	7.25824e-18	1.00000

10.0000000 Pa, 1100.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.81236e-12 (1.00)	2.81222e-12 (1.00)
Formation of rad19	2.25993e-12 (0.804)	2.25980e-12 (0.804)
H-abstraction to cyc2enyl	4.30538e-13 (0.153)	4.30538e-13 (0.153)
H-abstraction to cyclenyl	1.21896e-13 (0.0433)	1.21889e-13 (0.0433)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.745171	0.745171	0.745208	0.745208
Benzene+cycloprop-2-enylidene	0.153088	0.898258	0.153095	0.898304
PhCHCCH2+H	0.0505968	0.948855	0.0505993	0.948903
Benzene+cycloprop-1-enylidene	0.0433429	0.992198	0.0433425	0.992245
Ph+MeAc	0.00160680	0.993805	0.00160688	0.993852
C2H2+PhCH2	0.00158052	0.995386	0.00158059	0.995433
Ph+Allene	0.00140079	0.996786	0.00140086	0.996834
PhCCCH3+H	0.000748543	0.997535	0.000748580	0.997582
PhCH2CCH+H	0.000691050	0.998226	0.000691084	0.998273
rad67	0.000554322	0.998780	0.000554350	0.998828
PhCCH+CH3	0.000501559	0.999282	0.000501583	0.999329
rad35	0.000199923	0.999482	0.000199933	0.999529
PhcycC3H3_A+H	0.000161541	0.999643	0.000161549	0.999691
PhcycC3H3_B+H	0.000109192	0.999752	0.000109198	0.999800
rad9	5.90673e-05	0.999812	5.90703e-05	0.999859
Phenyl+cycC3H4	4.74537e-05	0.999859	0.00000	0.999859
PAH7+H	4.45938e-05	0.999904	4.45960e-05	0.999904
rad37	3.59990e-05	0.999940	3.60008e-05	0.999940
PAH10+CH3	2.52429e-05	0.999965	2.52442e-05	0.999965
rad39	8.18210e-06	0.999973	8.18251e-06	0.999973
PAH9+H	6.75806e-06	0.999980	6.75840e-06	0.999980
rad30	6.75202e-06	0.999987	6.75236e-06	0.999987
rad38	6.30773e-06	0.999993	6.30804e-06	0.999993
PAH3+H	3.54364e-06	0.999996	3.54382e-06	0.999997
rad46	7.75166e-07	0.999997	7.75205e-07	0.999997
rad54	4.53224e-07	0.999998	4.53246e-07	0.999998
rad60syn	4.38941e-07	0.999998	4.38963e-07	0.999998
rad59	3.88143e-07	0.999998	3.88162e-07	0.999999
rad50	3.67118e-07	0.999999	3.67136e-07	0.999999
PAH1+H	2.95013e-07	0.999999	2.95028e-07	0.999999
rad60anti	2.65531e-07	0.999999	2.65545e-07	1.000000
rad43	1.36334e-07	0.999999	1.36341e-07	1.000000
rad70	9.93879e-08	1.000000	9.93934e-08	1.000000
rad12	7.95606e-08	1.000000	7.95646e-08	1.000000
rad51	6.63774e-08	1.000000	6.63807e-08	1.000000
rad55	2.76555e-08	1.000000	2.76569e-08	1.000000
rad15	2.66169e-08	1.000000	2.66182e-08	1.000000
rad52	2.52447e-08	1.000000	2.52459e-08	1.000000
rad58	2.03348e-08	1.000000	2.03358e-08	1.000000
rad34	1.93626e-08	1.000000	1.93635e-08	1.000000
rad61	1.38105e-08	1.000000	1.38112e-08	1.000000
rad62	1.29403e-08	1.000000	1.29409e-08	1.000000
rad23	7.59053e-09	1.000000	7.59091e-09	1.000000
rad41	5.23538e-09	1.000000	5.23564e-09	1.000000
rad53	3.55052e-09	1.000000	3.55069e-09	1.000000

rad6	3.37293e-09	1.000000	3.37310e-09	1.000000
rad19anti	2.56845e-09	1.000000	2.56858e-09	1.000000
rad45	2.55435e-09	1.000000	2.55448e-09	1.000000
rad56	2.46744e-09	1.000000	2.46757e-09	1.000000
rad65	2.00794e-09	1.000000	2.00805e-09	1.000000
rad2	1.93043e-09	1.000000	1.93053e-09	1.000000
PAH8+H	1.55597e-09	1.000000	1.55604e-09	1.000000
rad64	1.23821e-09	1.000000	1.23827e-09	1.000000
rad71	6.24659e-10	1.000000	6.24690e-10	1.000000
rad68syn	5.86721e-10	1.000000	5.86751e-10	1.000000
rad42	5.73478e-10	1.000000	5.73506e-10	1.000000
rad73	5.63346e-10	1.000000	5.63375e-10	1.000000
rad1	5.33381e-10	1.000000	5.33408e-10	1.000000
rad68anti	3.86584e-10	1.000000	3.86603e-10	1.000000
rad40syn	3.12993e-10	1.000000	3.13009e-10	1.000000
rad36	2.54057e-10	1.000000	2.54069e-10	1.000000
rad40anti	2.40801e-10	1.000000	2.40812e-10	1.000000
rad19syn	1.28391e-10	1.000000	1.28398e-10	1.000000
rad21	9.89347e-11	1.000000	9.89394e-11	1.000000
rad10	9.51924e-11	1.000000	9.51972e-11	1.000000
rad8	7.72777e-11	1.000000	7.72816e-11	1.000000
rad13	3.47083e-11	1.000000	3.47100e-11	1.000000
rad22	3.17067e-11	1.000000	3.17082e-11	1.000000
rad20	2.84448e-11	1.000000	2.84463e-11	1.000000
rad26	2.81850e-11	1.000000	2.81864e-11	1.000000
rad3	1.76658e-11	1.000000	1.76666e-11	1.000000
rad11	1.51310e-11	1.000000	1.51317e-11	1.000000
rad72	1.49574e-11	1.000000	1.49581e-11	1.000000
rad4	1.42202e-11	1.000000	1.42210e-11	1.000000
rad33	8.74308e-12	1.000000	8.74348e-12	1.000000
rad24	7.73570e-12	1.000000	7.73609e-12	1.000000
rad7	4.72819e-12	1.000000	4.72843e-12	1.000000
rad28	3.67410e-12	1.000000	3.67429e-12	1.000000
rad18	1.43688e-12	1.000000	1.43695e-12	1.000000
rad25	8.26543e-13	1.000000	8.26584e-13	1.000000
rad27	5.13509e-13	1.000000	5.13534e-13	1.000000
rad31	2.41221e-13	1.000000	2.41233e-13	1.000000
rad14	4.91164e-14	1.000000	4.91189e-14	1.000000
rad47	6.13643e-15	1.000000	6.13674e-15	1.000000
rad5	1.05937e-17	1.000000	1.05942e-17	1.000000

10.000000 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.72623e-12 (1.00)	3.72576e-12 (1.00)
Formation of rad19	2.86288e-12 (0.768)	2.86245e-12 (0.768)
H-abstraction to cyc2enyl	6.53266e-13 (0.175)	6.53266e-13 (0.175)
H-abstraction to cyclenyl	2.10085e-13 (0.0564)	2.10053e-13 (0.0564)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.687323	0.687323	0.687410	0.687410
Benzene+cycloprop-2-enylidene	0.175315	0.862638	0.175337	0.862747
PhCHCCH2+H	0.0695675	0.932206	0.0695763	0.932324
Benzene+cycloprop-1-enylidene	0.0563801	0.988586	0.0563786	0.988702
Ph+MeAc	0.00227719	0.990863	0.00227748	0.990980
C2H2+PhCH2	0.00219548	0.993059	0.00219576	0.993175
Ph+Allene	0.00208450	0.995143	0.00208476	0.995260
PhCH2CCH+H	0.00111086	0.996254	0.00111100	0.996371
PhCCCH3+H	0.00101349	0.997267	0.00101362	0.997385
rad67	0.000808157	0.998076	0.000808258	0.998193
PhCCH+CH3	0.000646786	0.998722	0.000646868	0.998840
PhcycC3H3_A+H	0.000346014	0.999068	0.000346057	0.999186
rad35	0.000290842	0.999359	0.000290879	0.999477
PhcycC3H3_B+H	0.000261748	0.999621	0.000261781	0.999739
Phenyl+cycC3H4	0.000117514	0.999738	0.000000	0.999739
PAH7+H	6.10198e-05	0.999800	6.10275e-05	0.999800
rad37	5.52307e-05	0.999855	5.52377e-05	0.999855
PAH10+CH3	4.84398e-05	0.999903	4.84458e-05	0.999903
rad9	3.82901e-05	0.999941	3.82949e-05	0.999942
PAH9+H	1.23241e-05	0.999954	1.23257e-05	0.999954
rad38	1.13686e-05	0.999965	1.13700e-05	0.999965
rad39	1.07159e-05	0.999976	1.07173e-05	0.999976
rad30	1.03710e-05	0.999986	1.03722e-05	0.999986
PAH3+H	6.98307e-06	0.999993	6.98395e-06	0.999993
rad46	1.51822e-06	0.999995	1.51841e-06	0.999995
rad50	8.39719e-07	0.999996	8.39827e-07	0.999996
rad54	7.84508e-07	0.999996	7.84602e-07	0.999996
rad60syn	7.69572e-07	0.999997	7.69675e-07	0.999997

rad59	7.41303e-07	0.999998	7.41397e-07	0.999998
PAH1+H	6.22633e-07	0.999999	6.22712e-07	0.999999
rad60anti	4.69547e-07	0.999999	4.69606e-07	0.999999
rad43	2.47081e-07	0.999999	2.47112e-07	0.999999
rad70	1.94256e-07	0.999999	1.94280e-07	1.000000
rad51	1.67009e-07	1.000000	1.67030e-07	1.000000
rad12	7.14515e-08	1.000000	7.14605e-08	1.000000
rad52	6.07068e-08	1.000000	6.07144e-08	1.000000
rad55	5.02375e-08	1.000000	5.02439e-08	1.000000
rad58	4.61936e-08	1.000000	4.61993e-08	1.000000
rad34	4.03246e-08	1.000000	4.03296e-08	1.000000
rad61	3.40977e-08	1.000000	3.41020e-08	1.000000
rad15	3.01816e-08	1.000000	3.01854e-08	1.000000
rad62	2.12837e-08	1.000000	2.12863e-08	1.000000
rad41	1.11314e-08	1.000000	1.11327e-08	1.000000
rad53	7.73491e-09	1.000000	7.73593e-09	1.000000
rad23	7.00175e-09	1.000000	7.00263e-09	1.000000
rad56	5.89042e-09	1.000000	5.89116e-09	1.000000
rad65	5.01607e-09	1.000000	5.01670e-09	1.000000
PAH8+H	4.32174e-09	1.000000	4.32228e-09	1.000000
rad6	3.28833e-09	1.000000	3.28874e-09	1.000000
rad64	2.63381e-09	1.000000	2.63414e-09	1.000000
rad45	2.46981e-09	1.000000	2.47012e-09	1.000000
rad19anti	1.94211e-09	1.000000	1.94235e-09	1.000000
rad71	1.58650e-09	1.000000	1.58671e-09	1.000000
rad73	1.51366e-09	1.000000	1.51385e-09	1.000000
rad68syn	1.48200e-09	1.000000	1.48219e-09	1.000000
rad2	1.43906e-09	1.000000	1.43924e-09	1.000000
rad42	1.08840e-09	1.000000	1.08853e-09	1.000000
rad68anti	9.74303e-10	1.000000	9.74430e-10	1.000000
rad40syn	8.41263e-10	1.000000	8.41371e-10	1.000000
rad40anti	6.50096e-10	1.000000	6.50177e-10	1.000000
rad1	4.00199e-10	1.000000	4.00249e-10	1.000000
rad8	2.54904e-10	1.000000	2.54936e-10	1.000000
rad36	2.45706e-10	1.000000	2.45737e-10	1.000000
rad21	2.09349e-10	1.000000	2.09375e-10	1.000000
rad11	1.55873e-10	1.000000	1.55893e-10	1.000000
rad13	1.32733e-10	1.000000	1.32750e-10	1.000000
rad10	1.14718e-10	1.000000	1.14732e-10	1.000000
rad19syn	1.13955e-10	1.000000	1.13970e-10	1.000000
rad20	5.73712e-11	1.000000	5.73785e-11	1.000000
rad22	5.38622e-11	1.000000	5.38689e-11	1.000000
rad72	3.01709e-11	1.000000	3.01747e-11	1.000000
rad26	2.25638e-11	1.000000	2.25667e-11	1.000000
rad7	2.08049e-11	1.000000	2.08075e-11	1.000000
rad33	1.50159e-11	1.000000	1.50178e-11	1.000000
rad3	1.24531e-11	1.000000	1.24547e-11	1.000000
rad24	1.18623e-11	1.000000	1.18638e-11	1.000000
rad4	1.00069e-11	1.000000	1.00081e-11	1.000000
rad18	4.86713e-12	1.000000	4.86775e-12	1.000000
rad28	3.37731e-12	1.000000	3.37774e-12	1.000000
rad25	3.00585e-12	1.000000	3.00623e-12	1.000000
rad27	1.58271e-12	1.000000	1.58291e-12	1.000000
rad31	2.55802e-13	1.000000	2.55834e-13	1.000000
rad14	1.48254e-13	1.000000	1.48273e-13	1.000000
rad47	1.50058e-14	1.000000	1.50077e-14	1.000000
rad5	3.15895e-17	1.000000	3.15935e-17	1.000000

10.000000 Pa, 1300.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.84401e-12 (1.00)	4.84262e-12 (1.00)
Formation of rad19	3.55537e-12 (0.734)	3.55411e-12 (0.734)
H-abstraction to cyc2enyl	9.48893e-13 (0.196)	9.48893e-13 (0.196)
H-abstraction to cyclenyl	3.39740e-13 (0.0701)	3.39620e-13 (0.0701)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.627056	0.627056	0.627235	0.627235
Benzene+cycloprop-2-enylidene	0.195890	0.822947	0.195946	0.823181
PhCHCCH2+H	0.0909445	0.913891	0.0909704	0.914152
Benzene+cycloprop-1-enylidene	0.0701362	0.984027	0.0701313	0.984283
Ph+MeAc	0.00304690	0.987074	0.00304778	0.987331
C2H2+PhCH2	0.00290612	0.989980	0.00290696	0.990238
Ph+Allene	0.00288725	0.992868	0.00288808	0.993126
PhCH2CCH+H	0.00165682	0.994524	0.00165729	0.994783
PhCCCH3+H	0.00130233	0.995827	0.00130271	0.996086
rad67	0.00110989	0.996937	0.00111020	0.997196
PhCCH+CH3	0.000810123	0.997747	0.000810353	0.998006

PhcycC3H3_A+H	0.000673661	0.998420	0.000673853	0.998680
PhcycC3H3_B+H	0.000561705	0.998982	0.000561865	0.999242
rad35	0.000399108	0.999381	0.000399222	0.999641
Phenyl+cycC3H4	0.000260507	0.999642	0.000000	0.999641
PAH10+CH3	8.40114e-05	0.999726	8.40349e-05	0.999725
PAH7+H	7.89697e-05	0.999805	7.89921e-05	0.999804
rad37	7.84302e-05	0.999883	7.84527e-05	0.999883
rad9	2.42874e-05	0.999907	2.42943e-05	0.999907
PAH9+H	2.09112e-05	0.999928	2.09172e-05	0.999928
rad38	1.88619e-05	0.999947	1.88673e-05	0.999947
rad30	1.49548e-05	0.999962	1.49590e-05	0.999962
rad39	1.33474e-05	0.999975	1.33512e-05	0.999975
PAH3+H	1.26174e-05	0.999988	1.26210e-05	0.999988
rad46	2.75021e-06	0.999991	2.75099e-06	0.999991
rad50	1.76960e-06	0.999993	1.77010e-06	0.999992
rad59	1.29981e-06	0.999994	1.30018e-06	0.999994
rad60syn	1.24969e-06	0.999995	1.25005e-06	0.999995
rad54	1.23235e-06	0.999996	1.23270e-06	0.999996
PAH1+H	1.18637e-06	0.999998	1.18671e-06	0.999997
rad60anti	7.68360e-07	0.999998	7.68578e-07	0.999998
rad43	4.10955e-07	0.999999	4.11072e-07	0.999999
rad51	3.91634e-07	0.999999	3.91746e-07	0.999999
rad70	3.44720e-07	0.999999	3.44819e-07	0.999999
rad52	1.34800e-07	1.000000	1.34838e-07	0.999999
rad58	9.54048e-08	1.000000	9.54320e-08	0.999999
rad55	8.23606e-08	1.000000	8.23835e-08	1.000000
rad34	7.59178e-08	1.000000	7.59390e-08	1.000000
rad61	7.49923e-08	1.000000	7.50135e-08	1.000000
rad12	5.90401e-08	1.000000	5.90569e-08	1.000000
rad15	3.88378e-08	1.000000	3.88489e-08	1.000000
rad62	3.24090e-08	1.000000	3.24182e-08	1.000000
rad41	2.14109e-08	1.000000	2.14170e-08	1.000000
rad53	1.49729e-08	1.000000	1.49772e-08	1.000000
rad56	1.24374e-08	1.000000	1.24410e-08	1.000000
rad65	1.16209e-08	1.000000	1.16242e-08	1.000000
PAH8+H	1.13433e-08	1.000000	1.13466e-08	1.000000
rad23	6.62287e-09	1.000000	6.62476e-09	1.000000
rad64	5.04745e-09	1.000000	5.04889e-09	1.000000
rad71	4.94543e-09	1.000000	4.94684e-09	1.000000
rad73	4.49226e-09	1.000000	4.49354e-09	1.000000
rad6	4.08023e-09	1.000000	4.08139e-09	1.000000
rad68syn	3.38737e-09	1.000000	3.38834e-09	1.000000
rad45	2.32001e-09	1.000000	2.32067e-09	1.000000
rad68anti	2.22123e-09	1.000000	2.22187e-09	1.000000
rad40syn	2.08475e-09	1.000000	2.08535e-09	1.000000
rad42	1.88457e-09	1.000000	1.88511e-09	1.000000
rad40anti	1.62326e-09	1.000000	1.62372e-09	1.000000
rad19anti	1.48684e-09	1.000000	1.48726e-09	1.000000
rad2	1.06695e-09	1.000000	1.06725e-09	1.000000
rad11	7.45732e-10	1.000000	7.45944e-10	1.000000
rad8	4.43677e-10	1.000000	4.43803e-10	1.000000
rad21	3.06440e-10	1.000000	3.06527e-10	1.000000
rad1	2.99044e-10	1.000000	2.99129e-10	1.000000
rad36	2.31909e-10	1.000000	2.31975e-10	1.000000
rad13	2.31305e-10	1.000000	2.31371e-10	1.000000
rad10	1.87152e-10	1.000000	1.87205e-10	1.000000
rad7	1.34112e-10	1.000000	1.34151e-10	1.000000
rad19syn	1.00706e-10	1.000000	1.00735e-10	1.000000
rad72	9.99048e-11	1.000000	9.99331e-11	1.000000
rad20	7.78027e-11	1.000000	7.78252e-11	1.000000
rad22	7.53527e-11	1.000000	7.53738e-11	1.000000
rad26	2.19815e-11	1.000000	2.19877e-11	1.000000
rad18	2.15876e-11	1.000000	2.15938e-11	1.000000
rad33	1.77089e-11	1.000000	1.77140e-11	1.000000
rad24	1.53559e-11	1.000000	1.53603e-11	1.000000
rad3	8.77803e-12	1.000000	8.78058e-12	1.000000
rad4	7.02756e-12	1.000000	7.02956e-12	1.000000
rad25	5.75824e-12	1.000000	5.75988e-12	1.000000
rad28	4.01205e-12	1.000000	4.01319e-12	1.000000
rad27	2.76640e-12	1.000000	2.76719e-12	1.000000
rad31	2.62771e-13	1.000000	2.62846e-13	1.000000
rad14	2.55242e-13	1.000000	2.55314e-13	1.000000
rad47	3.45221e-14	1.000000	3.45319e-14	1.000000
rad5	3.04882e-16	1.000000	3.04968e-16	1.000000

10.000000 Pa, 1400.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.19360e-12 (1.00)	6.18997e-12 (1.00)

Formation of rad19 | 4.34185e-12 (0.701) 4.33861e-12 (0.701)
H-abstraction to cyc2enyl | 1.32990e-12 (0.215) 1.32990e-12 (0.215)
H-abstraction to cyclenyl | 5.21850e-13 (0.0843) 5.21461e-13 (0.0842)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.565972	0.565972	0.566304	0.566304
Benzene+cycloprop-2-enylidene	0.214721	0.780693	0.214847	0.781151
PhCHCCH2+H	0.113560	0.894253	0.113627	0.894777
Benzene+cycloprop-1-enylidene	0.0842564	0.978509	0.0842429	0.979020
Ph+MeAc	0.00387410	0.982384	0.00387638	0.982897
Ph+Allene	0.00376165	0.986145	0.00376385	0.986661
C2H2+PhCH2	0.00368053	0.989826	0.00368269	0.990343
PhCH2CCH+H	0.00231425	0.992140	0.00231560	0.992659
PhCCCH3+H	0.00159679	0.993737	0.00159772	0.994257
rad67	0.00144465	0.995181	0.00144549	0.995702
PhcycC3H3_A+H	0.00120505	0.996386	0.00120575	0.996908
PhcycC3H3_B+H	0.00109202	0.997478	0.00109266	0.998001
PhCCH+CH3	0.000988995	0.998467	0.000989580	0.998990
Phenyl+cycC3H4	0.000523345	0.998991	0.000000	0.998990
rad35	0.000519617	0.999510	0.000519922	0.999510
PAH10+CH3	0.000133062	0.999644	0.000133141	0.999643
rad37	0.000104006	0.999748	0.000104068	0.999747
PAH7+H	9.76917e-05	0.999845	9.77489e-05	0.999845
PAH9+H	3.30800e-05	0.999878	3.30994e-05	0.999878
rad38	2.90129e-05	0.999907	2.90299e-05	0.999907
PAH3+H	2.10036e-05	0.999928	2.10159e-05	0.999928
rad30	2.03586e-05	0.999949	2.03705e-05	0.999948
rad39	1.60377e-05	0.999965	1.60471e-05	0.999965
rad9	1.52337e-05	0.999980	1.52426e-05	0.999980
rad46	4.61117e-06	0.999985	4.61387e-06	0.999984
rad50	3.40041e-06	0.999988	3.40241e-06	0.999988
rad59	2.10471e-06	0.999990	2.10595e-06	0.999990
PAH1+H	2.05499e-06	0.999992	2.05620e-06	0.999992
rad60syn	1.89125e-06	0.999994	1.89236e-06	0.999994
rad54	1.78185e-06	0.999996	1.78290e-06	0.999996
rad60anti	1.17076e-06	0.999997	1.17144e-06	0.999997
rad51	8.29807e-07	0.999998	8.30298e-07	0.999998
rad43	6.32329e-07	0.999998	6.32700e-07	0.999998
rad70	5.60833e-07	0.999999	5.61161e-07	0.999999
rad52	2.71449e-07	0.999999	2.71608e-07	0.999999
rad58	1.78771e-07	0.999999	1.78876e-07	0.999999
rad61	1.46575e-07	1.000000	1.46661e-07	0.999999
rad34	1.30232e-07	1.000000	1.30308e-07	1.000000
rad55	1.23655e-07	1.000000	1.23727e-07	1.000000
rad15	6.43597e-08	1.000000	6.43974e-08	1.000000
rad12	4.69315e-08	1.000000	4.69590e-08	1.000000
rad62	4.61822e-08	1.000000	4.62094e-08	1.000000
rad41	3.74542e-08	1.000000	3.74762e-08	1.000000
PAH8+H	2.64156e-08	1.000000	2.64311e-08	1.000000
rad53	2.60712e-08	1.000000	2.60865e-08	1.000000
rad65	2.43080e-08	1.000000	2.43223e-08	1.000000
rad56	2.33910e-08	1.000000	2.34047e-08	1.000000
rad71	1.42717e-08	1.000000	1.42801e-08	1.000000
rad73	1.21149e-08	1.000000	1.21220e-08	1.000000
rad64	8.81094e-09	1.000000	8.81612e-09	1.000000
rad68syn	6.91830e-09	1.000000	6.92235e-09	1.000000
rad23	6.49465e-09	1.000000	6.49846e-09	1.000000
rad6	5.26127e-09	1.000000	5.26436e-09	1.000000
rad40syn	4.59210e-09	1.000000	4.59480e-09	1.000000
rad68anti	4.52588e-09	1.000000	4.52854e-09	1.000000
rad40anti	3.60223e-09	1.000000	3.60435e-09	1.000000
rad42	3.00985e-09	1.000000	3.01162e-09	1.000000
rad45	2.13315e-09	1.000000	2.13440e-09	1.000000
rad11	1.70372e-09	1.000000	1.70471e-09	1.000000
rad19anti	1.15334e-09	1.000000	1.15401e-09	1.000000
rad2	7.90199e-10	1.000000	7.90661e-10	1.000000
rad8	5.68003e-10	1.000000	5.68336e-10	1.000000
rad7	4.57758e-10	1.000000	4.58027e-10	1.000000
rad10	4.01272e-10	1.000000	4.01507e-10	1.000000
rad21	3.69716e-10	1.000000	3.69933e-10	1.000000
rad72	3.32740e-10	1.000000	3.32934e-10	1.000000
rad13	2.66219e-10	1.000000	2.66375e-10	1.000000
rad1	2.23670e-10	1.000000	2.23801e-10	1.000000
rad36	2.14679e-10	1.000000	2.14805e-10	1.000000
rad22	9.40919e-11	1.000000	9.41469e-11	1.000000
rad19syn	8.90593e-11	1.000000	8.91116e-11	1.000000
rad20	8.64312e-11	1.000000	8.64818e-11	1.000000
rad18	6.28605e-11	1.000000	6.28974e-11	1.000000
rad26	3.26296e-11	1.000000	3.26487e-11	1.000000

rad24	1.80369e-11	1.00000	1.80474e-11	1.00000
rad33	1.72909e-11	1.00000	1.73011e-11	1.00000
rad25	7.80729e-12	1.00000	7.81185e-12	1.00000
rad3	6.21407e-12	1.00000	6.21771e-12	1.00000
rad28	5.46623e-12	1.00000	5.46943e-12	1.00000
rad4	4.94668e-12	1.00000	4.94959e-12	1.00000
rad27	3.55603e-12	1.00000	3.55812e-12	1.00000
rad14	3.13644e-13	1.00000	3.13828e-13	1.00000
rad31	2.62642e-13	1.00000	2.62796e-13	1.00000
rad47	7.17700e-14	1.00000	7.18124e-14	1.00000
rad5	5.10010e-15	1.00000	5.10309e-15	1.00000

10.000000 Pa, 1500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.80417e-12 (1.00)	7.79561e-12 (1.00)
Formation of rad19	5.22661e-12 (0.670)	5.21915e-12 (0.669)
H-abstraction to cyc2enyl	1.80920e-12 (0.232)	1.80920e-12 (0.232)
H-abstraction to cyclenyl	7.68359e-13 (0.0985)	7.67262e-13 (0.0984)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.505842	0.505842	0.506398	0.506398
Benzene+cycloprop-2-enylidene	0.231825	0.737667	0.232079	0.738477
PhCHCCH2+H	0.135981	0.873649	0.136131	0.874608
Benzene+cycloprop-1-enylidene	0.0984549	0.972103	0.0984223	0.973031
Ph+MeAc	0.00470626	0.976810	0.00471143	0.977742
Ph+Allene	0.00464817	0.981458	0.00465327	0.982395
C2H2+PhCH2	0.00447357	0.985931	0.00447848	0.986874
PhCH2CCH+H	0.00304883	0.988980	0.00305218	0.989926
PhcycC3H3_A+H	0.00198986	0.990970	0.00199204	0.991918
PhcycC3H3_B+H	0.00193291	0.992903	0.00193503	0.993853
PhCCCH3+H	0.00187682	0.994780	0.00187889	0.995732
rad67	0.00179123	0.996571	0.00179319	0.997525
PhCCH+CH3	0.00117798	0.997749	0.00117927	0.998704
Phenyl+cycC3H4	0.000956146	0.998705	0.000000	0.998704
rad35	0.000644941	0.999350	0.000645649	0.999350
PAH10+CH3	0.000194257	0.999544	0.000194471	0.999545
rad37	0.000129823	0.999674	0.000129966	0.999674
PAH7+H	0.000116430	0.999791	0.000116558	0.999791
PAH9+H	4.88720e-05	0.999840	4.89256e-05	0.999840
rad38	4.16148e-05	0.999881	4.16605e-05	0.999882
PAH3+H	3.23524e-05	0.999914	3.23879e-05	0.999914
rad30	2.62859e-05	0.999940	2.63148e-05	0.999940
rad39	1.87918e-05	0.999959	1.88124e-05	0.999959
rad9	9.55959e-06	0.999968	9.57008e-06	0.999969
rad46	7.16540e-06	0.999975	7.17327e-06	0.999976
rad50	5.94261e-06	0.999981	5.94914e-06	0.999982
PAH1+H	3.25887e-06	0.999985	3.26245e-06	0.999985
rad59	3.16288e-06	0.999988	3.16635e-06	0.999988
rad60syn	2.68054e-06	0.999990	2.68349e-06	0.999991
rad54	2.39890e-06	0.999993	2.40153e-06	0.999993
rad60anti	1.66922e-06	0.999994	1.67105e-06	0.999995
rad51	1.57505e-06	0.999996	1.57678e-06	0.999997
rad43	9.05870e-07	0.999997	9.06869e-07	0.999997
rad70	8.43104e-07	0.999998	8.44030e-07	0.999998
rad52	4.93390e-07	0.999998	4.93932e-07	0.999999
rad58	3.04651e-07	0.999999	3.04985e-07	0.999999
rad61	2.56321e-07	0.999999	2.56603e-07	0.999999
rad34	2.05036e-07	0.999999	2.05260e-07	1.000000
rad55	1.72057e-07	0.999999	1.72247e-07	1.000000
rad15	9.69166e-08	0.999999	9.70230e-08	1.000000
rad62	6.20740e-08	0.999999	6.21421e-08	1.000000
rad41	5.99374e-08	0.999999	6.00032e-08	1.000000
PAH8+H	5.39287e-08	0.999999	5.39879e-08	1.000000
rad65	4.55933e-08	1.000000	4.56434e-08	1.000000
rad53	4.13061e-08	1.000000	4.13514e-08	1.000000
rad56	3.95908e-08	1.000000	3.96342e-08	1.000000
rad12	3.66610e-08	1.000000	3.67012e-08	1.000000
rad71	3.50757e-08	1.000000	3.51142e-08	1.000000
rad73	2.81215e-08	1.000000	2.81523e-08	1.000000
rad64	1.41334e-08	1.000000	1.41489e-08	1.000000
rad68syn	1.26440e-08	1.000000	1.26579e-08	1.000000
rad40syn	8.94472e-09	1.000000	8.95454e-09	1.000000
rad68anti	8.25497e-09	1.000000	8.26402e-09	1.000000
rad6	7.06575e-09	1.000000	7.07352e-09	1.000000
rad40anti	7.06099e-09	1.000000	7.06870e-09	1.000000
rad23	6.51142e-09	1.000000	6.51856e-09	1.000000
rad42	4.46957e-09	1.000000	4.47448e-09	1.000000

rad11	2.44845e-09	1.000000	2.45114e-09	1.000000
rad45	1.92852e-09	1.000000	1.93064e-09	1.000000
rad72	9.23296e-10	1.000000	9.24309e-10	1.000000
rad19anti	9.06346e-10	1.000000	9.07338e-10	1.000000
rad7	8.32369e-10	1.000000	8.33278e-10	1.000000
rad10	6.97741e-10	1.000000	6.98508e-10	1.000000
rad8	6.25808e-10	1.000000	6.26495e-10	1.000000
rad2	5.86098e-10	1.000000	5.86742e-10	1.000000
rad21	4.00049e-10	1.000000	4.00489e-10	1.000000
rad13	2.47318e-10	1.000000	2.47589e-10	1.000000
rad36	1.95511e-10	1.000000	1.95727e-10	1.000000
rad1	1.67792e-10	1.000000	1.67976e-10	1.000000
rad18	1.10874e-10	1.000000	1.10996e-10	1.000000
rad22	1.07043e-10	1.000000	1.07161e-10	1.000000
rad26	9.20517e-11	1.000000	9.21531e-11	1.000000
rad20	8.61669e-11	1.000000	8.62615e-11	1.000000
rad19syn	7.89908e-11	1.000000	7.90771e-11	1.000000
rad24	1.99120e-11	1.000000	1.99338e-11	1.000000
rad33	1.52477e-11	1.000000	1.52645e-11	1.000000
rad28	9.04250e-12	1.000000	9.05242e-12	1.000000
rad25	8.74420e-12	1.000000	8.75382e-12	1.000000
rad3	4.42844e-12	1.000000	4.43330e-12	1.000000
rad27	3.85214e-12	1.000000	3.85636e-12	1.000000
rad4	3.49790e-12	1.000000	3.50174e-12	1.000000
rad14	3.21014e-13	1.000000	3.21366e-13	1.000000
rad31	2.56266e-13	1.000000	2.56547e-13	1.000000
rad47	1.33332e-13	1.000000	1.33479e-13	1.000000
rad5	7.28207e-14	1.000000	7.29003e-14	1.000000

1.00000000 Pa, 20.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.24541e-22 (1.00)	1.24541e-22 (1.00)
Formation of rad19	1.24541e-22 (1.00)	1.24541e-22 (1.00)
H-abstraction to cyc2enyl	3.84323e-68 (3.09e-46)	3.84323e-68 (3.09e-46)
H-abstraction to cyclenyl	6.26313e-106 (5.03e-84)	6.26313e-106 (5.03e-84)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999672	0.999672	0.999672	0.999672
PhCHCCH2+H	0.000199371	0.999871	0.000199371	0.999871
rad9	0.000111826	0.999983	0.000111826	0.999983
rad6	8.75088e-06	0.999992	8.75088e-06	0.999992
PhCCH+CH3	2.74786e-06	0.999995	2.74786e-06	0.999995
PhCCCH3+H	1.77444e-06	0.999996	1.77444e-06	0.999996
Ph+MeAc	1.25541e-06	0.999998	1.25541e-06	0.999998
C2H2+PhCH2	1.13954e-06	0.999999	1.13954e-06	0.999999
rad67	4.23997e-07	0.999999	4.23997e-07	0.999999
rad35	1.88362e-07	0.999999	1.88362e-07	0.999999
rad15	8.81178e-08	1.000000	8.81178e-08	1.000000
rad2	2.54385e-08	1.000000	2.54385e-08	1.000000
rad26	2.52137e-08	1.000000	2.52137e-08	1.000000
Ph+Allene	2.26094e-08	1.000000	2.26094e-08	1.000000
rad28	1.13929e-08	1.000000	1.13929e-08	1.000000
rad37	3.54905e-09	1.000000	3.54905e-09	1.000000
rad30	3.31054e-09	1.000000	3.31054e-09	1.000000
PhCH2CCH+H	3.09417e-09	1.000000	3.09417e-09	1.000000
rad10	2.09222e-09	1.000000	2.09222e-09	1.000000
rad7	2.03698e-09	1.000000	2.03698e-09	1.000000
rad1	1.60690e-09	1.000000	1.60690e-09	1.000000
PAH7+H	1.48191e-09	1.000000	1.48191e-09	1.000000
rad11	7.18969e-10	1.000000	7.18969e-10	1.000000
rad23	6.28203e-10	1.000000	6.28203e-10	1.000000
rad39	4.10831e-10	1.000000	4.10831e-10	1.000000
rad3	2.62971e-10	1.000000	2.62971e-10	1.000000
rad4	1.32821e-10	1.000000	1.32821e-10	1.000000
PAH9+H	9.15975e-11	1.000000	9.15975e-11	1.000000
rad38	4.22515e-11	1.000000	4.22515e-11	1.000000
rad45	2.58536e-11	1.000000	2.58536e-11	1.000000
rad60syn	1.39402e-11	1.000000	1.39402e-11	1.000000
rad60anti	6.78971e-12	1.000000	6.78971e-12	1.000000
rad13	6.21075e-12	1.000000	6.21075e-12	1.000000
PAH3+H	5.38102e-12	1.000000	5.38102e-12	1.000000
PAH10+CH3	3.44940e-12	1.000000	3.44940e-12	1.000000
rad22	2.41270e-12	1.000000	2.41270e-12	1.000000
rad46	2.20283e-12	1.000000	2.20283e-12	1.000000
rad36	1.58570e-12	1.000000	1.58570e-12	1.000000
rad59	1.12053e-12	1.000000	1.12053e-12	1.000000
rad12	5.30273e-13	1.000000	5.30273e-13	1.000000

PhcycC3H3_A+H	4.06060e-13	1.000000	4.06060e-13	1.000000
rad43	1.81622e-13	1.000000	1.81622e-13	1.000000
rad19anti	9.49815e-14	1.000000	9.49815e-14	1.000000
rad62	3.25897e-14	1.000000	3.25897e-14	1.000000
rad14	2.78797e-14	1.000000	2.78797e-14	1.000000
rad27	2.32880e-14	1.000000	2.32880e-14	1.000000
rad54	1.43723e-14	1.000000	1.43723e-14	1.000000
rad50	1.33127e-14	1.000000	1.33127e-14	1.000000
rad33	7.80653e-15	1.000000	7.80653e-15	1.000000
rad25	4.96507e-15	1.000000	4.96507e-15	1.000000
rad70	4.79866e-16	1.000000	4.79866e-16	1.000000
rad5	4.24399e-16	1.000000	4.24399e-16	1.000000
PAH1+H	1.34478e-16	1.000000	1.34478e-16	1.000000
rad18	8.80106e-17	1.000000	8.80106e-17	1.000000
rad55	8.22507e-17	1.000000	8.22507e-17	1.000000
rad52	8.04591e-17	1.000000	8.04591e-17	1.000000
rad58	5.61047e-17	1.000000	5.61047e-17	1.000000
Phenyl+cycC3H4	2.77347e-17	1.000000	0.00000	1.000000
rad51	1.87164e-17	1.000000	1.87164e-17	1.000000
rad20	1.08340e-17	1.000000	1.08340e-17	1.000000
rad21	6.78774e-18	1.000000	6.78774e-18	1.000000
rad34	4.13327e-18	1.000000	4.13327e-18	1.000000
rad41	1.64077e-18	1.000000	1.64077e-18	1.000000
rad42	1.49259e-18	1.000000	1.49259e-18	1.000000
rad31	4.84571e-19	1.000000	4.84571e-19	1.000000
rad65	3.64682e-19	1.000000	3.64682e-19	1.000000
rad24	1.96425e-19	1.000000	1.96425e-19	1.000000
PhcycC3H3_B+H	5.03529e-23	1.000000	5.03529e-23	1.000000
rad47	3.28396e-25	1.000000	3.28396e-25	1.000000
rad53	1.20639e-25	1.000000	1.20639e-25	1.000000
rad64	2.09554e-27	1.000000	2.09554e-27	1.000000
rad61	1.17462e-32	1.000000	1.17462e-32	1.000000
rad56	7.61377e-34	1.000000	7.61377e-34	1.000000
rad68syn	1.56960e-35	1.000000	1.56960e-35	1.000000
rad68anti	1.29785e-35	1.000000	1.29785e-35	1.000000
rad19syn	1.37423e-39	1.000000	1.37423e-39	1.000000
rad73	3.01903e-42	1.000000	3.01903e-42	1.000000
rad40syn	6.10960e-43	1.000000	6.10960e-43	1.000000
rad40anti	4.32663e-43	1.000000	4.32663e-43	1.000000
PAH8+H	4.92635e-46	1.000000	4.92635e-46	1.000000
Benzene+cycloprop-2-enylidene	3.08591e-46	1.000000	3.08591e-46	1.000000
rad71	6.00974e-49	1.000000	6.00974e-49	1.000000
rad8	1.12034e-55	1.000000	1.12034e-55	1.000000
Benzene+cycloprop-1-enylidene	5.02895e-84	1.000000	5.02895e-84	1.000000

1.00000000 Pa, 30.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.13009e-20 (1.00)	8.13009e-20 (1.00)
Formation of rad19	8.13009e-20 (1.00)	8.13009e-20 (1.00)
H-abstraction to cyc2enyl	1.08880e-49 (1.34e-30)	1.08880e-49 (1.34e-30)
H-abstraction to cyclenyl	7.55172e-75 (9.29e-56)	7.55172e-75 (9.29e-56)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999773	0.999773	0.999773	0.999773
PhCHCCH2+H	0.000209655	0.999983	0.000209655	0.999983
rad6	7.41591e-06	0.999990	7.41591e-06	0.999990
PhCCH+CH3	3.02711e-06	0.999993	3.02711e-06	0.999993
PhCCCH3+H	1.92093e-06	0.999995	1.92093e-06	0.999995
C2H2+PhCH2	1.42049e-06	0.999996	1.42049e-06	0.999996
Ph+MeAc	1.38375e-06	0.999998	1.38375e-06	0.999998
rad9	1.34447e-06	0.999999	1.34447e-06	0.999999
rad67	4.51993e-07	1.000000	4.51993e-07	1.000000
rad35	2.00409e-07	1.000000	2.00409e-07	1.000000
Ph+Allene	3.69349e-08	1.000000	3.69349e-08	1.000000
rad28	1.00707e-08	1.000000	1.00707e-08	1.000000
rad2	8.91173e-09	1.000000	8.91173e-09	1.000000
PhCH2CCH+H	4.71690e-09	1.000000	4.71690e-09	1.000000
rad37	4.11480e-09	1.000000	4.11480e-09	1.000000
PAH7+H	3.57000e-09	1.000000	3.57000e-09	1.000000
rad30	3.5522e-09	1.000000	3.5522e-09	1.000000
rad26	2.76415e-09	1.000000	2.76415e-09	1.000000
rad7	1.50970e-09	1.000000	1.50970e-09	1.000000
rad39	9.95806e-10	1.000000	9.95806e-10	1.000000
rad15	9.70464e-10	1.000000	9.70464e-10	1.000000
rad10	6.90674e-10	1.000000	6.90674e-10	1.000000
rad1	5.63229e-10	1.000000	5.63229e-10	1.000000
rad11	5.07787e-10	1.000000	5.07787e-10	1.000000

rad23	2.69892e-10	1.000000	2.69892e-10	1.000000
PAH9+H	1.18010e-10	1.000000	1.18010e-10	1.000000
rad3	9.81522e-11	1.000000	9.81522e-11	1.000000
rad38	5.40490e-11	1.000000	5.40490e-11	1.000000
rad4	4.95796e-11	1.000000	4.95796e-11	1.000000
rad60syn	1.51979e-11	1.000000	1.51979e-11	1.000000
rad45	9.40558e-12	1.000000	9.40558e-12	1.000000
rad60anti	7.41157e-12	1.000000	7.41157e-12	1.000000
PAH3+H	5.96165e-12	1.000000	5.96165e-12	1.000000
rad13	4.57751e-12	1.000000	4.57751e-12	1.000000
PAH10+CH3	4.44500e-12	1.000000	4.44500e-12	1.000000
rad46	2.84906e-12	1.000000	2.84906e-12	1.000000
rad59	1.23877e-12	1.000000	1.23877e-12	1.000000
rad22	7.76027e-13	1.000000	7.76027e-13	1.000000
rad36	5.76776e-13	1.000000	5.76776e-13	1.000000
PhcycC3H3_A+H	4.35577e-13	1.000000	4.35577e-13	1.000000
rad43	2.15886e-13	1.000000	2.15886e-13	1.000000
rad62	3.95459e-14	1.000000	3.95459e-14	1.000000
rad54	3.10568e-14	1.000000	3.10568e-14	1.000000
rad50	1.73694e-14	1.000000	1.73694e-14	1.000000
rad14	9.66790e-15	1.000000	9.66790e-15	1.000000
rad27	7.21667e-15	1.000000	7.21667e-15	1.000000
rad12	6.34946e-15	1.000000	6.34946e-15	1.000000
rad33	6.14801e-15	1.000000	6.14801e-15	1.000000
rad25	3.44691e-15	1.000000	3.44691e-15	1.000000
rad19anti	1.00148e-15	1.000000	1.00148e-15	1.000000
rad70	7.28433e-16	1.000000	7.28433e-16	1.000000
PAH1+H	2.03769e-16	1.000000	2.03769e-16	1.000000
rad55	1.82230e-16	1.000000	1.82230e-16	1.000000
rad52	1.05856e-16	1.000000	1.05856e-16	1.000000
rad58	6.51259e-17	1.000000	6.51259e-17	1.000000
Phenyl+cycC3H4	5.25631e-17	1.000000	0.00000	1.000000
rad5	3.65183e-17	1.000000	3.65183e-17	1.000000
rad51	2.48837e-17	1.000000	2.48837e-17	1.000000
rad18	1.20505e-17	1.000000	1.20505e-17	1.000000
rad34	6.33556e-18	1.000000	6.33556e-18	1.000000
rad20	2.27650e-18	1.000000	2.27650e-18	1.000000
rad41	2.19359e-18	1.000000	2.19359e-18	1.000000
rad42	2.00095e-18	1.000000	2.00095e-18	1.000000
rad21	1.44495e-18	1.000000	1.44495e-18	1.000000
rad65	4.87455e-19	1.000000	4.87455e-19	1.000000
rad31	1.72197e-19	1.000000	1.72197e-19	1.000000
rad24	7.15385e-20	1.000000	7.15385e-20	1.000000
PhcycC3H3_B+H	2.89756e-23	1.000000	2.89756e-23	1.000000
rad53	2.35108e-25	1.000000	2.35108e-25	1.000000
rad47	2.02868e-25	1.000000	2.02868e-25	1.000000
rad64	3.92594e-27	1.000000	3.92594e-27	1.000000
Benzene+cycloprop-2-enylidene	1.33923e-30	1.000000	1.33923e-30	1.000000
rad61	5.61359e-33	1.000000	5.61359e-33	1.000000
rad56	8.54807e-34	1.000000	8.54807e-34	1.000000
rad68syn	1.58928e-35	1.000000	1.58928e-35	1.000000
rad68anti	1.31866e-35	1.000000	1.31866e-35	1.000000
rad19syn	8.38629e-40	1.000000	8.38629e-40	1.000000
rad73	2.02206e-42	1.000000	2.02206e-42	1.000000
rad40syn	3.14007e-43	1.000000	3.14007e-43	1.000000
rad40anti	2.29047e-43	1.000000	2.29047e-43	1.000000
PAH8+H	1.52149e-46	1.000000	1.52149e-46	1.000000
rad71	1.72651e-49	1.000000	1.72651e-49	1.000000
Benzene+cycloprop-1-enylidene	9.28861e-56	1.000000	9.28861e-56	1.000000
rad8	2.20798e-56	1.000000	2.20798e-56	1.000000

1.00000000 Pa, 40.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.24819e-18 (1.00)	2.24819e-18 (1.00)
Formation of rad19	2.24819e-18 (1.00)	2.24819e-18 (1.00)
H-abstraction to cyc2enyl	1.72361e-40 (7.67e-23)	1.72361e-40 (7.67e-23)
H-abstraction to cyc1enyl	2.48792e-59 (1.11e-41)	2.48792e-59 (1.11e-41)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999769	0.999769	0.999769	0.999769
PhCHCCH2+H	0.000215506	0.999985	0.000215506	0.999985
rad6	6.22076e-06	0.999991	6.22076e-06	0.999991
PhCCH+CH3	3.21148e-06	0.999994	3.21148e-06	0.999994
PhCCCH3+H	2.00554e-06	0.999996	2.00554e-06	0.999996
C2H2+PhCH2	1.64255e-06	0.999998	1.64255e-06	0.999998
Ph+MeAc	1.45766e-06	0.999999	1.45766e-06	0.999999
rad67	4.68713e-07	1.000000	4.68713e-07	1.000000

rad35	2.07555e-07	1.000000	2.07555e-07	1.000000
rad9	8.22218e-08	1.000000	8.22218e-08	1.000000
Ph+Allene	4.94704e-08	1.000000	4.94704e-08	1.000000
rad28	8.29604e-09	1.000000	8.29604e-09	1.000000
rad2	6.83545e-09	1.000000	6.83545e-09	1.000000
PhCH2CCH+H	6.15165e-09	1.000000	6.15165e-09	1.000000
PAH7+H	5.44878e-09	1.000000	5.44878e-09	1.000000
rad37	4.39559e-09	1.000000	4.39559e-09	1.000000
rad30	3.71000e-09	1.000000	3.71000e-09	1.000000
rad39	1.52345e-09	1.000000	1.52345e-09	1.000000
rad7	1.17942e-09	1.000000	1.17942e-09	1.000000
rad26	1.08990e-09	1.000000	1.08990e-09	1.000000
rad10	5.14982e-10	1.000000	5.14982e-10	1.000000
rad1	4.32490e-10	1.000000	4.32490e-10	1.000000
rad11	3.86764e-10	1.000000	3.86764e-10	1.000000
rad23	1.50779e-10	1.000000	1.50779e-10	1.000000
PAH9+H	1.39245e-10	1.000000	1.39245e-10	1.000000
rad3	7.31016e-11	1.000000	7.31016e-11	1.000000
rad38	6.30274e-11	1.000000	6.30274e-11	1.000000
rad15	5.66591e-11	1.000000	5.66591e-11	1.000000
rad4	3.69342e-11	1.000000	3.69342e-11	1.000000
rad60syn	1.60296e-11	1.000000	1.60296e-11	1.000000
rad60anti	7.82445e-12	1.000000	7.82445e-12	1.000000
PAH3+H	6.36783e-12	1.000000	6.36783e-12	1.000000
PAH10+CH3	5.04141e-12	1.000000	5.04141e-12	1.000000
rad45	4.80716e-12	1.000000	4.80716e-12	1.000000
rad13	3.58494e-12	1.000000	3.58494e-12	1.000000
rad46	3.37578e-12	1.000000	3.37578e-12	1.000000
rad59	1.32078e-12	1.000000	1.32078e-12	1.000000
PhcycC3H3_A+H	4.94735e-13	1.000000	4.94735e-13	1.000000
rad22	3.63227e-13	1.000000	3.63227e-13	1.000000
rad36	2.94688e-13	1.000000	2.94688e-13	1.000000
rad43	2.37823e-13	1.000000	2.37823e-13	1.000000
rad54	4.74651e-14	1.000000	4.74651e-14	1.000000
rad62	4.42690e-14	1.000000	4.42690e-14	1.000000
rad50	2.07814e-14	1.000000	2.07814e-14	1.000000
rad14	6.91575e-15	1.000000	6.91575e-15	1.000000
rad27	5.21399e-15	1.000000	5.21399e-15	1.000000
rad33	5.01848e-15	1.000000	5.01848e-15	1.000000
rad25	2.63081e-15	1.000000	2.63081e-15	1.000000
rad70	9.75477e-16	1.000000	9.75477e-16	1.000000
rad12	3.88538e-16	1.000000	3.88538e-16	1.000000
rad55	2.86120e-16	1.000000	2.86120e-16	1.000000
PAH1+H	2.63958e-16	1.000000	2.63958e-16	1.000000
rad52	1.27759e-16	1.000000	1.27759e-16	1.000000
Phenyl+cycC3H4	1.15738e-16	1.000000	0.00000	1.000000
rad58	7.27557e-17	1.000000	7.27557e-17	1.000000
rad19anti	5.77855e-17	1.000000	5.77855e-17	1.000000
rad51	3.03762e-17	1.000000	3.03762e-17	1.000000
rad5	1.30237e-17	1.000000	1.30237e-17	1.000000
rad34	8.71199e-18	1.000000	8.71199e-18	1.000000
rad18	3.67001e-18	1.000000	3.67001e-18	1.000000
rad41	2.72071e-18	1.000000	2.72071e-18	1.000000
rad42	2.44186e-18	1.000000	2.44186e-18	1.000000
rad20	9.43059e-19	1.000000	9.43059e-19	1.000000
rad21	6.03118e-19	1.000000	6.03118e-19	1.000000
rad65	5.98068e-19	1.000000	5.98068e-19	1.000000
rad31	1.32338e-19	1.000000	1.32338e-19	1.000000
rad24	3.67821e-20	1.000000	3.67821e-20	1.000000
Benzene+cycloprop-2-enylidene	7.66665e-23	1.000000	7.66665e-23	1.000000
PhcycC3H3_B+H	3.78841e-23	1.000000	3.78841e-23	1.000000
rad53	4.54508e-25	1.000000	4.54508e-25	1.000000
rad47	1.61368e-25	1.000000	1.61368e-25	1.000000
rad64	7.25273e-27	1.000000	7.25273e-27	1.000000
rad61	7.01829e-33	1.000000	7.01829e-33	1.000000
rad56	1.12868e-33	1.000000	1.12868e-33	1.000000
rad68syn	1.95501e-35	1.000000	1.95501e-35	1.000000
rad68anti	1.62600e-35	1.000000	1.62600e-35	1.000000
rad19syn	8.61373e-40	1.000000	8.61373e-40	1.000000
Benzene+cycloprop-1-enylidene	1.10663e-41	1.000000	1.10663e-41	1.000000
rad73	1.89855e-42	1.000000	1.89855e-42	1.000000
rad40syn	2.50347e-43	1.000000	2.50347e-43	1.000000
rad40anti	1.85609e-43	1.000000	1.85609e-43	1.000000
PAH8+H	8.96767e-47	1.000000	8.96767e-47	1.000000
rad71	9.76261e-50	1.000000	9.76261e-50	1.000000
rad8	1.48016e-56	1.000000	1.48016e-56	1.000000

1.00000000 Pa, 50.0000000 K

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Rate constant | True (fraction) Effective (fraction)


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Total | 1.72707e-17 (1.00 ) 1.72707e-17 (1.00 )
Formation of rad19 | 1.72707e-17 (1.00 ) 1.72707e-17 (1.00 )
H-abstraction to cyc2enyl | 5.49905e-35 (3.18e-18) 5.49905e-35 (3.18e-18)
H-abstraction to cyclenyl | 4.93090e-50 (2.86e-33) 4.93090e-50 (2.86e-33)

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species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999764	0.999764	0.999764	0.999764
PhCHCCH2+H	0.000220836	0.999985	0.000220836	0.999985
rad6	5.23747e-06	0.999990	5.23747e-06	0.999990
PhCCH+CH3	3.37462e-06	0.999993	3.37462e-06	0.999993
PhCCCH3+H	2.08061e-06	0.999996	2.08061e-06	0.999996
C2H2+PhCH2	1.83951e-06	0.999997	1.83951e-06	0.999997
Ph+MeAc	1.52337e-06	0.999999	1.52337e-06	0.999999
rad67	4.84347e-07	0.999999	4.84347e-07	0.999999
rad35	2.14212e-07	1.000000	2.14212e-07	1.000000
Ph+Allene	6.11832e-08	1.000000	6.11832e-08	1.000000
rad9	1.08654e-08	1.000000	1.08654e-08	1.000000
PhCH2CCH+H	7.52551e-09	1.000000	7.52551e-09	1.000000
PAH7+H	7.16769e-09	1.000000	7.16769e-09	1.000000
rad28	6.84574e-09	1.000000	6.84574e-09	1.000000
rad2	5.70279e-09	1.000000	5.70279e-09	1.000000
rad37	4.62939e-09	1.000000	4.62939e-09	1.000000
rad30	3.85346e-09	1.000000	3.85346e-09	1.000000
rad39	2.00697e-09	1.000000	2.00697e-09	1.000000
rad7	9.46975e-10	1.000000	9.46975e-10	1.000000
rad26	7.45939e-10	1.000000	7.45939e-10	1.000000
rad10	4.21829e-10	1.000000	4.21829e-10	1.000000
rad1	3.61408e-10	1.000000	3.61408e-10	1.000000
rad11	3.05365e-10	1.000000	3.05365e-10	1.000000
PAH9+H	1.58736e-10	1.000000	1.58736e-10	1.000000
rad23	9.47569e-11	1.000000	9.47569e-11	1.000000
rad38	7.12352e-11	1.000000	7.12352e-11	1.000000
rad3	5.90924e-11	1.000000	5.90924e-11	1.000000
rad4	2.98663e-11	1.000000	2.98663e-11	1.000000
rad60syn	1.68306e-11	1.000000	1.68306e-11	1.000000
rad60anti	8.22328e-12	1.000000	8.22328e-12	1.000000
rad15	7.26003e-12	1.000000	7.26003e-12	1.000000
PAH3+H	6.77478e-12	1.000000	6.77478e-12	1.000000
PAH10+CH3	5.58217e-12	1.000000	5.58217e-12	1.000000
rad46	3.87099e-12	1.000000	3.87099e-12	1.000000
rad13	2.89082e-12	1.000000	2.89082e-12	1.000000
rad45	2.84626e-12	1.000000	2.84626e-12	1.000000
rad59	1.40250e-12	1.000000	1.40250e-12	1.000000
PhcycC3H3_A+H	5.79234e-13	1.000000	5.79234e-13	1.000000
rad43	2.58805e-13	1.000000	2.58805e-13	1.000000
rad22	2.01177e-13	1.000000	2.01177e-13	1.000000
rad36	1.74408e-13	1.000000	1.74408e-13	1.000000
rad54	6.44724e-14	1.000000	6.44724e-14	1.000000
rad62	4.88499e-14	1.000000	4.88499e-14	1.000000
rad50	2.41803e-14	1.000000	2.41803e-14	1.000000
rad14	5.44708e-15	1.000000	5.44708e-15	1.000000
rad27	4.19069e-15	1.000000	4.19069e-15	1.000000
rad33	4.16855e-15	1.000000	4.16855e-15	1.000000
rad25	2.09043e-15	1.000000	2.09043e-15	1.000000
rad70	1.24655e-15	1.000000	1.24655e-15	1.000000
rad55	4.00253e-16	1.000000	4.00253e-16	1.000000
PAH1+H	3.30531e-16	1.000000	3.30531e-16	1.000000
Phenyl+cycC3H4	2.36668e-16	1.000000	0.000000	1.000000
rad52	1.50390e-16	1.000000	1.50390e-16	1.000000
rad58	8.13300e-17	1.000000	8.13300e-17	1.000000
rad12	5.14693e-17	1.000000	5.14693e-17	1.000000
rad51	3.62795e-17	1.000000	3.62795e-17	1.000000
rad34	1.15373e-17	1.000000	1.15373e-17	1.000000
rad19anti	7.38725e-18	1.000000	7.38725e-18	1.000000
rad5	6.39306e-18	1.000000	6.39306e-18	1.000000
rad41	3.37610e-18	1.000000	3.37610e-18	1.000000
Benzene+cycloprop-2-enylidene	3.18404e-18	1.000000	3.18404e-18	1.000000
rad42	2.95975e-18	1.000000	2.95975e-18	1.000000
rad18	1.56178e-18	1.000000	1.56178e-18	1.000000
rad65	7.19036e-19	1.000000	7.19036e-19	1.000000
rad20	5.08048e-19	1.000000	5.08048e-19	1.000000
rad21	3.26643e-19	1.000000	3.26643e-19	1.000000
rad31	1.10977e-19	1.000000	1.10977e-19	1.000000
rad24	2.19349e-20	1.000000	2.19349e-20	1.000000
PhcycC3H3_B+H	3.75164e-22	1.000000	3.75164e-22	1.000000
rad53	9.83325e-25	1.000000	9.83325e-25	1.000000
rad47	1.39287e-25	1.000000	1.39287e-25	1.000000
rad64	1.51563e-26	1.000000	1.51563e-26	1.000000

rad61	1.29455e-32	1.000000	1.29455e-32	1.000000
Benzene+cycloprop-1-enylidene	2.85507e-33	1.000000	2.85507e-33	1.000000
rad56	1.86855e-33	1.000000	1.86855e-33	1.000000
rad68syn	3.08124e-35	1.000000	3.08124e-35	1.000000
rad68anti	2.56700e-35	1.000000	2.56700e-35	1.000000
rad19syn	1.15716e-39	1.000000	1.15716e-39	1.000000
rad73	2.49768e-42	1.000000	2.49768e-42	1.000000
rad40syn	2.96662e-43	1.000000	2.96662e-43	1.000000
rad40anti	2.22109e-43	1.000000	2.22109e-43	1.000000
PAH8+H	8.80516e-47	1.000000	8.80516e-47	1.000000
rad71	9.34905e-50	1.000000	9.34905e-50	1.000000
rad8	1.29253e-56	1.000000	1.29253e-56	1.000000

1.00000000 Pa, 60.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.93738e-17 (1.00)	6.93738e-17 (1.00)
Formation of rad19	6.93738e-17 (1.000)	6.93738e-17 (1.000)
H-abstraction to cyc2enyl	2.50609e-31 (3.61e-15)	2.50609e-31 (3.61e-15)
H-abstraction to cyclenyl	7.62015e-44 (1.10e-27)	7.62015e-44 (1.10e-27)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999759	0.999759	0.999759	0.999759
PhCHCCH2+H	0.000226156	0.999985	0.000226156	0.999985
rad6	4.42562e-06	0.999990	4.42562e-06	0.999990
PhCCH+CH3	3.52807e-06	0.999993	3.52807e-06	0.999993
PhCCCH3+H	2.15337e-06	0.999995	2.15337e-06	0.999995
C2H2+PhCH2	2.02071e-06	0.999997	2.02071e-06	0.999997
Ph+MeAc	1.58760e-06	0.999999	1.58760e-06	0.999999
rad67	5.00218e-07	0.999999	5.00218e-07	0.999999
rad35	2.20954e-07	1.000000	2.20954e-07	1.000000
Ph+Allene	7.24451e-08	1.000000	7.24451e-08	1.000000
PhCH2CCH+H	8.88046e-09	1.000000	8.88046e-09	1.000000
PAH7+H	8.77497e-09	1.000000	8.77497e-09	1.000000
rad28	5.68592e-09	1.000000	5.68592e-09	1.000000
rad37	4.85426e-09	1.000000	4.85426e-09	1.000000
rad2	4.82159e-09	1.000000	4.82159e-09	1.000000
rad30	3.99650e-09	1.000000	3.99650e-09	1.000000
rad39	2.45967e-09	1.000000	2.45967e-09	1.000000
rad9	2.25408e-09	1.000000	2.25408e-09	1.000000
rad7	7.72562e-10	1.000000	7.72562e-10	1.000000
rad26	5.97522e-10	1.000000	5.97522e-10	1.000000
rad10	3.51851e-10	1.000000	3.51851e-10	1.000000
rad1	3.06177e-10	1.000000	3.06177e-10	1.000000
rad11	2.46061e-10	1.000000	2.46061e-10	1.000000
PAH9+H	1.77340e-10	1.000000	1.77340e-10	1.000000
rad38	7.91299e-11	1.000000	7.91299e-11	1.000000
rad23	6.36860e-11	1.000000	6.36860e-11	1.000000
rad3	4.87271e-11	1.000000	4.87271e-11	1.000000
rad4	2.46382e-11	1.000000	2.46382e-11	1.000000
rad60syn	1.76539e-11	1.000000	1.76539e-11	1.000000
rad60anti	8.63421e-12	1.000000	8.63421e-12	1.000000
PAH3+H	7.20572e-12	1.000000	7.20572e-12	1.000000
PAH10+CH3	6.13522e-12	1.000000	6.13522e-12	1.000000
rad46	4.35543e-12	1.000000	4.35543e-12	1.000000
rad13	2.36985e-12	1.000000	2.36985e-12	1.000000
rad45	1.83020e-12	1.000000	1.83020e-12	1.000000
rad59	1.48866e-12	1.000000	1.48866e-12	1.000000
rad15	1.47225e-12	1.000000	1.47225e-12	1.000000
PhcycC3H3_A+H	6.88848e-13	1.000000	6.88848e-13	1.000000
rad43	2.80731e-13	1.000000	2.80731e-13	1.000000
rad22	1.22701e-13	1.000000	1.22701e-13	1.000000
rad36	1.12103e-13	1.000000	1.12103e-13	1.000000
rad54	8.25504e-14	1.000000	8.25504e-14	1.000000
rad62	5.36545e-14	1.000000	5.36545e-14	1.000000
rad50	2.77058e-14	1.000000	2.77058e-14	1.000000
rad14	4.41093e-15	1.000000	4.41093e-15	1.000000
Benzene+cycloprop-2-enylidene	3.61245e-15	1.000000	3.61245e-15	1.000000
rad33	3.49653e-15	1.000000	3.49653e-15	1.000000
rad27	3.45216e-15	1.000000	3.45216e-15	1.000000
rad25	1.69737e-15	1.000000	1.69737e-15	1.000000
rad70	1.55143e-15	1.000000	1.55143e-15	1.000000
rad55	5.28604e-16	1.000000	5.28604e-16	1.000000
Phenyl+cycC3H4	4.45921e-16	1.000000	0.000000	1.000000
PAH1+H	4.08280e-16	1.000000	4.08280e-16	1.000000
rad52	1.74711e-16	1.000000	1.74711e-16	1.000000
rad58	9.12139e-17	1.000000	9.12139e-17	1.000000
rad51	4.28645e-17	1.000000	4.28645e-17	1.000000

rad34	1.49561e-17	1.000000	1.49561e-17	1.000000
rad12	1.07153e-17	1.000000	1.07153e-17	1.000000
rad41	4.20316e-18	1.000000	4.20316e-18	1.000000
rad42	3.59597e-18	1.000000	3.59597e-18	1.000000
rad5	3.58503e-18	1.000000	3.58503e-18	1.000000
rad19anti	1.50080e-18	1.000000	1.50080e-18	1.000000
rad65	8.56254e-19	1.000000	8.56254e-19	1.000000
rad18	7.97815e-19	1.000000	7.97815e-19	1.000000
rad20	3.14244e-19	1.000000	3.14244e-19	1.000000
rad21	2.02890e-19	1.000000	2.02890e-19	1.000000
rad31	9.47008e-20	1.000000	9.47008e-20	1.000000
PhcycC3H3_B+H	1.49179e-20	1.000000	1.49179e-20	1.000000
rad24	1.42128e-20	1.000000	1.42128e-20	1.000000
rad53	2.55641e-24	1.000000	2.55641e-24	1.000000
rad47	1.24984e-25	1.000000	1.24984e-25	1.000000
rad64	3.82628e-26	1.000000	3.82628e-26	1.000000
Benzene+cycloprop-1-enylidene	1.09842e-27	1.000000	1.09842e-27	1.000000
rad61	3.56154e-32	1.000000	3.56154e-32	1.000000
rad56	4.01952e-33	1.000000	4.01952e-33	1.000000
rad68syn	6.40678e-35	1.000000	6.40678e-35	1.000000
rad68anti	5.34376e-35	1.000000	5.34376e-35	1.000000
rad19syn	1.80509e-39	1.000000	1.80509e-39	1.000000
rad73	4.60119e-42	1.000000	4.60119e-42	1.000000
rad40syn	5.12641e-43	1.000000	5.12641e-43	1.000000
rad40anti	3.86268e-43	1.000000	3.86268e-43	1.000000
PAH8+H	1.34893e-46	1.000000	1.34893e-46	1.000000
rad71	1.41020e-49	1.000000	1.41020e-49	1.000000
rad8	1.26502e-56	1.000000	1.26502e-56	1.000000

1.00000000 Pa, 70.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.91520e-16 (1.00)	1.91520e-16 (1.00)
Formation of rad19	1.91520e-16 (1.000)	1.91520e-16 (1.000)
H-abstraction to cyc2enyl	1.01125e-28 (5.28e-13)	1.01125e-28 (5.28e-13)
H-abstraction to cyclenyl	1.97822e-39 (1.03e-23)	1.97822e-39 (1.03e-23)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999754	0.999754	0.999754	0.999754
PhCHCCH2+H	0.000231618	0.999986	0.000231618	0.999986
rad6	3.74971e-06	0.999989	3.74971e-06	0.999989
PhCCH+CH3	3.67648e-06	0.999993	3.67648e-06	0.999993
PhCCCH3+H	2.22623e-06	0.999995	2.22623e-06	0.999995
C2H2+PhCH2	2.19139e-06	0.999997	2.19139e-06	0.999997
Ph+MeAc	1.65260e-06	0.999999	1.65260e-06	0.999999
rad67	5.16735e-07	1.000000	5.16735e-07	1.000000
rad35	2.27957e-07	1.000000	2.27957e-07	1.000000
Ph+Allene	8.35023e-08	1.000000	8.35023e-08	1.000000
PAH7+H	1.03077e-08	1.000000	1.03077e-08	1.000000
PhCH2CCH+H	1.02444e-08	1.000000	1.02444e-08	1.000000
rad37	5.08250e-09	1.000000	5.08250e-09	1.000000
rad28	4.74863e-09	1.000000	4.74863e-09	1.000000
rad30	4.14287e-09	1.000000	4.14287e-09	1.000000
rad2	4.09087e-09	1.000000	4.09087e-09	1.000000
rad39	2.89185e-09	1.000000	2.89185e-09	1.000000
rad7	6.36725e-10	1.000000	6.36725e-10	1.000000
rad9	6.28831e-10	1.000000	6.28831e-10	1.000000
rad26	5.00052e-10	1.000000	5.00052e-10	1.000000
rad10	2.95367e-10	1.000000	2.95367e-10	1.000000
rad1	2.60384e-10	1.000000	2.60384e-10	1.000000
rad11	2.00843e-10	1.000000	2.00843e-10	1.000000
PAH9+H	1.95529e-10	1.000000	1.95529e-10	1.000000
rad38	8.69363e-11	1.000000	8.69363e-11	1.000000
rad23	4.47007e-11	1.000000	4.47007e-11	1.000000
rad3	4.05314e-11	1.000000	4.05314e-11	1.000000
rad4	2.05049e-11	1.000000	2.05049e-11	1.000000
rad60syn	1.85188e-11	1.000000	1.85188e-11	1.000000
rad60anti	9.06675e-12	1.000000	9.06675e-12	1.000000
PAH3+H	7.67027e-12	1.000000	7.67027e-12	1.000000
PAH10+CH3	6.72871e-12	1.000000	6.72871e-12	1.000000
rad46	4.84050e-12	1.000000	4.84050e-12	1.000000
rad13	1.96295e-12	1.000000	1.96295e-12	1.000000
rad59	1.58120e-12	1.000000	1.58120e-12	1.000000
rad45	1.24063e-12	1.000000	1.24063e-12	1.000000
PhcycC3H3_A+H	8.27811e-13	1.000000	8.27811e-13	1.000000
Benzene+cycloprop-2-enylidene	5.28015e-13	1.000000	5.28015e-13	1.000000
rad15	4.03453e-13	1.000000	4.03453e-13	1.000000
rad43	3.04387e-13	1.000000	3.04387e-13	1.000000

rad54	1.02125e-13	1.000000	1.02125e-13	1.000000
rad22	7.96641e-14	1.000000	7.96641e-14	1.000000
rad36	7.59668e-14	1.000000	7.59668e-14	1.000000
rad62	5.88442e-14	1.000000	5.88442e-14	1.000000
rad50	3.14422e-14	1.000000	3.14422e-14	1.000000
rad14	3.62021e-15	1.000000	3.62021e-15	1.000000
rad33	2.95059e-15	1.000000	2.95059e-15	1.000000
rad27	2.87294e-15	1.000000	2.87294e-15	1.000000
rad70	1.89972e-15	1.000000	1.89972e-15	1.000000
rad25	1.39652e-15	1.000000	1.39652e-15	1.000000
Phenyl+cycC3H4	7.87809e-16	1.000000	0.00000	1.000000
rad55	6.75349e-16	1.000000	6.75349e-16	1.000000
PAH1+H	5.01235e-16	1.000000	5.01235e-16	1.000000
rad52	2.01383e-16	1.000000	2.01383e-16	1.000000
rad58	1.02708e-16	1.000000	1.02708e-16	1.000000
rad51	5.03484e-17	1.000000	5.03484e-17	1.000000
rad34	1.91453e-17	1.000000	1.91453e-17	1.000000
rad41	5.24528e-18	1.000000	5.24528e-18	1.000000
rad42	4.38513e-18	1.000000	4.38513e-18	1.000000
rad12	3.00217e-18	1.000000	3.00217e-18	1.000000
rad5	2.17498e-18	1.000000	2.17498e-18	1.000000
rad65	1.01473e-18	1.000000	1.01473e-18	1.000000
rad18	4.56924e-19	1.000000	4.56924e-19	1.000000
rad19anti	4.12960e-19	1.000000	4.12960e-19	1.000000
PhcycC3H3_B+H	2.38925e-19	1.000000	2.38925e-19	1.000000
rad20	2.11513e-19	1.000000	2.11513e-19	1.000000
rad21	1.37054e-19	1.000000	1.37054e-19	1.000000
rad31	8.13774e-20	1.000000	8.13774e-20	1.000000
rad24	9.71057e-21	1.000000	9.71057e-21	1.000000
Benzene+cycloprop-1-enylidene	1.03290e-23	1.000000	1.03290e-23	1.000000
rad53	8.56745e-24	1.000000	8.56745e-24	1.000000
rad64	1.30313e-25	1.000000	1.30313e-25	1.000000
rad47	1.14712e-25	1.000000	1.14712e-25	1.000000
rad61	2.50176e-31	1.000000	2.50176e-31	1.000000
rad56	1.26833e-32	1.000000	1.26833e-32	1.000000
rad68syn	1.97638e-34	1.000000	1.97638e-34	1.000000
rad68anti	1.64976e-34	1.000000	1.64976e-34	1.000000
rad19syn	3.07657e-39	1.000000	3.07657e-39	1.000000
rad73	1.31222e-41	1.000000	1.31222e-41	1.000000
rad40syn	1.43446e-42	1.000000	1.43446e-42	1.000000
rad40anti	1.08707e-42	1.000000	1.08707e-42	1.000000
PAH8+H	3.45439e-46	1.000000	3.45439e-46	1.000000
rad71	3.56222e-49	1.000000	3.56222e-49	1.000000
rad8	1.32547e-56	1.000000	1.32547e-56	1.000000

1.00000000 Pa, 80.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.17084e-16 (1.00)	4.17084e-16 (1.00)
Formation of rad19	4.17084e-16 (1.000)	4.17084e-16 (1.000)
H-abstraction to cyc2enyl	8.98751e-27 (2.15e-11)	8.98751e-27 (2.15e-11)
H-abstraction to cyclenyl	4.00120e-36 (9.59e-21)	4.00120e-36 (9.59e-21)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999748	0.999748	0.999748	0.999748
PhCHCCH2+H	0.000237305	0.999985	0.000237305	0.999985
PhCCH+CH3	3.82284e-06	0.999989	3.82284e-06	0.999989
rad6	3.18279e-06	0.999992	3.18279e-06	0.999992
C2H2+PhCH2	2.35533e-06	0.999995	2.35533e-06	0.999995
PhCCCH3+H	2.30056e-06	0.999997	2.30056e-06	0.999997
Ph+MeAc	1.71967e-06	0.999999	1.71967e-06	0.999999
rad67	5.34144e-07	0.999999	5.34144e-07	0.999999
rad35	2.35325e-07	0.999999	2.35325e-07	0.999999
Ph+Allene	9.45550e-08	1.000000	9.45550e-08	1.000000
PAH7+H	1.17959e-08	1.000000	1.17959e-08	1.000000
PhCH2CCH+H	1.16413e-08	1.000000	1.16413e-08	1.000000
rad37	5.32047e-09	1.000000	5.32047e-09	1.000000
rad30	4.29491e-09	1.000000	4.29491e-09	1.000000
rad28	3.98185e-09	1.000000	3.98185e-09	1.000000
rad2	3.47544e-09	1.000000	3.47544e-09	1.000000
rad39	3.31184e-09	1.000000	3.31184e-09	1.000000
rad7	5.28361e-10	1.000000	5.28361e-10	1.000000
rad26	4.24274e-10	1.000000	4.24274e-10	1.000000
rad10	2.48758e-10	1.000000	2.48758e-10	1.000000
rad1	2.21796e-10	1.000000	2.21796e-10	1.000000
rad9	2.16268e-10	1.000000	2.16268e-10	1.000000
PAH9+H	2.13655e-10	1.000000	2.13655e-10	1.000000
rad11	1.65351e-10	1.000000	1.65351e-10	1.000000

rad38	9.48156e-11	1.000000	9.48156e-11	1.000000
rad3	3.38841e-11	1.000000	3.38841e-11	1.000000
rad23	3.23357e-11	1.000000	3.23357e-11	1.000000
Benzene+cycloprop-2-enylidene	2.15484e-11	1.000000	2.15484e-11	1.000000
rad60syn	1.94389e-11	1.000000	1.94389e-11	1.000000
rad4	1.71524e-11	1.000000	1.71524e-11	1.000000
rad60anti	9.52779e-12	1.000000	9.52779e-12	1.000000
PAH3+H	8.17654e-12	1.000000	8.17654e-12	1.000000
PAH10+CH3	7.38206e-12	1.000000	7.38206e-12	1.000000
rad46	5.33517e-12	1.000000	5.33517e-12	1.000000
rad59	1.68169e-12	1.000000	1.68169e-12	1.000000
rad13	1.63705e-12	1.000000	1.63705e-12	1.000000
PhcycC3H3_A+H	1.00317e-12	1.000000	1.00317e-12	1.000000
rad45	8.72215e-13	1.000000	8.72215e-13	1.000000
rad43	3.30355e-13	1.000000	3.30355e-13	1.000000
rad15	1.36748e-13	1.000000	1.36748e-13	1.000000
rad54	1.23654e-13	1.000000	1.23654e-13	1.000000
rad62	6.45447e-14	1.000000	6.45447e-14	1.000000
rad22	5.40293e-14	1.000000	5.40293e-14	1.000000
rad36	5.33977e-14	1.000000	5.33977e-14	1.000000
rad50	3.54677e-14	1.000000	3.54677e-14	1.000000
rad14	2.99547e-15	1.000000	2.99547e-15	1.000000
rad33	2.49954e-15	1.000000	2.49954e-15	1.000000
rad27	2.40459e-15	1.000000	2.40459e-15	1.000000
rad70	2.30290e-15	1.000000	2.30290e-15	1.000000
Phenyl+cycC3H4	1.32430e-15	1.000000	0.00000	1.000000
rad25	1.15891e-15	1.000000	1.15891e-15	1.000000
rad55	8.45489e-16	1.000000	8.45489e-16	1.000000
PAH1+H	6.14139e-16	1.000000	6.14139e-16	1.000000
rad52	2.31084e-16	1.000000	2.31084e-16	1.000000
rad58	1.16184e-16	1.000000	1.16184e-16	1.000000
rad51	5.89774e-17	1.000000	5.89774e-17	1.000000
rad34	2.43365e-17	1.000000	2.43365e-17	1.000000
rad41	6.56223e-18	1.000000	6.56223e-18	1.000000
rad42	5.37009e-18	1.000000	5.37009e-18	1.000000
PhcycC3H3_B+H	1.96248e-18	1.000000	1.96248e-18	1.000000
rad5	1.39235e-18	1.000000	1.39235e-18	1.000000
rad65	1.20033e-18	1.000000	1.20033e-18	1.000000
rad12	1.03758e-18	1.000000	1.03758e-18	1.000000
rad18	2.82869e-19	1.000000	2.82869e-19	1.000000
rad20	1.50660e-19	1.000000	1.50660e-19	1.000000
rad19anti	1.40740e-19	1.000000	1.40740e-19	1.000000
rad21	9.79386e-20	1.000000	9.79386e-20	1.000000
rad31	7.02298e-20	1.000000	7.02298e-20	1.000000
Benzene+cycloprop-1-enylidene	9.59328e-21	1.000000	9.59328e-21	1.000000
rad24	6.88202e-21	1.000000	6.88202e-21	1.000000
rad53	3.35368e-23	1.000000	3.35368e-23	1.000000
rad64	6.17823e-25	1.000000	6.17823e-25	1.000000
rad47	1.06884e-25	1.000000	1.06884e-25	1.000000
rad61	1.05803e-29	1.000000	1.05803e-29	1.000000
rad56	8.79720e-32	1.000000	8.79720e-32	1.000000
rad68syn	1.42090e-33	1.000000	1.42090e-33	1.000000
rad68anti	1.18606e-33	1.000000	1.18606e-33	1.000000
rad19syn	5.56522e-39	1.000000	5.56522e-39	1.000000
rad73	8.70905e-41	1.000000	8.70905e-41	1.000000
rad40syn	1.12930e-41	1.000000	1.12930e-41	1.000000
rad40anti	8.69852e-42	1.000000	8.69852e-42	1.000000
PAH8+H	2.29557e-45	1.000000	2.29557e-45	1.000000
rad71	2.21843e-48	1.000000	2.21843e-48	1.000000
rad8	1.45552e-56	1.000000	1.45552e-56	1.000000

1.00000000 Pa, 90.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.74016e-16 (1.00)	7.74016e-16 (1.00)
Formation of rad19	7.74016e-16 (1.000)	7.74016e-16 (1.000)
H-abstraction to cyc2enyl	2.91736e-25 (3.77e-10)	2.91736e-25 (3.77e-10)
H-abstraction to cyclenyl	1.47814e-33 (1.91e-18)	1.47814e-33 (1.91e-18)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999742	0.999742	0.999742	0.999742
PhCHCCH2+H	0.000243276	0.999985	0.000243276	0.999985
PhCCH+CH3	3.96933e-06	0.999989	3.96933e-06	0.999989
rad6	2.70443e-06	0.999992	2.70443e-06	0.999992
C2H2+PhCH2	2.51548e-06	0.999994	2.51548e-06	0.999994
PhCCCH3+H	2.37736e-06	0.999997	2.37736e-06	0.999997
Ph+MeAc	1.78973e-06	0.999999	1.78973e-06	0.999999
rad67	5.52633e-07	0.999999	5.52633e-07	0.999999

rad35	2.43137e-07	0.999999	2.43137e-07	0.999999
Ph+Allene	1.05776e-07	1.000000	1.05776e-07	1.000000
PAH7+H	1.32644e-08	1.000000	1.32644e-08	1.000000
PhCH2CCH+H	1.30931e-08	1.000000	1.30931e-08	1.000000
rad37	5.57246e-09	1.000000	5.57246e-09	1.000000
rad30	4.45444e-09	1.000000	4.45444e-09	1.000000
rad39	3.72655e-09	1.000000	3.72655e-09	1.000000
rad28	3.34814e-09	1.000000	3.34814e-09	1.000000
rad2	2.95397e-09	1.000000	2.95397e-09	1.000000
rad7	4.40469e-10	1.000000	4.40469e-10	1.000000
Benzene+cycloprop-2-enylidene	3.76912e-10	1.000000	3.76912e-10	1.000000
rad26	3.61656e-10	1.000000	3.61656e-10	1.000000
PAH9+H	2.32008e-10	1.000000	2.32008e-10	1.000000
rad10	2.09891e-10	1.000000	2.09891e-10	1.000000
rad1	1.89069e-10	1.000000	1.89069e-10	1.000000
rad11	1.36936e-10	1.000000	1.36936e-10	1.000000
rad38	1.02900e-10	1.000000	1.02900e-10	1.000000
rad9	8.69173e-11	1.000000	8.69173e-11	1.000000
rad3	2.84167e-11	1.000000	2.84167e-11	1.000000
rad23	2.39109e-11	1.000000	2.39109e-11	1.000000
rad60syn	2.04263e-11	1.000000	2.04263e-11	1.000000
rad4	1.43948e-11	1.000000	1.43948e-11	1.000000
rad60anti	1.00234e-11	1.000000	1.00234e-11	1.000000
PAH3+H	8.73263e-12	1.000000	8.73263e-12	1.000000
PAH10+CH3	8.11269e-12	1.000000	8.11269e-12	1.000000
rad46	5.84730e-12	1.000000	5.84730e-12	1.000000
rad59	1.79169e-12	1.000000	1.79169e-12	1.000000
rad13	1.37152e-12	1.000000	1.37152e-12	1.000000
PhcycC3H3_A+H	1.22461e-12	1.000000	1.22461e-12	1.000000
rad45	6.29674e-13	1.000000	6.29674e-13	1.000000
rad43	3.59180e-13	1.000000	3.59180e-13	1.000000
rad54	1.47652e-13	1.000000	1.47652e-13	1.000000
rad62	7.08772e-14	1.000000	7.08772e-14	1.000000
rad15	5.42894e-14	1.000000	5.42894e-14	1.000000
rad50	3.98628e-14	1.000000	3.98628e-14	1.000000
rad36	3.85474e-14	1.000000	3.85474e-14	1.000000
rad22	3.78335e-14	1.000000	3.78335e-14	1.000000
rad70	2.77490e-15	1.000000	2.77490e-15	1.000000
rad14	2.49178e-15	1.000000	2.49178e-15	1.000000
Phenyl+cycC3H4	2.14284e-15	1.000000	0.00000	1.000000
rad33	2.12260e-15	1.000000	2.12260e-15	1.000000
rad27	2.01976e-15	1.000000	2.01976e-15	1.000000
rad55	1.04511e-15	1.000000	1.04511e-15	1.000000
rad25	9.67270e-16	1.000000	9.67270e-16	1.000000
PAH1+H	7.52963e-16	1.000000	7.52963e-16	1.000000
rad52	2.64577e-16	1.000000	2.64577e-16	1.000000
rad58	1.32104e-16	1.000000	1.32104e-16	1.000000
rad51	6.90470e-17	1.000000	6.90470e-17	1.000000
rad34	3.08329e-17	1.000000	3.08329e-17	1.000000
PhcycC3H3_B+H	1.04006e-17	1.000000	1.04006e-17	1.000000
rad41	8.23694e-18	1.000000	8.23694e-18	1.000000
rad42	6.60723e-18	1.000000	6.60723e-18	1.000000
Benzene+cycloprop-1-enylidene	1.90970e-18	1.000000	1.90970e-18	1.000000
rad65	1.42024e-18	1.000000	1.42024e-18	1.000000
rad5	9.27112e-19	1.000000	9.27112e-19	1.000000
rad12	4.19269e-19	1.000000	4.19269e-19	1.000000
rad18	1.85211e-19	1.000000	1.85211e-19	1.000000
rad20	1.11724e-19	1.000000	1.11724e-19	1.000000
rad21	7.28461e-20	1.000000	7.28461e-20	1.000000
rad31	6.08022e-20	1.000000	6.08022e-20	1.000000
rad19anti	5.62390e-20	1.000000	5.62390e-20	1.000000
rad24	5.00897e-21	1.000000	5.00897e-21	1.000000
rad53	1.26350e-22	1.000000	1.26350e-22	1.000000
rad64	3.25686e-24	1.000000	3.25686e-24	1.000000
rad47	1.00716e-25	1.000000	1.00716e-25	1.000000
rad61	4.25650e-28	1.000000	4.25650e-28	1.000000
rad56	1.88777e-30	1.000000	1.88777e-30	1.000000
rad68syn	4.19446e-32	1.000000	4.19446e-32	1.000000
rad68anti	3.47579e-32	1.000000	3.47579e-32	1.000000
rad19syn	1.05531e-38	1.000000	1.05531e-38	1.000000
rad73	4.19094e-39	1.000000	4.19094e-39	1.000000
rad40syn	7.34855e-40	1.000000	7.34855e-40	1.000000
rad40anti	5.81477e-40	1.000000	5.81477e-40	1.000000
PAH8+H	1.11075e-43	1.000000	1.11075e-43	1.000000
rad71	8.25133e-47	1.000000	8.25133e-47	1.000000
rad8	1.65526e-56	1.000000	1.65526e-56	1.000000

1.00000000 Pa, 100.000000 K

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Rate constant | True (fraction) Effective (fraction)

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Total | 1.28255e-15 (1.00 ) 1.28255e-15 (1.00 )
Formation of rad19 | 1.28255e-15 (1.000 ) 1.28255e-15 (1.000 )
H-abstraction to cyc2enyl | 4.68359e-24 (3.65e-09) 4.68359e-24 (3.65e-09)
H-abstraction to cyclenyl | 1.66242e-31 (1.30e-16) 1.66242e-31 (1.30e-16)

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species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999736	0.999736	0.999736	0.999736
PhCHCCH2+H	0.000249579	0.999986	0.000249579	0.999986
PhCCH+CH3	4.11771e-06	0.999990	4.11771e-06	0.999990
C2H2+PhCH2	2.67423e-06	0.999992	2.67423e-06	0.999992
PhCCCH3+H	2.45744e-06	0.999995	2.45744e-06	0.999995
rad6	2.29896e-06	0.999997	2.29896e-06	0.999997
Ph+MeAc	1.86356e-06	0.999999	1.86356e-06	0.999999
rad67	5.72373e-07	1.000000	5.72373e-07	1.000000
rad35	2.51464e-07	1.000000	2.51464e-07	1.000000
Ph+Allene	1.17323e-07	1.000000	1.17323e-07	1.000000
PAH7+H	1.47345e-08	1.000000	1.47345e-08	1.000000
PhCH2CCH+H	1.46212e-08	1.000000	1.46212e-08	1.000000
rad37	5.84202e-09	1.000000	5.84202e-09	1.000000
rad30	4.62307e-09	1.000000	4.62307e-09	1.000000
rad39	4.14195e-09	1.000000	4.14195e-09	1.000000
Benzene+cycloprop-2-enylidene	3.65179e-09	1.000000	3.65179e-09	1.000000
rad28	2.82027e-09	1.000000	2.82027e-09	1.000000
rad2	2.51060e-09	1.000000	2.51060e-09	1.000000
rad7	3.68334e-10	1.000000	3.68334e-10	1.000000
rad26	3.08700e-10	1.000000	3.08700e-10	1.000000
PAH9+H	2.50848e-10	1.000000	2.50848e-10	1.000000
rad10	1.77272e-10	1.000000	1.77272e-10	1.000000
rad1	1.61210e-10	1.000000	1.61210e-10	1.000000
rad11	1.13863e-10	1.000000	1.13863e-10	1.000000
rad38	1.11310e-10	1.000000	1.11310e-10	1.000000
rad9	3.94106e-11	1.000000	3.94106e-11	1.000000
rad3	2.38785e-11	1.000000	2.38785e-11	1.000000
rad60syn	2.14929e-11	1.000000	2.14929e-11	1.000000
rad23	1.79759e-11	1.000000	1.79759e-11	1.000000
rad4	1.21054e-11	1.000000	1.21054e-11	1.000000
rad60anti	1.05597e-11	1.000000	1.05597e-11	1.000000
PAH3+H	9.34740e-12	1.000000	9.34740e-12	1.000000
PAH10+CH3	8.93896e-12	1.000000	8.93896e-12	1.000000
rad46	6.38434e-12	1.000000	6.38434e-12	1.000000
rad59	1.91286e-12	1.000000	1.91286e-12	1.000000
PhcycC3H3_A+H	1.50519e-12	1.000000	1.50519e-12	1.000000
rad13	1.15254e-12	1.000000	1.15254e-12	1.000000
rad45	4.63730e-13	1.000000	4.63730e-13	1.000000
rad43	3.91447e-13	1.000000	3.91447e-13	1.000000
rad54	1.74715e-13	1.000000	1.74715e-13	1.000000
rad62	7.79725e-14	1.000000	7.79725e-14	1.000000
rad50	4.47163e-14	1.000000	4.47163e-14	1.000000
rad36	2.83921e-14	1.000000	2.83921e-14	1.000000
rad22	2.71415e-14	1.000000	2.71415e-14	1.000000
rad15	2.43589e-14	1.000000	2.43589e-14	1.000000
Phenyl+cycC3H4	3.36905e-15	1.000000	0.00000	1.000000
rad70	3.33310e-15	1.000000	3.33310e-15	1.000000
rad14	2.08017e-15	1.000000	2.08017e-15	1.000000
rad33	1.80509e-15	1.000000	1.80509e-15	1.000000
rad27	1.70030e-15	1.000000	1.70030e-15	1.000000
rad55	1.28183e-15	1.000000	1.28183e-15	1.000000
PAH1+H	9.25489e-16	1.000000	9.25489e-16	1.000000
rad25	8.10446e-16	1.000000	8.10446e-16	1.000000
rad52	3.02761e-16	1.000000	3.02761e-16	1.000000
rad58	1.51055e-16	1.000000	1.51055e-16	1.000000
Benzene+cycloprop-1-enylidene	1.29619e-16	1.000000	1.29619e-16	1.000000
rad51	8.09260e-17	1.000000	8.09260e-17	1.000000
PhcycC3H3_B+H	4.09067e-17	1.000000	4.09067e-17	1.000000
rad34	3.90384e-17	1.000000	3.90384e-17	1.000000
rad41	1.03838e-17	1.000000	1.03838e-17	1.000000
rad42	8.17198e-18	1.000000	8.17198e-18	1.000000
rad65	1.68361e-18	1.000000	1.68361e-18	1.000000
rad5	6.36165e-19	1.000000	6.36165e-19	1.000000
rad12	1.91230e-19	1.000000	1.91230e-19	1.000000
rad18	1.26473e-19	1.000000	1.26473e-19	1.000000
rad20	8.53643e-20	1.000000	8.53643e-20	1.000000
rad21	5.58184e-20	1.000000	5.58184e-20	1.000000
rad31	5.27741e-20	1.000000	5.27741e-20	1.000000
rad19anti	2.54190e-20	1.000000	2.54190e-20	1.000000
rad24	3.71951e-21	1.000000	3.71951e-21	1.000000
rad53	4.18411e-22	1.000000	4.18411e-22	1.000000
rad64	1.54524e-23	1.000000	1.54524e-23	1.000000

rad47	9.57758e-26	1.000000	9.57758e-26	1.000000
rad61	9.08037e-27	1.000000	9.08037e-27	1.000000
rad56	4.87391e-29	1.000000	4.87391e-29	1.000000
rad68syn	1.55602e-30	1.000000	1.55602e-30	1.000000
rad68anti	1.27674e-30	1.000000	1.27674e-30	1.000000
rad40syn	2.07391e-36	1.000000	2.07391e-36	1.000000
rad40anti	1.58133e-36	1.000000	1.58133e-36	1.000000
rad73	8.00984e-37	1.000000	8.00984e-37	1.000000
rad19syn	2.08908e-38	1.000000	2.08908e-38	1.000000
PAH8+H	2.98069e-41	1.000000	2.98069e-41	1.000000
rad71	1.74357e-44	1.000000	1.74357e-44	1.000000
rad8	1.93526e-56	1.000000	1.93526e-56	1.000000

1.00000000 Pa, 110.000000 K

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Rate constant      | True (fraction)      Effective (fraction)
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Total              | 1.95524e-15 (1.00   ) 1.95524e-15 (1.00   )
Formation of rad19| 1.95524e-15 (1.000  ) 1.95524e-15 (1.000  )
H-abstraction to cyc2enyl| 4.50936e-23 (2.31e-08) 4.50936e-23 (2.31e-08)
H-abstraction to cyclenyl| 7.87782e-30 (4.03e-15) 7.87782e-30 (4.03e-15)

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species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999729	0.999729	0.999729	0.999729
PhCHCCH2+H	0.000256261	0.999985	0.000256261	0.999985
PhCCH+CH3	4.26954e-06	0.999990	4.26954e-06	0.999990
C2H2+PhCH2	2.83370e-06	0.999992	2.83370e-06	0.999992
PhCCCH3+H	2.54157e-06	0.999995	2.54157e-06	0.999995
rad6	1.95411e-06	0.999997	1.95411e-06	0.999997
Ph+MeAc	1.94193e-06	0.999999	1.94193e-06	0.999999
rad67	5.93543e-07	0.999999	5.93543e-07	0.999999
rad35	2.60380e-07	1.000000	2.60380e-07	1.000000
Ph+Allene	1.29353e-07	1.000000	1.29353e-07	1.000000
Benzene+cycloprop-2-enylidene	2.30629e-08	1.000000	2.30629e-08	1.000000
PhCH2CCH+H	1.62485e-08	1.000000	1.62485e-08	1.000000
PAH7+H	1.62260e-08	1.000000	1.62260e-08	1.000000
rad37	6.13259e-09	1.000000	6.13259e-09	1.000000
rad30	4.80247e-09	1.000000	4.80247e-09	1.000000
rad39	4.56354e-09	1.000000	4.56354e-09	1.000000
rad28	2.37796e-09	1.000000	2.37796e-09	1.000000
rad2	2.13282e-09	1.000000	2.13282e-09	1.000000
rad7	3.08620e-10	1.000000	3.08620e-10	1.000000
PAH9+H	2.70426e-10	1.000000	2.70426e-10	1.000000
rad26	2.63484e-10	1.000000	2.63484e-10	1.000000
rad10	1.49777e-10	1.000000	1.49777e-10	1.000000
rad1	1.37437e-10	1.000000	1.37437e-10	1.000000
rad38	1.20165e-10	1.000000	1.20165e-10	1.000000
rad11	9.49340e-11	1.000000	9.49340e-11	1.000000
rad60syn	2.26519e-11	1.000000	2.26519e-11	1.000000
rad3	2.00875e-11	1.000000	2.00875e-11	1.000000
rad9	1.96777e-11	1.000000	1.96777e-11	1.000000
rad23	1.36869e-11	1.000000	1.36869e-11	1.000000
rad60anti	1.11434e-11	1.000000	1.11434e-11	1.000000
rad4	1.01924e-11	1.000000	1.01924e-11	1.000000
PAH3+H	1.00312e-11	1.000000	1.00312e-11	1.000000
PAH10+CH3	9.88219e-12	1.000000	9.88219e-12	1.000000
rad46	6.95401e-12	1.000000	6.95401e-12	1.000000
rad59	2.04716e-12	1.000000	2.04716e-12	1.000000
PhcycC3H3_A+H	1.86265e-12	1.000000	1.86265e-12	1.000000
rad13	9.70382e-13	1.000000	9.70382e-13	1.000000
rad43	4.27832e-13	1.000000	4.27832e-13	1.000000
rad45	3.46804e-13	1.000000	3.46804e-13	1.000000
rad54	2.05563e-13	1.000000	2.05563e-13	1.000000
rad62	8.59833e-14	1.000000	8.59833e-14	1.000000
rad50	5.01321e-14	1.000000	5.01321e-14	1.000000
rad36	2.12396e-14	1.000000	2.12396e-14	1.000000
rad22	1.98399e-14	1.000000	1.98399e-14	1.000000
rad15	1.20514e-14	1.000000	1.20514e-14	1.000000
Phenyl+cycC3H4	5.18630e-15	1.000000	0.00000	1.000000
Benzene+cycloprop-1-enylidene	4.02908e-15	1.000000	4.02908e-15	1.000000
rad70	3.99970e-15	1.000000	3.99970e-15	1.000000
rad14	1.74059e-15	1.000000	1.74059e-15	1.000000
rad55	1.56536e-15	1.000000	1.56536e-15	1.000000
rad33	1.53610e-15	1.000000	1.53610e-15	1.000000
rad27	1.43326e-15	1.000000	1.43326e-15	1.000000
PAH1+H	1.14210e-15	1.000000	1.14210e-15	1.000000
rad25	6.80762e-16	1.000000	6.80762e-16	1.000000
rad52	3.46745e-16	1.000000	3.46745e-16	1.000000
rad58	1.73799e-16	1.000000	1.73799e-16	1.000000

PhcycC3H3_B+H	1.30381e-16	1.000000	1.30381e-16	1.000000
rad51	9.50884e-17	1.000000	9.50884e-17	1.000000
rad34	4.94992e-17	1.000000	4.94992e-17	1.000000
rad41	1.31604e-17	1.000000	1.31604e-17	1.000000
rad42	1.01661e-17	1.000000	1.01661e-17	1.000000
rad65	2.00234e-18	1.000000	2.00234e-18	1.000000
rad5	4.46951e-19	1.000000	4.46951e-19	1.000000
rad12	9.60879e-20	1.000000	9.60879e-20	1.000000
rad18	8.92143e-20	1.000000	8.92143e-20	1.000000
rad20	6.67344e-20	1.000000	6.67344e-20	1.000000
rad31	4.59033e-20	1.000000	4.59033e-20	1.000000
rad21	4.37577e-20	1.000000	4.37577e-20	1.000000
rad19anti	1.26774e-20	1.000000	1.26774e-20	1.000000
rad24	2.80507e-21	1.000000	2.80507e-21	1.000000
rad53	1.21050e-21	1.000000	1.21050e-21	1.000000
rad64	6.21092e-23	1.000000	6.21092e-23	1.000000
rad61	1.14713e-25	1.000000	1.14713e-25	1.000000
rad47	9.18125e-26	1.000000	9.18125e-26	1.000000
rad56	8.63791e-28	1.000000	8.63791e-28	1.000000
rad68syn	3.64252e-29	1.000000	3.64252e-29	1.000000
rad68anti	2.96538e-29	1.000000	2.96538e-29	1.000000
rad40syn	3.24117e-34	1.000000	3.24117e-34	1.000000
rad40anti	2.55069e-34	1.000000	2.55069e-34	1.000000
rad73	5.29829e-35	1.000000	5.29829e-35	1.000000
rad19syn	4.31566e-38	1.000000	4.31566e-38	1.000000
PAH8+H	1.04772e-38	1.000000	1.04772e-38	1.000000
rad71	5.77068e-42	1.000000	5.77068e-42	1.000000
rad8	2.31514e-56	1.000000	2.31514e-56	1.000000

1.00000000 Pa, 120.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.79817e-15 (1.00)	2.79817e-15 (1.00)
Formation of rad19	2.79817e-15 (1.000)	2.79817e-15 (1.000)
H-abstraction to cyc2enyl	2.96039e-22 (1.06e-07)	2.96039e-22 (1.06e-07)
H-abstraction to cyclenyl	1.95323e-28 (6.98e-14)	1.95323e-28 (6.98e-14)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999722	0.999722	0.999722	0.999722
PhCHCCH2+H	0.000263375	0.999985	0.000263375	0.999985
PhCCH+CH3	4.42631e-06	0.999990	4.42631e-06	0.999990
C2H2+PhCH2	2.99587e-06	0.999993	2.99587e-06	0.999993
PhCCCH3+H	2.63054e-06	0.999995	2.63054e-06	0.999995
Ph+MeAc	2.02565e-06	0.999997	2.02565e-06	0.999997
rad6	1.66013e-06	0.999999	1.66013e-06	0.999999
rad67	6.16343e-07	1.000000	6.16343e-07	1.000000
rad35	2.69965e-07	1.000000	2.69965e-07	1.000000
Ph+Allene	1.42031e-07	1.000000	1.42031e-07	1.000000
Benzene+cycloprop-2-enylidene	1.05797e-07	1.000000	1.05797e-07	1.000000
PhCH2CCH+H	1.79998e-08	1.000000	1.79998e-08	1.000000
PAH7+H	1.77581e-08	1.000000	1.77581e-08	1.000000
rad37	6.44788e-09	1.000000	6.44788e-09	1.000000
rad39	4.99671e-09	1.000000	4.99671e-09	1.000000
rad30	4.99441e-09	1.000000	4.99441e-09	1.000000
rad28	2.00570e-09	1.000000	2.00570e-09	1.000000
rad2	1.81044e-09	1.000000	1.81044e-09	1.000000
PAH9+H	2.91002e-10	1.000000	2.91002e-10	1.000000
rad7	2.58876e-10	1.000000	2.58876e-10	1.000000
rad26	2.24712e-10	1.000000	2.24712e-10	1.000000
rad38	1.29592e-10	1.000000	1.29592e-10	1.000000
rad10	1.26527e-10	1.000000	1.26527e-10	1.000000
rad1	1.17114e-10	1.000000	1.17114e-10	1.000000
rad11	7.92863e-11	1.000000	7.92863e-11	1.000000
rad60syn	2.39184e-11	1.000000	2.39184e-11	1.000000
rad3	1.69060e-11	1.000000	1.69060e-11	1.000000
rad60anti	1.17825e-11	1.000000	1.17825e-11	1.000000
PAH10+CH3	1.09684e-11	1.000000	1.09684e-11	1.000000
PAH3+H	1.07966e-11	1.000000	1.07966e-11	1.000000
rad9	1.06322e-11	1.000000	1.06322e-11	1.000000
rad23	1.05250e-11	1.000000	1.05250e-11	1.000000
rad4	8.58643e-12	1.000000	8.58643e-12	1.000000
rad46	7.56476e-12	1.000000	7.56476e-12	1.000000
PhcycC3H3_A+H	2.32110e-12	1.000000	2.32110e-12	1.000000
rad59	2.19690e-12	1.000000	2.19690e-12	1.000000
rad13	8.17880e-13	1.000000	8.17880e-13	1.000000
rad43	4.69155e-13	1.000000	4.69155e-13	1.000000
rad45	2.62499e-13	1.000000	2.62499e-13	1.000000
rad54	2.41089e-13	1.000000	2.41089e-13	1.000000

rad62	9.50938e-14	1.00000	9.50938e-14	1.00000
Benzene+cycloprop-1-enylidene	6.98038e-14	1.00000	6.98038e-14	1.00000
rad50	5.62361e-14	1.00000	5.62361e-14	1.00000
rad36	1.60844e-14	1.00000	1.60844e-14	1.00000
rad22	1.47188e-14	1.00000	1.47188e-14	1.00000
Phenyl+cycC3H4	7.86468e-15	1.00000	0.00000	1.00000
rad15	6.45901e-15	1.00000	6.45901e-15	1.00000
rad70	4.80346e-15	1.00000	4.80346e-15	1.00000
rad55	1.90830e-15	1.00000	1.90830e-15	1.00000
rad14	1.45849e-15	1.00000	1.45849e-15	1.00000
PAH1+H	1.41684e-15	1.00000	1.41684e-15	1.00000
rad33	1.30732e-15	1.00000	1.30732e-15	1.00000
rad27	1.20889e-15	1.00000	1.20889e-15	1.00000
rad25	5.72705e-16	1.00000	5.72705e-16	1.00000
rad52	3.97923e-16	1.00000	3.97923e-16	1.00000
PhcycC3H3_B+H	3.56730e-16	1.00000	3.56730e-16	1.00000
rad58	2.01339e-16	1.00000	2.01339e-16	1.00000
rad51	1.12154e-16	1.00000	1.12154e-16	1.00000
rad34	6.29623e-17	1.00000	6.29623e-17	1.00000
rad41	1.67852e-17	1.00000	1.67852e-17	1.00000
rad42	1.27278e-17	1.00000	1.27278e-17	1.00000
rad65	2.39223e-18	1.00000	2.39223e-18	1.00000
rad5	3.20008e-19	1.00000	3.20008e-19	1.00000
rad18	6.45688e-20	1.00000	6.45688e-20	1.00000
rad20	5.31164e-20	1.00000	5.31164e-20	1.00000
rad12	5.22702e-20	1.00000	5.22702e-20	1.00000
rad31	4.00008e-20	1.00000	4.00008e-20	1.00000
rad21	3.49232e-20	1.00000	3.49232e-20	1.00000
rad19anti	6.85419e-21	1.00000	6.85419e-21	1.00000
rad53	3.12415e-21	1.00000	3.12415e-21	1.00000
rad24	2.14133e-21	1.00000	2.14133e-21	1.00000
rad64	2.13466e-22	1.00000	2.13466e-22	1.00000
rad61	9.73006e-25	1.00000	9.73006e-25	1.00000
rad47	8.86762e-26	1.00000	8.86762e-26	1.00000
rad56	1.02214e-26	1.00000	1.02214e-26	1.00000
rad68syn	5.34737e-28	1.00000	5.34737e-28	1.00000
rad68anti	4.32595e-28	1.00000	4.32595e-28	1.00000
rad40syn	1.63749e-32	1.00000	1.63749e-32	1.00000
rad40anti	1.28891e-32	1.00000	1.28891e-32	1.00000
rad73	1.80376e-33	1.00000	1.80376e-33	1.00000
PAH8+H	4.11518e-35	1.00000	4.11518e-35	1.00000
rad19syn	9.31470e-38	1.00000	9.31470e-38	1.00000
rad71	1.30988e-38	1.00000	1.30988e-38	1.00000
rad8	2.82482e-56	1.00000	2.82482e-56	1.00000

1.00000000 Pa, 130.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.81236e-15 (1.00)	3.81236e-15 (1.00)
Formation of rad19	3.81236e-15 (1.000)	3.81236e-15 (1.000)
H-abstraction to cyc2enyl	1.44825e-21 (3.80e-07)	1.44825e-21 (3.80e-07)
H-abstraction to cyclenyl	2.94348e-27 (7.72e-13)	2.94348e-27 (7.72e-13)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999714	0.999714	0.999714	0.999714
PhCHCCH2+H	0.000270977	0.999985	0.000270977	0.999985
PhCCH+CH3	4.58952e-06	0.999989	4.58952e-06	0.999989
C2H2+PhCH2	3.16267e-06	0.999992	3.16267e-06	0.999992
PhCCCH3+H	2.72518e-06	0.999995	2.72518e-06	0.999995
Ph+MeAc	2.11561e-06	0.999997	2.11561e-06	0.999997
rad6	1.40912e-06	0.999999	1.40912e-06	0.999999
rad67	6.41000e-07	0.999999	6.41000e-07	0.999999
Benzene+cycloprop-2-enylidene	3.79882e-07	1.000000	3.79882e-07	1.000000
rad35	2.80314e-07	1.000000	2.80314e-07	1.000000
Ph+Allene	1.55535e-07	1.00000	1.55535e-07	1.00000
PhCH2CCH+H	1.99040e-08	1.00000	1.99040e-08	1.00000
PAH7+H	1.93506e-08	1.00000	1.93506e-08	1.00000
rad37	6.79207e-09	1.00000	6.79207e-09	1.00000
rad39	5.44696e-09	1.00000	5.44696e-09	1.00000
rad30	5.20091e-09	1.00000	5.20091e-09	1.00000
rad28	1.69141e-09	1.00000	1.69141e-09	1.00000
rad2	1.53511e-09	1.00000	1.53511e-09	1.00000
PAH9+H	3.12855e-10	1.00000	3.12855e-10	1.00000
rad7	2.17244e-10	1.00000	2.17244e-10	1.00000
rad26	1.91405e-10	1.00000	1.91405e-10	1.00000
rad38	1.39735e-10	1.00000	1.39735e-10	1.00000
rad10	1.06827e-10	1.00000	1.06827e-10	1.00000
rad1	9.97232e-11	1.00000	9.97232e-11	1.00000

rad11	6.62781e-11	1.00000	6.62781e-11	1.00000
rad60syn	2.53104e-11	1.00000	2.53104e-11	1.00000
rad3	1.42273e-11	1.00000	1.42273e-11	1.00000
rad60anti	1.24861e-11	1.00000	1.24861e-11	1.00000
PAH10+CH3	1.22297e-11	1.00000	1.22297e-11	1.00000
PAH3+H	1.16587e-11	1.00000	1.16587e-11	1.00000
rad46	8.22611e-12	1.00000	8.22611e-12	1.00000
rad23	8.15681e-12	1.00000	8.15681e-12	1.00000
rad4	7.23373e-12	1.00000	7.23373e-12	1.00000
rad9	6.13674e-12	1.00000	6.13674e-12	1.00000
PhcycC3H3_A+H	2.91344e-12	1.00000	2.91344e-12	1.00000
rad59	2.36491e-12	1.00000	2.36491e-12	1.00000
Benzene+cycloprop-1-enylidene	7.72089e-13	1.00000	7.72089e-13	1.00000
rad13	6.89618e-13	1.00000	6.89618e-13	1.00000
rad43	5.16415e-13	1.00000	5.16415e-13	1.00000
rad54	2.82407e-13	1.00000	2.82407e-13	1.00000
rad45	2.00592e-13	1.00000	2.00592e-13	1.00000
rad62	1.05529e-13	1.00000	1.05529e-13	1.00000
rad50	6.31826e-14	1.00000	6.31826e-14	1.00000
rad36	1.22997e-14	1.00000	1.22997e-14	1.00000
Phenyl+cycC3H4	1.18041e-14	1.00000	0.00000	1.00000
rad22	1.10491e-14	1.00000	1.10491e-14	1.00000
rad70	5.78193e-15	1.00000	5.78193e-15	1.00000
rad15	3.70120e-15	1.00000	3.70120e-15	1.00000
rad55	2.32709e-15	1.00000	2.32709e-15	1.00000
PAH1+H	1.76886e-15	1.00000	1.76886e-15	1.00000
rad14	1.22294e-15	1.00000	1.22294e-15	1.00000
rad33	1.11219e-15	1.00000	1.11219e-15	1.00000
rad27	1.01970e-15	1.00000	1.01970e-15	1.00000
PhcycC3H3_B+H	8.71223e-16	1.00000	8.71223e-16	1.00000
rad25	4.82166e-16	1.00000	4.82166e-16	1.00000
rad52	4.58076e-16	1.00000	4.58076e-16	1.00000
rad58	2.34997e-16	1.00000	2.34997e-16	1.00000
rad51	1.32940e-16	1.00000	1.32940e-16	1.00000
rad34	8.04551e-17	1.00000	8.04551e-17	1.00000
rad41	2.15610e-17	1.00000	2.15610e-17	1.00000
rad42	1.60451e-17	1.00000	1.60451e-17	1.00000
rad65	2.87434e-18	1.00000	2.87434e-18	1.00000
rad5	2.32664e-19	1.00000	2.32664e-19	1.00000
rad18	4.77078e-20	1.00000	4.77078e-20	1.00000
rad20	4.28894e-20	1.00000	4.28894e-20	1.00000
rad31	3.49156e-20	1.00000	3.49156e-20	1.00000
rad12	3.03879e-20	1.00000	3.03879e-20	1.00000
rad21	2.82753e-20	1.00000	2.82753e-20	1.00000
rad53	7.36536e-21	1.00000	7.36536e-21	1.00000
rad19anti	3.96495e-21	1.00000	3.96495e-21	1.00000
rad24	1.65055e-21	1.00000	1.65055e-21	1.00000
rad64	6.43564e-22	1.00000	6.43564e-22	1.00000
rad61	6.08906e-24	1.00000	6.08906e-24	1.00000
rad47	8.62798e-26	1.00000	8.62798e-26	1.00000
rad56	8.62282e-26	1.00000	8.62282e-26	1.00000
rad68syn	5.35505e-27	1.00000	5.35505e-27	1.00000
rad68anti	4.30865e-27	1.00000	4.30865e-27	1.00000
rad40syn	4.39968e-31	1.00000	4.39968e-31	1.00000
rad40anti	3.46946e-31	1.00000	3.46946e-31	1.00000
rad73	3.69119e-32	1.00000	3.69119e-32	1.00000
PAH8+H	2.23139e-33	1.00000	2.23139e-33	1.00000
rad71	1.08344e-36	1.00000	1.08344e-36	1.00000
rad19syn	2.10398e-37	1.00000	2.10398e-37	1.00000
rad8	3.50772e-56	1.00000	3.50772e-56	1.00000

1.00000000 Pa, 140.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.99515e-15 (1.00)	4.99515e-15 (1.00)
Formation of rad19	4.99514e-15 (1.000)	4.99514e-15 (1.000)
H-abstraction to cyc2enyl	5.62488e-21 (1.13e-06)	5.62488e-21 (1.13e-06)
H-abstraction to cyc1enyl	3.00047e-26 (6.01e-12)	3.00047e-26 (6.01e-12)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999704	0.999704	0.999704	0.999704
PhCHCCH2+H	0.000279131	0.999983	0.000279131	0.999983
PhCCH+CH3	4.76069e-06	0.999988	4.76069e-06	0.999988
C2H2+PhCH2	3.33605e-06	0.999991	3.33605e-06	0.999991
PhCCCH3+H	2.82643e-06	0.999994	2.82643e-06	0.999994
Ph+MeAc	2.21281e-06	0.999996	2.21281e-06	0.999996
rad6	1.19461e-06	0.999997	1.19461e-06	0.999997
Benzene+cycloprop-2-enylidene	1.12607e-06	0.999998	1.12607e-06	0.999998

rad67	6.67776e-07	0.999999	6.67776e-07	0.999999
rad35	2.91532e-07	0.999999	2.91532e-07	0.999999
Ph+Allene	1.70065e-07	1.000000	1.70065e-07	1.000000
PhCH2CCH+H	2.19940e-08	1.000000	2.19940e-08	1.000000
PAH7+H	2.10242e-08	1.000000	2.10242e-08	1.000000
rad37	7.16991e-09	1.000000	7.16991e-09	1.000000
rad39	5.92007e-09	1.000000	5.92007e-09	1.000000
rad30	5.42422e-09	1.000000	5.42422e-09	1.000000
rad28	1.42549e-09	1.000000	1.42549e-09	1.000000
rad2	1.29988e-09	1.000000	1.29988e-09	1.000000
PAH9+H	3.36295e-10	1.000000	3.36295e-10	1.000000
rad7	1.82288e-10	1.000000	1.82288e-10	1.000000
rad26	1.62780e-10	1.000000	1.62780e-10	1.000000
rad38	1.50752e-10	1.000000	1.50752e-10	1.000000
rad10	9.01118e-11	1.000000	9.01118e-11	1.000000
rad1	8.48311e-11	1.000000	8.48311e-11	1.000000
rad11	5.54197e-11	1.000000	5.54197e-11	1.000000
rad60syn	2.68488e-11	1.000000	2.68488e-11	1.000000
PAH10+CH3	1.37064e-11	1.000000	1.37064e-11	1.000000
rad60anti	1.32651e-11	1.000000	1.32651e-11	1.000000
PAH3+H	1.26360e-11	1.000000	1.26360e-11	1.000000
rad3	1.19669e-11	1.000000	1.19669e-11	1.000000
rad46	8.94902e-12	1.000000	8.94902e-12	1.000000
rad23	6.36037e-12	1.000000	6.36037e-12	1.000000
rad4	6.09166e-12	1.000000	6.09166e-12	1.000000
Benzene+cycloprop-1-enylidene	6.00677e-12	1.000000	6.00677e-12	1.000000
rad9	3.74674e-12	1.000000	3.74674e-12	1.000000
PhcycC3H3_A+H	3.68443e-12	1.000000	3.68443e-12	1.000000
rad59	2.55459e-12	1.000000	2.55459e-12	1.000000
rad13	5.81388e-13	1.000000	5.81388e-13	1.000000
rad43	5.70842e-13	1.000000	5.70842e-13	1.000000
rad54	3.30918e-13	1.000000	3.30918e-13	1.000000
rad45	1.54454e-13	1.000000	1.54454e-13	1.000000
rad62	1.17566e-13	1.000000	1.17566e-13	1.000000
rad50	7.11623e-14	1.000000	7.11623e-14	1.000000
Phenyl+cycC3H4	1.75978e-14	1.000000	0.000000	1.000000
rad36	9.47952e-15	1.000000	9.47952e-15	1.000000
rad22	8.37338e-15	1.000000	8.37338e-15	1.000000
rad70	6.98427e-15	1.000000	6.98427e-15	1.000000
rad55	2.84326e-15	1.000000	2.84326e-15	1.000000
rad15	2.24506e-15	1.000000	2.24506e-15	1.000000
PAH1+H	2.22435e-15	1.000000	2.22435e-15	1.000000
PhcycC3H3_B+H	1.95169e-15	1.000000	1.95169e-15	1.000000
rad14	1.02555e-15	1.000000	1.02555e-15	1.000000
rad33	9.45450e-16	1.000000	9.45450e-16	1.000000
rad27	8.59773e-16	1.000000	8.59773e-16	1.000000
rad52	5.29478e-16	1.000000	5.29478e-16	1.000000
rad25	4.06003e-16	1.000000	4.06003e-16	1.000000
rad58	2.76529e-16	1.000000	2.76529e-16	1.000000
rad51	1.58532e-16	1.000000	1.58532e-16	1.000000
rad34	1.03395e-16	1.000000	1.03395e-16	1.000000
rad41	2.79085e-17	1.000000	2.79085e-17	1.000000
rad42	2.03748e-17	1.000000	2.03748e-17	1.000000
rad65	3.47698e-18	1.000000	3.47698e-18	1.000000
rad5	1.71305e-19	1.000000	1.71305e-19	1.000000
rad18	3.58500e-20	1.000000	3.58500e-20	1.000000
rad20	3.50380e-20	1.000000	3.50380e-20	1.000000
rad31	3.05248e-20	1.000000	3.05248e-20	1.000000
rad21	2.31617e-20	1.000000	2.31617e-20	1.000000
rad12	1.86956e-20	1.000000	1.86956e-20	1.000000
rad53	1.61823e-20	1.000000	1.61823e-20	1.000000
rad19anti	2.42971e-21	1.000000	2.42971e-21	1.000000
rad64	1.74496e-21	1.000000	1.74496e-21	1.000000
rad24	1.28217e-21	1.000000	1.28217e-21	1.000000
rad61	3.01132e-23	1.000000	3.01132e-23	1.000000
rad56	5.53952e-25	1.000000	5.53952e-25	1.000000
rad47	8.45792e-26	1.000000	8.45792e-26	1.000000
rad68syn	3.95271e-26	1.000000	3.95271e-26	1.000000
rad68anti	3.16413e-26	1.000000	3.16413e-26	1.000000
rad40syn	7.46307e-30	1.000000	7.46307e-30	1.000000
rad40anti	5.90643e-30	1.000000	5.90643e-30	1.000000
rad73	5.08162e-31	1.000000	5.08162e-31	1.000000
PAH8+H	6.58540e-32	1.000000	6.58540e-32	1.000000
rad71	4.00799e-35	1.000000	4.00799e-35	1.000000
rad19syn	4.98182e-37	1.000000	4.98182e-37	1.000000
rad8	4.42601e-56	1.000000	4.42601e-56	1.000000

1.00000000 Pa, 150.000000 K

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Rate constant | True (fraction) Effective (fraction)

Total	6.34137e-15 (1.00)	6.34137e-15 (1.00)
Formation of rad19	6.34135e-15 (1.000)	6.34135e-15 (1.000)
H-abstraction to cyc2enyl	1.81685e-20 (2.87e-06)	1.81685e-20 (2.87e-06)
H-abstraction to cyclenyl	2.23765e-25 (3.53e-11)	2.23765e-25 (3.53e-11)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999693	0.999693	0.999693	0.999693
PhCHCCH2+H	0.000287908	0.999981	0.000287908	0.999981
PhCCH+CH3	4.94145e-06	0.999986	4.94145e-06	0.999986
C2H2+PhCH2	3.51802e-06	0.999990	3.51802e-06	0.999990
PhCCCH3+H	2.93527e-06	0.999992	2.93527e-06	0.999992
Benzene+cycloprop-2-enylidene	2.86508e-06	0.999995	2.86508e-06	0.999995
Ph+MeAc	2.31837e-06	0.999998	2.31837e-06	0.999998
rad6	1.01125e-06	0.999999	1.01125e-06	0.999999
rad67	6.96968e-07	0.999999	6.96968e-07	0.999999
rad35	3.03739e-07	1.000000	3.03739e-07	1.000000
Ph+Allene	1.85845e-07	1.000000	1.85845e-07	1.000000
PhCH2CCH+H	2.43085e-08	1.000000	2.43085e-08	1.000000
PAH7+H	2.28012e-08	1.000000	2.28012e-08	1.000000
rad37	7.58686e-09	1.000000	7.58686e-09	1.000000
rad39	6.42228e-09	1.000000	6.42228e-09	1.000000
rad30	5.66691e-09	1.000000	5.66691e-09	1.000000
rad28	1.20019e-09	1.000000	1.20019e-09	1.000000
rad2	1.09893e-09	1.000000	1.09893e-09	1.000000
PAH9+H	3.61666e-10	1.000000	3.61666e-10	1.000000
rad38	1.62827e-10	1.000000	1.62827e-10	1.000000
rad7	1.52870e-10	1.000000	1.52870e-10	1.000000
rad26	1.38183e-10	1.000000	1.38183e-10	1.000000
rad10	7.59192e-11	1.000000	7.59192e-11	1.000000
rad1	7.20770e-11	1.000000	7.20770e-11	1.000000
rad11	4.63296e-11	1.000000	4.63296e-11	1.000000
Benzene+cycloprop-1-enylidene	3.52865e-11	1.000000	3.52865e-11	1.000000
rad60syn	2.85580e-11	1.000000	2.85580e-11	1.000000
PAH10+CH3	1.54491e-11	1.000000	1.54491e-11	1.000000
rad60anti	1.41323e-11	1.000000	1.41323e-11	1.000000
PAH3+H	1.37510e-11	1.000000	1.37510e-11	1.000000
rad3	1.00568e-11	1.000000	1.00568e-11	1.000000
rad46	9.74621e-12	1.000000	9.74621e-12	1.000000
rad4	5.12601e-12	1.000000	5.12601e-12	1.000000
rad23	4.98355e-12	1.000000	4.98355e-12	1.000000
PhcycC3H3_A+H	4.69497e-12	1.000000	4.69497e-12	1.000000
rad59	2.77003e-12	1.000000	2.77003e-12	1.000000
rad9	2.40131e-12	1.000000	2.40131e-12	1.000000
rad43	6.33941e-13	1.000000	6.33941e-13	1.000000
rad13	4.89860e-13	1.000000	4.89860e-13	1.000000
rad54	3.88383e-13	1.000000	3.88383e-13	1.000000
rad62	1.31542e-13	1.000000	1.31542e-13	1.000000
rad45	1.19653e-13	1.000000	1.19653e-13	1.000000
rad50	8.04121e-14	1.000000	8.04121e-14	1.000000
Phenyl+cycC3H4	2.61242e-14	1.000000	0.000000	1.000000
rad70	8.47493e-15	1.000000	8.47493e-15	1.000000
rad36	7.35232e-15	1.000000	7.35232e-15	1.000000
rad22	6.39435e-15	1.000000	6.39435e-15	1.000000
PhcycC3H3_B+H	4.08899e-15	1.000000	4.08899e-15	1.000000
rad55	3.48505e-15	1.000000	3.48505e-15	1.000000
PAH1+H	2.81924e-15	1.000000	2.81924e-15	1.000000
rad15	1.43040e-15	1.000000	1.43040e-15	1.000000
rad14	8.59705e-16	1.000000	8.59705e-16	1.000000
rad33	8.02831e-16	1.000000	8.02831e-16	1.000000
rad27	7.24367e-16	1.000000	7.24367e-16	1.000000
rad52	6.15050e-16	1.000000	6.15050e-16	1.000000
rad25	3.41754e-16	1.000000	3.41754e-16	1.000000
rad58	3.28257e-16	1.000000	3.28257e-16	1.000000
rad51	1.90369e-16	1.000000	1.90369e-16	1.000000
rad34	1.33743e-16	1.000000	1.33743e-16	1.000000
rad41	3.64131e-17	1.000000	3.64131e-17	1.000000
rad42	2.60667e-17	1.000000	2.60667e-17	1.000000
rad65	4.23819e-18	1.000000	4.23819e-18	1.000000
rad5	1.27448e-19	1.000000	1.27448e-19	1.000000
rad53	3.36490e-20	1.000000	3.36490e-20	1.000000
rad20	2.88997e-20	1.000000	2.88997e-20	1.000000
rad18	2.73175e-20	1.000000	2.73175e-20	1.000000
rad31	2.67277e-20	1.000000	2.67277e-20	1.000000
rad21	1.91560e-20	1.000000	1.91560e-20	1.000000
rad12	1.20799e-20	1.000000	1.20799e-20	1.000000
rad64	4.34404e-21	1.000000	4.34404e-21	1.000000
rad19anti	1.56519e-21	1.000000	1.56519e-21	1.000000
rad24	1.00227e-21	1.000000	1.00227e-21	1.000000

rad61	1.23785e-22	1.000000	1.23785e-22	1.000000
rad56	2.86002e-24	1.000000	2.86002e-24	1.000000
rad68syn	2.28653e-25	1.000000	2.28653e-25	1.000000
rad68anti	1.82096e-25	1.000000	1.82096e-25	1.000000
rad47	8.35632e-26	1.000000	8.35632e-26	1.000000
rad40syn	8.78722e-29	1.000000	8.78722e-29	1.000000
rad40anti	6.98446e-29	1.000000	6.98446e-29	1.000000
rad73	5.09516e-30	1.000000	5.09516e-30	1.000000
PAH8+H	1.24451e-30	1.000000	1.24451e-30	1.000000
rad71	9.05729e-34	1.000000	9.05729e-34	1.000000
rad19syn	1.23836e-36	1.000000	1.23836e-36	1.000000
rad8	5.66877e-56	1.000000	5.66877e-56	1.000000

1.00000000 Pa, 160.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.84423e-15 (1.00)	7.84423e-15 (1.00)
Formation of rad19	7.84418e-15 (1.000)	7.84418e-15 (1.000)
H-abstraction to cyc2enyl	5.05321e-20 (6.44e-06)	5.05321e-20 (6.44e-06)
H-abstraction to cyclenyl	1.29479e-24 (1.65e-10)	1.29479e-24 (1.65e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999680	0.999680	0.999680	0.999680
PhCHCCH2+H	0.000297386	0.999977	0.000297386	0.999977
Benzene+cycloprop-2-enylidene	6.44194e-06	0.999983	6.44194e-06	0.999983
PhCCH+CH3	5.13343e-06	0.999989	5.13343e-06	0.999989
C2H2+PhCH2	3.71070e-06	0.999992	3.71070e-06	0.999992
PhCCCH3+H	3.05280e-06	0.999995	3.05280e-06	0.999995
Ph+MeAc	2.43352e-06	0.999998	2.43352e-06	0.999998
rad6	8.54556e-07	0.999999	8.54556e-07	0.999999
rad67	7.28908e-07	0.999999	7.28908e-07	0.999999
rad35	3.17070e-07	1.000000	3.17070e-07	1.000000
Ph+Allene	2.03132e-07	1.000000	2.03132e-07	1.000000
PhCH2CCH+H	2.68927e-08	1.000000	2.68927e-08	1.000000
PAH7+H	2.47058e-08	1.000000	2.47058e-08	1.000000
rad37	8.04917e-09	1.000000	8.04917e-09	1.000000
rad39	6.96036e-09	1.000000	6.96036e-09	1.000000
rad30	5.93183e-09	1.000000	5.93183e-09	1.000000
rad28	1.00918e-09	1.000000	1.00918e-09	1.000000
rad2	9.27350e-10	1.000000	9.27350e-10	1.000000
PAH9+H	3.89355e-10	1.000000	3.89355e-10	1.000000
rad38	1.76171e-10	1.000000	1.76171e-10	1.000000
Benzene+cycloprop-1-enylidene	1.65062e-10	1.000000	1.65062e-10	1.000000
rad7	1.28078e-10	1.000000	1.28078e-10	1.000000
rad26	1.17064e-10	1.000000	1.17064e-10	1.000000
rad10	6.38671e-11	1.000000	6.38671e-11	1.000000
rad1	6.11567e-11	1.000000	6.11567e-11	1.000000
rad11	3.87049e-11	1.000000	3.87049e-11	1.000000
rad60syn	3.04667e-11	1.000000	3.04667e-11	1.000000
PAH10+CH3	1.75207e-11	1.000000	1.75207e-11	1.000000
rad60anti	1.51025e-11	1.000000	1.51025e-11	1.000000
PAH3+H	1.50306e-11	1.000000	1.50306e-11	1.000000
rad46	1.06324e-11	1.000000	1.06324e-11	1.000000
rad3	8.44138e-12	1.000000	8.44138e-12	1.000000
PhcycC3H3_A+H	6.02785e-12	1.000000	6.02785e-12	1.000000
rad4	4.30883e-12	1.000000	4.30883e-12	1.000000
rad23	3.91949e-12	1.000000	3.91949e-12	1.000000
rad59	3.01619e-12	1.000000	3.01619e-12	1.000000
rad9	1.60585e-12	1.000000	1.60585e-12	1.000000
rad43	7.07554e-13	1.000000	7.07554e-13	1.000000
rad54	4.57025e-13	1.000000	4.57025e-13	1.000000
rad13	4.12349e-13	1.000000	4.12349e-13	1.000000
rad62	1.47869e-13	1.000000	1.47869e-13	1.000000
rad45	9.31451e-14	1.000000	9.31451e-14	1.000000
rad50	9.12250e-14	1.000000	9.12250e-14	1.000000
Phenyl+cycC3H4	3.86829e-14	1.000000	0.000000	1.000000
rad70	1.03384e-14	1.000000	1.03384e-14	1.000000
PhcycC3H3_B+H	8.12592e-15	1.000000	8.12592e-15	1.000000
rad36	5.73180e-15	1.000000	5.73180e-15	1.000000
rad22	4.91330e-15	1.000000	4.91330e-15	1.000000
rad55	4.28950e-15	1.000000	4.28950e-15	1.000000
PAH1+H	3.60282e-15	1.000000	3.60282e-15	1.000000
rad15	9.51421e-16	1.000000	9.51421e-16	1.000000
rad14	7.20140e-16	1.000000	7.20140e-16	1.000000
rad52	7.18543e-16	1.000000	7.18543e-16	1.000000
rad33	6.80794e-16	1.000000	6.80794e-16	1.000000
rad27	6.09617e-16	1.000000	6.09617e-16	1.000000
rad58	3.93269e-16	1.000000	3.93269e-16	1.000000

rad25	2.87458e-16	1.000000	2.87458e-16	1.000000
rad51	2.30374e-16	1.000000	2.30374e-16	1.000000
rad34	1.74208e-16	1.000000	1.74208e-16	1.000000
rad41	4.78892e-17	1.000000	4.78892e-17	1.000000
rad42	3.35977e-17	1.000000	3.35977e-17	1.000000
rad65	5.20932e-18	1.000000	5.20932e-18	1.000000
rad5	9.56416e-20	1.000000	9.56416e-20	1.000000
rad53	6.69862e-20	1.000000	6.69862e-20	1.000000
rad20	2.40274e-20	1.000000	2.40274e-20	1.000000
rad31	2.34406e-20	1.000000	2.34406e-20	1.000000
rad18	2.10592e-20	1.000000	2.10592e-20	1.000000
rad21	1.59705e-20	1.000000	1.59705e-20	1.000000
rad64	1.00923e-20	1.000000	1.00923e-20	1.000000
rad12	8.14805e-21	1.000000	8.14805e-21	1.000000
rad19anti	1.05353e-21	1.000000	1.05353e-21	1.000000
rad24	7.87446e-22	1.000000	7.87446e-22	1.000000
rad61	4.39157e-22	1.000000	4.39157e-22	1.000000
rad56	1.23785e-23	1.000000	1.23785e-23	1.000000
rad68syn	1.08697e-24	1.000000	1.08697e-24	1.000000
rad68anti	8.60972e-25	1.000000	8.60972e-25	1.000000
rad47	8.32493e-26	1.000000	8.32493e-26	1.000000
rad40syn	7.71470e-28	1.000000	7.71470e-28	1.000000
rad40anti	6.15813e-28	1.000000	6.15813e-28	1.000000
rad73	3.95394e-29	1.000000	3.95394e-29	1.000000
PAH8+H	1.65547e-29	1.000000	1.65547e-29	1.000000
rad71	1.40808e-32	1.000000	1.40808e-32	1.000000
rad19syn	3.23539e-36	1.000000	3.23539e-36	1.000000
rad8	7.36445e-56	1.000000	7.36445e-56	1.000000

1.00000000 Pa, 170.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.49598e-15 (1.00)	9.49598e-15 (1.00)
Formation of rad19	9.49586e-15 (1.000)	9.49586e-15 (1.000)
H-abstraction to cyc2enyl	1.24279e-19 (1.31e-05)	1.24279e-19 (1.31e-05)
H-abstraction to cyclenyl	6.08025e-24 (6.40e-10)	6.08025e-24 (6.40e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999662	0.999662	0.999662	0.999662
PhCHCCH2+H	0.000307650	0.999970	0.000307650	0.999970
Benzene+cycloprop-2-enylidene	1.30875e-05	0.999983	1.30875e-05	0.999983
PhCCH+CH3	5.33837e-06	0.999988	5.33837e-06	0.999988
C2H2+PhCH2	3.91629e-06	0.999992	3.91629e-06	0.999992
PhCCCH3+H	3.18021e-06	0.999995	3.18021e-06	0.999995
Ph+MeAc	2.55965e-06	0.999998	2.55965e-06	0.999998
rad67	7.63969e-07	0.999998	7.63969e-07	0.999998
rad6	7.20746e-07	0.999999	7.20746e-07	0.999999
rad35	3.31675e-07	0.999999	3.31675e-07	0.999999
Ph+Allene	2.22215e-07	1.000000	2.22215e-07	1.000000
PhCH2CCH+H	2.97994e-08	1.000000	2.97994e-08	1.000000
PAH7+H	2.67648e-08	1.000000	2.67648e-08	1.000000
rad37	8.56397e-09	1.000000	8.56397e-09	1.000000
rad39	7.54169e-09	1.000000	7.54169e-09	1.000000
rad30	6.22217e-09	1.000000	6.22217e-09	1.000000
rad28	8.47248e-10	1.000000	8.47248e-10	1.000000
rad2	7.80999e-10	1.000000	7.80999e-10	1.000000
Benzene+cycloprop-1-enylidene	6.40297e-10	1.000000	6.40297e-10	1.000000
PAH9+H	4.19805e-10	1.000000	4.19805e-10	1.000000
rad38	1.91027e-10	1.000000	1.91027e-10	1.000000
rad7	1.07174e-10	1.000000	1.07174e-10	1.000000
rad26	9.89556e-11	1.000000	9.89556e-11	1.000000
rad10	5.36365e-11	1.000000	5.36365e-11	1.000000
rad1	5.18121e-11	1.000000	5.18121e-11	1.000000
rad60syn	3.26080e-11	1.000000	3.26080e-11	1.000000
rad11	3.23024e-11	1.000000	3.23024e-11	1.000000
PAH10+CH3	2.00006e-11	1.000000	2.00006e-11	1.000000
PAH3+H	1.65076e-11	1.000000	1.65076e-11	1.000000
rad60anti	1.61932e-11	1.000000	1.61932e-11	1.000000
rad46	1.16249e-11	1.000000	1.16249e-11	1.000000
PhcycC3H3_A+H	7.79535e-12	1.000000	7.79535e-12	1.000000
rad3	7.07517e-12	1.000000	7.07517e-12	1.000000
rad4	3.61717e-12	1.000000	3.61717e-12	1.000000
rad59	3.29895e-12	1.000000	3.29895e-12	1.000000
rad23	3.09160e-12	1.000000	3.09160e-12	1.000000
rad9	1.11516e-12	1.000000	1.11516e-12	1.000000
rad43	7.93934e-13	1.000000	7.93934e-13	1.000000
rad54	5.39635e-13	1.000000	5.39635e-13	1.000000
rad13	3.46670e-13	1.000000	3.46670e-13	1.000000

rad62	1.67053e-13	1.000000	1.67053e-13	1.000000
rad50	1.03966e-13	1.000000	1.03966e-13	1.000000
rad45	7.27911e-14	1.000000	7.27911e-14	1.000000
Phenyl+cycC3H4	5.71891e-14	1.000000	0.00000	1.000000
PhcycC3H3_B+H	1.54772e-14	1.000000	1.54772e-14	1.000000
rad70	1.26855e-14	1.000000	1.26855e-14	1.000000
rad55	5.30518e-15	1.000000	5.30518e-15	1.000000
PAH1+H	4.64279e-15	1.000000	4.64279e-15	1.000000
rad36	4.48714e-15	1.000000	4.48714e-15	1.000000
rad22	3.79414e-15	1.000000	3.79414e-15	1.000000
rad52	8.44781e-16	1.000000	8.44781e-16	1.000000
rad15	6.57436e-16	1.000000	6.57436e-16	1.000000
rad14	6.02586e-16	1.000000	6.02586e-16	1.000000
rad33	5.76387e-16	1.000000	5.76387e-16	1.000000
rad27	5.12347e-16	1.000000	5.12347e-16	1.000000
rad58	4.75669e-16	1.000000	4.75669e-16	1.000000
rad51	2.81108e-16	1.000000	2.81108e-16	1.000000
rad25	2.41529e-16	1.000000	2.41529e-16	1.000000
rad34	2.28539e-16	1.000000	2.28539e-16	1.000000
rad41	6.34693e-17	1.000000	6.34693e-17	1.000000
rad42	4.36163e-17	1.000000	4.36163e-17	1.000000
rad65	6.45973e-18	1.000000	6.45973e-18	1.000000
rad53	1.28752e-19	1.000000	1.28752e-19	1.000000
rad5	7.22915e-20	1.000000	7.22915e-20	1.000000
rad64	2.21589e-20	1.000000	2.21589e-20	1.000000
rad31	2.05933e-20	1.000000	2.05933e-20	1.000000
rad20	2.01105e-20	1.000000	2.01105e-20	1.000000
rad18	1.63937e-20	1.000000	1.63937e-20	1.000000
rad21	1.34046e-20	1.000000	1.34046e-20	1.000000
rad12	5.71004e-21	1.000000	5.71004e-21	1.000000
rad61	1.38344e-21	1.000000	1.38344e-21	1.000000
rad19anti	7.37435e-22	1.000000	7.37435e-22	1.000000
rad24	6.21212e-22	1.000000	6.21212e-22	1.000000
rad56	4.64124e-23	1.000000	4.64124e-23	1.000000
rad68syn	4.40525e-24	1.000000	4.40525e-24	1.000000
rad68anti	3.46908e-24	1.000000	3.46908e-24	1.000000
rad47	8.36830e-26	1.000000	8.36830e-26	1.000000
rad40syn	5.33221e-27	1.000000	5.33221e-27	1.000000
rad40anti	4.27202e-27	1.000000	4.27202e-27	1.000000
rad73	2.48815e-28	1.000000	2.48815e-28	1.000000
PAH8+H	1.65250e-28	1.000000	1.65250e-28	1.000000
rad71	1.61242e-31	1.000000	1.61242e-31	1.000000
rad19syn	8.89198e-36	1.000000	8.89198e-36	1.000000
rad8	9.69980e-56	1.000000	9.69980e-56	1.000000

1.00000000 Pa, 180.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.12884e-14 (1.00)	1.12884e-14 (1.00)
Formation of rad19	1.12881e-14 (1.000)	1.12881e-14 (1.000)
H-abstraction to cyc2enyl	2.75916e-19 (2.44e-05)	2.75916e-19 (2.44e-05)
H-abstraction to cyclenyl	2.39955e-23 (2.13e-09)	2.39955e-23 (2.13e-09)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999639	0.999639	0.999639	0.999639
PhCHCCH2+H	0.000318790	0.999957	0.000318790	0.999957
Benzene+cycloprop-2-enylidene	2.44424e-05	0.999982	2.44424e-05	0.999982
PhCCH+CH3	5.55811e-06	0.999987	5.55811e-06	0.999987
C2H2+PhCH2	4.13716e-06	0.999991	4.13716e-06	0.999991
PhCCCH3+H	3.31876e-06	0.999995	3.31876e-06	0.999995
Ph+MeAc	2.69827e-06	0.999998	2.69827e-06	0.999998
rad67	8.02563e-07	0.999998	8.02563e-07	0.999998
rad6	6.06607e-07	0.999999	6.06607e-07	0.999999
rad35	3.47718e-07	0.999999	3.47718e-07	0.999999
Ph+Allene	2.43427e-07	1.000000	2.43427e-07	1.000000
PhCH2CCH+H	3.30905e-08	1.000000	3.30905e-08	1.000000
PAH7+H	2.90074e-08	1.000000	2.90074e-08	1.000000
rad37	9.13936e-09	1.000000	9.13936e-09	1.000000
rad39	8.17446e-09	1.000000	8.17446e-09	1.000000
rad30	6.54147e-09	1.000000	6.54147e-09	1.000000
Benzene+cycloprop-1-enylidene	2.12567e-09	1.000000	2.12567e-09	1.000000
rad28	7.10032e-10	1.000000	7.10032e-10	1.000000
rad2	6.56325e-10	1.000000	6.56325e-10	1.000000
PAH9+H	4.53510e-10	1.000000	4.53510e-10	1.000000
rad38	2.07680e-10	1.000000	2.07680e-10	1.000000
rad7	8.95448e-11	1.000000	8.95448e-11	1.000000
rad26	8.34528e-11	1.000000	8.34528e-11	1.000000
rad10	4.49593e-11	1.000000	4.49593e-11	1.000000

rad1	4.38236e-11	1.000000	4.38236e-11	1.000000
rad60syn	3.50202e-11	1.000000	3.50202e-11	1.000000
rad11	2.69239e-11	1.000000	2.69239e-11	1.000000
PAH10+CH3	2.29878e-11	1.000000	2.29878e-11	1.000000
PAH3+H	1.82214e-11	1.000000	1.82214e-11	1.000000
rad60anti	1.74244e-11	1.000000	1.74244e-11	1.000000
rad46	1.27438e-11	1.000000	1.27438e-11	1.000000
PhcycC3H3_A+H	1.01496e-11	1.000000	1.01496e-11	1.000000
rad3	5.92017e-12	1.000000	5.92017e-12	1.000000
rad59	3.62540e-12	1.000000	3.62540e-12	1.000000
rad4	3.03193e-12	1.000000	3.03193e-12	1.000000
rad23	2.44395e-12	1.000000	2.44395e-12	1.000000
rad43	8.95824e-13	1.000000	8.95824e-13	1.000000
rad9	8.01035e-13	1.000000	8.01035e-13	1.000000
rad54	6.39727e-13	1.000000	6.39727e-13	1.000000
rad13	2.91016e-13	1.000000	2.91016e-13	1.000000
rad62	1.89704e-13	1.000000	1.89704e-13	1.000000
rad50	1.19085e-13	1.000000	1.19085e-13	1.000000
Phenyl+cycC3H4	8.44565e-14	1.000000	0.000000	1.000000
rad45	5.70600e-14	1.000000	5.70600e-14	1.000000
PhcycC3H3_B+H	2.84733e-14	1.000000	2.84733e-14	1.000000
rad70	1.56615e-14	1.000000	1.56615e-14	1.000000
rad55	6.59574e-15	1.000000	6.59574e-15	1.000000
PAH1+H	6.03205e-15	1.000000	6.03205e-15	1.000000
rad36	3.52471e-15	1.000000	3.52471e-15	1.000000
rad22	2.94164e-15	1.000000	2.94164e-15	1.000000
rad52	9.99973e-16	1.000000	9.99973e-16	1.000000
rad58	5.80912e-16	1.000000	5.80912e-16	1.000000
rad14	5.03547e-16	1.000000	5.03547e-16	1.000000
rad33	4.87124e-16	1.000000	4.87124e-16	1.000000
rad15	4.70104e-16	1.000000	4.70104e-16	1.000000
rad27	4.29917e-16	1.000000	4.29917e-16	1.000000
rad51	3.46004e-16	1.000000	3.46004e-16	1.000000
rad34	3.01920e-16	1.000000	3.01920e-16	1.000000
rad25	2.02664e-16	1.000000	2.02664e-16	1.000000
rad41	8.47261e-17	1.000000	8.47261e-17	1.000000
rad42	5.70036e-17	1.000000	5.70036e-17	1.000000
rad65	8.08329e-18	1.000000	8.08329e-18	1.000000
rad53	2.40426e-19	1.000000	2.40426e-19	1.000000
rad5	5.49713e-20	1.000000	5.49713e-20	1.000000
rad64	4.64268e-20	1.000000	4.64268e-20	1.000000
rad31	1.81265e-20	1.000000	1.81265e-20	1.000000
rad20	1.69276e-20	1.000000	1.69276e-20	1.000000
rad18	1.28676e-20	1.000000	1.28676e-20	1.000000
rad21	1.13155e-20	1.000000	1.13155e-20	1.000000
rad12	4.14141e-21	1.000000	4.14141e-21	1.000000
rad61	3.95480e-21	1.000000	3.95480e-21	1.000000
rad19anti	5.34744e-22	1.000000	5.34744e-22	1.000000
rad24	4.91702e-22	1.000000	4.91702e-22	1.000000
rad56	1.54663e-22	1.000000	1.54663e-22	1.000000
rad68syn	1.56623e-23	1.000000	1.56623e-23	1.000000
rad68anti	1.22573e-23	1.000000	1.22573e-23	1.000000
rad47	8.49402e-26	1.000000	8.49402e-26	1.000000
rad40syn	3.02625e-26	1.000000	3.02625e-26	1.000000
rad40anti	2.43128e-26	1.000000	2.43128e-26	1.000000
rad73	1.31672e-27	1.000000	1.31672e-27	1.000000
PAH8+H	1.30270e-27	1.000000	1.30270e-27	1.000000
rad71	1.44214e-30	1.000000	1.44214e-30	1.000000
rad19syn	2.57213e-35	1.000000	2.57213e-35	1.000000
rad8	1.29492e-55	1.000000	1.29492e-55	1.000000

1.00000000 Pa, 190.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.32132e-14 (1.00)	1.32132e-14 (1.00)
Formation of rad19	1.32126e-14 (1.000)	1.32126e-14 (1.000)
H-abstraction to cyc2enyl	5.62053e-19 (4.25e-05)	5.62053e-19 (4.25e-05)
H-abstraction to cyc1enyl	8.18073e-23 (6.19e-09)	8.18073e-23 (6.19e-09)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999608	0.999608	0.999608	0.999608
PhCHCCH2+H	0.000330907	0.999939	0.000330907	0.999939
Benzene+cycloprop-2-enylidene	4.25373e-05	0.999982	4.25373e-05	0.999982
PhCCH+CH3	5.79452e-06	0.999988	5.79452e-06	0.999988
C2H2+PhCH2	4.37580e-06	0.999992	4.37580e-06	0.999992
PhCCCH3+H	3.46984e-06	0.999996	3.46984e-06	0.999996
Ph+MeAc	2.85106e-06	0.999998	2.85106e-06	0.999998
rad67	8.45148e-07	0.999999	8.45148e-07	0.999999

rad6	5.09396e-07	1.000000	5.09396e-07	1.000000
rad35	3.65383e-07	1.00000	3.65383e-07	1.00000
Ph+Allene	2.67147e-07	1.00000	2.67147e-07	1.00000
PhCH2CCH+H	3.68383e-08	1.00000	3.68383e-08	1.00000
PAH7+H	3.14663e-08	1.00000	3.14663e-08	1.00000
rad37	9.78457e-09	1.00000	9.78457e-09	1.00000
rad39	8.86765e-09	1.00000	8.86765e-09	1.00000
rad30	6.89365e-09	1.00000	6.89365e-09	1.00000
Benzene+cycloprop-1-enylidene	6.19133e-09	1.00000	6.19133e-09	1.00000
rad28	5.93871e-10	1.00000	5.93871e-10	1.00000
rad2	5.50293e-10	1.00000	5.50293e-10	1.00000
PAH9+H	4.91037e-10	1.00000	4.91037e-10	1.00000
rad38	2.26453e-10	1.00000	2.26453e-10	1.00000
rad7	7.46866e-11	1.00000	7.46866e-11	1.00000
rad26	7.02063e-11	1.00000	7.02063e-11	1.00000
rad60syn	3.77478e-11	1.00000	3.77478e-11	1.00000
rad10	3.76086e-11	1.00000	3.76086e-11	1.00000
rad1	3.70030e-11	1.00000	3.70030e-11	1.00000
PAH10+CH3	2.66067e-11	1.00000	2.66067e-11	1.00000
rad11	2.24064e-11	1.00000	2.24064e-11	1.00000
PAH3+H	2.02193e-11	1.00000	2.02193e-11	1.00000
rad60anti	1.88196e-11	1.00000	1.88196e-11	1.00000
rad46	1.40124e-11	1.00000	1.40124e-11	1.00000
PhcycC3H3_A+H	1.32959e-11	1.00000	1.32959e-11	1.00000
rad3	4.94457e-12	1.00000	4.94457e-12	1.00000
rad59	4.00397e-12	1.00000	4.00397e-12	1.00000
rad4	2.53710e-12	1.00000	2.53710e-12	1.00000
rad23	1.93513e-12	1.00000	1.93513e-12	1.00000
rad43	1.01657e-12	1.00000	1.01657e-12	1.00000
rad54	7.61722e-13	1.00000	7.61722e-13	1.00000
rad9	5.93338e-13	1.00000	5.93338e-13	1.00000
rad13	2.43883e-13	1.00000	2.43883e-13	1.00000
rad62	2.16568e-13	1.00000	2.16568e-13	1.00000
rad50	1.37146e-13	1.00000	1.37146e-13	1.00000
Phenyl+cycC3H4	1.24603e-13	1.00000	0.00000	1.00000
PhcycC3H3_B+H	5.08905e-14	1.00000	5.08905e-14	1.00000
rad45	4.48372e-14	1.00000	4.48372e-14	1.00000
rad70	1.94569e-14	1.00000	1.94569e-14	1.00000
rad55	8.24456e-15	1.00000	8.24456e-15	1.00000
PAH1+H	7.89810e-15	1.00000	7.89810e-15	1.00000
rad36	2.77643e-15	1.00000	2.77643e-15	1.00000
rad22	2.28799e-15	1.00000	2.28799e-15	1.00000
rad52	1.19213e-15	1.00000	1.19213e-15	1.00000
rad58	7.16267e-16	1.00000	7.16267e-16	1.00000
rad51	4.29655e-16	1.00000	4.29655e-16	1.00000
rad14	4.20133e-16	1.00000	4.20133e-16	1.00000
rad33	4.10891e-16	1.00000	4.10891e-16	1.00000
rad34	4.01510e-16	1.00000	4.01510e-16	1.00000
rad27	3.60116e-16	1.00000	3.60116e-16	1.00000
rad15	3.46748e-16	1.00000	3.46748e-16	1.00000
rad25	1.69787e-16	1.00000	1.69787e-16	1.00000
rad41	1.13841e-16	1.00000	1.13841e-16	1.00000
rad42	7.49535e-17	1.00000	7.49535e-17	1.00000
rad65	1.02073e-17	1.00000	1.02073e-17	1.00000
rad53	4.38192e-19	1.00000	4.38192e-19	1.00000
rad64	9.35179e-20	1.00000	9.35179e-20	1.00000
rad5	4.20109e-20	1.00000	4.20109e-20	1.00000
rad31	1.59898e-20	1.00000	1.59898e-20	1.00000
rad20	1.43176e-20	1.00000	1.43176e-20	1.00000
rad61	1.04331e-20	1.00000	1.04331e-20	1.00000
rad18	1.01712e-20	1.00000	1.01712e-20	1.00000
rad21	9.59903e-21	1.00000	9.59903e-21	1.00000
rad12	3.09911e-21	1.00000	3.09911e-21	1.00000
rad56	4.67356e-22	1.00000	4.67356e-22	1.00000
rad19anti	4.00524e-22	1.00000	4.00524e-22	1.00000
rad24	3.90244e-22	1.00000	3.90244e-22	1.00000
rad68syn	4.99606e-23	1.00000	4.99606e-23	1.00000
rad68anti	3.88422e-23	1.00000	3.88422e-23	1.00000
rad40syn	1.45739e-25	1.00000	1.45739e-25	1.00000
rad40anti	1.17291e-25	1.00000	1.17291e-25	1.00000
rad47	8.71327e-26	1.00000	8.71327e-26	1.00000
PAH8+H	8.42165e-27	1.00000	8.42165e-27	1.00000
rad73	6.02907e-27	1.00000	6.02907e-27	1.00000
rad71	1.04743e-29	1.00000	1.04743e-29	1.00000
rad19syn	7.83214e-35	1.00000	7.83214e-35	1.00000
rad8	1.75203e-55	1.00000	1.75203e-55	1.00000

1.00000000 Pa, 200.000000 K

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

Total	1.52621e-14 (1.00)	1.52621e-14 (1.00)
Formation of rad19	1.52610e-14 (1.000)	1.52610e-14 (1.000)
H-abstraction to cyc2enyl	1.06427e-18 (6.97e-05)	1.06427e-18 (6.97e-05)
H-abstraction to cyclenyl	2.46309e-22 (1.61e-08)	2.46309e-22 (1.61e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999566	0.999566	0.999566	0.999566
PhCHCCH2+H	0.000344102	0.999910	0.000344102	0.999910
Benzene+cycloprop-2-enylidene	6.97330e-05	0.999980	6.97330e-05	0.999980
PhCCH+CH3	6.04960e-06	0.999986	6.04960e-06	0.999986
C2H2+PhCH2	4.63490e-06	0.999991	4.63490e-06	0.999991
PhCCCH3+H	3.63492e-06	0.999994	3.63492e-06	0.999994
Ph+MeAc	3.01986e-06	0.999997	3.01986e-06	0.999997
rad67	8.92226e-07	0.999998	8.92226e-07	0.999998
rad6	4.26756e-07	0.999999	4.26756e-07	0.999999
rad35	3.84871e-07	0.999999	3.84871e-07	0.999999
Ph+Allene	2.93809e-07	0.999999	2.93809e-07	0.999999
PhCH2CCH+H	4.11278e-08	0.999999	4.11278e-08	0.999999
PAH7+H	3.41773e-08	1.000000	3.41773e-08	1.000000
Benzene+cycloprop-1-enylidene	1.61386e-08	1.000000	1.61386e-08	1.000000
rad37	1.05101e-08	1.000000	1.05101e-08	1.000000
rad39	9.63126e-09	1.000000	9.63126e-09	1.000000
rad30	7.28304e-09	1.000000	7.28304e-09	1.000000
PAH9+H	5.33029e-10	1.000000	5.33029e-10	1.000000
rad28	4.95668e-10	1.000000	4.95668e-10	1.000000
rad2	4.60288e-10	1.000000	4.60288e-10	1.000000
rad38	2.47727e-10	1.000000	2.47727e-10	1.000000
rad7	6.21759e-11	1.000000	6.21759e-11	1.000000
rad26	5.89128e-11	1.000000	5.89128e-11	1.000000
rad60syn	4.08417e-11	1.000000	4.08417e-11	1.000000
rad10	3.13914e-11	1.000000	3.13914e-11	1.000000
rad1	3.11883e-11	1.000000	3.11883e-11	1.000000
PAH10+CH3	3.10127e-11	1.000000	3.10127e-11	1.000000
PAH3+H	2.25584e-11	1.000000	2.25584e-11	1.000000
rad60anti	2.04057e-11	1.000000	2.04057e-11	1.000000
rad11	1.86148e-11	1.000000	1.86148e-11	1.000000
PhcycC3H3_A+H	1.75117e-11	1.000000	1.75117e-11	1.000000
rad46	1.54583e-11	1.000000	1.54583e-11	1.000000
rad59	4.44477e-12	1.000000	4.44477e-12	1.000000
rad3	4.12156e-12	1.000000	4.12156e-12	1.000000
rad4	2.11920e-12	1.000000	2.11920e-12	1.000000
rad23	1.53401e-12	1.000000	1.53401e-12	1.000000
rad43	1.16024e-12	1.000000	1.16024e-12	1.000000
rad54	9.11169e-13	1.000000	9.11169e-13	1.000000
rad9	4.52053e-13	1.000000	4.52053e-13	1.000000
rad62	2.48547e-13	1.000000	2.48547e-13	1.000000
rad13	2.04003e-13	1.000000	2.04003e-13	1.000000
Phenyl+cycC3H4	1.83626e-13	1.000000	0.000000	1.000000
rad50	1.58849e-13	1.000000	1.58849e-13	1.000000
PhcycC3H3_B+H	8.87579e-14	1.000000	8.87579e-14	1.000000
rad45	3.52996e-14	1.000000	3.52996e-14	1.000000
rad70	2.43210e-14	1.000000	2.43210e-14	1.000000
PAH1+H	1.04158e-14	1.000000	1.04158e-14	1.000000
rad55	1.03608e-14	1.000000	1.03608e-14	1.000000
rad36	2.19202e-15	1.000000	2.19202e-15	1.000000
rad22	1.78411e-15	1.000000	1.78411e-15	1.000000
rad52	1.43157e-15	1.000000	1.43157e-15	1.000000
rad58	8.91415e-16	1.000000	8.91415e-16	1.000000
rad51	5.38229e-16	1.000000	5.38229e-16	1.000000
rad34	5.37193e-16	1.000000	5.37193e-16	1.000000
rad14	3.49933e-16	1.000000	3.49933e-16	1.000000
rad33	3.45881e-16	1.000000	3.45881e-16	1.000000
rad27	3.01075e-16	1.000000	3.01075e-16	1.000000
rad15	2.63151e-16	1.000000	2.63151e-16	1.000000
rad41	1.53835e-16	1.000000	1.53835e-16	1.000000
rad25	1.41996e-16	1.000000	1.41996e-16	1.000000
rad42	9.90798e-17	1.000000	9.90798e-17	1.000000
rad65	1.30044e-17	1.000000	1.30044e-17	1.000000
rad53	7.82156e-19	1.000000	7.82156e-19	1.000000
rad64	1.82153e-19	1.000000	1.82153e-19	1.000000
rad5	3.22412e-20	1.000000	3.22412e-20	1.000000
rad61	2.57345e-20	1.000000	2.57345e-20	1.000000
rad31	1.41403e-20	1.000000	1.41403e-20	1.000000
rad20	1.21608e-20	1.000000	1.21608e-20	1.000000
rad21	8.17783e-21	1.000000	8.17783e-21	1.000000
rad18	8.08835e-21	1.000000	8.08835e-21	1.000000
rad12	2.38686e-21	1.000000	2.38686e-21	1.000000
rad56	1.30104e-21	1.000000	1.30104e-21	1.000000

rad24	3.10402e-22	1.000000	3.10402e-22	1.000000
rad19anti	3.09220e-22	1.000000	3.09220e-22	1.000000
rad68syn	1.45543e-22	1.000000	1.45543e-22	1.000000
rad68anti	1.12383e-22	1.000000	1.12383e-22	1.000000
rad40syn	6.11189e-25	1.000000	6.11189e-25	1.000000
rad40anti	4.92237e-25	1.000000	4.92237e-25	1.000000
rad47	9.04168e-26	1.000000	9.04168e-26	1.000000
PAH8+H	4.59860e-26	1.000000	4.59860e-26	1.000000
rad73	2.44283e-26	1.000000	2.44283e-26	1.000000
rad71	6.36471e-29	1.000000	6.36471e-29	1.000000
rad19syn	2.51002e-34	1.000000	2.51002e-34	1.000000
rad8	2.40257e-55	1.000000	2.40257e-55	1.000000

1.00000000 Pa, 210.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.74272e-14 (1.00)	1.74272e-14 (1.00)
Formation of rad19	1.74253e-14 (1.000)	1.74253e-14 (1.000)
H-abstraction to cyc2enyl	1.89310e-18 (0.000109)	1.89310e-18 (0.000109)
H-abstraction to cyclenyl	6.66714e-22 (3.83e-08)	6.66714e-22 (3.83e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999512	0.999512	0.999512	0.999512
PhCHCCH2+H	0.000358490	0.999871	0.000358490	0.999871
Benzene+cycloprop-2-enylidene	0.000108629	0.999979	0.000108629	0.999979
PhCCH+CH3	6.32538e-06	0.999986	6.32538e-06	0.999986
C2H2+PhCH2	4.91731e-06	0.999991	4.91731e-06	0.999991
PhCCCH3+H	3.81558e-06	0.999995	3.81558e-06	0.999995
Ph+MeAc	3.20669e-06	0.999998	3.20669e-06	0.999998
rad67	9.44351e-07	0.999999	9.44351e-07	0.999999
rad35	4.06401e-07	0.999999	4.06401e-07	0.999999
rad6	3.56652e-07	0.999999	3.56652e-07	0.999999
Ph+Allene	3.23909e-07	1.000000	3.23909e-07	1.000000
PhCH2CCH+H	4.60583e-08	1.000000	4.60583e-08	1.000000
Benzene+cycloprop-1-enylidene	3.82571e-08	1.000000	3.82571e-08	1.000000
PAH7+H	3.71808e-08	1.000000	3.71808e-08	1.000000
rad37	1.13277e-08	1.000000	1.13277e-08	1.000000
rad39	1.04764e-08	1.000000	1.04764e-08	1.000000
rad30	7.71445e-09	1.000000	7.71445e-09	1.000000
PAH9+H	5.80219e-10	1.000000	5.80219e-10	1.000000
rad28	4.12790e-10	1.000000	4.12790e-10	1.000000
rad2	3.84057e-10	1.000000	3.84057e-10	1.000000
rad38	2.71940e-10	1.000000	2.71940e-10	1.000000
rad7	5.16560e-11	1.000000	5.16560e-11	1.000000
rad26	4.93078e-11	1.000000	4.93078e-11	1.000000
rad60syn	4.43609e-11	1.000000	4.43609e-11	1.000000
PAH10+CH3	3.64009e-11	1.000000	3.64009e-11	1.000000
rad1	2.62399e-11	1.000000	2.62399e-11	1.000000
rad10	2.61429e-11	1.000000	2.61429e-11	1.000000
PAH3+H	2.53072e-11	1.000000	2.53072e-11	1.000000
PhcycC3H3_A+H	2.31693e-11	1.000000	2.31693e-11	1.000000
rad60anti	2.22139e-11	1.000000	2.22139e-11	1.000000
rad46	1.71134e-11	1.000000	1.71134e-11	1.000000
rad11	1.54357e-11	1.000000	1.54357e-11	1.000000
rad59	4.95985e-12	1.000000	4.95985e-12	1.000000
rad3	3.42838e-12	1.000000	3.42838e-12	1.000000
rad4	1.76680e-12	1.000000	1.76680e-12	1.000000
rad43	1.33179e-12	1.000000	1.33179e-12	1.000000
rad23	1.21701e-12	1.000000	1.21701e-12	1.000000
rad54	1.09505e-12	1.000000	1.09505e-12	1.000000
rad9	3.53540e-13	1.000000	3.53540e-13	1.000000
rad62	2.86731e-13	1.000000	2.86731e-13	1.000000
Phenyl+cycC3H4	2.70226e-13	1.000000	0.000000	1.000000
rad50	1.85063e-13	1.000000	1.85063e-13	1.000000
rad13	1.70307e-13	1.000000	1.70307e-13	1.000000
PhcycC3H3_B+H	1.51569e-13	1.000000	1.51569e-13	1.000000
rad70	3.05807e-14	1.000000	3.05807e-14	1.000000
rad45	2.78323e-14	1.000000	2.78323e-14	1.000000
PAH1+H	1.38242e-14	1.000000	1.38242e-14	1.000000
rad55	1.30872e-14	1.000000	1.30872e-14	1.000000
rad36	1.73392e-15	1.000000	1.73392e-15	1.000000
rad52	1.73168e-15	1.000000	1.73168e-15	1.000000
rad22	1.39398e-15	1.000000	1.39398e-15	1.000000
rad58	1.11927e-15	1.000000	1.11927e-15	1.000000
rad34	7.22583e-16	1.000000	7.22583e-16	1.000000
rad51	6.80016e-16	1.000000	6.80016e-16	1.000000
rad14	2.90922e-16	1.000000	2.90922e-16	1.000000
rad33	2.90538e-16	1.000000	2.90538e-16	1.000000

rad27	2.51212e-16	1.000000	2.51212e-16	1.000000
rad41	2.08877e-16	1.000000	2.08877e-16	1.000000
rad15	2.05057e-16	1.000000	2.05057e-16	1.000000
rad42	1.31558e-16	1.000000	1.31558e-16	1.000000
rad25	1.18532e-16	1.000000	1.18532e-16	1.000000
rad65	1.67093e-17	1.000000	1.67093e-17	1.000000
rad53	1.37084e-18	1.000000	1.37084e-18	1.000000
rad64	3.44623e-19	1.000000	3.44623e-19	1.000000
rad61	5.99672e-20	1.000000	5.99672e-20	1.000000
rad5	2.48303e-20	1.000000	2.48303e-20	1.000000
rad31	1.25410e-20	1.000000	1.25410e-20	1.000000
rad20	1.03669e-20	1.000000	1.03669e-20	1.000000
rad21	6.99338e-21	1.000000	6.99338e-21	1.000000
rad18	6.46558e-21	1.000000	6.46558e-21	1.000000
rad56	3.37870e-21	1.000000	3.37870e-21	1.000000
rad12	1.88825e-21	1.000000	1.88825e-21	1.000000
rad68syn	3.92698e-22	1.000000	3.92698e-22	1.000000
rad68anti	3.01134e-22	1.000000	3.01134e-22	1.000000
rad24	2.47342e-22	1.000000	2.47342e-22	1.000000
rad19anti	2.45925e-22	1.000000	2.45925e-22	1.000000
rad40syn	2.27833e-24	1.000000	2.27833e-24	1.000000
rad40anti	1.83452e-24	1.000000	1.83452e-24	1.000000
PAH8+H	2.17046e-25	1.000000	2.17046e-25	1.000000
rad47	9.50068e-26	1.000000	9.50068e-26	1.000000
rad73	8.91403e-26	1.000000	8.91403e-26	1.000000
rad71	3.31075e-28	1.000000	3.31075e-28	1.000000
rad19syn	8.46112e-34	1.000000	8.46112e-34	1.000000
rad8	3.33989e-55	1.000000	3.33989e-55	1.000000

1.00000000 Pa, 220.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.97009e-14 (1.00)	1.97009e-14 (1.00)
Formation of rad19	1.96977e-14 (1.000)	1.96977e-14 (1.000)
H-abstraction to cyc2enyl	3.19064e-18 (0.000162)	3.19064e-18 (0.000162)
H-abstraction to cyclenyl	1.64627e-21 (8.36e-08)	1.64627e-21 (8.36e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999442	0.999442	0.999442	0.999442
PhCHCCH2+H	0.000374189	0.999816	0.000374189	0.999816
Benzene+cycloprop-2-enylidene	0.000161954	0.999978	0.000161954	0.999978
PhCCH+CH3	6.62401e-06	0.999985	6.62401e-06	0.999985
C2H2+PhCH2	5.22610e-06	0.999990	5.22610e-06	0.999990
PhCCCH3+H	4.01352e-06	0.999994	4.01352e-06	0.999994
Ph+MeAc	3.41378e-06	0.999997	3.41378e-06	0.999997
rad67	1.00213e-06	0.999998	1.00213e-06	0.999998
rad35	4.30212e-07	0.999999	4.30212e-07	0.999999
Ph+Allene	3.58016e-07	0.999999	3.58016e-07	0.999999
rad6	2.97321e-07	1.000000	2.97321e-07	1.000000
Benzene+cycloprop-1-enylidene	8.35632e-08	1.000000	8.35632e-08	1.000000
PhCH2CCH+H	5.17460e-08	1.000000	5.17460e-08	1.000000
PAH7+H	4.05213e-08	1.000000	4.05213e-08	1.000000
rad37	1.22508e-08	1.000000	1.22508e-08	1.000000
rad39	1.14152e-08	1.000000	1.14152e-08	1.000000
rad30	8.19315e-09	1.000000	8.19315e-09	1.000000
PAH9+H	6.33444e-10	1.000000	6.33444e-10	1.000000
rad28	3.42983e-10	1.000000	3.42983e-10	1.000000
rad2	3.19647e-10	1.000000	3.19647e-10	1.000000
rad38	2.99605e-10	1.000000	2.99605e-10	1.000000
rad60syn	4.83734e-11	1.000000	4.83734e-11	1.000000
PAH10+CH3	4.30156e-11	1.000000	4.30156e-11	1.000000
rad7	4.28251e-11	1.000000	4.28251e-11	1.000000
rad26	4.11605e-11	1.000000	4.11605e-11	1.000000
PhcycC3H3_A+H	3.07683e-11	1.000000	3.07683e-11	1.000000
PAH3+H	2.85487e-11	1.000000	2.85487e-11	1.000000
rad60anti	2.42804e-11	1.000000	2.42804e-11	1.000000
rad1	2.20367e-11	1.000000	2.20367e-11	1.000000
rad10	2.17212e-11	1.000000	2.17212e-11	1.000000
rad46	1.90153e-11	1.000000	1.90153e-11	1.000000
rad11	1.27742e-11	1.000000	1.27742e-11	1.000000
rad59	5.56362e-12	1.000000	5.56362e-12	1.000000
rad3	2.84564e-12	1.000000	2.84564e-12	1.000000
rad43	1.53722e-12	1.000000	1.53722e-12	1.000000
rad4	1.47012e-12	1.000000	1.47012e-12	1.000000
rad54	1.32213e-12	1.000000	1.32213e-12	1.000000
rad23	9.65994e-13	1.000000	9.65994e-13	1.000000
Phenyl+cycC3H4	3.96956e-13	1.000000	0.00000	1.000000
rad62	3.32441e-13	1.000000	3.32441e-13	1.000000

rad9	2.83375e-13	1.000000	2.83375e-13	1.000000
PhcycC3H3_B+H	2.54075e-13	1.000000	2.54075e-13	1.000000
rad50	2.16874e-13	1.000000	2.16874e-13	1.000000
rad13	1.41885e-13	1.000000	1.41885e-13	1.000000
rad70	3.86630e-14	1.000000	3.86630e-14	1.000000
rad45	2.19701e-14	1.000000	2.19701e-14	1.000000
PAH1+H	1.84506e-14	1.000000	1.84506e-14	1.000000
rad55	1.66103e-14	1.000000	1.66103e-14	1.000000
rad52	2.10973e-15	1.000000	2.10973e-15	1.000000
rad58	1.41702e-15	1.000000	1.41702e-15	1.000000
rad36	1.37379e-15	1.000000	1.37379e-15	1.000000
rad22	1.09086e-15	1.000000	1.09086e-15	1.000000
rad34	9.76409e-16	1.000000	9.76409e-16	1.000000
rad51	8.66163e-16	1.000000	8.66163e-16	1.000000
rad41	2.84709e-16	1.000000	2.84709e-16	1.000000
rad33	2.43522e-16	1.000000	2.43522e-16	1.000000
rad14	2.41394e-16	1.000000	2.41394e-16	1.000000
rad27	2.09173e-16	1.000000	2.09173e-16	1.000000
rad42	1.75308e-16	1.000000	1.75308e-16	1.000000
rad15	1.63805e-16	1.000000	1.63805e-16	1.000000
rad25	9.87519e-17	1.000000	9.87519e-17	1.000000
rad65	2.16409e-17	1.000000	2.16409e-17	1.000000
rad53	2.36372e-18	1.000000	2.36372e-18	1.000000
rad64	6.35544e-19	1.000000	6.35544e-19	1.000000
rad61	1.33089e-19	1.000000	1.33089e-19	1.000000
rad5	1.91792e-20	1.000000	1.91792e-20	1.000000
rad31	1.11604e-20	1.000000	1.11604e-20	1.000000
rad20	8.86648e-21	1.000000	8.86648e-21	1.000000
rad56	8.26684e-21	1.000000	8.26684e-21	1.000000
rad21	6.00074e-21	1.000000	6.00074e-21	1.000000
rad18	5.19185e-21	1.000000	5.19185e-21	1.000000
rad12	1.53204e-21	1.000000	1.53204e-21	1.000000
rad68syn	9.92425e-22	1.000000	9.92425e-22	1.000000
rad68anti	7.55796e-22	1.000000	7.55796e-22	1.000000
rad19anti	2.02186e-22	1.000000	2.02186e-22	1.000000
rad24	1.97391e-22	1.000000	1.97391e-22	1.000000
rad40syn	7.67263e-24	1.000000	7.67263e-24	1.000000
rad40anti	6.17194e-24	1.000000	6.17194e-24	1.000000
PAH8+H	9.01733e-25	1.000000	9.01733e-25	1.000000
rad73	2.96992e-25	1.000000	2.96992e-25	1.000000
rad47	1.01195e-25	1.000000	1.01195e-25	1.000000
rad71	1.50115e-27	1.000000	1.50115e-27	1.000000
rad19syn	2.99699e-33	1.000000	2.99699e-33	1.000000
rad8	4.70799e-55	1.000000	4.70799e-55	1.000000

1.00000000 Pa, 230.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.20761e-14 (1.00)	2.20761e-14 (1.00)
Formation of rad19	2.20710e-14 (1.000)	2.20710e-14 (1.000)
H-abstraction to cyc2enyl	5.13155e-18 (0.000232)	5.13155e-18 (0.000232)
H-abstraction to cyclenyl	3.75316e-21 (1.70e-07)	3.75316e-21 (1.70e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999353	0.999353	0.999353	0.999353
PhCHCCH2+H	0.000391326	0.999745	0.000391326	0.999745
Benzene+cycloprop-2-enylidene	0.000232448	0.999977	0.000232448	0.999977
PhCCH+CH3	6.94771e-06	0.999984	6.94771e-06	0.999984
C2H2+PhCH2	5.56461e-06	0.999990	5.56461e-06	0.999990
PhCCCH3+H	4.23055e-06	0.999994	4.23055e-06	0.999994
Ph+MeAc	3.64354e-06	0.999998	3.64354e-06	0.999998
rad67	1.06623e-06	0.999999	1.06623e-06	0.999999
rad35	4.56568e-07	0.999999	4.56568e-07	0.999999
Ph+Allene	3.96783e-07	1.000000	3.96783e-07	1.000000
rad6	2.47236e-07	1.000000	2.47236e-07	1.000000
Benzene+cycloprop-1-enylidene	1.70010e-07	1.000000	1.70010e-07	1.000000
PhCH2CCH+H	5.83274e-08	1.000000	5.83274e-08	1.000000
PAH7+H	4.42489e-08	1.000000	4.42489e-08	1.000000
rad37	1.32948e-08	1.000000	1.32948e-08	1.000000
rad39	1.24615e-08	1.000000	1.24615e-08	1.000000
rad30	8.72500e-09	1.000000	8.72500e-09	1.000000
PAH9+H	6.93659e-10	1.000000	6.93659e-10	1.000000
rad38	3.31319e-10	1.000000	3.31319e-10	1.000000
rad28	2.84316e-10	1.000000	2.84316e-10	1.000000
rad2	2.65366e-10	1.000000	2.65366e-10	1.000000
rad60syn	5.29574e-11	1.000000	5.29574e-11	1.000000
PAH10+CH3	5.11627e-11	1.000000	5.11627e-11	1.000000
PhcycC3H3_A+H	4.09757e-11	1.000000	4.09757e-11	1.000000

rad7	3.54264e-11	1.00000	3.54264e-11	1.00000
rad26	3.42688e-11	1.00000	3.42688e-11	1.00000
PAH3+H	3.23820e-11	1.00000	3.23820e-11	1.00000
rad60anti	2.66470e-11	1.00000	2.66470e-11	1.00000
rad46	2.12080e-11	1.00000	2.12080e-11	1.00000
rad1	1.84738e-11	1.00000	1.84738e-11	1.00000
rad10	1.80049e-11	1.00000	1.80049e-11	1.00000
rad11	1.05498e-11	1.00000	1.05498e-11	1.00000
rad59	6.27327e-12	1.00000	6.27327e-12	1.00000
rad3	2.35679e-12	1.00000	2.35679e-12	1.00000
rad43	1.78384e-12	1.00000	1.78384e-12	1.00000
rad54	1.60339e-12	1.00000	1.60339e-12	1.00000
rad4	1.22087e-12	1.00000	1.22087e-12	1.00000
rad23	7.66964e-13	1.00000	7.66964e-13	1.00000
Phenyl+cycC3H4	5.81829e-13	1.00000	0.00000	1.00000
PhcycC3H3_B+H	4.18920e-13	1.00000	4.18920e-13	1.00000
rad62	3.87272e-13	1.00000	3.87272e-13	1.00000
rad50	2.55637e-13	1.00000	2.55637e-13	1.00000
rad9	2.32517e-13	1.00000	2.32517e-13	1.00000
rad13	1.17957e-13	1.00000	1.17957e-13	1.00000
rad70	4.91265e-14	1.00000	4.91265e-14	1.00000
PAH1+H	2.47410e-14	1.00000	2.47410e-14	1.00000
rad55	2.11734e-14	1.00000	2.11734e-14	1.00000
rad45	1.73588e-14	1.00000	1.73588e-14	1.00000
rad52	2.58808e-15	1.00000	2.58808e-15	1.00000
rad58	1.80760e-15	1.00000	1.80760e-15	1.00000
rad34	1.32435e-15	1.00000	1.32435e-15	1.00000
rad51	1.11167e-15	1.00000	1.11167e-15	1.00000
rad36	1.08999e-15	1.00000	1.08999e-15	1.00000
rad22	8.54702e-16	1.00000	8.54702e-16	1.00000
rad41	3.89210e-16	1.00000	3.89210e-16	1.00000
rad42	2.34239e-16	1.00000	2.34239e-16	1.00000
rad33	2.03666e-16	1.00000	2.03666e-16	1.00000
rad14	1.99895e-16	1.00000	1.99895e-16	1.00000
rad27	1.73802e-16	1.00000	1.73802e-16	1.00000
rad15	1.33982e-16	1.00000	1.33982e-16	1.00000
rad25	8.21061e-17	1.00000	8.21061e-17	1.00000
rad65	2.82326e-17	1.00000	2.82326e-17	1.00000
rad53	4.01574e-18	1.00000	4.01574e-18	1.00000
rad64	1.14561e-18	1.00000	1.14561e-18	1.00000
rad61	2.83141e-19	1.00000	2.83141e-19	1.00000
rad56	1.92068e-20	1.00000	1.92068e-20	1.00000
rad5	1.48507e-20	1.00000	1.48507e-20	1.00000
rad31	9.97077e-21	1.00000	9.97077e-21	1.00000
rad20	7.60574e-21	1.00000	7.60574e-21	1.00000
rad21	5.16491e-21	1.00000	5.16491e-21	1.00000
rad18	4.18569e-21	1.00000	4.18569e-21	1.00000
rad68syn	2.37000e-21	1.00000	2.37000e-21	1.00000
rad68anti	1.79281e-21	1.00000	1.79281e-21	1.00000
rad12	1.27342e-21	1.00000	1.27342e-21	1.00000
rad19anti	1.74902e-22	1.00000	1.74902e-22	1.00000
rad24	1.57731e-22	1.00000	1.57731e-22	1.00000
rad40syn	2.36428e-23	1.00000	2.36428e-23	1.00000
rad40anti	1.89889e-23	1.00000	1.89889e-23	1.00000
PAH8+H	3.34557e-24	1.00000	3.34557e-24	1.00000
rad73	9.12983e-25	1.00000	9.12983e-25	1.00000
rad47	1.09378e-25	1.00000	1.09378e-25	1.00000
rad71	6.01979e-27	1.00000	6.01979e-27	1.00000
rad19syn	1.11382e-32	1.00000	1.11382e-32	1.00000
rad8	6.73233e-55	1.00000	6.73233e-55	1.00000

1.00000000 Pa, 240.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.45462e-14 (1.00)	2.45462e-14 (1.00)
Formation of rad19	2.45383e-14 (1.000)	2.45383e-14 (1.000)
H-abstraction to cyc2enyl	7.92234e-18 (0.000323)	7.92234e-18 (0.000323)
H-abstraction to cyc1enyl	7.97958e-21 (3.25e-07)	7.97958e-21 (3.25e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999243	0.999243	0.999243	0.999243
PhCHCCH2+H	0.000410035	0.999653	0.000410035	0.999653
Benzene+cycloprop-2-enylidene	0.000322752	0.999976	0.000322752	0.999976
PhCCH+CH3	7.29880e-06	0.999983	7.29880e-06	0.999983
C2H2+PhCH2	5.93637e-06	0.999989	5.93637e-06	0.999989
PhCCCH3+H	4.46862e-06	0.999994	4.46862e-06	0.999994
Ph+MeAc	3.89864e-06	0.999997	3.89864e-06	0.999997
rad67	1.13738e-06	0.999999	1.13738e-06	0.999999

rad35	4.85754e-07	0.999999	4.85754e-07	0.999999
Ph+Allene	4.40953e-07	1.000000	4.40953e-07	1.000000
Benzene+cycloprop-1-enylidene	3.25084e-07	1.000000	3.25084e-07	1.000000
rad6	2.05071e-07	1.000000	2.05071e-07	1.000000
PhCH2CCH+H	6.59619e-08	1.000000	6.59619e-08	1.000000
PAH7+H	4.84192e-08	1.000000	4.84192e-08	1.000000
rad37	1.44767e-08	1.000000	1.44767e-08	1.000000
rad39	1.36304e-08	1.000000	1.36304e-08	1.000000
rad30	9.31642e-09	1.000000	9.31642e-09	1.000000
PAH9+H	7.61956e-10	1.000000	7.61956e-10	1.000000
rad38	3.67774e-10	1.000000	3.67774e-10	1.000000
rad28	2.35128e-10	1.000000	2.35128e-10	1.000000
rad2	2.19745e-10	1.000000	2.19745e-10	1.000000
PAH10+CH3	6.12251e-11	1.000000	6.12251e-11	1.000000
rad60syn	5.82033e-11	1.000000	5.82033e-11	1.000000
PhcycC3H3_A+H	5.46790e-11	1.000000	5.46790e-11	1.000000
PAH3+H	3.69272e-11	1.000000	3.69272e-11	1.000000
rad60anti	2.93620e-11	1.000000	2.93620e-11	1.000000
rad7	2.92409e-11	1.000000	2.92409e-11	1.000000
rad26	2.84562e-11	1.000000	2.84562e-11	1.000000
rad46	2.37431e-11	1.000000	2.37431e-11	1.000000
rad1	1.54601e-11	1.000000	1.54601e-11	1.000000
rad10	1.48892e-11	1.000000	1.48892e-11	1.000000
rad11	8.69449e-12	1.000000	8.69449e-12	1.000000
rad59	7.10937e-12	1.000000	7.10937e-12	1.000000
rad43	2.08053e-12	1.000000	2.08053e-12	1.000000
rad54	1.95261e-12	1.000000	1.95261e-12	1.000000
rad3	1.94763e-12	1.000000	1.94763e-12	1.000000
rad4	1.01188e-12	1.000000	1.01188e-12	1.000000
Phenyl+cycC3H4	8.50545e-13	1.000000	0.000000	1.000000
PhcycC3H3_B+H	6.80425e-13	1.000000	6.80425e-13	1.000000
rad23	6.09014e-13	1.000000	6.09014e-13	1.000000
rad62	4.53143e-13	1.000000	4.53143e-13	1.000000
rad50	3.03042e-13	1.000000	3.03042e-13	1.000000
rad9	1.95160e-13	1.000000	1.95160e-13	1.000000
rad13	9.78543e-14	1.000000	9.78543e-14	1.000000
rad70	6.26990e-14	1.000000	6.26990e-14	1.000000
PAH1+H	3.33017e-14	1.000000	3.33017e-14	1.000000
rad55	2.70931e-14	1.000000	2.70931e-14	1.000000
rad45	1.37258e-14	1.000000	1.37258e-14	1.000000
rad52	3.19573e-15	1.000000	3.19573e-15	1.000000
rad58	2.32151e-15	1.000000	2.32151e-15	1.000000
rad34	1.80156e-15	1.000000	1.80156e-15	1.000000
rad51	1.43675e-15	1.000000	1.43675e-15	1.000000
rad36	8.65928e-16	1.000000	8.65928e-16	1.000000
rad22	6.70302e-16	1.000000	6.70302e-16	1.000000
rad41	5.33150e-16	1.000000	5.33150e-16	1.000000
rad42	3.13564e-16	1.000000	3.13564e-16	1.000000
rad33	1.69961e-16	1.000000	1.69961e-16	1.000000
rad14	1.65197e-16	1.000000	1.65197e-16	1.000000
rad27	1.44106e-16	1.000000	1.44106e-16	1.000000
rad15	1.12124e-16	1.000000	1.12124e-16	1.000000
rad25	6.81264e-17	1.000000	6.81264e-17	1.000000
rad65	3.70731e-17	1.000000	3.70731e-17	1.000000
rad53	6.72945e-18	1.000000	6.72945e-18	1.000000
rad64	2.02284e-18	1.000000	2.02284e-18	1.000000
rad61	5.80326e-19	1.000000	5.80326e-19	1.000000
rad56	4.26328e-20	1.000000	4.26328e-20	1.000000
rad5	1.15231e-20	1.000000	1.15231e-20	1.000000
rad31	8.94870e-21	1.000000	8.94870e-21	1.000000
rad20	6.54215e-21	1.000000	6.54215e-21	1.000000
rad68syn	5.38533e-21	1.000000	5.38533e-21	1.000000
rad21	4.45832e-21	1.000000	4.45832e-21	1.000000
rad68anti	4.04766e-21	1.000000	4.04766e-21	1.000000
rad18	3.38649e-21	1.000000	3.38649e-21	1.000000
rad12	1.08359e-21	1.000000	1.08359e-21	1.000000
rad19anti	1.69775e-22	1.000000	1.69775e-22	1.000000
rad24	1.26186e-22	1.000000	1.26186e-22	1.000000
rad40syn	6.73312e-23	1.000000	6.73312e-23	1.000000
rad40anti	5.39726e-23	1.000000	5.39726e-23	1.000000
PAH8+H	1.12143e-23	1.000000	1.12143e-23	1.000000
rad73	2.61016e-24	1.000000	2.61016e-24	1.000000
rad47	1.20101e-25	1.000000	1.20101e-25	1.000000
rad71	2.16079e-26	1.000000	2.16079e-26	1.000000
rad19syn	4.33471e-32	1.000000	4.33471e-32	1.000000
rad8	9.77135e-55	1.000000	9.77135e-55	1.000000

1.00000000 Pa, 250.000000 K

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


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Total | 2.71048e-14 (1.00 ) 2.71048e-14 (1.00 )
Formation of rad19 | 2.70930e-14 (1.000 ) 2.70930e-14 (1.000 )
H-abstraction to cyc2enyl | 1.17991e-17 (0.000435) 1.17991e-17 (0.000435)
H-abstraction to cyclenyl | 1.59554e-20 (5.89e-07) 1.59554e-20 (5.89e-07)

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species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999108	0.999108	0.999108	0.999108
Benzene+cycloprop-2-enylidene	0.000435312	0.999544	0.000435312	0.999544
PhCHCCH2+H	0.000430462	0.999974	0.000430462	0.999974
PhCCH+CH3	7.67970e-06	0.999982	7.67970e-06	0.999982
C2H2+PhCH2	6.34524e-06	0.999988	6.34524e-06	0.999988
PhCCCH3+H	4.72980e-06	0.999993	4.72980e-06	0.999993
Ph+MeAc	4.18199e-06	0.999997	4.18199e-06	0.999997
rad67	1.21639e-06	0.999998	1.21639e-06	0.999998
Benzene+cycloprop-1-enylidene	5.88656e-07	0.999999	5.88656e-07	0.999999
rad35	5.18086e-07	0.999999	5.18086e-07	0.999999
Ph+Allene	4.91386e-07	1.000000	4.91386e-07	1.000000
rad6	1.69670e-07	1.000000	1.69670e-07	1.000000
PhCH2CCH+H	7.48362e-08	1.000000	7.48362e-08	1.000000
PAH7+H	5.30941e-08	1.000000	5.30941e-08	1.000000
rad37	1.58162e-08	1.000000	1.58162e-08	1.000000
rad39	1.49388e-08	1.000000	1.49388e-08	1.000000
rad30	9.97455e-09	1.000000	9.97455e-09	1.000000
PAH9+H	8.39588e-10	1.000000	8.39588e-10	1.000000
rad38	4.09781e-10	1.000000	4.09781e-10	1.000000
rad28	1.93992e-10	1.000000	1.93992e-10	1.000000
rad2	1.81512e-10	1.000000	1.81512e-10	1.000000
PAH10+CH3	7.36816e-11	1.000000	7.36816e-11	1.000000
PhcycC3H3_A+H	7.30538e-11	1.000000	7.30538e-11	1.000000
rad60syn	6.42153e-11	1.000000	6.42153e-11	1.000000
PAH3+H	4.23286e-11	1.000000	4.23286e-11	1.000000
rad60anti	3.24814e-11	1.000000	3.24814e-11	1.000000
rad46	2.66811e-11	1.000000	2.66811e-11	1.000000
rad7	2.40819e-11	1.000000	2.40819e-11	1.000000
rad26	2.35682e-11	1.000000	2.35682e-11	1.000000
rad1	1.29165e-11	1.000000	1.29165e-11	1.000000
rad10	1.22837e-11	1.000000	1.22837e-11	1.000000
rad59	8.09647e-12	1.000000	8.09647e-12	1.000000
rad11	7.15025e-12	1.000000	7.15025e-12	1.000000
rad43	2.43798e-12	1.000000	2.43798e-12	1.000000
rad54	2.38704e-12	1.000000	2.38704e-12	1.000000
rad3	1.60601e-12	1.000000	1.60601e-12	1.000000
Phenyl+cycC3H4	1.23952e-12	1.000000	0.000000	1.000000
PhcycC3H3_B+H	1.08997e-12	1.000000	1.08997e-12	1.000000
rad4	8.37059e-13	1.000000	8.37059e-13	1.000000
rad62	5.32363e-13	1.000000	5.32363e-13	1.000000
rad23	4.83603e-13	1.000000	4.83603e-13	1.000000
rad50	3.61200e-13	1.000000	3.61200e-13	1.000000
rad9	1.67515e-13	1.000000	1.67515e-13	1.000000
rad13	8.10050e-14	1.000000	8.10050e-14	1.000000
rad70	8.03279e-14	1.000000	8.03279e-14	1.000000
PAH1+H	4.49546e-14	1.000000	4.49546e-14	1.000000
rad55	3.47807e-14	1.000000	3.47807e-14	1.000000
rad45	1.08603e-14	1.000000	1.08603e-14	1.000000
rad52	3.97017e-15	1.000000	3.97017e-15	1.000000
rad58	2.99927e-15	1.000000	2.99927e-15	1.000000
rad34	2.45589e-15	1.000000	2.45589e-15	1.000000
rad51	1.86851e-15	1.000000	1.86851e-15	1.000000
rad41	7.31181e-16	1.000000	7.31181e-16	1.000000
rad36	6.88766e-16	1.000000	6.88766e-16	1.000000
rad22	5.26082e-16	1.000000	5.26082e-16	1.000000
rad42	4.20191e-16	1.000000	4.20191e-16	1.000000
rad33	1.41528e-16	1.000000	1.41528e-16	1.000000
rad14	1.36244e-16	1.000000	1.36244e-16	1.000000
rad27	1.19234e-16	1.000000	1.19234e-16	1.000000
rad15	9.59749e-17	1.000000	9.59749e-17	1.000000
rad25	5.64112e-17	1.000000	5.64112e-17	1.000000
rad65	4.89611e-17	1.000000	4.89611e-17	1.000000
rad53	1.11322e-17	1.000000	1.11322e-17	1.000000
rad64	3.50446e-18	1.000000	3.50446e-18	1.000000
rad61	1.15033e-18	1.000000	1.15033e-18	1.000000
rad56	9.08258e-20	1.000000	9.08258e-20	1.000000
rad68syn	1.17051e-20	1.000000	1.17051e-20	1.000000
rad5	8.95685e-21	1.000000	8.95685e-21	1.000000
rad68anti	8.74460e-21	1.000000	8.74460e-21	1.000000
rad31	8.07376e-21	1.000000	8.07376e-21	1.000000
rad20	5.64183e-21	1.000000	5.64183e-21	1.000000
rad21	3.85894e-21	1.000000	3.85894e-21	1.000000

rad18	2.74864e-21	1.00000	2.74864e-21	1.00000
rad12	9.43747e-22	1.00000	9.43747e-22	1.00000
rad19anti	2.18081e-22	1.00000	2.18081e-22	1.00000
rad40syn	1.78598e-22	1.00000	1.78598e-22	1.00000
rad40anti	1.42856e-22	1.00000	1.42856e-22	1.00000
rad24	1.01060e-22	1.00000	1.01060e-22	1.00000
PAH8+H	3.42855e-23	1.00000	3.42855e-23	1.00000
rad73	6.98141e-24	1.00000	6.98141e-24	1.00000
rad47	1.34117e-25	1.00000	1.34117e-25	1.00000
rad71	7.01340e-26	1.00000	7.01340e-26	1.00000
rad19syn	1.76220e-31	1.00000	1.76220e-31	1.00000
rad8	1.44041e-54	1.00000	1.44041e-54	1.00000

1.00000000 Pa, 260.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.97464e-14 (1.00)	2.97464e-14 (1.00)
Formation of rad19	2.97293e-14 (0.999)	2.97293e-14 (0.999)
H-abstraction to cyc2enyl	1.70236e-17 (0.000572)	1.70236e-17 (0.000572)
H-abstraction to cyclenyl	3.02186e-20 (1.02e-06)	3.02186e-20 (1.02e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998947	0.998947	0.998947	0.998947
Benzene+cycloprop-2-enylidene	0.000572291	0.999519	0.000572291	0.999519
PhCHCCH2+H	0.000452759	0.999972	0.000452759	0.999972
PhCCH+CH3	8.09291e-06	0.999980	8.09291e-06	0.999980
C2H2+PhCH2	6.79535e-06	0.999987	6.79535e-06	0.999987
PhCCCH3+H	5.01632e-06	0.999992	5.01632e-06	0.999992
Ph+MeAc	4.49678e-06	0.999996	4.49678e-06	0.999996
rad67	1.30414e-06	0.999998	1.30414e-06	0.999998
Benzene+cycloprop-1-enylidene	1.01588e-06	0.999999	1.01588e-06	0.999999
rad35	5.53906e-07	0.999999	5.53906e-07	0.999999
Ph+Allene	5.49057e-07	1.000000	5.49057e-07	1.000000
rad6	1.40036e-07	1.000000	1.40036e-07	1.000000
PhCH2CCH+H	8.51681e-08	1.000000	8.51681e-08	1.000000
PAH7+H	5.83434e-08	1.000000	5.83434e-08	1.000000
rad37	1.73351e-08	1.000000	1.73351e-08	1.000000
rad39	1.64056e-08	1.000000	1.64056e-08	1.000000
rad30	1.07073e-08	1.000000	1.07073e-08	1.000000
PAH9+H	9.27985e-10	1.000000	9.27985e-10	1.000000
rad38	4.58285e-10	1.000000	4.58285e-10	1.000000
rad28	1.59682e-10	1.000000	1.59682e-10	1.000000
rad2	1.49561e-10	1.000000	1.49561e-10	1.000000
PhcycC3H3_A+H	9.76488e-11	1.000000	9.76488e-11	1.000000
PAH10+CH3	8.91293e-11	1.000000	8.91293e-11	1.000000
rad60syn	7.11132e-11	1.000000	7.11132e-11	1.000000
PAH3+H	4.87599e-11	1.000000	4.87599e-11	1.000000
rad60anti	3.60697e-11	1.000000	3.60697e-11	1.000000
rad46	3.00929e-11	1.000000	3.00929e-11	1.000000
rad7	1.97892e-11	1.000000	1.97892e-11	1.000000
rad26	1.94703e-11	1.000000	1.94703e-11	1.000000
rad1	1.07743e-11	1.000000	1.07743e-11	1.000000
rad10	1.01109e-11	1.000000	1.01109e-11	1.000000
rad59	9.26385e-12	1.000000	9.26385e-12	1.000000
rad11	5.86788e-12	1.000000	5.86788e-12	1.000000
rad54	2.92818e-12	1.000000	2.92818e-12	1.000000
rad43	2.86915e-12	1.000000	2.86915e-12	1.000000
Phenyl+cycC3H4	1.79997e-12	1.000000	0.000000	1.000000
PhcycC3H3_B+H	1.72346e-12	1.000000	1.72346e-12	1.000000
rad3	1.32148e-12	1.000000	1.32148e-12	1.000000
rad4	6.91148e-13	1.000000	6.91148e-13	1.000000
rad62	6.27703e-13	1.000000	6.27703e-13	1.000000
rad50	4.32743e-13	1.000000	4.32743e-13	1.000000
rad23	3.84009e-13	1.000000	3.84009e-13	1.000000
rad9	1.47104e-13	1.000000	1.47104e-13	1.000000
rad70	1.03242e-13	1.000000	1.03242e-13	1.000000
rad13	6.69160e-14	1.000000	6.69160e-14	1.000000
PAH1+H	6.08076e-14	1.000000	6.08076e-14	1.000000
rad55	4.47685e-14	1.000000	4.47685e-14	1.000000
rad45	8.59851e-15	1.000000	8.59851e-15	1.000000
rad52	4.95990e-15	1.000000	4.95990e-15	1.000000
rad58	3.89459e-15	1.000000	3.89459e-15	1.000000
rad34	3.35226e-15	1.000000	3.35226e-15	1.000000
rad51	2.44339e-15	1.000000	2.44339e-15	1.000000
rad41	1.00312e-15	1.000000	1.00312e-15	1.000000
rad42	5.63236e-16	1.000000	5.63236e-16	1.000000
rad36	5.48515e-16	1.000000	5.48515e-16	1.000000
rad22	4.13144e-16	1.000000	4.13144e-16	1.000000

rad33	1.17604e-16	1.00000	1.17604e-16	1.00000
rad14	1.12140e-16	1.00000	1.12140e-16	1.00000
rad27	9.84513e-17	1.00000	9.84513e-17	1.00000
rad15	8.40622e-17	1.00000	8.40622e-17	1.00000
rad65	6.49767e-17	1.00000	6.49767e-17	1.00000
rad25	4.66161e-17	1.00000	4.66161e-17	1.00000
rad53	1.81880e-17	1.00000	1.81880e-17	1.00000
rad64	5.96393e-18	1.00000	5.96393e-18	1.00000
rad61	2.21146e-18	1.00000	2.21146e-18	1.00000
rad56	1.86346e-19	1.00000	1.86346e-19	1.00000
rad68syn	2.44306e-20	1.00000	2.44306e-20	1.00000
rad68anti	1.81495e-20	1.00000	1.81495e-20	1.00000
rad31	7.32850e-21	1.00000	7.32850e-21	1.00000
rad5	6.97266e-21	1.00000	6.97266e-21	1.00000
rad20	4.87752e-21	1.00000	4.87752e-21	1.00000
rad21	3.34902e-21	1.00000	3.34902e-21	1.00000
rad18	2.23746e-21	1.00000	2.23746e-21	1.00000
rad12	8.41690e-22	1.00000	8.41690e-22	1.00000
rad40syn	4.43949e-22	1.00000	4.43949e-22	1.00000
rad19anti	4.40976e-22	1.00000	4.40976e-22	1.00000
rad40anti	3.54315e-22	1.00000	3.54315e-22	1.00000
PAH8+H	9.63768e-23	1.00000	9.63768e-23	1.00000
rad24	8.10237e-23	1.00000	8.10237e-23	1.00000
rad73	1.75494e-23	1.00000	1.75494e-23	1.00000
rad71	2.07661e-25	1.00000	2.07661e-25	1.00000
rad47	1.52473e-25	1.00000	1.52473e-25	1.00000
rad19syn	7.46105e-31	1.00000	7.46105e-31	1.00000
rad8	2.15827e-54	1.00000	2.15827e-54	1.00000

1.0000000 Pa, 270.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.24655e-14 (1.00)	3.24655e-14 (1.00)
Formation of rad19	3.24415e-14 (0.999)	3.24415e-14 (0.999)
H-abstraction to cyc2enyl	2.38790e-17 (0.000736)	2.38790e-17 (0.000736)
H-abstraction to cyclenyl	5.45397e-20 (1.68e-06)	5.45397e-20 (1.68e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998757	0.998757	0.998757	0.998757
Benzene+cycloprop-2-enylidene	0.000735519	0.999493	0.000735519	0.999493
PhCHCCH2+H	0.000477088	0.999970	0.000477088	0.999970
PhCCH+CH3	8.54104e-06	0.999978	8.54104e-06	0.999978
C2H2+PhCH2	7.29118e-06	0.999986	7.29118e-06	0.999986
PhCCCH3+H	5.33057e-06	0.999991	5.33057e-06	0.999991
Ph+MeAc	4.84650e-06	0.999996	4.84650e-06	0.999996
Benzene+cycloprop-1-enylidene	1.67993e-06	0.999997	1.67993e-06	0.999997
rad67	1.40159e-06	0.999999	1.40159e-06	0.999999
Ph+Allene	6.15087e-07	0.999999	6.15087e-07	0.999999
rad35	5.93588e-07	1.00000	5.93588e-07	1.00000
rad6	1.15298e-07	1.00000	1.15298e-07	1.00000
PhCH2CCH+H	9.72124e-08	1.00000	9.72124e-08	1.00000
PAH7+H	6.42442e-08	1.00000	6.42442e-08	1.00000
rad37	1.90584e-08	1.00000	1.90584e-08	1.00000
rad39	1.80517e-08	1.00000	1.80517e-08	1.00000
rad30	1.15232e-08	1.00000	1.15232e-08	1.00000
PAH9+H	1.02878e-09	1.00000	1.02878e-09	1.00000
rad38	5.14384e-10	1.00000	5.14384e-10	1.00000
rad28	1.31140e-10	1.00000	1.31140e-10	1.00000
PhcycC3H3_A+H	1.30491e-10	1.00000	1.30491e-10	1.00000
rad2	1.22939e-10	1.00000	1.22939e-10	1.00000
PAH10+CH3	1.08311e-10	1.00000	1.08311e-10	1.00000
rad60syn	7.90350e-11	1.00000	7.90350e-11	1.00000
PAH3+H	5.64295e-11	1.00000	5.64295e-11	1.00000
rad60anti	4.02015e-11	1.00000	4.02015e-11	1.00000
rad46	3.40617e-11	1.00000	3.40617e-11	1.00000
rad7	1.62265e-11	1.00000	1.62265e-11	1.00000
rad26	1.60453e-11	1.00000	1.60453e-11	1.00000
rad59	1.06463e-11	1.00000	1.06463e-11	1.00000
rad1	8.97427e-12	1.00000	8.97427e-12	1.00000
rad10	8.30362e-12	1.00000	8.30362e-12	1.00000
rad11	4.80549e-12	1.00000	4.80549e-12	1.00000
rad54	3.60280e-12	1.00000	3.60280e-12	1.00000
rad43	3.38968e-12	1.00000	3.38968e-12	1.00000
PhcycC3H3_B+H	2.69134e-12	1.00000	2.69134e-12	1.00000
Phenyl+cycC3H4	2.60320e-12	1.00000	0.00000	1.00000
rad3	1.08512e-12	1.00000	1.08512e-12	1.00000
rad62	7.42472e-13	1.00000	7.42472e-13	1.00000
rad4	5.69651e-13	1.00000	5.69651e-13	1.00000

rad50	5.20946e-13	1.00000	5.20946e-13	1.00000
rad23	3.04920e-13	1.00000	3.04920e-13	1.00000
rad70	1.33026e-13	1.00000	1.33026e-13	1.00000
rad9	1.32346e-13	1.00000	1.32346e-13	1.00000
PAH1+H	8.23458e-14	1.00000	8.23458e-14	1.00000
rad55	5.77417e-14	1.00000	5.77417e-14	1.00000
rad13	5.51641e-14	1.00000	5.51641e-14	1.00000
rad45	6.81228e-15	1.00000	6.81228e-15	1.00000
rad52	6.22745e-15	1.00000	6.22745e-15	1.00000
rad58	5.07823e-15	1.00000	5.07823e-15	1.00000
rad34	4.57809e-15	1.00000	4.57809e-15	1.00000
rad51	3.21003e-15	1.00000	3.21003e-15	1.00000
rad41	1.37562e-15	1.00000	1.37562e-15	1.00000
rad42	7.54642e-16	1.00000	7.54642e-16	1.00000
rad36	4.37377e-16	1.00000	4.37377e-16	1.00000
rad22	3.24625e-16	1.00000	3.24625e-16	1.00000
rad33	9.75256e-17	1.00000	9.75256e-17	1.00000
rad14	9.21205e-17	1.00000	9.21205e-17	1.00000
rad65	8.65742e-17	1.00000	8.65742e-17	1.00000
rad27	8.11282e-17	1.00000	8.11282e-17	1.00000
rad15	7.54451e-17	1.00000	7.54451e-17	1.00000
rad25	3.84456e-17	1.00000	3.84456e-17	1.00000
rad53	2.93537e-17	1.00000	2.93537e-17	1.00000
rad64	9.97742e-18	1.00000	9.97742e-18	1.00000
rad61	4.13125e-18	1.00000	4.13125e-18	1.00000
rad56	3.69065e-19	1.00000	3.69065e-19	1.00000
rad68syn	4.91012e-20	1.00000	4.91012e-20	1.00000
rad68anti	3.62913e-20	1.00000	3.62913e-20	1.00000
rad31	6.69802e-21	1.00000	6.69802e-21	1.00000
rad5	5.43515e-21	1.00000	5.43515e-21	1.00000
rad20	4.22709e-21	1.00000	4.22709e-21	1.00000
rad21	2.91414e-21	1.00000	2.91414e-21	1.00000
rad18	1.82628e-21	1.00000	1.82628e-21	1.00000
rad19anti	1.29009e-21	1.00000	1.29009e-21	1.00000
rad40syn	1.03921e-21	1.00000	1.03921e-21	1.00000
rad40anti	8.27583e-22	1.00000	8.27583e-22	1.00000
rad12	7.69834e-22	1.00000	7.69834e-22	1.00000
PAH8+H	2.50812e-22	1.00000	2.50812e-22	1.00000
rad24	6.50341e-23	1.00000	6.50341e-23	1.00000
rad73	4.16103e-23	1.00000	4.16103e-23	1.00000
rad71	5.65284e-25	1.00000	5.65284e-25	1.00000
rad47	1.76648e-25	1.00000	1.76648e-25	1.00000
rad19syn	3.27848e-30	1.00000	3.27848e-30	1.00000
rad8	3.29025e-54	1.00000	3.29025e-54	1.00000

1.00000000 Pa, 280.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.52572e-14 (1.00)	3.52572e-14 (1.00)
Formation of rad19	3.52244e-14 (0.999)	3.52244e-14 (0.999)
H-abstraction to cyc2enyl	3.26639e-17 (0.000926)	3.26639e-17 (0.000926)
H-abstraction to cyclenyl	9.42926e-20 (2.67e-06)	9.42926e-20 (2.67e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998536	0.998536	0.998536	0.998536
Benzene+cycloprop-2-enylidene	0.000926445	0.999463	0.000926445	0.999463
PhCHCCH2+H	0.000503623	0.999966	0.000503623	0.999966
PhCCH+CH3	9.02681e-06	0.999975	9.02681e-06	0.999975
C2H2+PhCH2	7.83753e-06	0.999983	7.83753e-06	0.999983
PhCCCH3+H	5.67508e-06	0.999989	5.67508e-06	0.999989
Ph+MeAc	5.23494e-06	0.999994	5.23494e-06	0.999994
Benzene+cycloprop-1-enylidene	2.67442e-06	0.999997	2.67442e-06	0.999997
rad67	1.50978e-06	0.999998	1.50978e-06	0.999998
Ph+Allene	6.90749e-07	0.999999	6.90749e-07	0.999999
rad35	6.37539e-07	1.000000	6.37539e-07	1.000000
PhCH2CCH+H	1.11265e-07	1.000000	1.11265e-07	1.000000
rad6	9.47096e-08	1.000000	9.47096e-08	1.000000
PAH7+H	7.08827e-08	1.000000	7.08827e-08	1.000000
rad37	2.10142e-08	1.000000	2.10142e-08	1.000000
rad39	1.99000e-08	1.000000	1.99000e-08	1.000000
rad30	1.24318e-08	1.000000	1.24318e-08	1.000000
PAH9+H	1.14386e-09	1.000000	1.14386e-09	1.000000
rad38	5.79355e-10	1.000000	5.79355e-10	1.000000
PhcycC3H3_A+H	1.74211e-10	1.000000	1.74211e-10	1.000000
PAH10+CH3	1.32147e-10	1.000000	1.32147e-10	1.000000
rad28	1.07461e-10	1.000000	1.07461e-10	1.000000
rad2	1.00821e-10	1.000000	1.00821e-10	1.000000
rad60syn	8.81389e-11	1.000000	8.81389e-11	1.000000

PAH3+H	6.55869e-11	1.00000	6.55869e-11	1.00000
rad60anti	4.49628e-11	1.00000	4.49628e-11	1.00000
rad46	3.86846e-11	1.00000	3.86846e-11	1.00000
rad7	1.32771e-11	1.00000	1.32771e-11	1.00000
rad26	1.31911e-11	1.00000	1.31911e-11	1.00000
rad59	1.22855e-11	1.00000	1.22855e-11	1.00000
rad1	7.46482e-12	1.00000	7.46482e-12	1.00000
rad10	6.80456e-12	1.00000	6.80456e-12	1.00000
rad54	4.44404e-12	1.00000	4.44404e-12	1.00000
PhcycC3H3_B+H	4.15176e-12	1.00000	4.15176e-12	1.00000
rad43	4.01829e-12	1.00000	4.01829e-12	1.00000
rad11	3.92748e-12	1.00000	3.92748e-12	1.00000
Phenyl+cycC3H4	3.74742e-12	1.00000	0.00000	1.00000
rad3	8.89278e-13	1.00000	8.89278e-13	1.00000
rad62	8.80611e-13	1.00000	8.80611e-13	1.00000
rad50	6.29871e-13	1.00000	6.29871e-13	1.00000
rad4	4.68720e-13	1.00000	4.68720e-13	1.00000
rad23	2.42131e-13	1.00000	2.42131e-13	1.00000
rad70	1.71715e-13	1.00000	1.71715e-13	1.00000
rad9	1.22356e-13	1.00000	1.22356e-13	1.00000
PAH1+H	1.11542e-13	1.00000	1.11542e-13	1.00000
rad55	7.45777e-14	1.00000	7.45777e-14	1.00000
rad13	4.53858e-14	1.00000	4.53858e-14	1.00000
rad52	7.85298e-15	1.00000	7.85298e-15	1.00000
rad58	6.64294e-15	1.00000	6.64294e-15	1.00000
rad34	6.25015e-15	1.00000	6.25015e-15	1.00000
rad45	5.40119e-15	1.00000	5.40119e-15	1.00000
rad51	4.23304e-15	1.00000	4.23304e-15	1.00000
rad41	1.88408e-15	1.00000	1.88408e-15	1.00000
rad42	1.00992e-15	1.00000	1.00992e-15	1.00000
rad36	3.49238e-16	1.00000	3.49238e-16	1.00000
rad22	2.55201e-16	1.00000	2.55201e-16	1.00000
rad65	1.15698e-16	1.00000	1.15698e-16	1.00000
rad33	8.07181e-17	1.00000	8.07181e-17	1.00000
rad14	7.55326e-17	1.00000	7.55326e-17	1.00000
rad15	6.95918e-17	1.00000	6.95918e-17	1.00000
rad27	6.67248e-17	1.00000	6.67248e-17	1.00000
rad53	4.67913e-17	1.00000	4.67913e-17	1.00000
rad25	3.16467e-17	1.00000	3.16467e-17	1.00000
rad64	1.64144e-17	1.00000	1.64144e-17	1.00000
rad61	7.50863e-18	1.00000	7.50863e-18	1.00000
rad56	7.06718e-19	1.00000	7.06718e-19	1.00000
rad68syn	9.52110e-20	1.00000	9.52110e-20	1.00000
rad68anti	7.00487e-20	1.00000	7.00487e-20	1.00000
rad31	6.16980e-21	1.00000	6.16980e-21	1.00000
rad19anti	4.44470e-21	1.00000	4.44470e-21	1.00000
rad5	4.24160e-21	1.00000	4.24160e-21	1.00000
rad20	3.67238e-21	1.00000	3.67238e-21	1.00000
rad21	2.54248e-21	1.00000	2.54248e-21	1.00000
rad40syn	2.30006e-21	1.00000	2.30006e-21	1.00000
rad40anti	1.82787e-21	1.00000	1.82787e-21	1.00000
rad18	1.49449e-21	1.00000	1.49449e-21	1.00000
rad12	7.24326e-22	1.00000	7.24326e-22	1.00000
PAH8+H	6.07964e-22	1.00000	6.07964e-22	1.00000
rad73	9.33443e-23	1.00000	9.33443e-23	1.00000
rad24	5.22656e-23	1.00000	5.22656e-23	1.00000
rad71	1.42459e-24	1.00000	1.42459e-24	1.00000
rad47	2.08753e-25	1.00000	2.08753e-25	1.00000
rad19syn	1.48910e-29	1.00000	1.48910e-29	1.00000
rad8	5.10927e-54	1.00000	5.10927e-54	1.00000

1.00000000 Pa, 290.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.81171e-14 (1.00)	3.81171e-14 (1.00)
Formation of rad19	3.80733e-14 (0.999)	3.80733e-14 (0.999)
H-abstraction to cyc2enyl	4.36868e-17 (0.00115)	4.36868e-17 (0.00115)
H-abstraction to cyc1enyl	1.56861e-19 (4.12e-06)	1.56861e-19 (4.12e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998284	0.998284	0.998284	0.998284
Benzene+cycloprop-2-enylidene	0.00114612	0.999431	0.00114612	0.999431
PhCHCCH2+H	0.000532547	0.999963	0.000532547	0.999963
PhCCH+CH3	9.55302e-06	0.999973	9.55302e-06	0.999973
C2H2+PhCH2	8.43955e-06	0.999981	8.43955e-06	0.999981
PhCCCH3+H	6.05257e-06	0.999987	6.05257e-06	0.999987
Ph+MeAc	5.66622e-06	0.999993	5.66622e-06	0.999993
Benzene+cycloprop-1-enylidene	4.11523e-06	0.999997	4.11523e-06	0.999997

rad67	1.62987e-06	0.999999	1.62987e-06	0.999999
Ph+Allene	7.77487e-07	0.999999	7.77487e-07	0.999999
rad35	6.86202e-07	1.00000	6.86202e-07	1.00000
PhCH2CCH+H	1.27666e-07	1.00000	1.27666e-07	1.00000
PAH7+H	7.83540e-08	1.00000	7.83540e-08	1.00000
rad6	7.76226e-08	1.00000	7.76226e-08	1.00000
rad37	2.32338e-08	1.00000	2.32338e-08	1.00000
rad39	2.19762e-08	1.00000	2.19762e-08	1.00000
rad30	1.34438e-08	1.00000	1.34438e-08	1.00000
PAH9+H	1.27533e-09	1.00000	1.27533e-09	1.00000
rad38	6.54678e-10	1.00000	6.54678e-10	1.00000
PhcycC3H3_A+H	2.32187e-10	1.00000	2.32187e-10	1.00000
PAH10+CH3	1.61768e-10	1.00000	1.61768e-10	1.00000
rad60syn	9.86061e-11	1.00000	9.86061e-11	1.00000
rad28	8.78691e-11	1.00000	8.78691e-11	1.00000
rad2	8.24986e-11	1.00000	8.24986e-11	1.00000
PAH3+H	7.65294e-11	1.00000	7.65294e-11	1.00000
rad60anti	5.04517e-11	1.00000	5.04517e-11	1.00000
rad46	4.40747e-11	1.00000	4.40747e-11	1.00000
rad59	1.42300e-11	1.00000	1.42300e-11	1.00000
rad7	1.08416e-11	1.00000	1.08416e-11	1.00000
rad26	1.08199e-11	1.00000	1.08199e-11	1.00000
PhcycC3H3_B+H	6.32669e-12	1.00000	6.32669e-12	1.00000
rad1	6.20165e-12	1.00000	6.20165e-12	1.00000
rad10	5.56451e-12	1.00000	5.56451e-12	1.00000
rad54	5.49259e-12	1.00000	5.49259e-12	1.00000
Phenyl+cycC3H4	5.36584e-12	1.00000	0.00000	1.00000
rad43	4.77732e-12	1.00000	4.77732e-12	1.00000
rad11	3.20358e-12	1.00000	3.20358e-12	1.00000
rad62	1.04677e-12	1.00000	1.04677e-12	1.00000
rad50	7.64529e-13	1.00000	7.64529e-13	1.00000
rad3	7.27421e-13	1.00000	7.27421e-13	1.00000
rad4	3.85068e-13	1.00000	3.85068e-13	1.00000
rad70	2.21896e-13	1.00000	2.21896e-13	1.00000
rad23	1.92300e-13	1.00000	1.92300e-13	1.00000
PAH1+H	1.50989e-13	1.00000	1.50989e-13	1.00000
rad9	1.16896e-13	1.00000	1.16896e-13	1.00000
rad55	9.63888e-14	1.00000	9.63888e-14	1.00000
rad13	3.72698e-14	1.00000	3.72698e-14	1.00000
rad52	9.93863e-15	1.00000	9.93863e-15	1.00000
rad58	8.70907e-15	1.00000	8.70907e-15	1.00000
rad34	8.52255e-15	1.00000	8.52255e-15	1.00000
rad51	5.59736e-15	1.00000	5.59736e-15	1.00000
rad45	4.28623e-15	1.00000	4.28623e-15	1.00000
rad41	2.57513e-15	1.00000	2.57513e-15	1.00000
rad42	1.34902e-15	1.00000	1.34902e-15	1.00000
rad36	2.79290e-16	1.00000	2.79290e-16	1.00000
rad22	2.00729e-16	1.00000	2.00729e-16	1.00000
rad65	1.54922e-16	1.00000	1.54922e-16	1.00000
rad53	7.36381e-17	1.00000	7.36381e-17	1.00000
rad33	6.66848e-17	1.00000	6.66848e-17	1.00000
rad15	6.63442e-17	1.00000	6.63442e-17	1.00000
rad14	6.18204e-17	1.00000	6.18204e-17	1.00000
rad27	5.47786e-17	1.00000	5.47786e-17	1.00000
rad64	2.65552e-17	1.00000	2.65552e-17	1.00000
rad25	2.60025e-17	1.00000	2.60025e-17	1.00000
rad61	1.32864e-17	1.00000	1.32864e-17	1.00000
rad56	1.30978e-18	1.00000	1.30978e-18	1.00000
rad68syn	1.78359e-19	1.00000	1.78359e-19	1.00000
rad68anti	1.30687e-19	1.00000	1.30687e-19	1.00000
rad19anti	1.61372e-20	1.00000	1.61372e-20	1.00000
rad31	5.73349e-21	1.00000	5.73349e-21	1.00000
rad40syn	4.82987e-21	1.00000	4.82987e-21	1.00000
rad40anti	3.83097e-21	1.00000	3.83097e-21	1.00000
rad5	3.31364e-21	1.00000	3.31364e-21	1.00000
rad20	3.19844e-21	1.00000	3.19844e-21	1.00000
rad21	2.22423e-21	1.00000	2.22423e-21	1.00000
PAH8+H	1.38012e-21	1.00000	1.38012e-21	1.00000
rad18	1.22599e-21	1.00000	1.22599e-21	1.00000
rad12	7.05062e-22	1.00000	7.05062e-22	1.00000
rad73	1.98668e-22	1.00000	1.98668e-22	1.00000
rad24	4.20643e-23	1.00000	4.20643e-23	1.00000
rad71	3.34459e-24	1.00000	3.34459e-24	1.00000
rad47	2.51840e-25	1.00000	2.51840e-25	1.00000
rad19syn	6.95958e-29	1.00000	6.95958e-29	1.00000
rad8	8.09292e-54	1.00000	8.09292e-54	1.00000

1.00000000 Pa, 300.000000 K

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Rate constant | True (fraction) Effective (fraction)

Total	5.34809e-14 (1.00)	5.34809e-14 (1.00)
Formation of rad19	5.34010e-14 (0.999)	5.34010e-14 (0.999)
H-abstraction to cyc2enyl	7.95823e-17 (0.00149)	7.95823e-17 (0.00149)
H-abstraction to cyclenyl	3.44981e-19 (6.45e-06)	3.44981e-19 (6.45e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997940	0.997940	0.997940	0.997940
Benzene+cycloprop-2-enylidene	0.00148805	0.999428	0.00148805	0.999428
PhCHCCH2+H	0.000529168	0.999958	0.000529168	0.999958
PhCCH+CH3	1.04124e-05	0.999968	1.04124e-05	0.999968
C2H2+PhCH2	9.84766e-06	0.999978	9.84766e-06	0.999978
Benzene+cycloprop-1-enylidene	6.45054e-06	0.999984	6.45054e-06	0.999984
PhCCCH3+H	6.35965e-06	0.999991	6.35965e-06	0.999991
Ph+MeAc	5.98344e-06	0.999997	5.98344e-06	0.999997
rad67	1.76684e-06	0.999998	1.76684e-06	0.999998
Ph+Allene	7.91877e-07	0.999999	7.91877e-07	0.999999
rad35	7.30869e-07	1.000000	7.30869e-07	1.000000
PhCH2CCH+H	1.57206e-07	1.000000	1.57206e-07	1.000000
PAH7+H	9.74914e-08	1.000000	9.74914e-08	1.000000
rad6	8.33838e-08	1.000000	8.33838e-08	1.000000
rad37	2.82510e-08	1.000000	2.82510e-08	1.000000
rad39	2.40444e-08	1.000000	2.40444e-08	1.000000
rad30	1.38998e-08	1.000000	1.38998e-08	1.000000
PAH9+H	1.64229e-09	1.000000	1.64229e-09	1.000000
rad38	7.59303e-10	1.000000	7.59303e-10	1.000000
PhcycC3H3_A+H	3.25258e-10	1.000000	3.25258e-10	1.000000
PAH10+CH3	2.36710e-10	1.000000	2.36710e-10	1.000000
rad60syn	1.06447e-10	1.000000	1.06447e-10	1.000000
PAH3+H	9.81093e-11	1.000000	9.81093e-11	1.000000
rad28	9.38544e-11	1.000000	9.38544e-11	1.000000
rad2	8.53150e-11	1.000000	8.53150e-11	1.000000
rad60anti	5.49555e-11	1.000000	5.49555e-11	1.000000
rad46	5.32141e-11	1.000000	5.32141e-11	1.000000
rad9	4.88268e-11	1.000000	4.88268e-11	1.000000
rad59	1.66636e-11	1.000000	1.66636e-11	1.000000
rad7	1.16692e-11	1.000000	1.16692e-11	1.000000
rad26	1.11370e-11	1.000000	1.11370e-11	1.000000
PhcycC3H3_B+H	1.05898e-11	1.000000	1.05898e-11	1.000000
Phenyl+cycC3H4	8.20984e-12	1.000000	0.000000	1.000000
rad54	7.37759e-12	1.000000	7.37759e-12	1.000000
rad1	6.42883e-12	1.000000	6.42883e-12	1.000000
rad43	5.63758e-12	1.000000	5.63758e-12	1.000000
rad10	5.45621e-12	1.000000	5.45621e-12	1.000000
rad11	3.26571e-12	1.000000	3.26571e-12	1.000000
rad62	1.23774e-12	1.000000	1.23774e-12	1.000000
rad50	1.00697e-12	1.000000	1.00697e-12	1.000000
rad3	7.92795e-13	1.000000	7.92795e-13	1.000000
rad4	3.94260e-13	1.000000	3.94260e-13	1.000000
rad70	3.04584e-13	1.000000	3.04584e-13	1.000000
rad23	2.58854e-13	1.000000	2.58854e-13	1.000000
PAH1+H	1.89682e-13	1.000000	1.89682e-13	1.000000
rad55	1.29335e-13	1.000000	1.29335e-13	1.000000
rad13	4.61978e-14	1.000000	4.61978e-14	1.000000
rad15	2.99246e-14	1.000000	2.99246e-14	1.000000
rad52	1.42379e-14	1.000000	1.42379e-14	1.000000
rad34	1.25627e-14	1.000000	1.25627e-14	1.000000
rad58	1.10953e-14	1.000000	1.10953e-14	1.000000
rad51	8.07817e-15	1.000000	8.07817e-15	1.000000
rad45	6.58055e-15	1.000000	6.58055e-15	1.000000
rad41	3.57784e-15	1.000000	3.57784e-15	1.000000
rad42	1.80463e-15	1.000000	1.80463e-15	1.000000
rad22	4.06401e-16	1.000000	4.06401e-16	1.000000
rad65	2.28346e-16	1.000000	2.28346e-16	1.000000
rad36	2.24284e-16	1.000000	2.24284e-16	1.000000
rad19anti	1.54660e-16	1.000000	1.54660e-16	1.000000
rad53	1.28063e-16	1.000000	1.28063e-16	1.000000
rad33	1.03198e-16	1.000000	1.03198e-16	1.000000
rad14	7.54270e-17	1.000000	7.54270e-17	1.000000
rad27	7.33608e-17	1.000000	7.33608e-17	1.000000
rad64	4.94558e-17	1.000000	4.94558e-17	1.000000
rad25	4.00129e-17	1.000000	4.00129e-17	1.000000
rad61	2.75247e-17	1.000000	2.75247e-17	1.000000
rad56	3.01706e-18	1.000000	3.01706e-18	1.000000
rad12	5.06972e-19	1.000000	5.06972e-19	1.000000
rad68syn	3.97071e-19	1.000000	3.97071e-19	1.000000
rad68anti	2.85981e-19	1.000000	2.85981e-19	1.000000
rad20	7.95323e-20	1.000000	7.95323e-20	1.000000
rad21	6.49092e-20	1.000000	6.49092e-20	1.000000

rad18	3.08941e-20	1.00000	3.08941e-20	1.00000
rad5	2.01377e-20	1.00000	2.01377e-20	1.00000
rad31	1.85282e-20	1.00000	1.85282e-20	1.00000
rad40syn	1.34965e-20	1.00000	1.34965e-20	1.00000
rad40anti	1.03063e-20	1.00000	1.03063e-20	1.00000
PAH8+H	5.55755e-21	1.00000	5.55755e-21	1.00000
rad73	6.58394e-22	1.00000	6.58394e-22	1.00000
rad24	7.88883e-23	1.00000	7.88883e-23	1.00000
rad71	2.14886e-23	1.00000	2.14886e-23	1.00000
rad19syn	1.12386e-23	1.00000	1.12386e-23	1.00000
rad47	1.72503e-24	1.00000	1.72503e-24	1.00000
rad72	4.78387e-30	1.00000	4.78387e-30	1.00000
rad8	3.35007e-41	1.00000	3.35007e-41	1.00000

1.00000000 Pa, 310.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.92544e-14 (1.00)	5.92544e-14 (1.00)
Formation of rad19	5.91462e-14 (0.998)	5.91462e-14 (0.998)
H-abstraction to cyc2enyl	1.07628e-16 (0.00182)	1.07628e-16 (0.00182)
H-abstraction to cyclenyl	5.62537e-19 (9.49e-06)	5.62537e-19 (9.49e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997537	0.997537	0.997537	0.997537
Benzene+cycloprop-2-enylidene	0.00181637	0.999354	0.00181637	0.999354
PhCHCCH2+H	0.000598257	0.999952	0.000598257	0.999952
PhCCH+CH3	1.07369e-05	0.999963	1.07369e-05	0.999963
C2H2+PhCH2	9.83154e-06	0.999972	9.83154e-06	0.999972
Benzene+cycloprop-1-enylidene	9.49359e-06	0.999982	9.49359e-06	0.999982
PhCCCH3+H	6.91701e-06	0.999989	6.91701e-06	0.999989
Ph+MeAc	6.67444e-06	0.999996	6.67444e-06	0.999996
rad67	1.91053e-06	0.999997	1.91053e-06	0.999997
Ph+Allene	9.90749e-07	0.999998	9.90749e-07	0.999998
rad35	7.99484e-07	0.999999	7.99484e-07	0.999999
PhCH2CCH+H	1.69117e-07	0.999999	1.69117e-07	0.999999
PAH7+H	9.62100e-08	1.000000	9.62100e-08	1.000000
rad6	5.18038e-08	1.000000	5.18038e-08	1.000000
rad37	2.86042e-08	1.000000	2.86042e-08	1.000000
rad39	2.69224e-08	1.000000	2.69224e-08	1.000000
rad30	1.58220e-08	1.000000	1.58220e-08	1.000000
PAH9+H	1.59714e-09	1.000000	1.59714e-09	1.000000
rad38	8.43287e-10	1.000000	8.43287e-10	1.000000
PhcycC3H3_A+H	4.09021e-10	1.000000	4.09021e-10	1.000000
PAH10+CH3	2.44120e-10	1.000000	2.44120e-10	1.000000
rad60syn	1.24459e-10	1.000000	1.24459e-10	1.000000
PAH3+H	1.05218e-10	1.000000	1.05218e-10	1.000000
rad60anti	6.40658e-11	1.000000	6.40658e-11	1.000000
rad28	5.83875e-11	1.000000	5.83875e-11	1.000000
rad46	5.76893e-11	1.000000	5.76893e-11	1.000000
rad2	5.48881e-11	1.000000	5.48881e-11	1.000000
rad59	1.92713e-11	1.000000	1.92713e-11	1.000000
PhcycC3H3_B+H	1.41409e-11	1.000000	1.41409e-11	1.000000
Phenyl+cycC3H4	1.07882e-11	1.000000	0.000000	1.000000
rad54	8.41858e-12	1.000000	8.41858e-12	1.000000
rad26	7.23241e-12	1.000000	7.23241e-12	1.000000
rad7	7.18625e-12	1.000000	7.18625e-12	1.000000
rad43	6.79574e-12	1.000000	6.79574e-12	1.000000
rad1	4.26649e-12	1.000000	4.26649e-12	1.000000
rad10	3.69910e-12	1.000000	3.69910e-12	1.000000
rad11	2.11939e-12	1.000000	2.11939e-12	1.000000
rad62	1.48566e-12	1.000000	1.48566e-12	1.000000
rad50	1.13661e-12	1.000000	1.13661e-12	1.000000
rad3	4.84193e-13	1.000000	4.84193e-13	1.000000
rad70	3.70440e-13	1.000000	3.70440e-13	1.000000
PAH1+H	2.74939e-13	1.000000	2.74939e-13	1.000000
rad4	2.58771e-13	1.000000	2.58771e-13	1.000000
rad55	1.60816e-13	1.000000	1.60816e-13	1.000000
rad9	1.22844e-13	1.000000	1.22844e-13	1.000000
rad23	1.21414e-13	1.000000	1.21414e-13	1.000000
rad13	2.49959e-14	1.000000	2.49959e-14	1.000000
rad52	1.60334e-14	1.000000	1.60334e-14	1.000000
rad34	1.57233e-14	1.000000	1.57233e-14	1.000000
rad58	1.50002e-14	1.000000	1.50002e-14	1.000000
rad51	9.81986e-15	1.000000	9.81986e-15	1.000000
rad41	4.76237e-15	1.000000	4.76237e-15	1.000000
rad45	2.70867e-15	1.000000	2.70867e-15	1.000000
rad42	2.38557e-15	1.000000	2.38557e-15	1.000000
rad65	2.78006e-16	1.000000	2.78006e-16	1.000000

rad36	1.79587e-16	1.000000	1.79587e-16	1.000000
rad53	1.74973e-16	1.000000	1.74973e-16	1.000000
rad22	1.24407e-16	1.000000	1.24407e-16	1.000000
rad15	6.94507e-17	1.000000	6.94507e-17	1.000000
rad64	6.59885e-17	1.000000	6.59885e-17	1.000000
rad33	4.52792e-17	1.000000	4.52792e-17	1.000000
rad14	4.12021e-17	1.000000	4.12021e-17	1.000000
rad61	3.84213e-17	1.000000	3.84213e-17	1.000000
rad27	3.67306e-17	1.000000	3.67306e-17	1.000000
rad25	1.74632e-17	1.000000	1.74632e-17	1.000000
rad56	4.08907e-18	1.000000	4.08907e-18	1.000000
rad68syn	5.66339e-19	1.000000	5.66339e-19	1.000000
rad68anti	4.12172e-19	1.000000	4.12172e-19	1.000000
rad19anti	2.17295e-19	1.000000	2.17295e-19	1.000000
rad40syn	1.84067e-20	1.000000	1.84067e-20	1.000000
rad40anti	1.45516e-20	1.000000	1.45516e-20	1.000000
PAH8+H	5.95428e-21	1.000000	5.95428e-21	1.000000
rad31	5.10487e-21	1.000000	5.10487e-21	1.000000
rad20	2.44490e-21	1.000000	2.44490e-21	1.000000
rad5	2.02802e-21	1.000000	2.02802e-21	1.000000
rad21	1.71668e-21	1.000000	1.71668e-21	1.000000
rad18	8.30890e-22	1.000000	8.30890e-22	1.000000
rad73	7.76500e-22	1.000000	7.76500e-22	1.000000
rad12	7.72106e-22	1.000000	7.72106e-22	1.000000
rad24	2.73882e-23	1.000000	2.73882e-23	1.000000
rad71	1.52379e-23	1.000000	1.52379e-23	1.000000
rad47	3.90939e-25	1.000000	3.90939e-25	1.000000
rad19syn	1.62279e-27	1.000000	1.62279e-27	1.000000
rad8	2.17063e-53	1.000000	2.17063e-53	1.000000

1.00000000 Pa, 400.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.29463e-13 (1.00)	1.29463e-13 (1.00)
Formation of rad19	1.28526e-13 (0.993)	1.28526e-13 (0.993)
H-abstraction to cyc2enyl	9.19357e-16 (0.00710)	9.19357e-16 (0.00710)
H-abstraction to cyclenyl	1.69485e-17 (0.000131)	1.69485e-17 (0.000131)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.991683	0.991683	0.991683	0.991683
Benzene+cycloprop-2-enylidene	0.00710133	0.998784	0.00710133	0.998784
PhCHCCH2+H	0.00100541	0.999789	0.00100541	0.999789
Benzene+cycloprop-1-enylidene	0.000130914	0.999920	0.000130914	0.999920
C2H2+PhCH2	2.21810e-05	0.999942	2.21810e-05	0.999942
PhCCH+CH3	1.94823e-05	0.999962	1.94823e-05	0.999962
Ph+MeAc	1.45082e-05	0.999976	1.45082e-05	0.999976
PhCCCH3+H	1.31908e-05	0.999990	1.31908e-05	0.999990
rad67	4.21993e-06	0.999994	4.21993e-06	0.999994
Ph+Allene	2.94688e-06	0.999997	2.94688e-06	0.999997
rad35	1.68837e-06	0.999999	1.68837e-06	0.999999
PhCH2CCH+H	6.87162e-07	0.999999	6.87162e-07	0.999999
PAH7+H	2.87159e-07	1.000000	2.87159e-07	1.000000
rad37	8.81612e-08	1.000000	8.81612e-08	1.000000
rad39	6.98840e-08	1.000000	6.98840e-08	1.000000
rad30	3.40959e-08	1.000000	3.40959e-08	1.000000
rad6	1.44275e-08	1.000000	1.44275e-08	1.000000
PAH9+H	5.63720e-09	1.000000	5.63720e-09	1.000000
PhcycC3H3_A+H	4.88896e-09	1.000000	4.88896e-09	1.000000
rad38	3.06174e-09	1.000000	3.06174e-09	1.000000
PAH10+CH3	1.94075e-09	1.000000	1.94075e-09	1.000000
PAH3+H	5.34017e-10	1.000000	5.34017e-10	1.000000
PhcycC3H3_B+H	4.15161e-10	1.000000	4.15161e-10	1.000000
rad60syn	3.78774e-10	1.000000	3.78774e-10	1.000000
rad9	2.44746e-10	1.000000	2.44746e-10	1.000000
rad46	2.29822e-10	1.000000	2.29822e-10	1.000000
Phenyl+cycC3H4	2.22328e-10	1.000000	0.000000	1.000000
rad60anti	2.01661e-10	1.000000	2.01661e-10	1.000000
rad59	8.48583e-11	1.000000	8.48583e-11	1.000000
rad54	6.33663e-11	1.000000	6.33663e-11	1.000000
rad43	3.46751e-11	1.000000	3.46751e-11	1.000000
rad2	1.67667e-11	1.000000	1.67667e-11	1.000000
rad28	1.59833e-11	1.000000	1.59833e-11	1.000000
rad50	8.24072e-12	1.000000	8.24072e-12	1.000000
rad62	7.25998e-12	1.000000	7.25998e-12	1.000000
rad70	3.82793e-12	1.000000	3.82793e-12	1.000000
PAH1+H	3.59249e-12	1.000000	3.59249e-12	1.000000
rad26	2.18876e-12	1.000000	2.18876e-12	1.000000
rad7	2.00717e-12	1.000000	2.00717e-12	1.000000

rad55	1.58725e-12	1.000000	1.58725e-12	1.000000
rad1	1.56037e-12	1.000000	1.56037e-12	1.000000
rad10	1.06938e-12	1.000000	1.06938e-12	1.000000
rad11	5.65569e-13	1.000000	5.65569e-13	1.000000
rad19anti	4.88087e-13	1.000000	4.88087e-13	1.000000
rad34	2.42649e-13	1.000000	2.42649e-13	1.000000
rad52	1.71785e-13	1.000000	1.71785e-13	1.000000
rad58	1.69132e-13	1.000000	1.69132e-13	1.000000
rad3	1.65758e-13	1.000000	1.65758e-13	1.000000
rad15	1.53247e-13	1.000000	1.53247e-13	1.000000
rad51	1.42355e-13	1.000000	1.42355e-13	1.000000
rad23	1.41997e-13	1.000000	1.41997e-13	1.000000
rad4	8.72942e-14	1.000000	8.72942e-14	1.000000
rad41	6.83317e-14	1.000000	6.83317e-14	1.000000
rad42	2.71122e-14	1.000000	2.71122e-14	1.000000
rad13	8.81122e-15	1.000000	8.81122e-15	1.000000
rad53	6.85399e-15	1.000000	6.85399e-15	1.000000
rad45	5.31431e-15	1.000000	5.31431e-15	1.000000
rad65	4.37676e-15	1.000000	4.37676e-15	1.000000
rad61	3.43214e-15	1.000000	3.43214e-15	1.000000
rad64	3.04699e-15	1.000000	3.04699e-15	1.000000
rad56	5.30076e-16	1.000000	5.30076e-16	1.000000
rad36	2.03619e-16	1.000000	2.03619e-16	1.000000
rad22	1.28323e-16	1.000000	1.28323e-16	1.000000
rad68syn	7.47485e-17	1.000000	7.47485e-17	1.000000
rad68anti	5.24285e-17	1.000000	5.24285e-17	1.000000
rad33	2.18044e-17	1.000000	2.18044e-17	1.000000
rad27	1.61503e-17	1.000000	1.61503e-17	1.000000
rad14	1.58172e-17	1.000000	1.58172e-17	1.000000
rad25	7.89703e-18	1.000000	7.89703e-18	1.000000
rad40syn	6.39581e-18	1.000000	6.39581e-18	1.000000
PAH8+H	5.95103e-18	1.000000	5.95103e-18	1.000000
rad40anti	4.74794e-18	1.000000	4.74794e-18	1.000000
rad12	4.14102e-18	1.000000	4.14102e-18	1.000000
rad19syn	2.04434e-18	1.000000	2.04434e-18	1.000000
rad31	5.82000e-19	1.000000	5.82000e-19	1.000000
rad73	4.88454e-19	1.000000	4.88454e-19	1.000000
rad71	5.04010e-20	1.000000	5.04010e-20	1.000000
rad20	3.90625e-20	1.000000	3.90625e-20	1.000000
rad21	3.56045e-20	1.000000	3.56045e-20	1.000000
rad18	8.68450e-21	1.000000	8.68450e-21	1.000000
rad5	4.04984e-21	1.000000	4.04984e-21	1.000000
rad24	8.06259e-23	1.000000	8.06259e-23	1.000000
rad47	7.59020e-23	1.000000	7.59020e-23	1.000000
rad72	1.07788e-24	1.000000	1.07788e-24	1.000000
rad8	7.07654e-38	1.000000	7.07654e-38	1.000000

1.00000000 Pa, 500.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.52837e-13 (1.00)	2.52837e-13 (1.00)
Formation of rad19	2.47941e-13 (0.981)	2.47941e-13 (0.981)
H-abstraction to cyc2enyl	4.69058e-15 (0.0186)	4.69058e-15 (0.0186)
H-abstraction to cyc1enyl	2.05381e-16 (0.000812)	2.05381e-16 (0.000812)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.978429	0.978429	0.978429	0.978429
Benzene+cycloprop-2-enylidene	0.0185518	0.996980	0.0185518	0.996980
PhCHCCH2+H	0.00202456	0.999005	0.00202456	0.999005
Benzene+cycloprop-1-enylidene	0.000812306	0.999817	0.000812306	0.999817
C2H2+PhCH2	5.13038e-05	0.999868	5.13038e-05	0.999868
PhCCH+CH3	3.71043e-05	0.999906	3.71043e-05	0.999906
Ph+MeAc	3.63065e-05	0.999942	3.63065e-05	0.999942
PhCCCH3+H	2.84438e-05	0.999970	2.84438e-05	0.999970
Ph+Allene	1.09220e-05	0.999981	1.09220e-05	0.999981
rad67	1.05818e-05	0.999992	1.05818e-05	0.999992
rad35	4.10914e-06	0.999996	4.10914e-06	0.999996
PhCH2CCH+H	2.94803e-06	0.999999	2.94803e-06	0.999999
PAH7+H	8.49545e-07	1.000000	8.49545e-07	1.000000
rad37	2.86661e-07	1.000000	2.86661e-07	1.000000
rad39	2.01637e-07	1.000000	2.01637e-07	1.000000
rad30	8.94805e-08	1.000000	8.94805e-08	1.000000
PhcycC3H3_A+H	5.02876e-08	1.000000	5.02876e-08	1.000000
PAH9+H	2.06623e-08	1.000000	2.06623e-08	1.000000
PAH10+CH3	1.44080e-08	1.000000	1.44080e-08	1.000000
rad38	1.31745e-08	1.000000	1.31745e-08	1.000000
PhcycC3H3_B+H	7.81236e-09	1.000000	7.81236e-09	1.000000
rad9	6.19688e-09	1.000000	6.19688e-09	1.000000

Phenyl+cycC3H4	3.55660e-09	1.00000	0.00000	1.00000
PAH3+H	2.97665e-09	1.00000	2.97665e-09	1.00000
rad6	2.58945e-09	1.00000	2.58945e-09	1.00000
rad60syn	1.43172e-09	1.00000	1.43172e-09	1.00000
rad46	1.04796e-09	1.00000	1.04796e-09	1.00000
rad60anti	7.84323e-10	1.00000	7.84323e-10	1.00000
rad54	4.67674e-10	1.00000	4.67674e-10	1.00000
rad59	4.42114e-10	1.00000	4.42114e-10	1.00000
rad43	1.96310e-10	1.00000	1.96310e-10	1.00000
rad19anti	6.74275e-11	1.00000	6.74275e-11	1.00000
rad50	6.65595e-11	1.00000	6.65595e-11	1.00000
PAH1+H	4.68534e-11	1.00000	4.68534e-11	1.00000
rad62	3.77355e-11	1.00000	3.77355e-11	1.00000
rad70	3.75969e-11	1.00000	3.75969e-11	1.00000
rad2	2.79956e-11	1.00000	2.79956e-11	1.00000
rad55	1.50716e-11	1.00000	1.50716e-11	1.00000
rad23	1.29632e-11	1.00000	1.29632e-11	1.00000
rad15	4.05482e-12	1.00000	4.05482e-12	1.00000
rad1	3.34346e-12	1.00000	3.34346e-12	1.00000
rad34	3.21790e-12	1.00000	3.21790e-12	1.00000
rad28	2.76252e-12	1.00000	2.76252e-12	1.00000
rad51	2.08614e-12	1.00000	2.08614e-12	1.00000
rad58	2.05166e-12	1.00000	2.05166e-12	1.00000
rad26	1.97508e-12	1.00000	1.97508e-12	1.00000
rad52	1.88679e-12	1.00000	1.88679e-12	1.00000
rad10	1.51108e-12	1.00000	1.51108e-12	1.00000
rad45	1.38034e-12	1.00000	1.38034e-12	1.00000
rad41	8.64397e-13	1.00000	8.64397e-13	1.00000
rad7	3.67664e-13	1.00000	3.67664e-13	1.00000
rad3	3.01051e-13	1.00000	3.01051e-13	1.00000
rad42	2.74758e-13	1.00000	2.74758e-13	1.00000
rad53	1.70413e-13	1.00000	1.70413e-13	1.00000
rad4	1.69599e-13	1.00000	1.69599e-13	1.00000
rad61	1.40847e-13	1.00000	1.40847e-13	1.00000
rad11	1.05958e-13	1.00000	1.05958e-13	1.00000
rad64	7.72656e-14	1.00000	7.72656e-14	1.00000
rad65	6.65461e-14	1.00000	6.65461e-14	1.00000
rad36	6.56305e-14	1.00000	6.56305e-14	1.00000
rad56	2.62263e-14	1.00000	2.62263e-14	1.00000
rad19syn	1.45990e-14	1.00000	1.45990e-14	1.00000
rad22	6.80797e-15	1.00000	6.80797e-15	1.00000
rad68syn	3.88698e-15	1.00000	3.88698e-15	1.00000
rad68anti	2.67702e-15	1.00000	2.67702e-15	1.00000
rad13	1.87209e-15	1.00000	1.87209e-15	1.00000
PAH8+H	8.57176e-16	1.00000	8.57176e-16	1.00000
rad40syn	5.58178e-16	1.00000	5.58178e-16	1.00000
rad40anti	4.08435e-16	1.00000	4.08435e-16	1.00000
rad12	2.71181e-16	1.00000	2.71181e-16	1.00000
rad31	1.79130e-16	1.00000	1.79130e-16	1.00000
rad73	7.89325e-17	1.00000	7.89325e-17	1.00000
rad27	2.71330e-17	1.00000	2.71330e-17	1.00000
rad71	2.21257e-17	1.00000	2.21257e-17	1.00000
rad14	2.12700e-17	1.00000	2.12700e-17	1.00000
rad33	5.50667e-18	1.00000	5.50667e-18	1.00000
rad25	1.76272e-18	1.00000	1.76272e-18	1.00000
rad72	1.05610e-19	1.00000	1.05610e-19	1.00000
rad21	3.92779e-20	1.00000	3.92779e-20	1.00000
rad20	3.76632e-20	1.00000	3.76632e-20	1.00000
rad24	2.04213e-20	1.00000	2.04213e-20	1.00000
rad47	5.02202e-21	1.00000	5.02202e-21	1.00000
rad18	4.75214e-21	1.00000	4.75214e-21	1.00000
rad5	2.66932e-21	1.00000	2.66932e-21	1.00000
rad8	1.63020e-33	1.00000	1.63020e-33	1.00000

1.00000000 Pa, 600.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.35570e-13 (1.00)	4.35570e-13 (1.00)
Formation of rad19	4.18892e-13 (0.962)	4.18892e-13 (0.962)
H-abstraction to cyc2enyl	1.54751e-14 (0.0355)	1.54751e-14 (0.0355)
H-abstraction to cyclenyl	1.20343e-15 (0.00276)	1.20343e-15 (0.00276)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.957276	0.957276	0.957276	0.957276
Benzene+cycloprop-2-enylidene	0.0355285	0.992805	0.0355285	0.992805
PhCHCH2+H	0.00402202	0.996827	0.00402202	0.996827
Benzene+cycloprop-1-enylidene	0.00276289	0.999590	0.00276289	0.999590
C2H2+PhCH2	0.000111945	0.999701	0.000111945	0.999701

Ph+MeAc	8.57524e-05	0.999787	8.57524e-05	0.999787
PhCCH+CH3	6.75044e-05	0.999855	6.75044e-05	0.999855
PhCCCH3+H	5.90442e-05	0.999914	5.90442e-05	0.999914
Ph+Allene	3.56485e-05	0.999949	3.56485e-05	0.999949
rad67	2.54066e-05	0.999975	2.54066e-05	0.999975
PhCH2CCH+H	1.09173e-05	0.999986	1.09173e-05	0.999986
rad35	9.63440e-06	0.999995	9.63440e-06	0.999995
PAH7+H	2.26592e-06	0.999998	2.26592e-06	0.999998
rad37	8.65085e-07	0.999998	8.65085e-07	0.999998
rad39	5.19983e-07	0.999999	5.19983e-07	0.999999
PhcycC3H3_A+H	3.56705e-07	0.999999	3.56705e-07	0.999999
rad30	2.27475e-07	1.000000	2.27475e-07	1.000000
PAH10+CH3	8.51440e-08	1.000000	8.51440e-08	1.000000
PhcycC3H3_B+H	8.45535e-08	1.000000	8.45535e-08	1.000000
PAH9+H	7.13304e-08	1.000000	7.13304e-08	1.000000
rad38	5.21525e-08	1.000000	5.21525e-08	1.000000
Phenyl+cycC3H4	3.58024e-08	1.000000	0.000000	1.000000
rad9	3.19426e-08	1.000000	3.19426e-08	1.000000
PAH3+H	1.45770e-08	1.000000	1.45770e-08	1.000000
rad60syn	5.04118e-09	1.000000	5.04118e-09	1.000000
rad46	4.38009e-09	1.000000	4.38009e-09	1.000000
rad60anti	2.82971e-09	1.000000	2.82971e-09	1.000000
rad54	2.62975e-09	1.000000	2.62975e-09	1.000000
rad59	2.03221e-09	1.000000	2.03221e-09	1.000000
rad6	1.08210e-09	1.000000	1.08210e-09	1.000000
rad43	9.14749e-10	1.000000	9.14749e-10	1.000000
rad19anti	4.95115e-10	1.000000	4.95115e-10	1.000000
rad50	4.51480e-10	1.000000	4.51480e-10	1.000000
PAH1+H	4.06268e-10	1.000000	4.06269e-10	1.000000
rad70	2.63913e-10	1.000000	2.63913e-10	1.000000
rad23	2.25241e-10	1.000000	2.25241e-10	1.000000
rad2	1.79760e-10	1.000000	1.79760e-10	1.000000
rad62	1.58037e-10	1.000000	1.58037e-10	1.000000
rad55	1.01574e-10	1.000000	1.01574e-10	1.000000
rad45	3.40905e-11	1.000000	3.40905e-11	1.000000
rad34	2.81568e-11	1.000000	2.81568e-11	1.000000
rad1	2.69730e-11	1.000000	2.69730e-11	1.000000
rad51	2.26894e-11	1.000000	2.26894e-11	1.000000
rad15	2.03001e-11	1.000000	2.03001e-11	1.000000
rad58	1.80086e-11	1.000000	1.80086e-11	1.000000
rad52	1.62848e-11	1.000000	1.62848e-11	1.000000
rad41	7.28804e-12	1.000000	7.28804e-12	1.000000
rad10	5.87955e-12	1.000000	5.87955e-12	1.000000
rad26	5.79245e-12	1.000000	5.79245e-12	1.000000
rad61	2.71271e-12	1.000000	2.71271e-12	1.000000
rad36	2.51907e-12	1.000000	2.51907e-12	1.000000
rad53	2.26909e-12	1.000000	2.26909e-12	1.000000
rad3	2.16936e-12	1.000000	2.16937e-12	1.000000
rad42	1.88231e-12	1.000000	1.88231e-12	1.000000
rad19syn	1.52297e-12	1.000000	1.52297e-12	1.000000
rad4	1.35786e-12	1.000000	1.35786e-12	1.000000
rad64	9.97744e-13	1.000000	9.97744e-13	1.000000
rad28	8.92104e-13	1.000000	8.92104e-13	1.000000
rad65	7.30007e-13	1.000000	7.30007e-13	1.000000
rad56	5.50897e-13	1.000000	5.50897e-13	1.000000
rad7	1.62649e-13	1.000000	1.62649e-13	1.000000
rad22	1.06264e-13	1.000000	1.06264e-13	1.000000
rad68syn	8.65485e-14	1.000000	8.65485e-14	1.000000
rad68anti	5.88428e-14	1.000000	5.88428e-14	1.000000
rad11	4.91887e-14	1.000000	4.91887e-14	1.000000
PAH8+H	4.15853e-14	1.000000	4.15853e-14	1.000000
rad12	2.12362e-14	1.000000	2.12362e-14	1.000000
rad40syn	1.80930e-14	1.000000	1.80930e-14	1.000000
rad40anti	1.32476e-14	1.000000	1.32476e-14	1.000000
rad73	1.17313e-14	1.000000	1.17313e-14	1.000000
rad71	1.17253e-14	1.000000	1.17253e-14	1.000000
rad31	3.25379e-15	1.000000	3.25379e-15	1.000000
rad13	1.04147e-15	1.000000	1.04147e-15	1.000000
rad72	3.08028e-16	1.000000	3.08028e-16	1.000000
rad27	1.34945e-16	1.000000	1.34945e-16	1.000000
rad14	1.01264e-16	1.000000	1.01264e-16	1.000000
rad33	4.22089e-18	1.000000	4.22089e-18	1.000000
rad25	1.04882e-18	1.000000	1.04882e-18	1.000000
rad24	9.22611e-19	1.000000	9.22611e-19	1.000000
rad21	2.59031e-19	1.000000	2.59031e-19	1.000000
rad20	2.26948e-19	1.000000	2.26948e-19	1.000000
rad47	1.30834e-19	1.000000	1.30834e-19	1.000000
rad18	2.88283e-20	1.000000	2.88283e-20	1.000000
rad5	6.05255e-21	1.000000	6.05255e-21	1.000000
rad8	2.45492e-28	1.000000	2.45492e-28	1.000000

1.00000000 Pa, 700.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.91694e-13 (1.00)	6.91694e-13 (1.00)
Formation of rad19	6.47922e-13 (0.937)	6.47922e-13 (0.937)
H-abstraction to cyc2enyl	3.91858e-14 (0.0567)	3.91858e-14 (0.0567)
H-abstraction to cyclenyl	4.58543e-15 (0.00663)	4.58542e-15 (0.00663)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.928259	0.928259	0.928259	0.928259
Benzene+cycloprop-2-enylidene	0.0566520	0.984911	0.0566520	0.984911
PhCHCCH2+H	0.00760011	0.992511	0.00760012	0.992511
Benzene+cycloprop-1-enylidene	0.00662927	0.999141	0.00662927	0.999141
C2H2+PhCH2	0.000223417	0.999364	0.000223417	0.999364
Ph+MeAc	0.000184815	0.999549	0.000184815	0.999549
PhCCH+CH3	0.000114489	0.999663	0.000114489	0.999663
PhCCCH3+H	0.000114199	0.999778	0.000114199	0.999778
Ph+Allene	9.86777e-05	0.999876	9.86777e-05	0.999876
rad67	5.61792e-05	0.999932	5.61792e-05	0.999932
PhCH2CCH+H	3.37516e-05	0.999966	3.37516e-05	0.999966
rad35	2.09265e-05	0.999987	2.09265e-05	0.999987
PAH7+H	5.25112e-06	0.999992	5.25112e-06	0.999992
rad37	2.31871e-06	0.999995	2.31871e-06	0.999995
PhcycC3H3_A+H	1.84815e-06	0.999996	1.84816e-06	0.999996
rad39	1.15824e-06	0.999998	1.15824e-06	0.999998
PhcycC3H3_B+H	5.99448e-07	0.999998	5.99448e-07	0.999998
rad30	5.35370e-07	0.999999	5.35370e-07	0.999999
PAH10+CH3	3.94051e-07	0.999999	3.94051e-07	0.999999
rad9	2.56261e-07	0.999999	2.56261e-07	0.999999
Phenyl+cycC3H4	2.47276e-07	1.000000	0.000000	0.999999
PAH9+H	2.20826e-07	1.000000	2.20826e-07	1.000000
rad38	1.79539e-07	1.000000	1.79539e-07	1.000000
PAH3+H	5.99459e-08	1.000000	5.99459e-08	1.000000
rad46	1.59750e-08	1.000000	1.59750e-08	1.000000
rad60syn	1.57297e-08	1.000000	1.57297e-08	1.000000
rad54	1.12029e-08	1.000000	1.12029e-08	1.000000
rad60anti	9.01083e-09	1.000000	9.01083e-09	1.000000
rad59	7.88793e-09	1.000000	7.88793e-09	1.000000
rad43	3.46249e-09	1.000000	3.46249e-09	1.000000
rad50	2.47237e-09	1.000000	2.47237e-09	1.000000
PAH1+H	2.46454e-09	1.000000	2.46454e-09	1.000000
rad70	1.35092e-09	1.000000	1.35092e-09	1.000000
rad6	1.05980e-09	1.000000	1.05980e-09	1.000000
rad23	7.04943e-10	1.000000	7.04943e-10	1.000000
rad19anti	6.96574e-10	1.000000	6.96574e-10	1.000000
rad62	5.31462e-10	1.000000	5.31462e-10	1.000000
rad55	4.95602e-10	1.000000	4.95602e-10	1.000000
rad2	4.10303e-10	1.000000	4.10304e-10	1.000000
rad51	1.79836e-10	1.000000	1.79837e-10	1.000000
rad34	1.70803e-10	1.000000	1.70803e-10	1.000000
rad58	1.15835e-10	1.000000	1.15835e-10	1.000000
rad15	1.14613e-10	1.000000	1.14613e-10	1.000000
rad45	1.07987e-10	1.000000	1.07987e-10	1.000000
rad52	1.07652e-10	1.000000	1.07652e-10	1.000000
rad1	8.01022e-11	1.000000	8.01023e-11	1.000000
rad41	4.34775e-11	1.000000	4.34775e-11	1.000000
rad61	2.96183e-11	1.000000	2.96183e-11	1.000000
rad53	1.84409e-11	1.000000	1.84409e-11	1.000000
rad12	1.22295e-11	1.000000	1.22295e-11	1.000000
rad36	1.11187e-11	1.000000	1.11187e-11	1.000000
rad10	9.63041e-12	1.000000	9.63041e-12	1.000000
rad42	9.23888e-12	1.000000	9.23889e-12	1.000000
rad19syn	8.87889e-12	1.000000	8.87889e-12	1.000000
rad26	8.62090e-12	1.000000	8.62090e-12	1.000000
rad64	7.71097e-12	1.000000	7.71097e-12	1.000000
rad56	6.17559e-12	1.000000	6.17560e-12	1.000000
rad65	5.75646e-12	1.000000	5.75646e-12	1.000000
rad3	4.63324e-12	1.000000	4.63324e-12	1.000000
rad4	3.34051e-12	1.000000	3.34051e-12	1.000000
rad68syn	1.02997e-12	1.000000	1.02997e-12	1.000000
PAH8+H	7.86559e-13	1.000000	7.86559e-13	1.000000
rad28	7.14759e-13	1.000000	7.14759e-13	1.000000
rad68anti	6.93962e-13	1.000000	6.93962e-13	1.000000
rad22	3.34587e-13	1.000000	3.34587e-13	1.000000
rad40syn	2.77296e-13	1.000000	2.77296e-13	1.000000
rad71	2.55903e-13	1.000000	2.55904e-13	1.000000
rad73	2.42420e-13	1.000000	2.42420e-13	1.000000

rad40anti	2.03925e-13	1.00000	2.03925e-13	1.000000
rad7	1.79157e-13	1.00000	1.79157e-13	1.000000
rad11	5.90478e-14	1.00000	5.90478e-14	1.000000
rad31	9.71640e-15	1.00000	9.71640e-15	1.000000
rad72	7.22198e-15	1.00000	7.22199e-15	1.000000
rad13	1.66163e-15	1.00000	1.66163e-15	1.000000
rad27	3.18236e-16	1.00000	3.18236e-16	1.000000
rad14	2.18022e-16	1.00000	2.18022e-16	1.000000
rad24	2.86680e-17	1.00000	2.86680e-17	1.000000
rad33	1.29470e-17	1.00000	1.29470e-17	1.000000
rad21	6.85919e-18	1.00000	6.85919e-18	1.000000
rad20	3.22666e-18	1.00000	3.22666e-18	1.000000
rad25	1.86775e-18	1.00000	1.86775e-18	1.000000
rad47	1.32297e-18	1.00000	1.32297e-18	1.000000
rad18	1.76179e-19	1.00000	1.76179e-19	1.000000
rad5	1.10269e-20	1.00000	1.10269e-20	1.000000
rad8	5.41769e-23	1.00000	5.41769e-23	1.000000

1.00000000 Pa, 800.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.03759e-12 (1.00)	1.03758e-12 (1.00)
Formation of rad19	9.41065e-13 (0.907)	9.41063e-13 (0.907)
H-abstraction to cyc2enyl	8.32953e-14 (0.0803)	8.32953e-14 (0.0803)
H-abstraction to cyclenyl	1.32261e-14 (0.0127)	1.32261e-14 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.891842	0.891842	0.891843	0.891843
Benzene+cycloprop-2-enylidene	0.0802780	0.972120	0.0802781	0.972121
PhCHCCH2+H	0.0134678	0.985588	0.0134678	0.985589
Benzene+cycloprop-1-enylidene	0.0127470	0.998335	0.0127470	0.998336
C2H2+PhCH2	0.000407275	0.998742	0.000407276	0.998743
Ph+MeAc	0.000361325	0.999103	0.000361325	0.999104
Ph+Allene	0.000232499	0.999336	0.000232499	0.999337
PhCCCH3+H	0.000204052	0.999540	0.000204053	0.999541
PhCCH+CH3	0.000180599	0.999721	0.000180599	0.999722
rad67	0.000113240	0.999834	0.000113240	0.999835
PhCH2CCH+H	8.78776e-05	0.999922	8.78778e-05	0.999923
rad35	4.16367e-05	0.999963	4.16367e-05	0.999964
PAH7+H	1.05847e-05	0.999974	1.05847e-05	0.999975
PhcycC3H3_A+H	7.41613e-06	0.999981	7.41613e-06	0.999982
rad37	5.47112e-06	0.999987	5.47112e-06	0.999988
PhcycC3H3_B+H	3.06510e-06	0.999990	3.06510e-06	0.999991
rad9	2.34971e-06	0.999992	2.34971e-06	0.999993
rad39	2.23509e-06	0.999995	2.23510e-06	0.999995
PAH10+CH3	1.45710e-06	0.999996	1.45710e-06	0.999997
Phenyl+cycC3H4	1.26414e-06	0.999997	0.00000	0.999997
rad30	1.15015e-06	0.999998	1.15016e-06	0.999998
PAH9+H	6.07521e-07	0.999999	6.07522e-07	0.999999
rad38	5.32255e-07	1.000000	5.32256e-07	0.999999
PAH3+H	2.07025e-07	1.000000	2.07025e-07	0.999999
rad46	5.05527e-08	1.000000	5.05528e-08	0.999999
rad60syn	4.30690e-08	1.000000	4.30690e-08	0.999999
rad54	3.73174e-08	1.000000	3.73174e-08	1.000000
rad59	2.58532e-08	1.000000	2.58533e-08	1.000000
rad60anti	2.50962e-08	1.000000	2.50962e-08	1.000000
PAH1+H	1.11525e-08	1.000000	1.11525e-08	1.000000
rad50	1.09754e-08	1.000000	1.09754e-08	1.000000
rad43	1.08442e-08	1.000000	1.08442e-08	1.000000
rad70	5.29102e-09	1.000000	5.29102e-09	1.000000
rad55	1.83523e-09	1.000000	1.83523e-09	1.000000
rad62	1.47123e-09	1.000000	1.47123e-09	1.000000
rad51	1.05332e-09	1.000000	1.05333e-09	1.000000
rad23	9.54265e-10	1.000000	9.54265e-10	1.000000
rad6	8.67686e-10	1.000000	8.67687e-10	1.000000
rad34	7.66773e-10	1.000000	7.66774e-10	1.000000
rad12	6.69868e-10	1.000000	6.69869e-10	1.000000
rad15	6.65002e-10	1.000000	6.65003e-10	1.000000
rad19anti	6.03179e-10	1.000000	6.03180e-10	1.000000
rad58	5.69216e-10	1.000000	5.69217e-10	1.000000
rad52	5.51754e-10	1.000000	5.51755e-10	1.000000
rad2	4.24570e-10	1.000000	4.24571e-10	1.000000
rad61	2.11333e-10	1.000000	2.11334e-10	1.000000
rad41	1.95382e-10	1.000000	1.95382e-10	1.000000
rad45	1.76559e-10	1.000000	1.76559e-10	1.000000
rad53	1.01993e-10	1.000000	1.01993e-10	1.000000
rad1	1.00710e-10	1.000000	1.00710e-10	1.000000
rad56	4.35657e-11	1.000000	4.35658e-11	1.000000

rad64	4.03234e-11	1.000000	4.03235e-11	1.000000
rad42	3.45615e-11	1.000000	3.45615e-11	1.000000
rad65	3.34821e-11	1.000000	3.34821e-11	1.000000
rad36	1.88781e-11	1.000000	1.88780e-11	1.000000
rad19syn	1.44428e-11	1.000000	1.44428e-11	1.000000
rad10	9.74336e-12	1.000000	9.74336e-12	1.000000
PAH8+H	8.49330e-12	1.000000	8.49332e-12	1.000000
rad68syn	7.77297e-12	1.000000	7.77297e-12	1.000000
rad26	7.52314e-12	1.000000	7.52315e-12	1.000000
rad68anti	5.20085e-12	1.000000	5.20085e-12	1.000000
rad3	4.44062e-12	1.000000	4.44063e-12	1.000000
rad4	3.42177e-12	1.000000	3.42177e-12	1.000000
rad40syn	2.55399e-12	1.000000	2.55399e-12	1.000000
rad40anti	1.89233e-12	1.000000	1.89233e-12	1.000000
rad73	1.79331e-12	1.000000	1.79332e-12	1.000000
rad71	1.53137e-12	1.000000	1.53137e-12	1.000000
rad28	5.73430e-13	1.000000	5.73429e-13	1.000000
rad22	4.64950e-13	1.000000	4.64951e-13	1.000000
rad7	1.82346e-13	1.000000	1.82345e-13	1.000000
rad11	6.93324e-14	1.000000	6.93325e-14	1.000000
rad72	3.17655e-14	1.000000	3.17655e-14	1.000000
rad31	1.51065e-14	1.000000	1.51066e-14	1.000000
rad24	4.07634e-15	1.000000	4.07634e-15	1.000000
rad13	3.09143e-15	1.000000	3.09144e-15	1.000000
rad21	1.44906e-15	1.000000	1.44906e-15	1.000000
rad27	5.17107e-16	1.000000	5.17108e-16	1.000000
rad20	3.21683e-16	1.000000	3.21683e-16	1.000000
rad14	2.98214e-16	1.000000	2.98214e-16	1.000000
rad33	2.85388e-16	1.000000	2.85389e-16	1.000000
rad47	8.83359e-18	1.000000	8.83360e-18	1.000000
rad25	7.46240e-18	1.000000	7.46241e-18	1.000000
rad18	4.28321e-18	1.000000	4.28322e-18	1.000000
rad8	2.41809e-18	1.000000	2.41809e-18	1.000000
rad5	1.56139e-20	1.000000	1.56139e-20	1.000000

1.00000000 Pa, 900.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.49199e-12 (1.00)	1.49199e-12 (1.00)
Formation of rad19	1.30395e-12 (0.874)	1.30394e-12 (0.874)
H-abstraction to cyc2enyl	1.56554e-13 (0.105)	1.56554e-13 (0.105)
H-abstraction to cyc1enyl	3.14892e-14 (0.0211)	3.14890e-14 (0.0211)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.848675	0.848675	0.848680	0.848680
Benzene+cycloprop-2-enylidene	0.104929	0.953605	0.104930	0.953610
PhCHCCH2+H	0.0223082	0.975913	0.0223084	0.975918
Benzene+cycloprop-1-enylidene	0.0211054	0.997018	0.0211054	0.997024
C2H2+PhCH2	0.000684338	0.997703	0.000684341	0.997708
Ph+MeAc	0.000643907	0.998347	0.000643911	0.998352
Ph+Allene	0.000474680	0.998821	0.000474682	0.998827
PhCCCH3+H	0.000337351	0.999159	0.000337353	0.999164
PhCCH+CH3	0.000266946	0.999426	0.000266947	0.999431
rad67	0.000208444	0.999634	0.000208445	0.999639
PhCH2CCH+H	0.000196888	0.999831	0.000196888	0.999836
rad35	7.59421e-05	0.999907	7.59425e-05	0.999912
PhcycC3H3_A+H	2.42300e-05	0.999931	2.42301e-05	0.999936
PAH7+H	1.88498e-05	0.999950	1.88498e-05	0.999955
PhcycC3H3_B+H	1.21757e-05	0.999962	1.21758e-05	0.999967
rad37	1.14190e-05	0.999973	1.14190e-05	0.999979
rad9	6.69490e-06	0.999980	6.69493e-06	0.999986
Phenyl+cycC3H4	5.07996e-06	0.999985	0.000000	0.999986
PAH10+CH3	4.42487e-06	0.999990	4.42489e-06	0.999990
rad39	3.80086e-06	0.999993	3.80087e-06	0.999994
rad30	2.25445e-06	0.999996	2.25446e-06	0.999996
PAH9+H	1.49429e-06	0.999997	1.49430e-06	0.999998
rad38	1.36968e-06	0.999999	1.36969e-06	0.999999
PAH3+H	6.09642e-07	0.999999	6.09646e-07	1.000000
rad46	1.40337e-07	0.999999	1.40338e-07	1.000000
rad60syn	1.04068e-07	0.999999	1.04069e-07	1.000000
rad54	1.00912e-07	1.000000	1.00912e-07	1.000000
rad59	7.25935e-08	1.000000	7.25938e-08	1.000000
rad60anti	6.15197e-08	1.000000	6.15200e-08	1.000000
rad50	4.08461e-08	1.000000	4.08463e-08	1.000000
PAH1+H	3.98192e-08	1.000000	3.98194e-08	1.000000
rad43	2.87996e-08	1.000000	2.87998e-08	1.000000
rad70	1.66295e-08	1.000000	1.66296e-08	1.000000
rad55	5.40437e-09	1.000000	5.40440e-09	1.000000

rad51	4.99130e-09	1.000000	4.99133e-09	1.00000
rad12	4.06289e-09	1.000000	4.06291e-09	1.00000
rad62	3.45304e-09	1.000000	3.45305e-09	1.00000
rad34	2.70069e-09	1.000000	2.70071e-09	1.00000
rad52	2.31828e-09	1.000000	2.31830e-09	1.00000
rad58	2.23827e-09	1.000000	2.23828e-09	1.00000
rad15	1.59770e-09	1.000000	1.59770e-09	1.00000
rad61	1.09067e-09	1.000000	1.09068e-09	1.00000
rad23	9.55122e-10	1.000000	9.55130e-10	1.00000
rad41	6.97643e-10	1.000000	6.97646e-10	1.00000
rad6	5.31135e-10	1.000000	5.31137e-10	1.00000
rad19anti	4.57670e-10	1.000000	4.57673e-10	1.00000
rad53	4.16796e-10	1.000000	4.16798e-10	1.00000
rad2	3.23377e-10	1.000000	3.23378e-10	1.00000
rad56	2.16402e-10	1.000000	2.16403e-10	1.00000
rad45	2.16252e-10	1.000000	2.16254e-10	1.00000
rad65	1.56529e-10	1.000000	1.56530e-10	1.00000
rad64	1.56380e-10	1.000000	1.56381e-10	1.00000
rad42	1.03852e-10	1.000000	1.03853e-10	1.00000
rad1	8.54616e-11	1.000000	8.54621e-11	1.00000
PAH8+H	6.60261e-11	1.000000	6.60265e-11	1.00000
rad68syn	4.21651e-11	1.000000	4.21653e-11	1.00000
rad68anti	2.80409e-11	1.000000	2.80411e-11	1.00000
rad36	2.26624e-11	1.000000	2.26626e-11	1.00000
rad40syn	1.67661e-11	1.000000	1.67663e-11	1.00000
rad73	1.52322e-11	1.000000	1.52322e-11	1.00000
rad19syn	1.51735e-11	1.000000	1.51736e-11	1.00000
rad71	1.36307e-11	1.000000	1.36308e-11	1.00000
rad40anti	1.25854e-11	1.000000	1.25854e-11	1.00000
rad10	8.35403e-12	1.000000	8.35408e-12	1.00000
rad26	4.77145e-12	1.000000	4.77148e-12	1.00000
rad3	3.24495e-12	1.000000	3.24496e-12	1.00000
rad4	2.59775e-12	1.000000	2.59776e-12	1.00000
rad22	5.05795e-13	1.000000	5.05798e-13	1.00000
rad28	3.57351e-13	1.000000	3.57353e-13	1.00000
rad72	2.56836e-13	1.000000	2.56837e-13	1.00000
rad7	1.58772e-13	1.000000	1.58773e-13	1.00000
rad21	1.27468e-13	1.000000	1.27469e-13	1.00000
rad24	8.13735e-14	1.000000	8.13740e-14	1.00000
rad11	7.42725e-14	1.000000	7.42729e-14	1.00000
rad20	2.83664e-14	1.000000	2.83665e-14	1.00000
rad31	1.88506e-14	1.000000	1.88508e-14	1.00000
rad33	1.66177e-14	1.000000	1.66178e-14	1.00000
rad13	9.75983e-15	1.000000	9.75991e-15	1.00000
rad8	5.49695e-15	1.000000	5.49697e-15	1.00000
rad27	8.69528e-16	1.000000	8.69533e-16	1.00000
rad14	3.45603e-16	1.000000	3.45605e-16	1.00000
rad18	2.76918e-16	1.000000	2.76918e-16	1.00000
rad25	2.59776e-16	1.000000	2.59777e-16	1.00000
rad47	4.41840e-17	1.000000	4.41842e-17	1.00000
rad5	1.79286e-20	1.000000	1.79287e-20	1.00000

1.00000000 Pa, 1000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.07591e-12 (1.00)	2.07587e-12 (1.00)
Formation of rad19	1.74189e-12 (0.839)	1.74186e-12 (0.839)
H-abstraction to cyc2enyl	2.68753e-13 (0.129)	2.68753e-13 (0.129)
H-abstraction to cyclenyl	6.52627e-14 (0.0314)	6.52614e-14 (0.0314)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.799550	0.799550	0.799564	0.799564
Benzene+cycloprop-2-enylidene	0.129463	0.929013	0.129465	0.929030
PhCHCCH2+H	0.0345934	0.963607	0.0345940	0.963624
Benzene+cycloprop-1-enylidene	0.0314382	0.995045	0.0314381	0.995062
C2H2+PhCH2	0.00107083	0.996116	0.00107086	0.996133
Ph+MeAc	0.00105430	0.997170	0.00105432	0.997187
Ph+Allene	0.000856888	0.998027	0.000856902	0.998044
PhCCCH3+H	0.000518658	0.998546	0.000518667	0.998562
PhCH2CCH+H	0.000387909	0.998934	0.000387916	0.998950
PhCCH+CH3	0.000373584	0.999307	0.000373591	0.999324
rad67	0.000352453	0.999660	0.000352460	0.999676
rad35	0.000127614	0.999787	0.000127617	0.999804
PhcycC3H3_A+H	6.69274e-05	0.999854	6.69285e-05	0.999871
PhcycC3H3_B+H	3.94815e-05	0.999894	3.94823e-05	0.999910
PAH7+H	3.02248e-05	0.999924	3.02253e-05	0.999941
rad37	2.12783e-05	0.999945	2.12786e-05	0.999962
Phenyl+cycC3H4	1.68078e-05	0.999962	0.00000	0.999962

PAH10+CH3	1.12885e-05	0.999973	1.12887e-05	0.999973
rad9	7.16678e-06	0.999980	7.16691e-06	0.999980
rad39	5.81314e-06	0.999986	5.81324e-06	0.999986
rad30	4.04887e-06	0.999990	4.04894e-06	0.999990
PAH9+H	3.30574e-06	0.999994	3.30580e-06	0.999994
rad38	3.09217e-06	0.999997	3.09222e-06	0.999997
PAH3+H	1.54909e-06	0.999998	1.54911e-06	0.999998
rad46	3.44218e-07	0.999999	3.44224e-07	0.999999
rad54	2.28963e-07	0.999999	2.28968e-07	0.999999
rad60syn	2.23761e-07	0.999999	2.23764e-07	0.999999
rad59	1.76849e-07	0.999999	1.76852e-07	0.999999
rad60anti	1.33891e-07	0.999999	1.33893e-07	0.999999
rad50	1.27911e-07	0.999999	1.27914e-07	0.999999
PAH1+H	1.16017e-07	1.000000	1.16019e-07	1.000000
rad43	6.61896e-08	1.000000	6.61907e-08	1.000000
rad70	4.34191e-08	1.000000	4.34198e-08	1.000000
rad51	1.88586e-08	1.000000	1.88589e-08	1.000000
rad55	1.31473e-08	1.000000	1.31476e-08	1.000000
rad52	7.98004e-09	1.000000	7.98018e-09	1.000000
rad34	7.74683e-09	1.000000	7.74696e-09	1.000000
rad12	7.28919e-09	1.000000	7.28932e-09	1.000000
rad58	7.16239e-09	1.000000	7.16251e-09	1.000000
rad62	7.05175e-09	1.000000	7.05187e-09	1.000000
rad61	4.20456e-09	1.000000	4.20464e-09	1.000000
rad41	2.04093e-09	1.000000	2.04097e-09	1.000000
rad15	2.00232e-09	1.000000	2.00236e-09	1.000000
rad53	1.32450e-09	1.000000	1.32453e-09	1.000000
rad23	9.09289e-10	1.000000	9.09304e-10	1.000000
rad56	7.99440e-10	1.000000	7.99454e-10	1.000000
rad65	5.83426e-10	1.000000	5.83436e-10	1.000000
rad64	4.75782e-10	1.000000	4.75790e-10	1.000000
rad19anti	3.42148e-10	1.000000	3.42155e-10	1.000000
PAH8+H	3.33929e-10	1.000000	3.33934e-10	1.000000
rad6	3.23019e-10	1.000000	3.23024e-10	1.000000
rad42	2.60293e-10	1.000000	2.60298e-10	1.000000
rad2	2.42194e-10	1.000000	2.42199e-10	1.000000
rad45	2.36774e-10	1.000000	2.36778e-10	1.000000
rad68syn	1.68750e-10	1.000000	1.68753e-10	1.000000
rad68anti	1.11728e-10	1.000000	1.11730e-10	1.000000
rad73	8.42698e-11	1.000000	8.42713e-11	1.000000
rad71	7.67378e-11	1.000000	7.67392e-11	1.000000
rad40syn	7.67012e-11	1.000000	7.67025e-11	1.000000
rad1	6.72434e-11	1.000000	6.72445e-11	1.000000
rad40anti	5.81304e-11	1.000000	5.81314e-11	1.000000
rad36	2.41869e-11	1.000000	2.41874e-11	1.000000
rad19syn	1.42443e-11	1.000000	1.42446e-11	1.000000
rad10	8.12339e-12	1.000000	8.12354e-12	1.000000
rad26	3.09566e-12	1.000000	3.09571e-12	1.000000
rad3	2.33665e-12	1.000000	2.33669e-12	1.000000
rad21	2.14381e-12	1.000000	2.14385e-12	1.000000
rad4	1.89197e-12	1.000000	1.89201e-12	1.000000
rad72	1.28761e-12	1.000000	1.28764e-12	1.000000
rad22	7.53181e-13	1.000000	7.53194e-13	1.000000
rad8	6.29228e-13	1.000000	6.29239e-13	1.000000
rad20	5.37441e-13	1.000000	5.37451e-13	1.000000
rad24	3.61596e-13	1.000000	3.61603e-13	1.000000
rad13	2.40414e-13	1.000000	2.40418e-13	1.000000
rad33	2.31929e-13	1.000000	2.31933e-13	1.000000
rad28	2.26672e-13	1.000000	2.26676e-13	1.000000
rad7	1.61761e-13	1.000000	1.61764e-13	1.000000
rad11	1.15240e-13	1.000000	1.15242e-13	1.000000
rad31	2.18595e-14	1.000000	2.18599e-14	1.000000
rad25	7.81652e-15	1.000000	7.81665e-15	1.000000
rad27	6.42080e-15	1.000000	6.42091e-15	1.000000
rad18	4.73561e-15	1.000000	4.73569e-15	1.000000
rad14	7.66700e-16	1.000000	7.66713e-16	1.000000
rad47	1.70392e-16	1.000000	1.70395e-16	1.000000
rad5	2.63991e-20	1.000000	2.63995e-20	1.000000

1.00000000 Pa, 1100.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.81236e-12 (1.00)	2.81222e-12 (1.00)
Formation of rad19	2.25993e-12 (0.804)	2.25980e-12 (0.804)
H-abstraction to cyc2enyl	4.30538e-13 (0.153)	4.30538e-13 (0.153)
H-abstraction to cyclenyl	1.21896e-13 (0.0433)	1.21889e-13 (0.0433)

species	PYtrue	Cumul	PYeffective	Cumul
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Indene+H	0.745429	0.745429	0.745466	0.745466
Benzene+cycloprop-2-enylidene	0.153088	0.898516	0.153095	0.898562
PhCHCCH2+H	0.0504260	0.948942	0.0504285	0.948990
Benzene+cycloprop-1-enylidene	0.0433429	0.992285	0.0433425	0.992333
Ph+MeAc	0.00160053	0.993886	0.00160062	0.993933
C2H2+PhCH2	0.00157455	0.995460	0.00157463	0.995508
Ph+Allene	0.00139443	0.996855	0.00139450	0.996902
PhCCCH3+H	0.000746369	0.997601	0.000746406	0.997649
PhCH2CCH+H	0.000685842	0.998287	0.000685876	0.998335
rad67	0.000551773	0.998839	0.000551800	0.998886
PhCCH+CH3	0.000500078	0.999339	0.000500103	0.999387
rad35	0.000199000	0.999538	0.000199009	0.999586
PhcycC3H3_A+H	0.000161039	0.999699	0.000161047	0.999747
PhcycC3H3_B+H	0.000108628	0.999808	0.000108634	0.999855
Phenyl+cycC3H4	4.74535e-05	0.999855	0.000000	0.999855
PAH7+H	4.44458e-05	0.999899	4.44480e-05	0.999900
rad37	3.58165e-05	0.999935	3.58183e-05	0.999935
PAH10+CH3	2.48184e-05	0.999960	2.48196e-05	0.999960
rad39	8.15752e-06	0.999968	8.15792e-06	0.999968
rad30	6.70945e-06	0.999975	6.70979e-06	0.999975
PAH9+H	6.63912e-06	0.999982	6.63946e-06	0.999982
rad38	6.21600e-06	0.999988	6.21631e-06	0.999988
rad9	5.26550e-06	0.999993	5.26577e-06	0.999993
PAH3+H	3.45877e-06	0.999997	3.45895e-06	0.999997
rad46	7.55129e-07	0.999997	7.55167e-07	0.999997
rad54	4.49256e-07	0.999998	4.49278e-07	0.999998
rad60syn	4.33279e-07	0.999998	4.33301e-07	0.999998
rad59	3.80373e-07	0.999999	3.80392e-07	0.999999
rad50	3.44691e-07	0.999999	3.44709e-07	0.999999
PAH1+H	2.86048e-07	0.999999	2.86062e-07	0.999999
rad60anti	2.61950e-07	0.999999	2.61963e-07	1.000000
rad43	1.34399e-07	1.000000	1.34406e-07	1.000000
rad70	9.73452e-08	1.000000	9.73499e-08	1.000000
rad51	5.91088e-08	1.000000	5.91118e-08	1.000000
rad55	2.73452e-08	1.000000	2.73466e-08	1.000000
rad52	2.31980e-08	1.000000	2.31992e-08	1.000000
rad58	1.93099e-08	1.000000	1.93109e-08	1.000000
rad34	1.88037e-08	1.000000	1.88046e-08	1.000000
rad61	1.29312e-08	1.000000	1.29319e-08	1.000000
rad62	1.28272e-08	1.000000	1.28278e-08	1.000000
rad12	7.94263e-09	1.000000	7.94303e-09	1.000000
rad41	5.06590e-09	1.000000	5.06615e-09	1.000000
rad53	3.44744e-09	1.000000	3.44762e-09	1.000000
rad56	2.35178e-09	1.000000	2.35191e-09	1.000000
rad15	2.14298e-09	1.000000	2.14309e-09	1.000000
rad65	1.80511e-09	1.000000	1.80520e-09	1.000000
PAH8+H	1.27886e-09	1.000000	1.27893e-09	1.000000
rad64	1.19738e-09	1.000000	1.19744e-09	1.000000
rad23	8.42607e-10	1.000000	8.42647e-10	1.000000
rad42	5.62887e-10	1.000000	5.62915e-10	1.000000
rad68syn	5.36991e-10	1.000000	5.37018e-10	1.000000
rad73	3.54785e-10	1.000000	3.54802e-10	1.000000
rad68anti	3.54276e-10	1.000000	3.54294e-10	1.000000
rad71	3.27331e-10	1.000000	3.27347e-10	1.000000
rad40syn	2.71962e-10	1.000000	2.71975e-10	1.000000
rad19anti	2.56343e-10	1.000000	2.56356e-10	1.000000
rad45	2.40614e-10	1.000000	2.40625e-10	1.000000
rad6	2.28243e-10	1.000000	2.28254e-10	1.000000
rad40anti	2.07905e-10	1.000000	2.07916e-10	1.000000
rad2	1.83341e-10	1.000000	1.83350e-10	1.000000
rad1	5.13942e-11	1.000000	5.13967e-11	1.000000
rad36	2.42946e-11	1.000000	2.42957e-11	1.000000
rad19syn	1.28391e-11	1.000000	1.28398e-11	1.000000
rad21	9.70648e-12	1.000000	9.70695e-12	1.000000
rad10	8.80800e-12	1.000000	8.80849e-12	1.000000
rad8	7.66067e-12	1.000000	7.66106e-12	1.000000
rad72	4.64817e-12	1.000000	4.64840e-12	1.000000
rad13	3.23661e-12	1.000000	3.23677e-12	1.000000
rad20	2.60266e-12	1.000000	2.60279e-12	1.000000
rad26	2.24820e-12	1.000000	2.24831e-12	1.000000
rad3	1.66704e-12	1.000000	1.66712e-12	1.000000
rad22	1.50118e-12	1.000000	1.50125e-12	1.000000
rad4	1.35007e-12	1.000000	1.35014e-12	1.000000
rad11	9.69908e-13	1.000000	9.69956e-13	1.000000
rad33	8.69711e-13	1.000000	8.69752e-13	1.000000
rad24	7.72449e-13	1.000000	7.72488e-13	1.000000
rad7	2.44849e-13	1.000000	2.44861e-13	1.000000
rad28	1.65766e-13	1.000000	1.65774e-13	1.000000
rad25	7.94631e-14	1.000000	7.94672e-14	1.000000
rad27	4.84678e-14	1.000000	4.84701e-14	1.000000

rad18	2.84811e-14	1.000000	2.84824e-14	1.000000
rad31	2.41083e-14	1.000000	2.41095e-14	1.000000
rad14	4.21712e-15	1.000000	4.21733e-15	1.000000
rad47	5.32717e-16	1.000000	5.32743e-16	1.000000
rad5	7.09568e-20	1.000000	7.09603e-20	1.000000

1.00000000 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.72623e-12 (1.00)	3.72576e-12 (1.00)
Formation of rad19	2.86288e-12 (0.768)	2.86245e-12 (0.768)
H-abstraction to cyc2enyl	6.53266e-13 (0.175)	6.53266e-13 (0.175)
H-abstraction to cyclenyl	2.10085e-13 (0.0564)	2.10053e-13 (0.0564)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.687489	0.687489	0.687576	0.687576
Benzene+cycloprop-2-enylidene	0.175315	0.862804	0.175337	0.862913
PhCHCCH2+H	0.0694581	0.932262	0.0694669	0.932380
Benzene+cycloprop-1-enylidene	0.0563801	0.988642	0.0563786	0.988759
Ph+MeAc	0.00227314	0.990916	0.00227342	0.991032
C2H2+PhCH2	0.00219160	0.993107	0.00219188	0.993224
Ph+Allene	0.00208036	0.995187	0.00208062	0.995305
PhCH2CCH+H	0.00110729	0.996295	0.00110743	0.996412
PhCCCH3+H	0.00101213	0.997307	0.00101226	0.997424
rad67	0.000806482	0.998113	0.000806583	0.998231
PhCCH+CH3	0.000645815	0.998759	0.000645896	0.998877
PhcycC3H3_A+H	0.000345637	0.999105	0.000345681	0.999222
rad35	0.000290232	0.999395	0.000290268	0.999513
PhcycC3H3_B+H	0.000261317	0.999656	0.000261350	0.999774
Phenyl+cycC3H4	0.000117514	0.999774	0.000000	0.999774
PAH7+H	6.09248e-05	0.999835	6.09325e-05	0.999835
rad37	5.51116e-05	0.999890	5.51185e-05	0.999890
PAH10+CH3	4.81339e-05	0.999938	4.81400e-05	0.999938
PAH9+H	1.22375e-05	0.999950	1.22390e-05	0.999950
rad38	1.13026e-05	0.999962	1.13040e-05	0.999962
rad39	1.06999e-05	0.999972	1.07012e-05	0.999972
rad30	1.03420e-05	0.999983	1.03433e-05	0.999983
PAH3+H	6.92033e-06	0.999990	6.92120e-06	0.999990
rad9	3.52673e-06	0.999993	3.52717e-06	0.999993
rad46	1.50331e-06	0.999995	1.50350e-06	0.999995
rad50	8.22439e-07	0.999995	8.22548e-07	0.999996
rad54	7.81781e-07	0.999996	7.81875e-07	0.999996
rad60syn	7.65523e-07	0.999997	7.65619e-07	0.999997
rad59	7.35611e-07	0.999998	7.35703e-07	0.999998
PAH1+H	6.15955e-07	0.999998	6.16033e-07	0.999998
rad60anti	4.66977e-07	0.999999	4.67036e-07	0.999999
rad43	2.45694e-07	0.999999	2.45725e-07	0.999999
rad70	1.92760e-07	0.999999	1.92785e-07	0.999999
rad51	1.61315e-07	0.999999	1.61336e-07	1.000000
rad52	5.91168e-08	0.999999	5.91242e-08	1.000000
rad55	5.00200e-08	0.999999	5.00264e-08	1.000000
rad58	4.54144e-08	1.000000	4.54202e-08	1.000000
rad34	3.99088e-08	1.000000	3.99139e-08	1.000000
rad61	3.34279e-08	1.000000	3.34320e-08	1.000000
rad62	2.12049e-08	1.000000	2.12076e-08	1.000000
rad41	1.10049e-08	1.000000	1.10063e-08	1.000000
rad53	7.65856e-09	1.000000	7.65952e-09	1.000000
rad12	7.13856e-09	1.000000	7.13946e-09	1.000000
rad56	5.80313e-09	1.000000	5.80386e-09	1.000000
rad65	4.85768e-09	1.000000	4.85829e-09	1.000000
PAH8+H	4.10434e-09	1.000000	4.10486e-09	1.000000
rad64	2.60314e-09	1.000000	2.60347e-09	1.000000
rad15	2.29911e-09	1.000000	2.29941e-09	1.000000
rad68syn	1.44365e-09	1.000000	1.44384e-09	1.000000
rad71	1.34589e-09	1.000000	1.34606e-09	1.000000
rad73	1.34584e-09	1.000000	1.34601e-09	1.000000
rad42	1.08066e-09	1.000000	1.08080e-09	1.000000
rad68anti	9.49402e-10	1.000000	9.49522e-10	1.000000
rad40syn	8.09301e-10	1.000000	8.09403e-10	1.000000
rad23	7.75189e-10	1.000000	7.75283e-10	1.000000
rad40anti	6.24447e-10	1.000000	6.24526e-10	1.000000
rad45	2.33406e-10	1.000000	2.33435e-10	1.000000
rad6	2.17373e-10	1.000000	2.17401e-10	1.000000
rad19anti	1.93858e-10	1.000000	1.93882e-10	1.000000
rad2	1.37386e-10	1.000000	1.37404e-10	1.000000
rad1	3.86674e-11	1.000000	3.86723e-11	1.000000
rad8	2.53715e-11	1.000000	2.53747e-11	1.000000
rad36	2.35411e-11	1.000000	2.35441e-11	1.000000

rad72	2.17422e-11	1.000000	2.17449e-11	1.000000
rad21	2.07103e-11	1.000000	2.07129e-11	1.000000
rad13	1.27841e-11	1.000000	1.27857e-11	1.000000
rad11	1.25733e-11	1.000000	1.25749e-11	1.000000
rad19syn	1.13955e-11	1.000000	1.13970e-11	1.000000
rad10	9.88340e-12	1.000000	9.88467e-12	1.000000
rad20	5.44405e-12	1.000000	5.44473e-12	1.000000
rad22	2.57954e-12	1.000000	2.57986e-12	1.000000
rad26	1.81209e-12	1.000000	1.81232e-12	1.000000
rad33	1.49756e-12	1.000000	1.49775e-12	1.000000
rad7	1.32477e-12	1.000000	1.32494e-12	1.000000
rad24	1.18513e-12	1.000000	1.18528e-12	1.000000
rad3	1.17814e-12	1.000000	1.17829e-12	1.000000
rad4	9.51599e-13	1.000000	9.51720e-13	1.000000
rad25	2.93962e-13	1.000000	2.93999e-13	1.000000
rad18	2.35461e-13	1.000000	2.35491e-13	1.000000
rad27	1.53818e-13	1.000000	1.53838e-13	1.000000
rad28	1.52701e-13	1.000000	1.52720e-13	1.000000
rad31	2.55737e-14	1.000000	2.55769e-14	1.000000
rad14	1.38941e-14	1.000000	1.38959e-14	1.000000
rad47	1.44010e-15	1.000000	1.44029e-15	1.000000
rad5	6.18706e-19	1.000000	6.18784e-19	1.000000

1.00000000 Pa, 1300.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.84401e-12 (1.00)	4.84262e-12 (1.00)
Formation of rad19	3.55537e-12 (0.734)	3.55411e-12 (0.734)
H-abstraction to cyc2enyl	9.48893e-13 (0.196)	9.48893e-13 (0.196)
H-abstraction to cyc1enyl	3.39740e-13 (0.0701)	3.39620e-13 (0.0701)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.627152	0.627152	0.627331	0.627331
Benzene+cycloprop-2-enylidene	0.195890	0.823042	0.195946	0.823277
PhCHCCH2+H	0.0908836	0.913926	0.0909095	0.914186
Benzene+cycloprop-1-enylidene	0.0701362	0.984062	0.0701313	0.984318
Ph+MeAc	0.00304463	0.987106	0.00304550	0.987363
C2H2+PhCH2	0.00290394	0.990010	0.00290476	0.990268
Ph+Allene	0.00288493	0.992895	0.00288576	0.993154
PhCH2CCH+H	0.00165469	0.994550	0.00165516	0.994809
PhCCH3+H	0.00130160	0.995852	0.00130197	0.996111
rad67	0.00110893	0.996960	0.00110924	0.997220
PhCCH+CH3	0.000809573	0.997770	0.000809803	0.998030
PhcycC3H3_A+H	0.000673417	0.998443	0.000673609	0.998703
PhcycC3H3_B+H	0.000561423	0.999005	0.000561583	0.999265
rad35	0.000398760	0.999404	0.000398874	0.999664
Phenyl+cycC3H4	0.000260506	0.999664	0.000000	0.999664
PAH10+CH3	8.38205e-05	0.999748	8.38448e-05	0.999748
PAH7+H	7.89168e-05	0.999827	7.89400e-05	0.999827
rad37	7.83634e-05	0.999905	7.83859e-05	0.999905
PAH9+H	2.08567e-05	0.999926	2.08626e-05	0.999926
rad38	1.88209e-05	0.999945	1.88263e-05	0.999945
rad30	1.49378e-05	0.999960	1.49420e-05	0.999960
rad39	1.33383e-05	0.999973	1.33421e-05	0.999973
PAH3+H	1.25774e-05	0.999986	1.25809e-05	0.999986
rad46	2.74064e-06	0.999989	2.74142e-06	0.999988
rad9	2.26541e-06	0.999991	2.26605e-06	0.999991
rad50	1.75815e-06	0.999993	1.75865e-06	0.999992
rad59	1.29621e-06	0.999994	1.29658e-06	0.999994
rad60syn	1.24718e-06	0.999995	1.24754e-06	0.999995
rad54	1.23072e-06	0.999996	1.23107e-06	0.999996
PAH1+H	1.18208e-06	0.999998	1.18242e-06	0.999997
rad60anti	7.66768e-07	0.999998	7.66986e-07	0.999998
rad43	4.10095e-07	0.999999	4.10212e-07	0.999998
rad51	3.87805e-07	0.999999	3.87916e-07	0.999999
rad70	3.43776e-07	0.999999	3.43874e-07	0.999999
rad52	1.33738e-07	1.000000	1.33776e-07	0.999999
rad58	9.48962e-08	1.000000	9.49233e-08	0.999999
rad55	8.22278e-08	1.000000	8.22514e-08	0.999999
rad34	7.56514e-08	1.000000	7.56726e-08	1.000000
rad61	7.45541e-08	1.000000	7.45753e-08	1.000000
rad62	3.23613e-08	1.000000	3.23706e-08	1.000000
rad41	2.13296e-08	1.000000	2.13357e-08	1.000000
rad53	1.49239e-08	1.000000	1.49281e-08	1.000000
rad56	1.23806e-08	1.000000	1.23841e-08	1.000000
rad65	1.15147e-08	1.000000	1.15180e-08	1.000000
PAH8+H	1.11983e-08	1.000000	1.12015e-08	1.000000
rad12	5.89994e-09	1.000000	5.90163e-09	1.000000

rad64	5.02757e-09	1.00000	5.02901e-09	1.000000
rad71	4.77981e-09	1.00000	4.78117e-09	1.000000
rad73	4.37714e-09	1.00000	4.37839e-09	1.000000
rad68syn	3.36208e-09	1.00000	3.36305e-09	1.000000
rad15	2.85040e-09	1.00000	2.85122e-09	1.000000
rad68anti	2.20482e-09	1.00000	2.20544e-09	1.000000
rad40syn	2.06352e-09	1.00000	2.06411e-09	1.000000
rad42	1.87968e-09	1.00000	1.88022e-09	1.000000
rad40anti	1.60622e-09	1.00000	1.60667e-09	1.000000
rad23	7.24130e-10	1.00000	7.24336e-10	1.000000
rad6	2.71344e-10	1.00000	2.71421e-10	1.000000
rad45	2.19722e-10	1.00000	2.19785e-10	1.000000
rad19anti	1.48427e-10	1.00000	1.48470e-10	1.000000
rad2	1.02001e-10	1.00000	1.02031e-10	1.000000
rad72	9.40705e-11	1.00000	9.40969e-11	1.000000
rad11	6.61805e-11	1.00000	6.61994e-11	1.000000
rad8	4.42428e-11	1.00000	4.42555e-11	1.000000
rad21	3.04300e-11	1.00000	3.04387e-11	1.000000
rad1	2.89138e-11	1.00000	2.89220e-11	1.000000
rad13	2.26225e-11	1.00000	2.26290e-11	1.000000
rad36	2.22566e-11	1.00000	2.22630e-11	1.000000
rad10	1.53700e-11	1.00000	1.53744e-11	1.000000
rad7	1.07631e-11	1.00000	1.07663e-11	1.000000
rad19syn	1.00706e-11	1.00000	1.00735e-11	1.000000
rad20	7.50862e-12	1.00000	7.51074e-12	1.000000
rad22	3.72339e-12	1.00000	3.72445e-12	1.000000
rad33	1.76777e-12	1.00000	1.76828e-12	1.000000
rad18	1.73398e-12	1.00000	1.73448e-12	1.000000
rad26	1.66008e-12	1.00000	1.66055e-12	1.000000
rad24	1.53482e-12	1.00000	1.53526e-12	1.000000
rad3	8.29860e-13	1.00000	8.30096e-13	1.000000
rad4	6.67512e-13	1.00000	6.67702e-13	1.000000
rad25	5.68319e-13	1.00000	5.68480e-13	1.000000
rad27	2.72190e-13	1.00000	2.72268e-13	1.000000
rad28	1.78872e-13	1.00000	1.78923e-13	1.000000
rad31	2.62747e-14	1.00000	2.62822e-14	1.000000
rad14	2.46589e-14	1.00000	2.46659e-14	1.000000
rad47	3.41351e-15	1.00000	3.41449e-15	1.000000
rad5	1.30570e-17	1.00000	1.30607e-17	1.000000

1.00000000 Pa, 1400.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.19360e-12 (1.00)	6.18997e-12 (1.00)
Formation of rad19	4.34185e-12 (0.701)	4.33861e-12 (0.701)
H-abstraction to cyc2enyl	1.32990e-12 (0.215)	1.32990e-12 (0.215)
H-abstraction to cyclenyl	5.21850e-13 (0.0843)	5.21461e-13 (0.0842)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.566022	0.566022	0.566355	0.566355
Benzene+cycloprop-2-enylidene	0.214721	0.780743	0.214847	0.781202
PhCHCCH2+H	0.113529	0.894273	0.113596	0.894798
Benzene+cycloprop-1-enylidene	0.0842564	0.978529	0.0842429	0.979041
Ph+MeAc	0.00387295	0.982402	0.00387523	0.982916
Ph+Allene	0.00376047	0.986163	0.00376268	0.986679
C2H2+PhCH2	0.00367940	0.989842	0.00368156	0.990360
PhCH2CCH+H	0.00231309	0.992155	0.00231444	0.992675
PhCCCH3+H	0.00159644	0.993751	0.00159737	0.994272
rad67	0.00144415	0.995196	0.00144499	0.995717
PhcycC3H3_A+H	0.00120490	0.996400	0.00120561	0.996923
PhcycC3H3_B+H	0.00109185	0.997492	0.00109249	0.998015
PhCCH+CH3	0.000988708	0.998481	0.000989292	0.999004
Phenyl+cycC3H4	0.000523345	0.999004	0.000000	0.999004
rad35	0.000519435	0.999524	0.000519740	0.999524
PAH10+CH3	0.000132952	0.999657	0.000133030	0.999657
rad37	0.000103972	0.999761	0.000104033	0.999761
PAH7+H	9.76657e-05	0.999858	9.77230e-05	0.999859
PAH9+H	3.30484e-05	0.999891	3.30678e-05	0.999892
rad38	2.89893e-05	0.999920	2.90063e-05	0.999921
PAH3+H	2.09798e-05	0.999941	2.09920e-05	0.999942
rad30	2.03493e-05	0.999962	2.03613e-05	0.999962
rad39	1.60330e-05	0.999978	1.60424e-05	0.999978
rad46	4.60547e-06	0.999982	4.60817e-06	0.999983
rad50	3.39329e-06	0.999986	3.39528e-06	0.999986
rad59	2.10258e-06	0.999988	2.10382e-06	0.999988
PAH1+H	2.05240e-06	0.999990	2.05361e-06	0.999991
rad60syn	1.88980e-06	0.999992	1.89091e-06	0.999992
rad54	1.78095e-06	0.999994	1.78199e-06	0.999994

rad9	1.42835e-06	0.999995	1.42919e-06	0.999996
rad60anti	1.16983e-06	0.999996	1.17051e-06	0.999997
rad51	8.27382e-07	0.999997	8.27866e-07	0.999998
rad43	6.31833e-07	0.999998	6.32204e-07	0.999998
rad70	5.60275e-07	0.999998	5.60603e-07	0.999999
rad52	2.70783e-07	0.999999	2.70941e-07	0.999999
rad58	1.78460e-07	0.999999	1.78565e-07	0.999999
rad61	1.46305e-07	0.999999	1.46391e-07	0.999999
rad34	1.30073e-07	0.999999	1.30148e-07	1.000000
rad55	1.23579e-07	0.999999	1.23652e-07	1.000000
rad62	4.61556e-08	0.999999	4.61827e-08	1.000000
rad41	3.74053e-08	0.999999	3.74272e-08	1.000000
PAH8+H	2.63244e-08	0.999999	2.63398e-08	1.000000
rad53	2.60415e-08	0.999999	2.60567e-08	1.000000
rad65	2.42409e-08	0.999999	2.42552e-08	1.000000
rad56	2.33559e-08	0.999999	2.33696e-08	1.000000
rad71	1.41636e-08	0.999999	1.41719e-08	1.000000
rad73	1.20401e-08	0.999999	1.20471e-08	1.000000
rad64	8.79881e-09	0.999999	8.80399e-09	1.000000
rad68syn	6.90260e-09	0.999999	6.90665e-09	1.000000
rad15	5.24935e-09	0.999999	5.25242e-09	1.000000
rad12	4.69041e-09	0.999999	4.69317e-09	1.000000
rad40syn	4.57883e-09	0.999999	4.58151e-09	1.000000
rad68anti	4.51570e-09	0.999999	4.51835e-09	1.000000
rad40anti	3.59156e-09	0.999999	3.59366e-09	1.000000
rad42	3.00697e-09	0.999999	3.00873e-09	1.000000
rad23	6.92484e-10	0.999999	6.92890e-10	1.000000
rad6	3.54153e-10	0.999999	3.54361e-10	1.000000
rad72	3.28906e-10	0.999999	3.29099e-10	1.000000
rad45	2.02459e-10	0.999999	2.02578e-10	1.000000
rad11	1.58676e-10	0.999999	1.58769e-10	1.000000
rad19anti	1.15143e-10	0.999999	1.15211e-10	1.000000
rad2	7.55148e-11	0.999999	7.55588e-11	1.000000
rad8	5.66851e-11	0.999999	5.67183e-11	1.000000
rad7	4.05812e-11	0.999999	4.06050e-11	1.000000
rad21	3.67751e-11	0.999999	3.67967e-11	1.000000
rad10	3.47502e-11	0.999999	3.47705e-11	1.000000
rad13	2.62285e-11	0.999999	2.62440e-11	1.000000
rad1	2.16190e-11	0.999999	2.16316e-11	1.000000
rad36	2.06425e-11	0.999999	2.06546e-11	1.000000
rad19syn	8.90593e-12	0.999999	8.91116e-12	1.000000
rad20	8.39979e-12	0.999999	8.40468e-12	1.000000
rad18	5.72898e-12	0.999999	5.73234e-12	1.000000
rad22	4.74022e-12	0.999999	4.74301e-12	1.000000
rad26	2.17976e-12	0.999999	2.18104e-12	1.000000
rad24	1.80319e-12	0.999999	1.80425e-12	1.000000
rad33	1.72661e-12	0.999999	1.72762e-12	1.000000
rad25	7.73985e-13	0.999999	7.74442e-13	1.000000
rad3	5.85944e-13	0.999999	5.86288e-13	1.000000
rad4	4.68497e-13	0.999999	4.68772e-13	1.000000
rad27	3.51818e-13	0.999999	3.52024e-13	1.000000
rad28	2.40780e-13	0.999999	2.40921e-13	1.000000
rad14	3.06977e-14	0.999999	3.07157e-14	1.000000
rad31	2.62637e-14	0.999999	2.62791e-14	1.000000
rad47	7.15358e-15	0.999999	7.15776e-15	1.000000
rad5	3.10977e-16	0.999999	3.11159e-16	1.000000

1.00000000 Pa, 1500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.80417e-12 (1.00)	7.79561e-12 (1.00)
Formation of rad19	5.22661e-12 (0.670)	5.21915e-12 (0.669)
H-abstraction to cyc2enyl	1.80920e-12 (0.232)	1.80920e-12 (0.232)
H-abstraction to cyc1enyl	7.68359e-13 (0.0985)	7.67262e-13 (0.0984)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.505867	0.505867	0.506423	0.506423
Benzene+cycloprop-2-enylidene	0.231825	0.737692	0.232079	0.738502
PhCHCCH2+H	0.135969	0.873661	0.136118	0.874620
Benzene+cycloprop-1-enylidene	0.0984549	0.972116	0.0984223	0.973042
Ph+MeAc	0.00470574	0.976821	0.00471091	0.977753
Ph+Allene	0.00464765	0.981469	0.00465275	0.982406
C2H2+PhCH2	0.00447305	0.985942	0.00447797	0.986884
PhCH2CCH+H	0.00304825	0.988990	0.00305160	0.989935
PhcycC3H3_A+H	0.00198977	0.990980	0.00199195	0.991927
PhcycC3H3_B+H	0.00193281	0.992913	0.00193493	0.993862
PhCCCH3+H	0.00187668	0.994789	0.00187875	0.995741
rad67	0.00179099	0.996580	0.00179296	0.997534

PhCCH+CH3	0.00117784	0.997758	0.00117913	0.998713
Phenyl+cycC3H4	0.000956146	0.998714	0.00000	0.998713
rad35	0.000644856	0.999359	0.000645564	0.999358
PAH10+CH3	0.000194197	0.999554	0.000194410	0.999553
rad37	0.000129808	0.999683	0.000129950	0.999683
PAH7+H	0.000116419	0.999800	0.000116546	0.999799
PAH9+H	4.88552e-05	0.999849	4.89088e-05	0.999848
rad38	4.16024e-05	0.999890	4.16480e-05	0.999890
PAH3+H	3.23388e-05	0.999923	3.23743e-05	0.999922
rad30	2.62813e-05	0.999949	2.63101e-05	0.999949
rad39	1.87897e-05	0.999968	1.88104e-05	0.999967
rad46	7.16226e-06	0.999975	7.17013e-06	0.999975
rad50	5.93840e-06	0.999981	5.94492e-06	0.999981
PAH1+H	3.25738e-06	0.999984	3.26096e-06	0.999984
rad59	3.16168e-06	0.999987	3.16515e-06	0.999987
rad60syn	2.67976e-06	0.999990	2.68270e-06	0.999990
rad54	2.39843e-06	0.999992	2.40106e-06	0.999992
rad60anti	1.66872e-06	0.999994	1.67055e-06	0.999994
rad51	1.57357e-06	0.999995	1.57530e-06	0.999995
rad43	9.05602e-07	0.999996	9.06594e-07	0.999996
rad9	8.98403e-07	0.999997	8.99391e-07	0.999997
rad70	8.42789e-07	0.999998	8.43715e-07	0.999998
rad52	4.92990e-07	0.999999	4.93532e-07	0.999998
rad58	3.04467e-07	0.999999	3.04801e-07	0.999999
rad61	2.56161e-07	0.999999	2.56442e-07	0.999999
rad34	2.04944e-07	0.999999	2.05168e-07	0.999999
rad55	1.72016e-07	1.000000	1.72205e-07	0.999999
rad62	6.20600e-08	1.000000	6.21281e-08	0.999999
rad41	5.99092e-08	1.000000	5.99749e-08	1.000000
PAH8+H	5.38729e-08	1.000000	5.39320e-08	1.000000
rad65	4.55526e-08	1.000000	4.56027e-08	1.000000
rad53	4.12884e-08	1.000000	4.13338e-08	1.000000
rad56	3.95693e-08	1.000000	3.96128e-08	1.000000
rad71	3.50065e-08	1.000000	3.50450e-08	1.000000
rad73	2.80740e-08	1.000000	2.81048e-08	1.000000
rad64	1.41262e-08	1.000000	1.41417e-08	1.000000
rad68syn	1.26346e-08	1.000000	1.26484e-08	1.000000
rad40syn	8.93668e-09	1.000000	8.94651e-09	1.000000
rad15	8.66558e-09	1.000000	8.67509e-09	1.000000
rad68anti	8.24881e-09	1.000000	8.25793e-09	1.000000
rad40anti	7.05450e-09	1.000000	7.06220e-09	1.000000
rad42	4.46794e-09	1.000000	4.47284e-09	1.000000
rad12	3.66423e-09	1.000000	3.66826e-09	1.000000
rad72	9.20818e-10	1.000000	9.21826e-10	1.000000
rad23	6.70296e-10	1.000000	6.71031e-10	1.000000
rad6	4.69548e-10	1.000000	4.70063e-10	1.000000
rad11	2.33888e-10	1.000000	2.34145e-10	1.000000
rad45	1.83447e-10	1.000000	1.83649e-10	1.000000
rad19anti	9.04906e-11	1.000000	9.05898e-11	1.000000
rad7	7.73359e-11	1.000000	7.74215e-11	1.000000
rad10	6.37488e-11	1.000000	6.38188e-11	1.000000
rad8	6.24761e-11	1.000000	6.25447e-11	1.000000
rad2	5.59589e-11	1.000000	5.60203e-11	1.000000
rad21	3.98240e-11	1.000000	3.98677e-11	1.000000
rad13	2.44443e-11	1.000000	2.44711e-11	1.000000
rad36	1.88378e-11	1.000000	1.88585e-11	1.000000
rad1	1.62083e-11	1.000000	1.62261e-11	1.000000
rad18	1.05334e-11	1.000000	1.05449e-11	1.000000
rad20	8.39575e-12	1.000000	8.40495e-12	1.000000
rad19syn	7.89908e-12	1.000000	7.90771e-12	1.000000
rad26	6.35925e-12	1.000000	6.36623e-12	1.000000
rad22	5.43242e-12	1.000000	5.43839e-12	1.000000
rad24	1.99086e-12	1.000000	1.99305e-12	1.000000
rad33	1.52274e-12	1.000000	1.52441e-12	1.000000
rad25	8.68641e-13	1.000000	8.69598e-13	1.000000
rad28	4.23228e-13	1.000000	4.23693e-13	1.000000
rad3	4.16117e-13	1.000000	4.16574e-13	1.000000
rad27	3.82053e-13	1.000000	3.82473e-13	1.000000
rad4	3.30000e-13	1.000000	3.30362e-13	1.000000
rad14	3.15991e-14	1.000000	3.16338e-14	1.000000
rad31	2.56266e-14	1.000000	2.56547e-14	1.000000
rad47	1.33195e-14	1.000000	1.33341e-14	1.000000
rad5	5.40671e-15	1.000000	5.41265e-15	1.000000

0.100000000 Pa, 20.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.24541e-22 (1.00)	1.24541e-22 (1.00)
Formation of rad19	1.24541e-22 (1.00)	1.24541e-22 (1.00)

H-abstraction to cyc2enyl | 3.84323e-68 (3.09e-46) 3.84323e-68 (3.09e-46)
H-abstraction to cyclenyl | 6.26313e-106 (5.03e-84) 6.26313e-106 (5.03e-84)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999773	0.999773	0.999773	0.999773
PhCHCCH2+H	0.000215322	0.999988	0.000215322	0.999988
PhCCH+CH3	3.52009e-06	0.999992	3.52009e-06	0.999992
C2H2+PhCH2	2.22612e-06	0.999994	2.22612e-06	0.999994
PhCCCH3+H	2.06105e-06	0.999996	2.06105e-06	0.999996
rad6	1.81155e-06	0.999998	1.81155e-06	0.999998
Ph+MeAc	1.50381e-06	0.999999	1.50381e-06	0.999999
rad67	4.66982e-07	1.000000	4.66982e-07	1.000000
rad35	2.06885e-07	1.000000	2.06885e-07	1.000000
Ph+Allene	8.90355e-08	1.000000	8.90355e-08	1.000000
PAH7+H	1.17078e-08	1.000000	1.17078e-08	1.000000
PhCH2CCH+H	1.05501e-08	1.000000	1.05501e-08	1.000000
rad37	4.50036e-09	1.000000	4.50036e-09	1.000000
rad30	3.79105e-09	1.000000	3.79105e-09	1.000000
rad39	3.28680e-09	1.000000	3.28680e-09	1.000000
rad28	2.17444e-09	1.000000	2.17444e-09	1.000000
rad2	1.97775e-09	1.000000	1.97775e-09	1.000000
rad7	2.78973e-10	1.000000	2.78973e-10	1.000000
rad26	2.46483e-10	1.000000	2.46483e-10	1.000000
PAH9+H	1.95563e-10	1.000000	1.95563e-10	1.000000
rad10	1.37374e-10	1.000000	1.37374e-10	1.000000
rad1	1.24928e-10	1.000000	1.24928e-10	1.000000
rad11	8.50299e-11	1.000000	8.50299e-11	1.000000
rad38	8.42248e-11	1.000000	8.42248e-11	1.000000
rad3	1.82643e-11	1.000000	1.82643e-11	1.000000
rad60syn	1.62811e-11	1.000000	1.62811e-11	1.000000
rad23	1.04347e-11	1.000000	1.04347e-11	1.000000
rad9	9.64569e-12	1.000000	9.64569e-12	1.000000
rad4	9.22482e-12	1.000000	9.22482e-12	1.000000
rad60anti	7.94267e-12	1.000000	7.94267e-12	1.000000
PAH3+H	6.41369e-12	1.000000	6.41369e-12	1.000000
PAH10+CH3	5.23275e-12	1.000000	5.23275e-12	1.000000
rad46	4.74824e-12	1.000000	4.74824e-12	1.000000
rad59	1.33204e-12	1.000000	1.33204e-12	1.000000
rad13	8.75928e-13	1.000000	8.75928e-13	1.000000
PhcycC3H3_A+H	4.09821e-13	1.000000	4.09821e-13	1.000000
rad45	2.55476e-13	1.000000	2.55476e-13	1.000000
rad43	2.43186e-13	1.000000	2.43186e-13	1.000000
rad54	1.02865e-13	1.000000	1.02865e-13	1.000000
rad62	4.77788e-14	1.000000	4.77788e-14	1.000000
rad50	2.88207e-14	1.000000	2.88207e-14	1.000000
rad36	1.56692e-14	1.000000	1.56692e-14	1.000000
rad22	1.40097e-14	1.000000	1.40097e-14	1.000000
rad15	5.81125e-15	1.000000	5.81125e-15	1.000000
rad70	1.63996e-15	1.000000	1.63996e-15	1.000000
rad14	1.56089e-15	1.000000	1.56089e-15	1.000000
rad33	1.38861e-15	1.000000	1.38861e-15	1.000000
rad27	1.29591e-15	1.000000	1.29591e-15	1.000000
rad55	6.26162e-16	1.000000	6.26162e-16	1.000000
rad25	6.10049e-16	1.000000	6.10049e-16	1.000000
PAH1+H	3.43032e-16	1.000000	3.43032e-16	1.000000
rad52	1.74862e-16	1.000000	1.74862e-16	1.000000
rad58	7.04303e-17	1.000000	7.04303e-17	1.000000
rad51	4.08682e-17	1.000000	4.08682e-17	1.000000
Phenyl+cycC3H4	2.77347e-17	1.000000	0.000000	1.000000
rad34	1.40547e-17	1.000000	1.40547e-17	1.000000
rad41	2.51636e-18	1.000000	2.51636e-18	1.000000
rad42	2.48596e-18	1.000000	2.48596e-18	1.000000
rad65	7.94010e-19	1.000000	7.94010e-19	1.000000
rad5	2.84734e-19	1.000000	2.84734e-19	1.000000
rad18	4.88024e-20	1.000000	4.88024e-20	1.000000
rad12	4.53160e-20	1.000000	4.53160e-20	1.000000
rad20	3.99724e-20	1.000000	3.99724e-20	1.000000
rad31	3.70034e-20	1.000000	3.70034e-20	1.000000
rad21	2.62177e-20	1.000000	2.62177e-20	1.000000
rad19anti	5.94168e-21	1.000000	5.94168e-21	1.000000
rad24	2.01644e-21	1.000000	2.01644e-21	1.000000
PhcycC3H3_B+H	2.83036e-24	1.000000	2.83036e-24	1.000000
rad53	1.92063e-25	1.000000	1.92063e-25	1.000000
rad47	6.91734e-26	1.000000	6.91734e-26	1.000000
rad64	2.17560e-27	1.000000	2.17560e-27	1.000000
rad61	4.65782e-34	1.000000	4.65782e-34	1.000000
rad56	5.44952e-35	1.000000	5.44952e-35	1.000000
rad68syn	6.71647e-37	1.000000	6.71647e-37	1.000000
rad68anti	5.65137e-37	1.000000	5.65137e-37	1.000000

rad19syn	1.37417e-40	1.00000	1.37417e-40	1.00000
rad73	2.07506e-44	1.00000	2.07506e-44	1.00000
rad40syn	1.45840e-45	1.00000	1.45840e-45	1.00000
rad40anti	1.13549e-45	1.00000	1.13549e-45	1.00000
Benzene+cycloprop-2-enylidene	3.08591e-46	1.00000	3.08591e-46	1.00000
PAH8+H	1.83714e-49	1.00000	1.83714e-49	1.00000
rad71	1.73349e-52	1.00000	1.73349e-52	1.00000
rad8	1.94460e-57	1.00000	1.94460e-57	1.00000
Benzene+cycloprop-1-enylidene	5.02895e-84	1.00000	5.02895e-84	1.00000

0.100000000 Pa, 30.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.13009e-20 (1.00)	8.13009e-20 (1.00)
Formation of rad19	8.13009e-20 (1.00)	8.13009e-20 (1.00)
H-abstraction to cyc2enyl	1.08880e-49 (1.34e-30)	1.08880e-49 (1.34e-30)
H-abstraction to cyclenyl	7.55172e-75 (9.29e-56)	7.55172e-75 (9.29e-56)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999771	0.999771	0.999771	0.999771
PhCHCCH2+H	0.000217816	0.999989	0.000217816	0.999989
PhCCH+CH3	3.68587e-06	0.999993	3.68587e-06	0.999993
C2H2+PhCH2	2.49895e-06	0.999995	2.49895e-06	0.999995
PhCCCH3+H	2.10860e-06	0.999997	2.10860e-06	0.999997
Ph+MeAc	1.54813e-06	0.999999	1.54813e-06	0.999999
rad67	4.74137e-07	0.999999	4.74137e-07	0.999999
rad6	4.30244e-07	1.000000	4.30244e-07	1.000000
rad35	2.09942e-07	1.000000	2.09942e-07	1.000000
Ph+Allene	1.11575e-07	1.000000	1.11575e-07	1.000000
PAH7+H	1.49228e-08	1.000000	1.49228e-08	1.000000
PhCH2CCH+H	1.32786e-08	1.000000	1.32786e-08	1.000000
rad37	4.62249e-09	1.000000	4.62249e-09	1.000000
rad39	4.19775e-09	1.000000	4.19775e-09	1.000000
rad30	3.88931e-09	1.000000	3.88931e-09	1.000000
rad28	4.85593e-10	1.000000	4.85593e-10	1.000000
rad2	4.60332e-10	1.000000	4.60332e-10	1.000000
PAH9+H	2.26835e-10	1.000000	2.26835e-10	1.000000
rad38	9.64617e-11	1.000000	9.64617e-11	1.000000
rad26	6.00607e-11	1.000000	6.00607e-11	1.000000
rad7	5.94605e-11	1.000000	5.94605e-11	1.000000
rad10	3.06274e-11	1.000000	3.06274e-11	1.000000
rad1	2.90931e-11	1.000000	2.90931e-11	1.000000
rad11	1.74611e-11	1.000000	1.74611e-11	1.000000
rad60syn	1.68092e-11	1.000000	1.68092e-11	1.000000
rad60anti	8.20454e-12	1.000000	8.20454e-12	1.000000
PAH3+H	6.66674e-12	1.000000	6.66674e-12	1.000000
rad46	5.58773e-12	1.000000	5.58773e-12	1.000000
PAH10+CH3	5.51346e-12	1.000000	5.51346e-12	1.000000
rad3	3.95164e-12	1.000000	3.95164e-12	1.000000
rad4	1.99608e-12	1.000000	1.99608e-12	1.000000
rad59	1.38330e-12	1.000000	1.38330e-12	1.000000
rad23	9.55820e-13	1.000000	9.55820e-13	1.000000
PhcycC3H3_A+H	4.39781e-13	1.000000	4.39781e-13	1.000000
rad43	2.55782e-13	1.000000	2.55782e-13	1.000000
rad13	1.93906e-13	1.000000	1.93906e-13	1.000000
rad54	1.44104e-13	1.000000	1.44104e-13	1.000000
rad9	5.54201e-14	1.000000	5.54201e-14	1.000000
rad62	5.19714e-14	1.000000	5.19714e-14	1.000000
rad50	3.48551e-14	1.000000	3.48551e-14	1.000000
rad45	2.03466e-14	1.000000	2.03466e-14	1.000000
rad70	2.22281e-15	1.000000	2.22281e-15	1.000000
rad36	1.24771e-15	1.000000	1.24771e-15	1.000000
rad22	9.58819e-16	1.000000	9.58819e-16	1.000000
rad55	9.09593e-16	1.000000	9.09593e-16	1.000000
PAH1+H	4.32930e-16	1.000000	4.32930e-16	1.000000
rad14	3.26613e-16	1.000000	3.26613e-16	1.000000
rad33	3.26123e-16	1.000000	3.26123e-16	1.000000
rad27	2.83927e-16	1.000000	2.83927e-16	1.000000
rad52	2.14531e-16	1.000000	2.14531e-16	1.000000
rad25	1.33022e-16	1.000000	1.33022e-16	1.000000
rad58	7.48941e-17	1.000000	7.48941e-17	1.000000
Phenyl+cycC3H4	5.25631e-17	1.000000	0.00000	1.000000
rad51	5.08288e-17	1.000000	5.08288e-17	1.000000
rad15	3.11756e-17	1.000000	3.11756e-17	1.000000
rad34	1.96975e-17	1.000000	1.96975e-17	1.000000
rad42	2.81658e-18	1.000000	2.81658e-18	1.000000
rad41	2.80291e-18	1.000000	2.80291e-18	1.000000
rad65	9.91801e-19	1.000000	9.91801e-19	1.000000

rad5	1.30891e-20	1.000000	1.30891e-20	1.000000
rad31	8.54831e-21	1.000000	8.54831e-21	1.000000
rad20	4.19538e-21	1.000000	4.19538e-21	1.000000
rad21	2.80407e-21	1.000000	2.80407e-21	1.000000
rad18	2.36717e-21	1.000000	2.36717e-21	1.000000
rad12	2.60508e-22	1.000000	2.60508e-22	1.000000
rad24	1.66718e-22	1.000000	1.66718e-22	1.000000
rad19anti	3.28098e-23	1.000000	3.28098e-23	1.000000
PhcycC3H3_B+H	1.99116e-24	1.000000	1.99116e-24	1.000000
rad53	1.55764e-25	1.000000	1.55764e-25	1.000000
rad47	3.62349e-26	1.000000	3.62349e-26	1.000000
rad64	1.38646e-27	1.000000	1.38646e-27	1.000000
Benzene+cycloprop-2-enylidene	1.33923e-30	1.000000	1.33923e-30	1.000000
rad61	1.59802e-34	1.000000	1.59802e-34	1.000000
rad56	1.17540e-35	1.000000	1.17540e-35	1.000000
rad68syn	1.21581e-37	1.000000	1.21581e-37	1.000000
rad68anti	1.02914e-37	1.000000	1.02914e-37	1.000000
rad19syn	8.38612e-41	1.000000	8.38612e-41	1.000000
rad73	2.24367e-45	1.000000	2.24367e-45	1.000000
rad40syn	1.24616e-46	1.000000	1.24616e-46	1.000000
rad40anti	9.86061e-47	1.000000	9.86061e-47	1.000000
PAH8+H	1.06997e-50	1.000000	1.06997e-50	1.000000
rad71	9.52830e-54	1.000000	9.52830e-54	1.000000
Benzene+cycloprop-1-enylidene	9.28861e-56	1.000000	9.28861e-56	1.000000
rad8	4.13880e-58	1.000000	4.13880e-58	1.000000

0.100000000 Pa, 40.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.24819e-18 (1.00)	2.24819e-18 (1.00)
Formation of rad19	2.24819e-18 (1.00)	2.24819e-18 (1.00)
H-abstraction to cyc2enyl	1.72361e-40 (7.67e-23)	1.72361e-40 (7.67e-23)
H-abstraction to cyclenyl	2.48792e-59 (1.11e-41)	2.48792e-59 (1.11e-41)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999768	0.999768	0.999768	0.999768
PhCHCCH2+H	0.000221123	0.999989	0.000221123	0.999989
PhCCH+CH3	3.78233e-06	0.999993	3.78233e-06	0.999993
C2H2+PhCH2	2.62263e-06	0.999996	2.62263e-06	0.999996
PhCCCH3+H	2.15120e-06	0.999998	2.15120e-06	0.999998
Ph+MeAc	1.58837e-06	0.999999	1.58837e-06	0.999999
rad67	4.83974e-07	1.000000	4.83974e-07	1.000000
rad35	2.14124e-07	1.000000	2.14124e-07	1.000000
rad6	1.38096e-07	1.000000	1.38096e-07	1.000000
Ph+Allene	1.23077e-07	1.000000	1.23077e-07	1.000000
PAH7+H	1.64047e-08	1.000000	1.64047e-08	1.000000
PhCH2CCH+H	1.47782e-08	1.000000	1.47782e-08	1.000000
rad37	4.75679e-09	1.000000	4.75679e-09	1.000000
rad39	4.61900e-09	1.000000	4.61900e-09	1.000000
rad30	3.98228e-09	1.000000	3.98228e-09	1.000000
PAH9+H	2.43092e-10	1.000000	2.43092e-10	1.000000
rad28	1.50841e-10	1.000000	1.50841e-10	1.000000
rad2	1.44719e-10	1.000000	1.44719e-10	1.000000
rad38	1.03210e-10	1.000000	1.03210e-10	1.000000
rad26	1.94059e-11	1.000000	1.94059e-11	1.000000
rad7	1.80310e-11	1.000000	1.80310e-11	1.000000
rad60syn	1.73618e-11	1.000000	1.73618e-11	1.000000
rad10	9.41110e-12	1.000000	9.41110e-12	1.000000
rad1	9.15655e-12	1.000000	9.15655e-12	1.000000
rad60anti	8.48063e-12	1.000000	8.48063e-12	1.000000
PAH3+H	6.95608e-12	1.000000	6.95608e-12	1.000000
rad46	6.05773e-12	1.000000	6.05773e-12	1.000000
PAH10+CH3	5.84180e-12	1.000000	5.84180e-12	1.000000
rad11	5.19406e-12	1.000000	5.19406e-12	1.000000
rad59	1.44123e-12	1.000000	1.44123e-12	1.000000
rad3	1.19767e-12	1.000000	1.19767e-12	1.000000
rad4	6.05116e-13	1.000000	6.05116e-13	1.000000
PhcycC3H3_A+H	4.99288e-13	1.000000	4.99288e-13	1.000000
rad43	2.69996e-13	1.000000	2.69996e-13	1.000000
rad23	1.71785e-13	1.000000	1.71785e-13	1.000000
rad54	1.70414e-13	1.000000	1.70414e-13	1.000000
rad13	6.04302e-14	1.000000	6.04302e-14	1.000000
rad62	5.57773e-14	1.000000	5.57773e-14	1.000000
rad50	3.88017e-14	1.000000	3.88017e-14	1.000000
rad9	3.43694e-15	1.000000	3.43694e-15	1.000000
rad45	3.39503e-15	1.000000	3.39503e-15	1.000000
rad70	2.64854e-15	1.000000	2.64854e-15	1.000000
rad55	1.11038e-15	1.000000	1.11038e-15	1.000000

PAH1+H	5.13910e-16	1.00000	5.13910e-16	1.00000
rad52	2.42749e-16	1.00000	2.42749e-16	1.00000
rad36	2.08121e-16	1.00000	2.08121e-16	1.00000
rad22	1.51025e-16	1.00000	1.51025e-16	1.00000
Phenyl+cycC3H4	1.15738e-16	1.00000	0.00000	1.00000
rad33	1.04409e-16	1.00000	1.04409e-16	1.00000
rad14	9.80118e-17	1.00000	9.80118e-17	1.00000
rad27	8.70260e-17	1.00000	8.70260e-17	1.00000
rad58	8.11115e-17	1.00000	8.11115e-17	1.00000
rad51	5.85248e-17	1.00000	5.85248e-17	1.00000
rad25	4.12304e-17	1.00000	4.12304e-17	1.00000
rad34	2.44639e-17	1.00000	2.44639e-17	1.00000
rad41	3.25596e-18	1.00000	3.25596e-18	1.00000
rad42	3.22990e-18	1.00000	3.22990e-18	1.00000
rad15	1.86618e-18	1.00000	1.86618e-18	1.00000
rad65	1.15081e-18	1.00000	1.15081e-18	1.00000
rad31	2.69243e-21	1.00000	2.69243e-21	1.00000
rad5	1.65013e-21	1.00000	1.65013e-21	1.00000
rad20	9.47885e-22	1.00000	9.47885e-22	1.00000
rad21	6.41528e-22	1.00000	6.41528e-22	1.00000
rad18	3.40761e-22	1.00000	3.40761e-22	1.00000
Benzene+cycloprop-2-enylidene	7.66665e-23	1.00000	7.66665e-23	1.00000
rad24	2.86265e-23	1.00000	2.86265e-23	1.00000
rad12	1.61896e-23	1.00000	1.61896e-23	1.00000
PhcycC3H3_B+H	3.77343e-24	1.00000	3.77343e-24	1.00000
rad19anti	2.00937e-24	1.00000	2.00937e-24	1.00000
rad53	1.93955e-25	1.00000	1.93955e-25	1.00000
rad47	2.38483e-26	1.00000	2.38483e-26	1.00000
rad64	1.52703e-27	1.00000	1.52703e-27	1.00000
rad61	1.58999e-34	1.00000	1.58999e-34	1.00000
rad56	7.93397e-36	1.00000	7.93397e-36	1.00000
rad68syn	7.65192e-38	1.00000	7.65192e-38	1.00000
rad68anti	6.49254e-38	1.00000	6.49254e-38	1.00000
rad19syn	8.61361e-41	1.00000	8.61361e-41	1.00000
Benzene+cycloprop-1-enylidene	1.10663e-41	1.00000	1.10663e-41	1.00000
rad73	1.16950e-45	1.00000	1.16950e-45	1.00000
rad40syn	6.36761e-47	1.00000	6.36761e-47	1.00000
rad40anti	5.07493e-47	1.00000	5.07493e-47	1.00000
PAH8+H	4.73076e-51	1.00000	4.73076e-51	1.00000
rad71	4.01526e-54	1.00000	4.01526e-54	1.00000
rad8	1.43887e-58	1.00000	1.43887e-58	1.00000

0.100000000 Pa, 50.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.72707e-17 (1.00)	1.72707e-17 (1.00)
Formation of rad19	1.72707e-17 (1.00)	1.72707e-17 (1.00)
H-abstraction to cyc2enyl	5.49905e-35 (3.18e-18)	5.49905e-35 (3.18e-18)
H-abstraction to cyclenyl	4.93090e-50 (2.86e-33)	4.93090e-50 (2.86e-33)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999763	0.999763	0.999763	0.999763
PhCHCCH2+H	0.000225180	0.999988	0.000225180	0.999988
PhCCH+CH3	3.87283e-06	0.999992	3.87283e-06	0.999992
C2H2+PhCH2	2.71810e-06	0.999995	2.71810e-06	0.999995
PhCCCH3+H	2.19974e-06	0.999997	2.19974e-06	0.999997
Ph+MeAc	1.63353e-06	0.999999	1.63353e-06	0.999999
rad67	4.96183e-07	0.999999	4.96183e-07	0.999999
rad35	2.19306e-07	0.999999	2.19306e-07	0.999999
Ph+Allene	1.31846e-07	0.999999	1.31846e-07	0.999999
rad6	5.34681e-08	1.000000	5.34681e-08	1.000000
PAH7+H	1.74642e-08	1.000000	1.74642e-08	1.000000
PhCH2CCH+H	1.59723e-08	1.000000	1.59723e-08	1.000000
rad39	4.92014e-09	1.000000	4.92014e-09	1.000000
rad37	4.91647e-09	1.000000	4.91647e-09	1.000000
rad30	4.08724e-09	1.000000	4.08724e-09	1.000000
PAH9+H	2.56118e-10	1.000000	2.56118e-10	1.000000
rad38	1.08874e-10	1.000000	1.08874e-10	1.000000
rad28	5.71477e-11	1.000000	5.71477e-11	1.000000
rad2	5.50377e-11	1.000000	5.50377e-11	1.000000
rad60syn	1.80018e-11	1.000000	1.80018e-11	1.000000
rad60anti	8.80106e-12	1.000000	8.80106e-12	1.000000
rad26	7.52179e-12	1.000000	7.52179e-12	1.000000
PAH3+H	7.30106e-12	1.000000	7.30106e-12	1.000000
rad7	6.72362e-12	1.000000	6.72362e-12	1.000000
rad46	6.44616e-12	1.000000	6.44616e-12	1.000000
PAH10+CH3	6.24665e-12	1.000000	6.24665e-12	1.000000
rad10	3.52512e-12	1.000000	3.52512e-12	1.000000

rad1	3.48794e-12	1.000000	3.48794e-12	1.000000
rad11	1.91261e-12	1.000000	1.91261e-12	1.000000
rad59	1.51002e-12	1.000000	1.51002e-12	1.000000
PhcycC3H3_A+H	5.84117e-13	1.000000	5.84117e-13	1.000000
rad3	4.44900e-13	1.000000	4.44900e-13	1.000000
rad43	2.87047e-13	1.000000	2.87047e-13	1.000000
rad4	2.24860e-13	1.000000	2.24860e-13	1.000000
rad54	1.93150e-13	1.000000	1.93150e-13	1.000000
rad62	5.99339e-14	1.000000	5.99339e-14	1.000000
rad23	4.36370e-14	1.000000	4.36370e-14	1.000000
rad50	4.23449e-14	1.000000	4.23449e-14	1.000000
rad13	2.30234e-14	1.000000	2.30234e-14	1.000000
rad70	3.05484e-15	1.000000	3.05484e-15	1.000000
rad55	1.29740e-15	1.000000	1.29740e-15	1.000000
rad45	8.20785e-16	1.000000	8.20785e-16	1.000000
PAH1+H	6.03477e-16	1.000000	6.03477e-16	1.000000
rad9	5.28593e-16	1.000000	5.28593e-16	1.000000
rad52	2.69412e-16	1.000000	2.69412e-16	1.000000
Phenyl+cycC3H4	2.36668e-16	1.000000	0.000000	1.000000
rad58	8.91424e-17	1.000000	8.91424e-17	1.000000
rad51	6.61946e-17	1.000000	6.61946e-17	1.000000
rad36	5.02947e-17	1.000000	5.02947e-17	1.000000
rad33	4.04246e-17	1.000000	4.04246e-17	1.000000
rad14	3.63004e-17	1.000000	3.63004e-17	1.000000
rad22	3.54966e-17	1.000000	3.54966e-17	1.000000
rad27	3.26426e-17	1.000000	3.26426e-17	1.000000
rad34	2.94881e-17	1.000000	2.94881e-17	1.000000
rad25	1.56648e-17	1.000000	1.56648e-17	1.000000
rad41	3.90229e-18	1.000000	3.90229e-18	1.000000
rad42	3.77954e-18	1.000000	3.77954e-18	1.000000
Benzene+cycloprop-2-enylidene	3.18404e-18	1.000000	3.18404e-18	1.000000
rad65	1.31337e-18	1.000000	1.31337e-18	1.000000
rad15	2.80471e-19	1.000000	2.80471e-19	1.000000
rad31	1.03131e-21	1.000000	1.03131e-21	1.000000
rad5	3.37903e-22	1.000000	3.37903e-22	1.000000
PhcycC3H3_B+H	3.05129e-22	1.000000	3.05129e-22	1.000000
rad20	3.03238e-22	1.000000	3.03238e-22	1.000000
rad21	2.07188e-22	1.000000	2.07188e-22	1.000000
rad18	7.95250e-23	1.000000	7.95250e-23	1.000000
rad24	7.08773e-24	1.000000	7.08773e-24	1.000000
rad12	2.49786e-24	1.000000	2.49786e-24	1.000000
rad53	3.62544e-25	1.000000	3.62544e-25	1.000000
rad19anti	3.07702e-25	1.000000	3.07702e-25	1.000000
rad47	1.76285e-26	1.000000	1.76285e-26	1.000000
rad64	2.64287e-27	1.000000	2.64287e-27	1.000000
Benzene+cycloprop-1-enylidene	2.85507e-33	1.000000	2.85507e-33	1.000000
rad61	3.22439e-34	1.000000	3.22439e-34	1.000000
rad56	1.08084e-35	1.000000	1.08084e-35	1.000000
rad68syn	1.01305e-37	1.000000	1.01305e-37	1.000000
rad68anti	8.60402e-38	1.000000	8.60402e-38	1.000000
rad19syn	1.15715e-40	1.000000	1.15715e-40	1.000000
rad73	1.44785e-45	1.000000	1.44785e-45	1.000000
rad40syn	9.08201e-47	1.000000	9.08201e-47	1.000000
rad40anti	7.28688e-47	1.000000	7.28688e-47	1.000000
PAH8+H	6.18186e-51	1.000000	6.18186e-51	1.000000
rad71	4.73007e-54	1.000000	4.73007e-54	1.000000
rad8	6.65510e-59	1.000000	6.65510e-59	1.000000

0.100000000 Pa, 60.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.93738e-17 (1.00)	6.93738e-17 (1.00)
Formation of rad19	6.93738e-17 (1.000)	6.93738e-17 (1.000)
H-abstraction to cyc2enyl	2.50609e-31 (3.61e-15)	2.50609e-31 (3.61e-15)
H-abstraction to cyclenyl	7.62015e-44 (1.10e-27)	7.62015e-44 (1.10e-27)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999759	0.999759	0.999759	0.999759
PhCHCCH2+H	0.000229730	0.999989	0.000229730	0.999989
PhCCH+CH3	3.96586e-06	0.999993	3.96586e-06	0.999993
C2H2+PhCH2	2.80762e-06	0.999996	2.80762e-06	0.999996
PhCCCH3+H	2.25336e-06	0.999998	2.25336e-06	0.999998
Ph+MeAc	1.68314e-06	0.999999	1.68314e-06	0.999999
rad67	5.10001e-07	1.000000	5.10001e-07	1.000000
rad35	2.25162e-07	1.000000	2.25162e-07	1.000000
Ph+Allene	1.39790e-07	1.000000	1.39790e-07	1.000000
rad6	2.35731e-08	1.000000	2.35731e-08	1.000000
PAH7+H	1.83908e-08	1.000000	1.83908e-08	1.000000

PhCH2CCH+H	1.70803e-08	1.00000	1.70803e-08	1.00000
rad39	5.18322e-09	1.00000	5.18322e-09	1.00000
rad37	5.09584e-09	1.00000	5.09584e-09	1.00000
rad30	4.20254e-09	1.00000	4.20254e-09	1.00000
PAH9+H	2.68375e-10	1.00000	2.68375e-10	1.00000
rad38	1.14352e-10	1.00000	1.14352e-10	1.00000
rad28	2.47958e-11	1.00000	2.47958e-11	1.00000
rad2	2.38945e-11	1.00000	2.38945e-11	1.00000
rad60syn	1.87147e-11	1.00000	1.87147e-11	1.00000
rad60anti	9.15849e-12	1.00000	9.15849e-12	1.00000
PAH3+H	7.69268e-12	1.00000	7.69268e-12	1.00000
rad46	6.81644e-12	1.00000	6.81644e-12	1.00000
PAH10+CH3	6.71912e-12	1.00000	6.71912e-12	1.00000
rad26	3.31297e-12	1.00000	3.31297e-12	1.00000
rad7	2.88345e-12	1.00000	2.88345e-12	1.00000
rad59	1.58789e-12	1.00000	1.58789e-12	1.00000
rad1	1.51733e-12	1.00000	1.51733e-12	1.00000
rad10	1.51337e-12	1.00000	1.51337e-12	1.00000
rad11	8.12753e-13	1.00000	8.12753e-13	1.00000
PhcycC3H3_A+H	6.94064e-13	1.00000	6.94064e-13	1.00000
rad43	3.06598e-13	1.00000	3.06598e-13	1.00000
rad54	2.15374e-13	1.00000	2.15374e-13	1.00000
rad3	1.89917e-13	1.00000	1.89917e-13	1.00000
rad4	9.60290e-14	1.00000	9.60290e-14	1.00000
rad62	6.45206e-14	1.00000	6.45206e-14	1.00000
rad50	4.58867e-14	1.00000	4.58867e-14	1.00000
rad23	1.37997e-14	1.00000	1.37997e-14	1.00000
rad13	1.00512e-14	1.00000	1.00512e-14	1.00000
Benzene+cycloprop-2-enylidene	3.61245e-15	1.00000	3.61245e-15	1.00000
rad70	3.48012e-15	1.00000	3.48012e-15	1.00000
rad55	1.49028e-15	1.00000	1.49028e-15	1.00000
PAH1+H	7.06643e-16	1.00000	7.06643e-16	1.00000
Phenyl+cycC3H4	4.45921e-16	1.00000	0.00000	1.00000
rad52	2.96971e-16	1.00000	2.96971e-16	1.00000
rad45	2.50252e-16	1.00000	2.50252e-16	1.00000
rad9	1.31561e-16	1.00000	1.31561e-16	1.00000
rad58	9.88477e-17	1.00000	9.88477e-17	1.00000
rad51	7.44217e-17	1.00000	7.44217e-17	1.00000
rad34	3.51336e-17	1.00000	3.51336e-17	1.00000
rad33	1.78439e-17	1.00000	1.78439e-17	1.00000
rad14	1.54953e-17	1.00000	1.54953e-17	1.00000
rad36	1.53284e-17	1.00000	1.53284e-17	1.00000
rad27	1.40540e-17	1.00000	1.40540e-17	1.00000
rad22	1.06520e-17	1.00000	1.06520e-17	1.00000
rad25	6.82758e-18	1.00000	6.82758e-18	1.00000
rad41	4.75067e-18	1.00000	4.75067e-18	1.00000
rad42	4.48157e-18	1.00000	4.48157e-18	1.00000
rad65	1.49086e-18	1.00000	1.49086e-18	1.00000
rad15	6.86489e-20	1.00000	6.86489e-20	1.00000
PhcycC3H3_B+H	1.47227e-20	1.00000	1.47227e-20	1.00000
rad31	4.52680e-22	1.00000	4.52680e-22	1.00000
rad20	1.19466e-22	1.00000	1.19466e-22	1.00000
rad5	9.27934e-23	1.00000	9.27934e-23	1.00000
rad21	8.22560e-23	1.00000	8.22560e-23	1.00000
rad18	2.46191e-23	1.00000	2.46191e-23	1.00000
rad24	2.20641e-24	1.00000	2.20641e-24	1.00000
rad53	1.22189e-24	1.00000	1.22189e-24	1.00000
rad12	6.24167e-25	1.00000	6.24167e-25	1.00000
rad19anti	7.65469e-26	1.00000	7.65469e-26	1.00000
rad47	1.40031e-26	1.00000	1.40031e-26	1.00000
rad64	7.97693e-27	1.00000	7.97693e-27	1.00000
Benzene+cycloprop-1-enylidene	1.09842e-27	1.00000	1.09842e-27	1.00000
rad61	1.33213e-33	1.00000	1.33213e-33	1.00000
rad56	2.78703e-35	1.00000	2.78703e-35	1.00000
rad68syn	2.59689e-37	1.00000	2.59689e-37	1.00000
rad68anti	2.20611e-37	1.00000	2.20611e-37	1.00000
rad19syn	1.80508e-40	1.00000	1.80508e-40	1.00000
rad73	3.71323e-45	1.00000	3.71323e-45	1.00000
rad40syn	3.28284e-46	1.00000	3.28284e-46	1.00000
rad40anti	2.65407e-46	1.00000	2.65407e-46	1.00000
PAH8+H	2.10697e-50	1.00000	2.10697e-50	1.00000
rad71	1.27044e-53	1.00000	1.27044e-53	1.00000
rad8	3.74141e-59	1.00000	3.74141e-59	1.00000

0.100000000 Pa, 70.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.91520e-16 (1.00)	1.91520e-16 (1.00)
Formation of rad19	1.91520e-16 (1.000)	1.91520e-16 (1.000)

H-abstraction to cyc2enyl | 1.01125e-28 (5.28e-13) 1.01125e-28 (5.28e-13)
H-abstraction to cyc1enyl | 1.97822e-39 (1.03e-23) 1.97822e-39 (1.03e-23)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999753	0.999753	0.999753	0.999753
PhCHCCH2+H	0.000234673	0.999988	0.000234673	0.999988
PhCCH+CH3	4.06344e-06	0.999992	4.06344e-06	0.999992
C2H2+PhCH2	2.89770e-06	0.999995	2.89770e-06	0.999995
PhCCCH3+H	2.31150e-06	0.999997	2.31150e-06	0.999997
Ph+MeAc	1.73691e-06	0.999999	1.73691e-06	0.999999
rad67	5.25148e-07	0.999999	5.25148e-07	0.999999
rad35	2.31573e-07	0.999999	2.31573e-07	0.999999
Ph+Allene	1.47594e-07	1.000000	1.47594e-07	1.000000
PAH7+H	1.92821e-08	1.000000	1.92821e-08	1.000000
PhCH2CCH+H	1.81859e-08	1.000000	1.81859e-08	1.000000
rad6	1.14375e-08	1.000000	1.14375e-08	1.000000
rad39	5.43602e-09	1.000000	5.43602e-09	1.000000
rad37	5.29296e-09	1.000000	5.29296e-09	1.000000
rad30	4.32739e-09	1.000000	4.32739e-09	1.000000
PAH9+H	2.80705e-10	1.000000	2.80705e-10	1.000000
rad38	1.19960e-10	1.000000	1.19960e-10	1.000000
rad60syn	1.94968e-11	1.000000	1.94968e-11	1.000000
rad28	1.18813e-11	1.000000	1.18813e-11	1.000000
rad2	1.14393e-11	1.000000	1.14393e-11	1.000000
rad60anti	9.55105e-12	1.000000	9.55105e-12	1.000000
PAH3+H	8.12978e-12	1.000000	8.12978e-12	1.000000
PAH10+CH3	7.26053e-12	1.000000	7.26053e-12	1.000000
rad46	7.19199e-12	1.000000	7.19199e-12	1.000000
rad59	1.67455e-12	1.000000	1.67455e-12	1.000000
rad26	1.60444e-12	1.000000	1.60444e-12	1.000000
rad7	1.36907e-12	1.000000	1.36907e-12	1.000000
PhcycC3H3_A+H	8.33379e-13	1.000000	8.33379e-13	1.000000
rad1	7.28107e-13	1.000000	7.28107e-13	1.000000
rad10	7.18184e-13	1.000000	7.18184e-13	1.000000
Benzene+cycloprop-2-enylidene	5.28015e-13	1.000000	5.28015e-13	1.000000
rad11	3.83169e-13	1.000000	3.83169e-13	1.000000
rad43	3.28677e-13	1.000000	3.28677e-13	1.000000
rad54	2.38479e-13	1.000000	2.38479e-13	1.000000
rad3	8.97513e-14	1.000000	8.97513e-14	1.000000
rad62	6.96062e-14	1.000000	6.96062e-14	1.000000
rad50	4.96051e-14	1.000000	4.96051e-14	1.000000
rad4	4.54052e-14	1.000000	4.54052e-14	1.000000
rad23	5.08738e-15	1.000000	5.08738e-15	1.000000
rad13	4.84604e-15	1.000000	4.84604e-15	1.000000
rad70	3.94578e-15	1.000000	3.94578e-15	1.000000
rad55	1.69959e-15	1.000000	1.69959e-15	1.000000
PAH1+H	8.27946e-16	1.000000	8.27946e-16	1.000000
Phenyl+cycC3H4	7.87809e-16	1.000000	0.000000	1.000000
rad52	3.26676e-16	1.000000	3.26676e-16	1.000000
rad58	1.10364e-16	1.000000	1.10364e-16	1.000000
rad45	8.96524e-17	1.000000	8.96524e-17	1.000000
rad51	8.35621e-17	1.000000	8.35621e-17	1.000000
rad9	4.42515e-17	1.000000	4.42515e-17	1.000000
rad34	4.16950e-17	1.000000	4.16950e-17	1.000000
rad33	8.67443e-18	1.000000	8.67443e-18	1.000000
rad14	7.33331e-18	1.000000	7.33331e-18	1.000000
rad27	6.69297e-18	1.000000	6.69297e-18	1.000000
rad41	5.83258e-18	1.000000	5.83258e-18	1.000000
rad36	5.48964e-18	1.000000	5.48964e-18	1.000000
rad42	5.36210e-18	1.000000	5.36210e-18	1.000000
rad22	3.77881e-18	1.000000	3.77881e-18	1.000000
rad25	3.28850e-18	1.000000	3.28850e-18	1.000000
rad65	1.69092e-18	1.000000	1.69092e-18	1.000000
PhcycC3H3_B+H	2.38394e-19	1.000000	2.38394e-19	1.000000
rad15	2.27947e-20	1.000000	2.27947e-20	1.000000
rad31	2.19782e-22	1.000000	2.19782e-22	1.000000
rad20	5.42037e-23	1.000000	5.42037e-23	1.000000
rad21	3.75655e-23	1.000000	3.75655e-23	1.000000
rad5	3.10873e-23	1.000000	3.10873e-23	1.000000
Benzene+cycloprop-1-enylidene	1.03290e-23	1.000000	1.03290e-23	1.000000
rad18	9.19677e-24	1.000000	9.19677e-24	1.000000
rad53	7.37867e-24	1.000000	7.37867e-24	1.000000
rad24	8.05352e-25	1.000000	8.05352e-25	1.000000
rad12	2.10911e-25	1.000000	2.10911e-25	1.000000
rad64	5.78102e-26	1.000000	5.78102e-26	1.000000
rad19anti	2.57935e-26	1.000000	2.57935e-26	1.000000
rad47	1.16857e-26	1.000000	1.16857e-26	1.000000
rad61	6.91166e-32	1.000000	6.91166e-32	1.000000
rad56	2.11405e-34	1.000000	2.11405e-34	1.000000

rad68syn	1.81229e-36	1.000000	1.81229e-36	1.000000
rad68anti	1.53920e-36	1.000000	1.53920e-36	1.000000
rad19syn	3.07655e-40	1.000000	3.07655e-40	1.000000
rad73	2.72780e-44	1.000000	2.72780e-44	1.000000
rad40syn	3.95640e-45	1.000000	3.95640e-45	1.000000
rad40anti	3.21633e-45	1.000000	3.21633e-45	1.000000
PAH8+H	2.57580e-49	1.000000	2.57580e-49	1.000000
rad71	1.06798e-52	1.000000	1.06798e-52	1.000000
rad8	2.43263e-59	1.000000	2.43263e-59	1.000000

0.100000000 Pa, 80.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.17084e-16 (1.00)	4.17084e-16 (1.00)
Formation of rad19	4.17084e-16 (1.000)	4.17084e-16 (1.000)
H-abstraction to cyc2enyl	8.98751e-27 (2.15e-11)	8.98751e-27 (2.15e-11)
H-abstraction to cyclenyl	4.00120e-36 (9.59e-21)	4.00120e-36 (9.59e-21)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999748	0.999748	0.999748	0.999748
PhCHCCH2+H	0.000239986	0.999988	0.000239986	0.999988
PhCCH+CH3	4.16656e-06	0.999992	4.16656e-06	0.999992
C2H2+PhCH2	2.99115e-06	0.999995	2.99115e-06	0.999995
PhCCCH3+H	2.37408e-06	0.999998	2.37408e-06	0.999998
Ph+MeAc	1.79495e-06	0.999999	1.79495e-06	0.999999
rad67	5.41576e-07	1.000000	5.41576e-07	1.000000
rad35	2.38517e-07	1.000000	2.38517e-07	1.000000
Ph+Allene	1.55596e-07	1.000000	1.55596e-07	1.000000
PAH7+H	2.01828e-08	1.000000	2.01828e-08	1.000000
PhCH2CCH+H	1.93333e-08	1.000000	1.93333e-08	1.000000
rad6	5.97272e-09	1.000000	5.97272e-09	1.000000
rad39	5.69126e-09	1.000000	5.69126e-09	1.000000
rad37	5.50814e-09	1.000000	5.50814e-09	1.000000
rad30	4.46201e-09	1.000000	4.46201e-09	1.000000
PAH9+H	2.93527e-10	1.000000	2.93527e-10	1.000000
rad38	1.25865e-10	1.000000	1.25865e-10	1.000000
Benzene+cycloprop-2-enylidene	2.15484e-11	1.000000	2.15484e-11	1.000000
rad60syn	2.03513e-11	1.000000	2.03513e-11	1.000000
rad60anti	9.98055e-12	1.000000	9.98055e-12	1.000000
PAH3+H	8.61588e-12	1.000000	8.61588e-12	1.000000
PAH10+CH3	7.87863e-12	1.000000	7.87863e-12	1.000000
rad46	7.58538e-12	1.000000	7.58538e-12	1.000000
rad28	6.14172e-12	1.000000	6.14172e-12	1.000000
rad2	5.90361e-12	1.000000	5.90361e-12	1.000000
rad59	1.77066e-12	1.000000	1.77066e-12	1.000000
PhcycC3H3_A+H	1.00912e-12	1.000000	1.00912e-12	1.000000
rad26	8.35980e-13	1.000000	8.35980e-13	1.000000
rad7	7.02442e-13	1.000000	7.02442e-13	1.000000
rad1	3.76756e-13	1.000000	3.76756e-13	1.000000
rad10	3.68007e-13	1.000000	3.68007e-13	1.000000
rad43	3.53544e-13	1.000000	3.53544e-13	1.000000
rad54	2.63380e-13	1.000000	2.63380e-13	1.000000
rad11	1.95473e-13	1.000000	1.95473e-13	1.000000
rad62	7.52787e-14	1.000000	7.52787e-14	1.000000
rad50	5.36189e-14	1.000000	5.36189e-14	1.000000
rad3	4.58422e-14	1.000000	4.58422e-14	1.000000
rad4	2.32057e-14	1.000000	2.32057e-14	1.000000
rad70	4.46969e-15	1.000000	4.46969e-15	1.000000
rad13	2.52024e-15	1.000000	2.52024e-15	1.000000
rad23	2.10192e-15	1.000000	2.10192e-15	1.000000
rad55	1.93380e-15	1.000000	1.93380e-15	1.000000
Phenyl+cycC3H4	1.32430e-15	1.000000	0.000000	1.000000
PAH1+H	9.72793e-16	1.000000	9.72793e-16	1.000000
rad52	3.59502e-16	1.000000	3.59502e-16	1.000000
rad58	1.24000e-16	1.000000	1.24000e-16	1.000000
rad51	9.39442e-17	1.000000	9.39442e-17	1.000000
rad34	4.94924e-17	1.000000	4.94924e-17	1.000000
rad45	3.61861e-17	1.000000	3.61861e-17	1.000000
rad9	1.83183e-17	1.000000	1.83183e-17	1.000000
rad41	7.20381e-18	1.000000	7.20381e-18	1.000000
rad42	6.46195e-18	1.000000	6.46195e-18	1.000000
rad33	4.54086e-18	1.000000	4.54086e-18	1.000000
rad14	3.75408e-18	1.000000	3.75408e-18	1.000000
rad27	3.44280e-18	1.000000	3.44280e-18	1.000000
rad36	2.21534e-18	1.000000	2.21534e-18	1.000000
PhcycC3H3_B+H	1.96149e-18	1.000000	1.96149e-18	1.000000
rad65	1.92113e-18	1.000000	1.92113e-18	1.000000
rad25	1.70914e-18	1.000000	1.70914e-18	1.000000

rad22	1.51541e-18	1.00000	1.51541e-18	1.00000
Benzene+cycloprop-1-enylidene	9.59328e-21	1.00000	9.59328e-21	1.00000
rad15	9.33888e-21	1.00000	9.33888e-21	1.00000
rad31	1.15340e-22	1.00000	1.15340e-22	1.00000
rad53	4.33160e-23	1.00000	4.33160e-23	1.00000
rad20	2.72561e-23	1.00000	2.72561e-23	1.00000
rad21	1.89983e-23	1.00000	1.89983e-23	1.00000
rad5	1.20302e-23	1.00000	1.20302e-23	1.00000
rad18	3.93081e-24	1.00000	3.93081e-24	1.00000
rad64	5.66267e-25	1.00000	5.66267e-25	1.00000
rad24	3.30686e-25	1.00000	3.30686e-25	1.00000
rad12	8.77566e-26	1.00000	8.77566e-26	1.00000
rad19anti	1.07143e-26	1.00000	1.07143e-26	1.00000
rad47	1.01114e-26	1.00000	1.01114e-26	1.00000
rad61	8.61596e-30	1.00000	8.61596e-30	1.00000
rad56	1.69801e-32	1.00000	1.69801e-32	1.00000
rad68syn	2.35853e-34	1.00000	2.35853e-34	1.00000
rad68anti	1.98578e-34	1.00000	1.98578e-34	1.00000
rad19syn	5.56519e-40	1.00000	5.56519e-40	1.00000
rad73	1.38014e-42	1.00000	1.38014e-42	1.00000
rad40syn	2.57618e-43	1.00000	2.57618e-43	1.00000
rad40anti	2.09419e-43	1.00000	2.09419e-43	1.00000
PAH8+H	1.86610e-47	1.00000	1.86610e-47	1.00000
rad71	6.38736e-51	1.00000	6.38736e-51	1.00000
rad8	1.77645e-59	1.00000	1.77645e-59	1.00000

0.100000000 Pa, 90.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.74016e-16 (1.00)	7.74016e-16 (1.00)
Formation of rad19	7.74016e-16 (1.000)	7.74016e-16 (1.000)
H-abstraction to cyc2enyl	2.91736e-25 (3.77e-10)	2.91736e-25 (3.77e-10)
H-abstraction to cyclenyl	1.47814e-33 (1.91e-18)	1.47814e-33 (1.91e-18)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999742	0.999742	0.999742	0.999742
PhCHCCH2+H	0.000245673	0.999988	0.000245673	0.999988
PhCCH+CH3	4.27592e-06	0.999992	4.27592e-06	0.999992
C2H2+PhCH2	3.08955e-06	0.999995	3.08955e-06	0.999995
PhCCCH3+H	2.44127e-06	0.999997	2.44127e-06	0.999997
Ph+MeAc	1.85753e-06	0.999999	1.85753e-06	0.999999
rad67	5.59329e-07	1.000000	5.59329e-07	1.000000
rad35	2.46011e-07	1.000000	2.46011e-07	1.000000
Ph+Allene	1.64006e-07	1.000000	1.64006e-07	1.000000
PAH7+H	2.11183e-08	1.000000	2.11183e-08	1.000000
PhCH2CCH+H	2.05520e-08	1.000000	2.05520e-08	1.000000
rad39	5.95618e-09	1.000000	5.95618e-09	1.000000
rad37	5.74264e-09	1.000000	5.74264e-09	1.000000
rad30	4.60703e-09	1.000000	4.60703e-09	1.000000
rad6	3.30584e-09	1.000000	3.30584e-09	1.000000
Benzene+cycloprop-2-enylidene	3.76912e-10	1.000000	3.76912e-10	1.000000
PAH9+H	3.07108e-10	1.000000	3.07108e-10	1.000000
rad38	1.32181e-10	1.000000	1.32181e-10	1.000000
rad60syn	2.12851e-11	1.000000	2.12851e-11	1.000000
rad60anti	1.04504e-11	1.000000	1.04504e-11	1.000000
PAH3+H	9.15671e-12	1.000000	9.15671e-12	1.000000
PAH10+CH3	8.58494e-12	1.000000	8.58494e-12	1.000000
rad46	8.00521e-12	1.000000	8.00521e-12	1.000000
rad28	3.37055e-12	1.000000	3.37055e-12	1.000000
rad2	3.23341e-12	1.000000	3.23341e-12	1.000000
rad59	1.87728e-12	1.000000	1.87728e-12	1.000000
PhcycC3H3_A+H	1.23098e-12	1.000000	1.23098e-12	1.000000
rad26	4.61605e-13	1.000000	4.61605e-13	1.000000
rad7	3.83089e-13	1.000000	3.83089e-13	1.000000
rad43	3.81581e-13	1.000000	3.81581e-13	1.000000
rad54	2.90828e-13	1.000000	2.90828e-13	1.000000
rad1	2.06954e-13	1.000000	2.06954e-13	1.000000
rad10	2.00358e-13	1.000000	2.00358e-13	1.000000
rad11	1.06098e-13	1.000000	1.06098e-13	1.000000
rad62	8.16406e-14	1.000000	8.16406e-14	1.000000
rad50	5.80275e-14	1.000000	5.80275e-14	1.000000
rad3	2.48949e-14	1.000000	2.48949e-14	1.000000
rad4	1.26108e-14	1.000000	1.26108e-14	1.000000
rad70	5.06982e-15	1.000000	5.06982e-15	1.000000
rad55	2.20118e-15	1.000000	2.20118e-15	1.000000
Phenyl+cycC3H4	2.14284e-15	1.000000	0.000000	1.000000
rad13	1.39128e-15	1.000000	1.39128e-15	1.000000
PAH1+H	1.14788e-15	1.000000	1.14788e-15	1.000000

rad23	9.48556e-16	1.00000	9.48556e-16	1.00000
rad52	3.96373e-16	1.00000	3.96373e-16	1.00000
rad58	1.40187e-16	1.00000	1.40187e-16	1.00000
rad51	1.05919e-16	1.00000	1.05919e-16	1.00000
rad34	5.89059e-17	1.00000	5.89059e-17	1.00000
rad45	1.60138e-17	1.00000	1.60138e-17	1.00000
PhcycC3H3_B+H	1.04002e-17	1.00000	1.04002e-17	1.00000
rad41	8.94663e-18	1.00000	8.94663e-18	1.00000
rad9	8.83137e-18	1.00000	8.83137e-18	1.00000
rad42	7.83851e-18	1.00000	7.83851e-18	1.00000
rad33	2.52039e-18	1.00000	2.52039e-18	1.00000
rad65	2.18994e-18	1.00000	2.18994e-18	1.00000
rad14	2.04426e-18	1.00000	2.04426e-18	1.00000
Benzene+cycloprop-1-enylidene	1.90970e-18	1.00000	1.90970e-18	1.00000
rad27	1.88198e-18	1.00000	1.88198e-18	1.00000
rad36	9.80334e-19	1.00000	9.80334e-19	1.00000
rad25	9.43156e-19	1.00000	9.43156e-19	1.00000
rad22	6.67639e-19	1.00000	6.67639e-19	1.00000
rad15	4.46402e-21	1.00000	4.46402e-21	1.00000
rad53	1.94217e-22	1.00000	1.94217e-22	1.00000
rad31	6.43986e-23	1.00000	6.43986e-23	1.00000
rad20	1.48252e-23	1.00000	1.48252e-23	1.00000
rad21	1.03872e-23	1.00000	1.03872e-23	1.00000
rad5	5.19494e-24	1.00000	5.19494e-24	1.00000
rad64	4.21194e-24	1.00000	4.21194e-24	1.00000
rad18	1.85959e-24	1.00000	1.85959e-24	1.00000
rad24	1.48703e-25	1.00000	1.48703e-25	1.00000
rad12	4.25450e-26	1.00000	4.25450e-26	1.00000
rad47	8.99839e-27	1.00000	8.99839e-27	1.00000
rad19anti	5.19080e-27	1.00000	5.19080e-27	1.00000
rad61	4.07780e-28	1.00000	4.07780e-28	1.00000
rad56	1.34938e-30	1.00000	1.34938e-30	1.00000
rad68syn	2.97786e-32	1.00000	2.97786e-32	1.00000
rad68anti	2.47145e-32	1.00000	2.47145e-32	1.00000
rad73	1.67432e-39	1.00000	1.67432e-39	1.00000
rad19syn	1.05530e-39	1.00000	1.05530e-39	1.00000
rad40syn	5.48052e-41	1.00000	5.48052e-41	1.00000
rad40anti	4.44030e-41	1.00000	4.44030e-41	1.00000
PAH8+H	4.54832e-45	1.00000	4.54832e-45	1.00000
rad71	1.63528e-48	1.00000	1.63528e-48	1.00000
rad8	1.43184e-59	1.00000	1.43184e-59	1.00000

0.100000000 Pa, 100.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.28255e-15 (1.00)	1.28255e-15 (1.00)
Formation of rad19	1.28255e-15 (1.000)	1.28255e-15 (1.000)
H-abstraction to cyc2enyl	4.68359e-24 (3.65e-09)	4.68359e-24 (3.65e-09)
H-abstraction to cyclenyl	1.66242e-31 (1.30e-16)	1.66242e-31 (1.30e-16)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999735	0.999735	0.999735	0.999735
PhCHCCH2+H	0.000251752	0.999987	0.000251752	0.999987
PhCCH+CH3	4.39217e-06	0.999991	4.39217e-06	0.999991
C2H2+PhCH2	3.19402e-06	0.999994	3.19402e-06	0.999994
PhCCCH3+H	2.51335e-06	0.999997	2.51335e-06	0.999997
Ph+MeAc	1.92506e-06	0.999999	1.92506e-06	0.999999
rad67	5.78497e-07	0.999999	5.78497e-07	0.999999
rad35	2.54090e-07	1.000000	2.54090e-07	1.000000
Ph+Allene	1.72981e-07	1.000000	1.72981e-07	1.000000
PAH7+H	2.21062e-08	1.000000	2.21062e-08	1.000000
PhCH2CCH+H	2.18658e-08	1.000000	2.18658e-08	1.000000
rad39	6.23578e-09	1.000000	6.23578e-09	1.000000
rad37	5.99832e-09	1.000000	5.99832e-09	1.000000
rad30	4.76336e-09	1.000000	4.76336e-09	1.000000
Benzene+cycloprop-2-enylidene	3.65179e-09	1.000000	3.65179e-09	1.000000
rad6	1.91810e-09	1.000000	1.91810e-09	1.000000
PAH9+H	3.21656e-10	1.000000	3.21656e-10	1.000000
rad38	1.39006e-10	1.000000	1.39006e-10	1.000000
rad60syn	2.23067e-11	1.000000	2.23067e-11	1.000000
rad60anti	1.09652e-11	1.000000	1.09652e-11	1.000000
PAH3+H	9.75979e-12	1.000000	9.75979e-12	1.000000
PAH10+CH3	9.39453e-12	1.000000	9.39453e-12	1.000000
rad46	8.45867e-12	1.000000	8.45867e-12	1.000000
rad59	1.99581e-12	1.000000	1.99581e-12	1.000000
rad28	1.94144e-12	1.000000	1.94144e-12	1.000000
rad2	1.85840e-12	1.000000	1.85840e-12	1.000000
PhcycC3H3_A+H	1.51204e-12	1.000000	1.51204e-12	1.000000

rad43	4.13279e-13	1.000000	4.13279e-13	1.000000
rad54	3.21563e-13	1.000000	3.21563e-13	1.000000
rad26	2.67184e-13	1.000000	2.67184e-13	1.000000
rad7	2.19477e-13	1.000000	2.19477e-13	1.000000
rad1	1.19331e-13	1.000000	1.19331e-13	1.000000
rad10	1.14571e-13	1.000000	1.14571e-13	1.000000
rad62	8.88129e-14	1.000000	8.88129e-14	1.000000
rad50	6.29296e-14	1.000000	6.29296e-14	1.000000
rad11	6.05401e-14	1.000000	6.05401e-14	1.000000
rad3	1.42063e-14	1.000000	1.42063e-14	1.000000
rad4	7.20199e-15	1.000000	7.20199e-15	1.000000
rad70	5.76655e-15	1.000000	5.76655e-15	1.000000
Phenyl+cycC3H4	3.36905e-15	1.000000	0.00000	1.000000
rad55	2.51099e-15	1.000000	2.51099e-15	1.000000
PAH1+H	1.36183e-15	1.000000	1.36183e-15	1.000000
rad13	8.05990e-16	1.000000	8.05990e-16	1.000000
rad23	4.59310e-16	1.000000	4.59310e-16	1.000000
rad52	4.38296e-16	1.000000	4.38296e-16	1.000000
rad58	1.59501e-16	1.000000	1.59501e-16	1.000000
Benzene+cycloprop-1-enylidene	1.29619e-16	1.000000	1.29619e-16	1.000000
rad51	1.19901e-16	1.000000	1.19901e-16	1.000000
rad34	7.04154e-17	1.000000	7.04154e-17	1.000000
PhcycC3H3_B+H	4.09117e-17	1.000000	4.09117e-17	1.000000
rad41	1.11764e-17	1.000000	1.11764e-17	1.000000
rad42	9.56999e-18	1.000000	9.56999e-18	1.000000
rad45	7.62569e-18	1.000000	7.62569e-18	1.000000
rad9	4.78611e-18	1.000000	4.78611e-18	1.000000
rad65	2.50761e-18	1.000000	2.50761e-18	1.000000
rad33	1.46693e-18	1.000000	1.46693e-18	1.000000
rad14	1.17011e-18	1.000000	1.17011e-18	1.000000
rad27	1.08063e-18	1.000000	1.08063e-18	1.000000
rad25	5.46275e-19	1.000000	5.46275e-19	1.000000
rad36	4.66887e-19	1.000000	4.66887e-19	1.000000
rad22	3.16907e-19	1.000000	3.16907e-19	1.000000
rad15	2.40188e-21	1.000000	2.40188e-21	1.000000
rad53	6.79906e-22	1.000000	6.79906e-22	1.000000
rad31	3.78235e-23	1.000000	3.78235e-23	1.000000
rad64	2.26904e-23	1.000000	2.26904e-23	1.000000
rad20	8.58041e-24	1.000000	8.58041e-24	1.000000
rad21	6.04051e-24	1.000000	6.04051e-24	1.000000
rad5	2.44557e-24	1.000000	2.44557e-24	1.000000
rad18	9.52431e-25	1.000000	9.52431e-25	1.000000
rad24	7.18905e-26	1.000000	7.18905e-26	1.000000
rad12	2.31962e-26	1.000000	2.31962e-26	1.000000
rad61	9.04759e-27	1.000000	9.04759e-27	1.000000
rad47	8.19295e-27	1.000000	8.19295e-27	1.000000
rad19anti	2.83197e-27	1.000000	2.83197e-27	1.000000
rad56	5.01427e-29	1.000000	5.01427e-29	1.000000
rad68syn	1.55245e-30	1.000000	1.55245e-30	1.000000
rad68anti	1.27470e-30	1.000000	1.27470e-30	1.000000
rad40syn	1.99962e-36	1.000000	1.99962e-36	1.000000
rad40anti	1.52242e-36	1.000000	1.52242e-36	1.000000
rad73	7.58199e-37	1.000000	7.58199e-37	1.000000
rad19syn	2.08907e-39	1.000000	2.08907e-39	1.000000
PAH8+H	2.30341e-42	1.000000	2.30341e-42	1.000000
rad71	9.84188e-46	1.000000	9.84188e-46	1.000000
rad8	1.26087e-59	1.000000	1.26087e-59	1.000000

0.100000000 Pa, 110.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.95524e-15 (1.00)	1.95524e-15 (1.00)
Formation of rad19	1.95524e-15 (1.000)	1.95524e-15 (1.000)
H-abstraction to cyc2enyl	4.50936e-23 (2.31e-08)	4.50936e-23 (2.31e-08)
H-abstraction to cyclenyl	7.87782e-30 (4.03e-15)	7.87782e-30 (4.03e-15)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999728	0.999728	0.999728	0.999728
PhCHCCH2+H	0.000258254	0.999986	0.000258254	0.999986
PhCCH+CH3	4.51603e-06	0.999991	4.51603e-06	0.999991
C2H2+PhCH2	3.30563e-06	0.999994	3.30563e-06	0.999994
PhCCCH3+H	2.59074e-06	0.999997	2.59074e-06	0.999997
Ph+MeAc	1.99802e-06	0.999999	1.99802e-06	0.999999
rad67	5.99209e-07	0.999999	5.99209e-07	0.999999
rad35	2.62806e-07	1.000000	2.62806e-07	1.000000
Ph+Allene	1.82664e-07	1.000000	1.82664e-07	1.000000
PhCH2CCH+H	2.32978e-08	1.000000	2.32978e-08	1.000000
PAH7+H	2.31615e-08	1.000000	2.31615e-08	1.000000

Benzene+cycloprop-2-enylidene	2.30629e-08	1.000000	2.30629e-08	1.000000
rad39	6.53428e-09	1.000000	6.53428e-09	1.000000
rad37	6.27761e-09	1.000000	6.27761e-09	1.000000
rad30	4.93215e-09	1.000000	4.93215e-09	1.000000
rad6	1.15712e-09	1.000000	1.15712e-09	1.000000
PAH9+H	3.37373e-10	1.000000	3.37373e-10	1.000000
rad38	1.46440e-10	1.000000	1.46440e-10	1.000000
rad60syn	2.34274e-11	1.000000	2.34274e-11	1.000000
rad60anti	1.15307e-11	1.000000	1.15307e-11	1.000000
PAH3+H	1.04347e-11	1.000000	1.04347e-11	1.000000
PAH10+CH3	1.03268e-11	1.000000	1.03268e-11	1.000000
rad46	8.95291e-12	1.000000	8.95291e-12	1.000000
rad59	2.12801e-12	1.000000	2.12801e-12	1.000000
PhcycC3H3_A+H	1.87002e-12	1.000000	1.87002e-12	1.000000
rad28	1.16380e-12	1.000000	1.16380e-12	1.000000
rad2	1.11151e-12	1.000000	1.11151e-12	1.000000
rad43	4.49263e-13	1.000000	4.49263e-13	1.000000
rad54	3.56407e-13	1.000000	3.56407e-13	1.000000
rad26	1.60797e-13	1.000000	1.60797e-13	1.000000
rad7	1.30951e-13	1.000000	1.30951e-13	1.000000
rad62	9.69425e-14	1.000000	9.69425e-14	1.000000
rad1	7.16246e-14	1.000000	7.16246e-14	1.000000
rad50	6.84350e-14	1.000000	6.84350e-14	1.000000
rad10	6.82236e-14	1.000000	6.82236e-14	1.000000
rad11	3.59955e-14	1.000000	3.59955e-14	1.000000
rad3	8.44515e-15	1.000000	8.44515e-15	1.000000
rad70	6.58478e-15	1.000000	6.58478e-15	1.000000
Phenyl+cycC3H4	5.18630e-15	1.000000	0.00000	1.000000
rad4	4.28506e-15	1.000000	4.28506e-15	1.000000
Benzene+cycloprop-1-enylidene	4.02908e-15	1.000000	4.02908e-15	1.000000
rad55	2.87442e-15	1.000000	2.87442e-15	1.000000
PAH1+H	1.62598e-15	1.000000	1.62598e-15	1.000000
rad52	4.86466e-16	1.000000	4.86466e-16	1.000000
rad13	4.85864e-16	1.000000	4.85864e-16	1.000000
rad23	2.35590e-16	1.000000	2.35590e-16	1.000000
rad58	1.82702e-16	1.000000	1.82702e-16	1.000000
rad51	1.36407e-16	1.000000	1.36407e-16	1.000000
PhcycC3H3_B+H	1.30405e-16	1.000000	1.30405e-16	1.000000
rad34	8.46521e-17	1.000000	8.46521e-17	1.000000
rad41	1.40528e-17	1.000000	1.40528e-17	1.000000
rad42	1.17624e-17	1.000000	1.17624e-17	1.000000
rad45	3.85510e-18	1.000000	3.85510e-18	1.000000
rad65	2.88723e-18	1.000000	2.88723e-18	1.000000
rad9	2.84641e-18	1.000000	2.84641e-18	1.000000
rad33	8.87946e-19	1.000000	8.87946e-19	1.000000
rad14	6.97844e-19	1.000000	6.97844e-19	1.000000
rad27	6.46197e-19	1.000000	6.46197e-19	1.000000
rad25	3.29280e-19	1.000000	3.29280e-19	1.000000
rad36	2.36102e-19	1.000000	2.36102e-19	1.000000
rad22	1.59827e-19	1.000000	1.59827e-19	1.000000
rad53	1.97087e-21	1.000000	1.97087e-21	1.000000
rad15	1.41967e-21	1.000000	1.41967e-21	1.000000
rad64	9.43936e-23	1.000000	9.43936e-23	1.000000
rad31	2.31745e-23	1.000000	2.31745e-23	1.000000
rad20	5.22308e-24	1.000000	5.22308e-24	1.000000
rad21	3.69346e-24	1.000000	3.69346e-24	1.000000
rad5	1.23457e-24	1.000000	1.23457e-24	1.000000
rad18	5.19979e-25	1.000000	5.19979e-25	1.000000
rad61	1.15843e-25	1.000000	1.15843e-25	1.000000
rad24	3.68724e-26	1.000000	3.68724e-26	1.000000
rad12	1.38844e-26	1.000000	1.38844e-26	1.000000
rad47	7.60533e-27	1.000000	7.60533e-27	1.000000
rad19anti	1.70079e-27	1.000000	1.70079e-27	1.000000
rad56	9.94353e-28	1.000000	9.94353e-28	1.000000
rad68syn	4.00649e-29	1.000000	4.00649e-29	1.000000
rad68anti	3.26356e-29	1.000000	3.26356e-29	1.000000
rad40syn	3.23299e-34	1.000000	3.23299e-34	1.000000
rad40anti	2.54450e-34	1.000000	2.54450e-34	1.000000
rad73	5.46632e-35	1.000000	5.46632e-35	1.000000
rad19syn	4.31565e-39	1.000000	4.31565e-39	1.000000
PAH8+H	1.08508e-39	1.000000	1.08508e-39	1.000000
rad71	5.55600e-43	1.000000	5.55600e-43	1.000000
rad8	1.20596e-59	1.000000	1.20596e-59	1.000000

0.100000000 Pa, 120.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.79817e-15 (1.00)	2.79817e-15 (1.00)
Formation of rad19	2.79817e-15 (1.000)	2.79817e-15 (1.000)

H-abstraction to cyc2enyl | 2.96039e-22 (1.06e-07) 2.96039e-22 (1.06e-07)
H-abstraction to cyclenyl | 1.95323e-28 (6.98e-14) 1.95323e-28 (6.98e-14)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999721	0.999721	0.999721	0.999721
PhCHCCH2+H	0.000265218	0.999986	0.000265218	0.999986
PhCCH+CH3	4.64834e-06	0.999991	4.64834e-06	0.999991
C2H2+PhCH2	3.42543e-06	0.999994	3.42543e-06	0.999994
PhCCCH3+H	2.67398e-06	0.999997	2.67398e-06	0.999997
Ph+MeAc	2.07707e-06	0.999999	2.07707e-06	0.999999
rad67	6.21635e-07	1.000000	6.21635e-07	1.000000
rad35	2.72229e-07	1.000000	2.72229e-07	1.000000
Ph+Allene	1.93204e-07	1.000000	1.93204e-07	1.000000
Benzene+cycloprop-2-enylidene	1.05797e-07	1.000000	1.05797e-07	1.000000
PhCH2CCH+H	2.48726e-08	1.000000	2.48726e-08	1.000000
PAH7+H	2.42987e-08	1.000000	2.42987e-08	1.000000
rad39	6.85576e-09	1.000000	6.85576e-09	1.000000
rad37	6.58355e-09	1.000000	6.58355e-09	1.000000
rad30	5.11486e-09	1.000000	5.11486e-09	1.000000
rad6	7.21222e-10	1.000000	7.21222e-10	1.000000
PAH9+H	3.54470e-10	1.000000	3.54470e-10	1.000000
rad38	1.54590e-10	1.000000	1.54590e-10	1.000000
rad60syn	2.46610e-11	1.000000	2.46610e-11	1.000000
rad60anti	1.21541e-11	1.000000	1.21541e-11	1.000000
PAH10+CH3	1.14065e-11	1.000000	1.14065e-11	1.000000
PAH3+H	1.11933e-11	1.000000	1.11933e-11	1.000000
rad46	9.49573e-12	1.000000	9.49573e-12	1.000000
PhcycC3H3_A+H	2.32907e-12	1.000000	2.32907e-12	1.000000
rad59	2.27612e-12	1.000000	2.27612e-12	1.000000
rad28	7.21346e-13	1.000000	7.21346e-13	1.000000
rad2	6.87380e-13	1.000000	6.87380e-13	1.000000
rad43	4.90316e-13	1.000000	4.90316e-13	1.000000
rad54	3.96331e-13	1.000000	3.96331e-13	1.000000
rad62	1.06211e-13	1.000000	1.06211e-13	1.000000
rad26	9.99908e-14	1.000000	9.99908e-14	1.000000
rad7	8.08307e-14	1.000000	8.08307e-14	1.000000
rad50	7.46737e-14	1.000000	7.46737e-14	1.000000
Benzene+cycloprop-1-enylidene	6.98038e-14	1.000000	6.98038e-14	1.000000
rad1	4.44655e-14	1.000000	4.44655e-14	1.000000
rad10	4.20283e-14	1.000000	4.20283e-14	1.000000
rad11	2.21512e-14	1.000000	2.21512e-14	1.000000
Phenyl+cycC3H4	7.86468e-15	1.000000	0.000000	1.000000
rad70	7.55597e-15	1.000000	7.55597e-15	1.000000
rad3	5.19523e-15	1.000000	5.19523e-15	1.000000
rad55	3.30554e-15	1.000000	3.30554e-15	1.000000
rad4	2.63862e-15	1.000000	2.63862e-15	1.000000
PAH1+H	1.95556e-15	1.000000	1.95556e-15	1.000000
rad52	5.42359e-16	1.000000	5.42359e-16	1.000000
PhcycC3H3_B+H	3.56801e-16	1.000000	3.56801e-16	1.000000
rad13	3.02805e-16	1.000000	3.02805e-16	1.000000
rad58	2.10796e-16	1.000000	2.10796e-16	1.000000
rad51	1.56105e-16	1.000000	1.56105e-16	1.000000
rad23	1.26773e-16	1.000000	1.26773e-16	1.000000
rad34	1.02461e-16	1.000000	1.02461e-16	1.000000
rad41	1.77971e-17	1.000000	1.77971e-17	1.000000
rad42	1.45594e-17	1.000000	1.45594e-17	1.000000
rad65	3.34587e-18	1.000000	3.34587e-18	1.000000
rad45	2.04828e-18	1.000000	2.04828e-18	1.000000
rad9	1.82625e-18	1.000000	1.82625e-18	1.000000
rad33	5.55463e-19	1.000000	5.55463e-19	1.000000
rad14	4.30743e-19	1.000000	4.30743e-19	1.000000
rad27	3.99780e-19	1.000000	3.99780e-19	1.000000
rad25	2.05223e-19	1.000000	2.05223e-19	1.000000
rad36	1.25507e-19	1.000000	1.25507e-19	1.000000
rad22	8.47622e-20	1.000000	8.47622e-20	1.000000
rad53	4.97218e-21	1.000000	4.97218e-21	1.000000
rad15	9.06006e-22	1.000000	9.06006e-22	1.000000
rad64	3.22665e-22	1.000000	3.22665e-22	1.000000
rad31	1.47188e-23	1.000000	1.47188e-23	1.000000
rad20	3.31531e-24	1.000000	3.31531e-24	1.000000
rad21	2.35440e-24	1.000000	2.35440e-24	1.000000
rad61	9.87529e-25	1.000000	9.87529e-25	1.000000
rad5	6.60296e-25	1.000000	6.60296e-25	1.000000
rad18	2.99186e-25	1.000000	2.99186e-25	1.000000
rad24	1.98655e-26	1.000000	1.98655e-26	1.000000
rad56	1.22150e-26	1.000000	1.22150e-26	1.000000
rad12	8.96945e-27	1.000000	8.96945e-27	1.000000
rad47	7.18068e-27	1.000000	7.18068e-27	1.000000
rad19anti	1.10981e-27	1.000000	1.10981e-27	1.000000

rad68syn	6.07796e-28	1.00000	6.07796e-28	1.00000
rad68anti	4.91955e-28	1.00000	4.91955e-28	1.00000
rad40syn	1.64488e-32	1.00000	1.64488e-32	1.00000
rad40anti	1.29360e-32	1.00000	1.29360e-32	1.00000
rad73	1.91061e-33	1.00000	1.91061e-33	1.00000
PAH8+H	4.13367e-35	1.00000	4.13367e-35	1.00000
rad71	1.32110e-38	1.00000	1.32110e-38	1.00000
rad19syn	9.31466e-39	1.00000	9.31466e-39	1.00000
rad8	1.24801e-59	1.00000	1.24801e-59	1.00000

0.100000000 Pa, 130.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.81236e-15 (1.00)	3.81236e-15 (1.00)
Formation of rad19	3.81236e-15 (1.000)	3.81236e-15 (1.000)
H-abstraction to cyc2enyl	1.44825e-21 (3.80e-07)	1.44825e-21 (3.80e-07)
H-abstraction to cyclenyl	2.94348e-27 (7.72e-13)	2.94348e-27 (7.72e-13)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999713	0.999713	0.999713	0.999713
PhCHCCH2+H	0.000272694	0.999985	0.000272694	0.999985
PhCCH+CH3	4.79006e-06	0.999990	4.79006e-06	0.999990
C2H2+PhCH2	3.55462e-06	0.999994	3.55462e-06	0.999994
PhCCCH3+H	2.76373e-06	0.999996	2.76373e-06	0.999996
Ph+MeAc	2.16295e-06	0.999999	2.16295e-06	0.999999
rad67	6.45982e-07	0.999999	6.45982e-07	0.999999
Benzene+cycloprop-2-enylidene	3.79882e-07	1.000000	3.79882e-07	1.000000
rad35	2.82442e-07	1.000000	2.82442e-07	1.000000
Ph+Allene	2.04763e-07	1.000000	2.04763e-07	1.000000
PhCH2CCH+H	2.66179e-08	1.000000	2.66179e-08	1.000000
PAH7+H	2.55330e-08	1.000000	2.55330e-08	1.000000
rad39	7.20453e-09	1.000000	7.20453e-09	1.000000
rad37	6.91989e-09	1.000000	6.91989e-09	1.000000
rad30	5.31326e-09	1.000000	5.31326e-09	1.000000
rad6	4.62169e-10	1.000000	4.62169e-10	1.000000
PAH9+H	3.73185e-10	1.000000	3.73185e-10	1.000000
rad38	1.63582e-10	1.000000	1.63582e-10	1.000000
rad60syn	2.60244e-11	1.000000	2.60244e-11	1.000000
rad60anti	1.28442e-11	1.000000	1.28442e-11	1.000000
PAH10+CH3	1.26652e-11	1.000000	1.26652e-11	1.000000
PAH3+H	1.20507e-11	1.000000	1.20507e-11	1.000000
rad46	1.00961e-11	1.000000	1.00961e-11	1.000000
PhcycC3H3_A+H	2.92209e-12	1.000000	2.92209e-12	1.000000
rad59	2.44287e-12	1.000000	2.44287e-12	1.000000
Benzene+cycloprop-1-enylidene	7.72089e-13	1.000000	7.72089e-13	1.000000
rad43	5.37416e-13	1.000000	5.37416e-13	1.000000
rad28	4.59952e-13	1.000000	4.59952e-13	1.000000
rad54	4.42525e-13	1.000000	4.42525e-13	1.000000
rad2	4.37317e-13	1.000000	4.37317e-13	1.000000
rad62	1.16842e-13	1.000000	1.16842e-13	1.000000
rad50	8.18042e-14	1.000000	8.18042e-14	1.000000
rad26	6.39314e-14	1.000000	6.39314e-14	1.000000
rad7	5.13503e-14	1.000000	5.13503e-14	1.000000
rad1	2.84088e-14	1.000000	2.84088e-14	1.000000
rad10	2.66478e-14	1.000000	2.66478e-14	1.000000
rad11	1.40346e-14	1.000000	1.40346e-14	1.000000
Phenyl+cycC3H4	1.18041e-14	1.000000	0.000000	1.000000
rad70	8.72057e-15	1.000000	8.72057e-15	1.000000
rad55	3.82234e-15	1.000000	3.82234e-15	1.000000
rad3	3.29015e-15	1.000000	3.29015e-15	1.000000
PAH1+H	2.37115e-15	1.000000	2.37115e-15	1.000000
rad4	1.67284e-15	1.000000	1.67284e-15	1.000000
PhcycC3H3_B+H	8.71396e-16	1.000000	8.71396e-16	1.000000
rad52	6.07835e-16	1.000000	6.07835e-16	1.000000
rad58	2.45115e-16	1.000000	2.45115e-16	1.000000
rad13	1.94122e-16	1.000000	1.94122e-16	1.000000
rad51	1.79867e-16	1.000000	1.79867e-16	1.000000
rad34	1.24987e-16	1.000000	1.24987e-16	1.000000
rad23	7.10386e-17	1.000000	7.10386e-17	1.000000
rad41	2.27155e-17	1.000000	2.27155e-17	1.000000
rad42	1.81563e-17	1.000000	1.81563e-17	1.000000
rad65	3.90614e-18	1.000000	3.90614e-18	1.000000
rad9	1.24837e-18	1.000000	1.24837e-18	1.000000
rad45	1.13495e-18	1.000000	1.13495e-18	1.000000
rad33	3.57324e-19	1.000000	3.57324e-19	1.000000
rad14	2.73735e-19	1.000000	2.73735e-19	1.000000
rad27	2.54572e-19	1.000000	2.54572e-19	1.000000
rad25	1.31579e-19	1.000000	1.31579e-19	1.000000

rad36	6.95921e-20	1.00000	6.95921e-20	1.00000
rad22	4.68976e-20	1.00000	4.68976e-20	1.00000
rad53	1.13289e-20	1.00000	1.13289e-20	1.00000
rad64	9.50400e-22	1.00000	9.50400e-22	1.00000
rad15	6.16435e-22	1.00000	6.16435e-22	1.00000
rad31	9.64314e-24	1.00000	9.64314e-24	1.00000
rad61	6.18971e-24	1.00000	6.18971e-24	1.00000
rad20	2.18001e-24	1.00000	2.18001e-24	1.00000
rad21	1.55453e-24	1.00000	1.55453e-24	1.00000
rad5	3.70746e-25	1.00000	3.70746e-25	1.00000
rad18	1.79875e-25	1.00000	1.79875e-25	1.00000
rad56	1.03952e-25	1.00000	1.03952e-25	1.00000
rad24	1.11573e-26	1.00000	1.11573e-26	1.00000
rad47	6.88457e-27	1.00000	6.88457e-27	1.00000
rad12	6.17606e-27	1.00000	6.17606e-27	1.00000
rad68syn	6.14207e-27	1.00000	6.14207e-27	1.00000
rad68anti	4.94436e-27	1.00000	4.94436e-27	1.00000
rad19anti	7.85949e-28	1.00000	7.85949e-28	1.00000
rad40syn	4.43220e-31	1.00000	4.43220e-31	1.00000
rad40anti	3.49015e-31	1.00000	3.49015e-31	1.00000
rad73	3.94318e-32	1.00000	3.94318e-32	1.00000
PAH8+H	2.25534e-33	1.00000	2.25534e-33	1.00000
rad71	1.11858e-36	1.00000	1.11858e-36	1.00000
rad19syn	2.10397e-38	1.00000	2.10397e-38	1.00000
rad8	1.39257e-59	1.00000	1.39257e-59	1.00000

0.100000000 Pa, 140.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.99515e-15 (1.00)	4.99515e-15 (1.00)
Formation of rad19	4.99514e-15 (1.000)	4.99514e-15 (1.000)
H-abstraction to cyc2enyl	5.62488e-21 (1.13e-06)	5.62488e-21 (1.13e-06)
H-abstraction to cyclenyl	3.00047e-26 (6.01e-12)	3.00047e-26 (6.01e-12)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999703	0.999703	0.999703	0.999703
PhCHCCH2+H	0.000280742	0.999984	0.000280742	0.999984
PhCCH+CH3	4.94230e-06	0.999989	4.94230e-06	0.999989
C2H2+PhCH2	3.69454e-06	0.999992	3.69454e-06	0.999992
PhCCCH3+H	2.86077e-06	0.999995	2.86077e-06	0.999995
Ph+MeAc	2.25656e-06	0.999997	2.25656e-06	0.999997
Benzene+cycloprop-2-enylidene	1.12607e-06	0.999998	1.12607e-06	0.999998
rad67	6.72497e-07	0.999999	6.72497e-07	0.999999
rad35	2.93546e-07	0.999999	2.93546e-07	0.999999
Ph+Allene	2.17522e-07	1.000000	2.17522e-07	1.000000
PhCH2CCH+H	2.85662e-08	1.000000	2.85662e-08	1.000000
PAH7+H	2.68814e-08	1.000000	2.68814e-08	1.000000
rad39	7.58531e-09	1.000000	7.58531e-09	1.000000
rad37	7.29106e-09	1.000000	7.29106e-09	1.000000
rad30	5.52942e-09	1.000000	5.52942e-09	1.000000
PAH9+H	3.93790e-10	1.000000	3.93790e-10	1.000000
rad6	3.03283e-10	1.000000	3.03283e-10	1.000000
rad38	1.73563e-10	1.000000	1.73563e-10	1.000000
rad60syn	2.75379e-11	1.000000	2.75379e-11	1.000000
PAH10+CH3	1.41426e-11	1.000000	1.41426e-11	1.000000
rad60anti	1.36115e-11	1.000000	1.36115e-11	1.000000
PAH3+H	1.30249e-11	1.000000	1.30249e-11	1.000000
rad46	1.07644e-11	1.000000	1.07644e-11	1.000000
Benzene+cycloprop-1-enylidene	6.00677e-12	1.000000	6.00677e-12	1.000000
PhcycC3H3_A+H	3.69385e-12	1.000000	3.69385e-12	1.000000
rad59	2.63163e-12	1.000000	2.63163e-12	1.000000
rad43	5.91777e-13	1.000000	5.91777e-13	1.000000
rad54	4.96462e-13	1.000000	4.96462e-13	1.000000
rad28	3.00479e-13	1.000000	3.00479e-13	1.000000
rad2	2.85071e-13	1.000000	2.85071e-13	1.000000
rad62	1.29113e-13	1.000000	1.29113e-13	1.000000
rad50	9.00211e-14	1.000000	9.00211e-14	1.000000
rad26	4.18621e-14	1.000000	4.18621e-14	1.000000
rad7	3.34353e-14	1.000000	3.34353e-14	1.000000
rad1	1.86040e-14	1.000000	1.86040e-14	1.000000
Phenyl+cycC3H4	1.75978e-14	1.000000	0.000000	1.000000
rad10	1.73182e-14	1.000000	1.73182e-14	1.000000
rad70	1.01309e-14	1.000000	1.01309e-14	1.000000
rad11	9.11641e-15	1.000000	9.11641e-15	1.000000
rad55	4.44807e-15	1.000000	4.44807e-15	1.000000
PAH1+H	2.90065e-15	1.000000	2.90065e-15	1.000000
rad3	2.13615e-15	1.000000	2.13615e-15	1.000000
PhcycC3H3_B+H	1.95206e-15	1.000000	1.95206e-15	1.000000

rad4	1.08739e-15	1.000000	1.08739e-15	1.000000
rad52	6.85263e-16	1.000000	6.85263e-16	1.000000
rad58	2.87425e-16	1.000000	2.87425e-16	1.000000
rad51	2.08838e-16	1.000000	2.08838e-16	1.000000
rad34	1.53787e-16	1.000000	1.53787e-16	1.000000
rad13	1.27494e-16	1.000000	1.27494e-16	1.000000
rad23	4.12107e-17	1.000000	4.12107e-17	1.000000
rad41	2.92336e-17	1.000000	2.92336e-17	1.000000
rad42	2.28182e-17	1.000000	2.28182e-17	1.000000
rad65	4.59805e-18	1.000000	4.59805e-18	1.000000
rad9	9.00704e-19	1.000000	9.00704e-19	1.000000
rad45	6.51855e-19	1.000000	6.51855e-19	1.000000
rad33	2.35441e-19	1.000000	2.35441e-19	1.000000
rad14	1.78352e-19	1.000000	1.78352e-19	1.000000
rad27	1.66166e-19	1.000000	1.66166e-19	1.000000
rad25	8.64327e-20	1.000000	8.64327e-20	1.000000
rad36	4.00073e-20	1.000000	4.00073e-20	1.000000
rad22	2.69027e-20	1.000000	2.69027e-20	1.000000
rad53	2.39428e-20	1.000000	2.39428e-20	1.000000
rad64	2.49804e-21	1.000000	2.49804e-21	1.000000
rad15	4.42937e-22	1.000000	4.42937e-22	1.000000
rad61	3.06112e-23	1.000000	3.06112e-23	1.000000
rad31	6.49191e-24	1.000000	6.49191e-24	1.000000
rad20	1.47744e-24	1.000000	1.47744e-24	1.000000
rad21	1.05778e-24	1.000000	1.05778e-24	1.000000
rad56	6.65133e-25	1.000000	6.65133e-25	1.000000
rad5	2.17000e-25	1.000000	2.17000e-25	1.000000
rad18	1.12249e-25	1.000000	1.12249e-25	1.000000
rad68syn	4.52726e-26	1.000000	4.52726e-26	1.000000
rad68anti	3.62590e-26	1.000000	3.62590e-26	1.000000
rad47	6.69540e-27	1.000000	6.69540e-27	1.000000
rad24	6.49339e-27	1.000000	6.49339e-27	1.000000
rad12	4.49056e-27	1.000000	4.49056e-27	1.000000
rad19anti	6.17063e-28	1.000000	6.17063e-28	1.000000
rad40syn	7.52882e-30	1.000000	7.52882e-30	1.000000
rad40anti	5.94710e-30	1.000000	5.94710e-30	1.000000
rad73	5.43424e-31	1.000000	5.43424e-31	1.000000
PAH8+H	6.67136e-32	1.000000	6.67136e-32	1.000000
rad71	4.15236e-35	1.000000	4.15236e-35	1.000000
rad19syn	4.98181e-38	1.000000	4.98181e-38	1.000000
rad8	1.66817e-59	1.000000	1.66817e-59	1.000000

0.100000000 Pa, 150.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.34137e-15 (1.00)	6.34137e-15 (1.00)
Formation of rad19	6.34135e-15 (1.000)	6.34135e-15 (1.000)
H-abstraction to cyc2enyl	1.81685e-20 (2.87e-06)	1.81685e-20 (2.87e-06)
H-abstraction to cyclenyl	2.23765e-25 (3.53e-11)	2.23765e-25 (3.53e-11)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999692	0.999692	0.999692	0.999692
PhCHCCH2+H	0.000289426	0.999982	0.000289426	0.999982
PhCCH+CH3	5.10632e-06	0.999987	5.10632e-06	0.999987
C2H2+PhCH2	3.84665e-06	0.999991	3.84665e-06	0.999991
PhCCCH3+H	2.96598e-06	0.999993	2.96598e-06	0.999993
Benzene+cycloprop-2-enylidene	2.86508e-06	0.999996	2.86508e-06	0.999996
Ph+MeAc	2.35894e-06	0.999999	2.35894e-06	0.999999
rad67	7.01467e-07	0.999999	7.01467e-07	0.999999
rad35	3.05655e-07	1.000000	3.05655e-07	1.000000
Ph+Allene	2.31693e-07	1.000000	2.31693e-07	1.000000
PhCH2CCH+H	3.07551e-08	1.000000	3.07551e-08	1.000000
PAH7+H	2.83626e-08	1.000000	2.83626e-08	1.000000
rad39	8.00339e-09	1.000000	8.00339e-09	1.000000
rad37	7.70232e-09	1.000000	7.70232e-09	1.000000
rad30	5.76576e-09	1.000000	5.76576e-09	1.000000
PAH9+H	4.16598e-10	1.000000	4.16598e-10	1.000000
rad6	2.03142e-10	1.000000	2.03142e-10	1.000000
rad38	1.84704e-10	1.000000	1.84704e-10	1.000000
Benzene+cycloprop-1-enylidene	3.52865e-11	1.000000	3.52865e-11	1.000000
rad60syn	2.92253e-11	1.000000	2.92253e-11	1.000000
PAH10+CH3	1.58889e-11	1.000000	1.58889e-11	1.000000
rad60anti	1.44685e-11	1.000000	1.44685e-11	1.000000
PAH3+H	1.41383e-11	1.000000	1.41383e-11	1.000000
rad46	1.15129e-11	1.000000	1.15129e-11	1.000000
PhcycC3H3_A+H	4.70529e-12	1.000000	4.70529e-12	1.000000
rad59	2.84644e-12	1.000000	2.84644e-12	1.000000
rad43	6.54897e-13	1.000000	6.54897e-13	1.000000

rad54	5.59984e-13	1.00000	5.59984e-13	1.00000
rad28	2.00449e-13	1.00000	2.00449e-13	1.00000
rad2	1.89769e-13	1.00000	1.89769e-13	1.00000
rad62	1.43362e-13	1.00000	1.43362e-13	1.00000
rad50	9.95652e-14	1.00000	9.95652e-14	1.00000
rad26	2.79816e-14	1.00000	2.79816e-14	1.00000
Phenyl+cycC3H4	2.61242e-14	1.00000	0.00000	1.00000
rad7	2.22378e-14	1.00000	2.22378e-14	1.00000
rad1	1.24468e-14	1.00000	1.24468e-14	1.00000
rad70	1.18551e-14	1.00000	1.18551e-14	1.00000
rad10	1.14975e-14	1.00000	1.14975e-14	1.00000
rad11	6.05041e-15	1.00000	6.05041e-15	1.00000
rad55	5.21292e-15	1.00000	5.21292e-15	1.00000
PhcycC3H3_B+H	4.08972e-15	1.00000	4.08972e-15	1.00000
PAH1+H	3.58202e-15	1.00000	3.58202e-15	1.00000
rad3	1.41703e-15	1.00000	1.41703e-15	1.00000
rad52	7.77661e-16	1.00000	7.77661e-16	1.00000
rad4	7.22270e-16	1.00000	7.22270e-16	1.00000
rad58	3.40067e-16	1.00000	3.40067e-16	1.00000
rad51	2.44530e-16	1.00000	2.44530e-16	1.00000
rad34	1.90985e-16	1.00000	1.90985e-16	1.00000
rad13	8.55011e-17	1.00000	8.55011e-17	1.00000
rad41	3.79420e-17	1.00000	3.79420e-17	1.00000
rad42	2.89053e-17	1.00000	2.89053e-17	1.00000
rad23	2.46336e-17	1.00000	2.46336e-17	1.00000
rad65	5.46177e-18	1.00000	5.46177e-18	1.00000
rad9	6.81044e-19	1.00000	6.81044e-19	1.00000
rad45	3.86181e-19	1.00000	3.86181e-19	1.00000
rad33	1.58381e-19	1.00000	1.58381e-19	1.00000
rad14	1.18735e-19	1.00000	1.18735e-19	1.00000
rad27	1.10804e-19	1.00000	1.10804e-19	1.00000
rad25	5.79783e-20	1.00000	5.79783e-20	1.00000
rad53	4.78388e-20	1.00000	4.78388e-20	1.00000
rad36	2.37296e-20	1.00000	2.37296e-20	1.00000
rad22	1.59212e-20	1.00000	1.59212e-20	1.00000
rad64	6.01151e-21	1.00000	6.01151e-21	1.00000
rad15	3.33699e-22	1.00000	3.33699e-22	1.00000
rad61	1.25737e-22	1.00000	1.25737e-22	1.00000
rad31	4.47715e-24	1.00000	4.47715e-24	1.00000
rad56	3.39956e-24	1.00000	3.39956e-24	1.00000
rad20	1.02782e-24	1.00000	1.02782e-24	1.00000
rad21	7.38790e-25	1.00000	7.38790e-25	1.00000
rad68syn	2.60210e-25	1.00000	2.60210e-25	1.00000
rad68anti	2.07339e-25	1.00000	2.07339e-25	1.00000
rad5	1.31664e-25	1.00000	1.31664e-25	1.00000
rad18	7.23256e-26	1.00000	7.23256e-26	1.00000
rad47	6.60023e-27	1.00000	6.60023e-27	1.00000
rad24	3.89724e-27	1.00000	3.89724e-27	1.00000
rad12	3.42328e-27	1.00000	3.42328e-27	1.00000
rad19anti	5.72590e-28	1.00000	5.72590e-28	1.00000
rad40syn	8.87039e-29	1.00000	8.87039e-29	1.00000
rad40anti	7.03419e-29	1.00000	7.03419e-29	1.00000
rad73	5.43536e-30	1.00000	5.43536e-30	1.00000
PAH8+H	1.26185e-30	1.00000	1.26185e-30	1.00000
rad71	9.38049e-34	1.00000	9.38049e-34	1.00000
rad19syn	1.23836e-37	1.00000	1.23836e-37	1.00000
rad8	2.13328e-59	1.00000	2.13328e-59	1.00000

0.100000000 Pa, 160.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.84423e-15 (1.00)	7.84423e-15 (1.00)
Formation of rad19	7.84418e-15 (1.000)	7.84418e-15 (1.000)
H-abstraction to cyc2enyl	5.05321e-20 (6.44e-06)	5.05321e-20 (6.44e-06)
H-abstraction to cyclenyl	1.29479e-24 (1.65e-10)	1.29479e-24 (1.65e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999679	0.999679	0.999679	0.999679
PhCHCCH2+H	0.000298824	0.999977	0.000298824	0.999977
Benzene+cycloprop-2-enylidene	6.44194e-06	0.999984	6.44194e-06	0.999984
PhCCH+CH3	5.28347e-06	0.999989	5.28347e-06	0.999989
C2H2+PhCH2	4.01262e-06	0.999993	4.01262e-06	0.999993
PhCCCH3+H	3.08038e-06	0.999996	3.08038e-06	0.999996
Ph+MeAc	2.47129e-06	0.999999	2.47129e-06	0.999999
rad67	7.33216e-07	0.999999	7.33216e-07	0.999999
rad35	3.18903e-07	1.000000	3.18903e-07	1.000000
Ph+Allene	2.47519e-07	1.000000	2.47519e-07	1.000000
PhCH2CCH+H	3.32292e-08	1.000000	3.32292e-08	1.000000

PAH7+H	2.99981e-08	1.00000	2.99981e-08	1.00000
rad39	8.46470e-09	1.00000	8.46470e-09	1.00000
rad37	8.15972e-09	1.00000	8.15972e-09	1.00000
rad30	6.02502e-09	1.00000	6.02502e-09	1.00000
PAH9+H	4.41971e-10	1.00000	4.41971e-10	1.00000
rad38	1.97208e-10	1.00000	1.97208e-10	1.00000
Benzene+cycloprop-1-enylidene	1.65062e-10	1.00000	1.65062e-10	1.00000
rad6	1.38514e-10	1.00000	1.38514e-10	1.00000
rad60syn	3.11151e-11	1.00000	3.11151e-11	1.00000
PAH10+CH3	1.79672e-11	1.00000	1.79672e-11	1.00000
rad60anti	1.54298e-11	1.00000	1.54298e-11	1.00000
PAH3+H	1.54178e-11	1.00000	1.54178e-11	1.00000
rad46	1.23558e-11	1.00000	1.23558e-11	1.00000
PhcycC3H3_A+H	6.03919e-12	1.00000	6.03919e-12	1.00000
rad59	3.09225e-12	1.00000	3.09225e-12	1.00000
rad43	7.28611e-13	1.00000	7.28611e-13	1.00000
rad54	6.35387e-13	1.00000	6.35387e-13	1.00000
rad62	1.60004e-13	1.00000	1.60004e-13	1.00000
rad28	1.36173e-13	1.00000	1.36173e-13	1.00000
rad2	1.28656e-13	1.00000	1.28656e-13	1.00000
rad50	1.10734e-13	1.00000	1.10734e-13	1.00000
Phenyl+cycC3H4	3.86829e-14	1.00000	0.00000	1.00000
rad26	1.90416e-14	1.00000	1.90416e-14	1.00000
rad7	1.50658e-14	1.00000	1.50658e-14	1.00000
rad70	1.39814e-14	1.00000	1.39814e-14	1.00000
rad1	8.48458e-15	1.00000	8.48458e-15	1.00000
PhcycC3H3_B+H	8.12725e-15	1.00000	8.12725e-15	1.00000
rad10	7.77598e-15	1.00000	7.77598e-15	1.00000
rad55	6.15599e-15	1.00000	6.15599e-15	1.00000
PAH1+H	4.46699e-15	1.00000	4.46699e-15	1.00000
rad11	4.09121e-15	1.00000	4.09121e-15	1.00000
rad3	9.57725e-16	1.00000	9.57725e-16	1.00000
rad52	8.88889e-16	1.00000	8.88889e-16	1.00000
rad4	4.88862e-16	1.00000	4.88862e-16	1.00000
rad58	4.06149e-16	1.00000	4.06149e-16	1.00000
rad51	2.88947e-16	1.00000	2.88947e-16	1.00000
rad34	2.39487e-16	1.00000	2.39487e-16	1.00000
rad13	5.83898e-17	1.00000	5.83898e-17	1.00000
rad41	4.96618e-17	1.00000	4.96618e-17	1.00000
rad42	3.69067e-17	1.00000	3.69067e-17	1.00000
rad23	1.51139e-17	1.00000	1.51139e-17	1.00000
rad65	6.55103e-18	1.00000	6.55103e-18	1.00000
rad9	5.36707e-19	1.00000	5.36707e-19	1.00000
rad45	2.35054e-19	1.00000	2.35054e-19	1.00000
rad33	1.08482e-19	1.00000	1.08482e-19	1.00000
rad53	9.16000e-20	1.00000	9.16000e-20	1.00000
rad14	8.05392e-20	1.00000	8.05392e-20	1.00000
rad27	7.52736e-20	1.00000	7.52736e-20	1.00000
rad25	3.96057e-20	1.00000	3.96057e-20	1.00000
rad36	1.44644e-20	1.00000	1.44644e-20	1.00000
rad64	1.34987e-20	1.00000	1.34987e-20	1.00000
rad22	9.68121e-21	1.00000	9.68121e-21	1.00000
rad61	4.45588e-22	1.00000	4.45588e-22	1.00000
rad15	2.62127e-22	1.00000	2.62127e-22	1.00000
rad56	1.45246e-23	1.00000	1.45246e-23	1.00000
rad31	3.15525e-24	1.00000	3.15525e-24	1.00000
rad68syn	1.22606e-24	1.00000	1.22606e-24	1.00000
rad68anti	9.71712e-25	1.00000	9.71712e-25	1.00000
rad20	7.31549e-25	1.00000	7.31549e-25	1.00000
rad21	5.27908e-25	1.00000	5.27908e-25	1.00000
rad5	8.24433e-26	1.00000	8.24433e-26	1.00000
rad18	4.79123e-26	1.00000	4.79123e-26	1.00000
rad47	6.59247e-27	1.00000	6.59247e-27	1.00000
rad12	2.72120e-27	1.00000	2.72120e-27	1.00000
rad24	2.40278e-27	1.00000	2.40278e-27	1.00000
rad40syn	7.78939e-28	1.00000	7.78939e-28	1.00000
rad19anti	6.98912e-28	1.00000	6.98912e-28	1.00000
rad40anti	6.20121e-28	1.00000	6.20121e-28	1.00000
rad73	4.20052e-29	1.00000	4.20052e-29	1.00000
PAH8+H	1.67874e-29	1.00000	1.67874e-29	1.00000
rad71	1.45581e-32	1.00000	1.45581e-32	1.00000
rad19syn	3.23538e-37	1.00000	3.23538e-37	1.00000
rad8	2.89314e-59	1.00000	2.89314e-59	1.00000

0.100000000 Pa, 170.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	9.49598e-15 (1.00)	9.49598e-15 (1.00)
Formation of rad19	9.49586e-15 (1.000)	9.49586e-15 (1.000)

H-abstraction to cyc2enyl | 1.24279e-19 (1.31e-05) 1.24279e-19 (1.31e-05)
H-abstraction to cyc1enyl | 6.08025e-24 (6.40e-10) 6.08025e-24 (6.40e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999661	0.999661	0.999661	0.999661
PhCHCCH2+H	0.000309018	0.999970	0.000309018	0.999970
Benzene+cycloprop-2-enylidene	1.30875e-05	0.999983	1.30875e-05	0.999983
PhCCH+CH3	5.47525e-06	0.999988	5.47525e-06	0.999988
C2H2+PhCH2	4.19431e-06	0.999993	4.19431e-06	0.999993
PhCCCH3+H	3.20506e-06	0.999996	3.20506e-06	0.999996
Ph+MeAc	2.59492e-06	0.999998	2.59492e-06	0.999998
rad67	7.68113e-07	0.999999	7.68113e-07	0.999999
rad35	3.33435e-07	1.000000	3.33435e-07	1.000000
Ph+Allene	2.65279e-07	1.000000	2.65279e-07	1.000000
PhCH2CCH+H	3.60405e-08	1.000000	3.60405e-08	1.000000
PAH7+H	3.18118e-08	1.000000	3.18118e-08	1.000000
rad39	8.97591e-09	1.000000	8.97591e-09	1.000000
rad37	8.67028e-09	1.000000	8.67028e-09	1.000000
rad30	6.31029e-09	1.000000	6.31029e-09	1.000000
Benzene+cycloprop-1-enylidene	6.40297e-10	1.000000	6.40297e-10	1.000000
PAH9+H	4.70325e-10	1.000000	4.70325e-10	1.000000
rad38	2.11308e-10	1.000000	2.11308e-10	1.000000
rad6	9.59288e-11	1.000000	9.59288e-11	1.000000
rad60syn	3.32399e-11	1.000000	3.32399e-11	1.000000
PAH10+CH3	2.04565e-11	1.000000	2.04565e-11	1.000000
PAH3+H	1.68961e-11	1.000000	1.68961e-11	1.000000
rad60anti	1.65129e-11	1.000000	1.65129e-11	1.000000
rad46	1.33102e-11	1.000000	1.33102e-11	1.000000
PhcycC3H3_A+H	7.80787e-12	1.000000	7.80787e-12	1.000000
rad59	3.37492e-12	1.000000	3.37492e-12	1.000000
rad43	8.15166e-13	1.000000	8.15166e-13	1.000000
rad54	7.25548e-13	1.000000	7.25548e-13	1.000000
rad62	1.79546e-13	1.000000	1.79546e-13	1.000000
rad50	1.23897e-13	1.000000	1.23897e-13	1.000000
rad28	9.39878e-14	1.000000	9.39878e-14	1.000000
rad2	8.86274e-14	1.000000	8.86274e-14	1.000000
Phenyl+cycC3H4	5.71891e-14	1.000000	0.00000	1.000000
rad70	1.66253e-14	1.000000	1.66253e-14	1.000000
PhcycC3H3_B+H	1.54795e-14	1.000000	1.54795e-14	1.000000
rad26	1.31624e-14	1.000000	1.31624e-14	1.000000
rad7	1.03727e-14	1.000000	1.03727e-14	1.000000
rad55	7.32821e-15	1.000000	7.32821e-15	1.000000
rad1	5.87961e-15	1.000000	5.87961e-15	1.000000
PAH1+H	5.62611e-15	1.000000	5.62611e-15	1.000000
rad10	5.34504e-15	1.000000	5.34504e-15	1.000000
rad11	2.81188e-15	1.000000	2.81188e-15	1.000000
rad52	1.02390e-15	1.000000	1.02390e-15	1.000000
rad3	6.57962e-16	1.000000	6.57962e-16	1.000000
rad58	4.89800e-16	1.000000	4.89800e-16	1.000000
rad51	3.44746e-16	1.000000	3.44746e-16	1.000000
rad4	3.36383e-16	1.000000	3.36383e-16	1.000000
rad34	3.03271e-16	1.000000	3.03271e-16	1.000000
rad41	6.55328e-17	1.000000	6.55328e-17	1.000000
rad42	4.74854e-17	1.000000	4.74854e-17	1.000000
rad13	4.05131e-17	1.000000	4.05131e-17	1.000000
rad23	9.48809e-18	1.000000	9.48809e-18	1.000000
rad65	7.93799e-18	1.000000	7.93799e-18	1.000000
rad9	4.38973e-19	1.000000	4.38973e-19	1.000000
rad53	1.69711e-19	1.000000	1.69711e-19	1.000000
rad45	1.46507e-19	1.000000	1.46507e-19	1.000000
rad33	7.54877e-20	1.000000	7.54877e-20	1.000000
rad14	5.55328e-20	1.000000	5.55328e-20	1.000000
rad27	5.19758e-20	1.000000	5.19758e-20	1.000000
rad64	2.86833e-20	1.000000	2.86833e-20	1.000000
rad25	2.74893e-20	1.000000	2.74893e-20	1.000000
rad36	9.03131e-21	1.000000	9.03131e-21	1.000000
rad22	6.02858e-21	1.000000	6.02858e-21	1.000000
rad61	1.40194e-21	1.000000	1.40194e-21	1.000000
rad15	2.13779e-22	1.000000	2.13779e-22	1.000000
rad56	5.36984e-23	1.000000	5.36984e-23	1.000000
rad68syn	4.91979e-24	1.000000	4.91979e-24	1.000000
rad68anti	3.87672e-24	1.000000	3.87672e-24	1.000000
rad31	2.26784e-24	1.000000	2.26784e-24	1.000000
rad20	5.31276e-25	1.000000	5.31276e-25	1.000000
rad21	3.84900e-25	1.000000	3.84900e-25	1.000000
rad5	5.30830e-26	1.000000	5.30830e-26	1.000000
rad18	3.25191e-26	1.000000	3.25191e-26	1.000000
rad47	6.67065e-27	1.000000	6.67065e-27	1.000000
rad40syn	5.38357e-27	1.000000	5.38357e-27	1.000000

rad40anti	4.30057e-27	1.000000	4.30057e-27	1.000000
rad12	2.24614e-27	1.000000	2.24614e-27	1.000000
rad24	1.51687e-27	1.000000	1.51687e-27	1.000000
rad19anti	1.19280e-27	1.000000	1.19280e-27	1.000000
rad73	2.63041e-28	1.000000	2.63041e-28	1.000000
PAH8+H	1.67523e-28	1.000000	1.67523e-28	1.000000
rad71	1.66338e-31	1.000000	1.66338e-31	1.000000
rad19syn	8.89196e-37	1.000000	8.89196e-37	1.000000
rad8	4.13221e-59	1.000000	4.13221e-59	1.000000

0.100000000 Pa, 180.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.12884e-14 (1.00)	1.12884e-14 (1.00)
Formation of rad19	1.12881e-14 (1.000)	1.12881e-14 (1.000)
H-abstraction to cyc2enyl	2.75916e-19 (2.44e-05)	2.75916e-19 (2.44e-05)
H-abstraction to cyclenyl	2.39955e-23 (2.13e-09)	2.39955e-23 (2.13e-09)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999638	0.999638	0.999638	0.999638
PhCHCCH2+H	0.000320096	0.999958	0.000320096	0.999958
Benzene+cycloprop-2-enylidene	2.44424e-05	0.999982	2.44424e-05	0.999982
PhCCH+CH3	5.68328e-06	0.999988	5.68328e-06	0.999988
C2H2+PhCH2	4.39371e-06	0.999992	4.39371e-06	0.999992
PhCCCH3+H	3.34126e-06	0.999996	3.34126e-06	0.999996
Ph+MeAc	2.73130e-06	0.999998	2.73130e-06	0.999998
rad67	8.06564e-07	0.999999	8.06564e-07	0.999999
rad35	3.49415e-07	0.999999	3.49415e-07	0.999999
Ph+Allene	2.85292e-07	1.000000	2.85292e-07	1.000000
PhCH2CCH+H	3.92503e-08	1.000000	3.92503e-08	1.000000
PAH7+H	3.38307e-08	1.000000	3.38307e-08	1.000000
rad39	9.54456e-09	1.000000	9.54456e-09	1.000000
rad37	9.24201e-09	1.000000	9.24201e-09	1.000000
rad30	6.62504e-09	1.000000	6.62504e-09	1.000000
Benzene+cycloprop-1-enylidene	2.12567e-09	1.000000	2.12567e-09	1.000000
PAH9+H	5.02136e-10	1.000000	5.02136e-10	1.000000
rad38	2.27279e-10	1.000000	2.27279e-10	1.000000
rad6	6.73509e-11	1.000000	6.73509e-11	1.000000
rad60syn	3.56377e-11	1.000000	3.56377e-11	1.000000
PAH10+CH3	2.34562e-11	1.000000	2.34562e-11	1.000000
PAH3+H	1.86124e-11	1.000000	1.86124e-11	1.000000
rad60anti	1.77376e-11	1.000000	1.77376e-11	1.000000
rad46	1.43957e-11	1.000000	1.43957e-11	1.000000
PhcycC3H3_A+H	1.01635e-11	1.000000	1.01635e-11	1.000000
rad59	3.70152e-12	1.000000	3.70152e-12	1.000000
rad43	9.17306e-13	1.000000	9.17306e-13	1.000000
rad54	8.34063e-13	1.000000	8.34063e-13	1.000000
rad62	2.02600e-13	1.000000	2.02600e-13	1.000000
rad50	1.39512e-13	1.000000	1.39512e-13	1.000000
Phenyl+cycC3H4	8.44565e-14	1.000000	0.000000	1.000000
rad28	6.57818e-14	1.000000	6.57818e-14	1.000000
rad2	6.19156e-14	1.000000	6.19156e-14	1.000000
PhcycC3H3_B+H	2.84772e-14	1.000000	2.84772e-14	1.000000
rad70	1.99366e-14	1.000000	1.99366e-14	1.000000
rad26	9.22460e-15	1.000000	9.22460e-15	1.000000
rad55	8.79585e-15	1.000000	8.79585e-15	1.000000
rad7	7.24320e-15	1.000000	7.24320e-15	1.000000
PAH1+H	7.15561e-15	1.000000	7.15561e-15	1.000000
rad1	4.13418e-15	1.000000	4.13418e-15	1.000000
rad10	3.72681e-15	1.000000	3.72681e-15	1.000000
rad11	1.96046e-15	1.000000	1.96046e-15	1.000000
rad52	1.18902e-15	1.000000	1.18902e-15	1.000000
rad58	5.96502e-16	1.000000	5.96502e-16	1.000000
rad3	4.58568e-16	1.000000	4.58568e-16	1.000000
rad51	4.15469e-16	1.000000	4.15469e-16	1.000000
rad34	3.87787e-16	1.000000	3.87787e-16	1.000000
rad4	2.34848e-16	1.000000	2.34848e-16	1.000000
rad41	8.71373e-17	1.000000	8.71373e-17	1.000000
rad42	6.15393e-17	1.000000	6.15393e-17	1.000000
rad13	2.85042e-17	1.000000	2.85042e-17	1.000000
rad65	9.71978e-18	1.000000	9.71978e-18	1.000000
rad23	6.07829e-18	1.000000	6.07829e-18	1.000000
rad9	3.71465e-19	1.000000	3.71465e-19	1.000000
rad53	3.06340e-19	1.000000	3.06340e-19	1.000000
rad45	9.32568e-20	1.000000	9.32568e-20	1.000000
rad64	5.82851e-20	1.000000	5.82851e-20	1.000000
rad33	5.32637e-20	1.000000	5.32637e-20	1.000000
rad14	3.88457e-20	1.000000	3.88457e-20	1.000000

rad27	3.64067e-20	1.000000	3.64067e-20	1.000000
rad25	1.93484e-20	1.000000	1.93484e-20	1.000000
rad36	5.76067e-21	1.000000	5.76067e-21	1.000000
rad61	4.00254e-21	1.000000	4.00254e-21	1.000000
rad22	3.83377e-21	1.000000	3.83377e-21	1.000000
rad15	1.80439e-22	1.000000	1.80439e-22	1.000000
rad56	1.76417e-22	1.000000	1.76417e-22	1.000000
rad68syn	1.73134e-23	1.000000	1.73134e-23	1.000000
rad68anti	1.35586e-23	1.000000	1.35586e-23	1.000000
rad31	1.65979e-24	1.000000	1.65979e-24	1.000000
rad20	3.92804e-25	1.000000	3.92804e-25	1.000000
rad21	2.85714e-25	1.000000	2.85714e-25	1.000000
rad5	3.50415e-26	1.000000	3.50415e-26	1.000000
rad40syn	3.05470e-26	1.000000	3.05470e-26	1.000000
rad40anti	2.44655e-26	1.000000	2.44655e-26	1.000000
rad18	2.25484e-26	1.000000	2.25484e-26	1.000000
rad47	6.83799e-27	1.000000	6.83799e-27	1.000000
rad19anti	2.66104e-27	1.000000	2.66104e-27	1.000000
rad12	1.91921e-27	1.000000	1.91921e-27	1.000000
rad73	1.38486e-27	1.000000	1.38486e-27	1.000000
PAH8+H	1.31988e-27	1.000000	1.31988e-27	1.000000
rad24	9.77902e-28	1.000000	9.77902e-28	1.000000
rad71	1.48409e-30	1.000000	1.48409e-30	1.000000
rad19syn	2.57212e-36	1.000000	2.57212e-36	1.000000
rad8	6.17486e-59	1.000000	6.17486e-59	1.000000

0.100000000 Pa, 190.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.32132e-14 (1.00)	1.32132e-14 (1.00)
Formation of rad19	1.32126e-14 (1.000)	1.32126e-14 (1.000)
H-abstraction to cyc2enyl	5.62053e-19 (4.25e-05)	5.62053e-19 (4.25e-05)
H-abstraction to cyc1enyl	8.18073e-23 (6.19e-09)	8.18073e-23 (6.19e-09)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999606	0.999606	0.999606	0.999606
PhCHCCH2+H	0.000332156	0.999939	0.000332156	0.999939
Benzene+cycloprop-2-enylidene	4.25373e-05	0.999981	4.25373e-05	0.999981
PhCCH+CH3	5.90927e-06	0.999987	5.90927e-06	0.999987
C2H2+PhCH2	4.61305e-06	0.999992	4.61305e-06	0.999992
PhCCH3+H	3.49029e-06	0.999995	3.49029e-06	0.999995
Ph+MeAc	2.88210e-06	0.999998	2.88210e-06	0.999998
rad67	8.49025e-07	0.999999	8.49025e-07	0.999999
rad35	3.67025e-07	0.999999	3.67025e-07	0.999999
Ph+Allene	3.07929e-07	1.000000	3.07929e-07	1.000000
PhCH2CCH+H	4.29303e-08	1.000000	4.29303e-08	1.000000
PAH7+H	3.60853e-08	1.000000	3.60853e-08	1.000000
rad39	1.01791e-08	1.000000	1.01791e-08	1.000000
rad37	9.88406e-09	1.000000	9.88406e-09	1.000000
rad30	6.97313e-09	1.000000	6.97313e-09	1.000000
Benzene+cycloprop-1-enylidene	6.19133e-09	1.000000	6.19133e-09	1.000000
PAH9+H	5.37951e-10	1.000000	5.37951e-10	1.000000
rad38	2.45443e-10	1.000000	2.45443e-10	1.000000
rad6	4.78601e-11	1.000000	4.78601e-11	1.000000
rad60syn	3.83530e-11	1.000000	3.83530e-11	1.000000
PAH10+CH3	2.70904e-11	1.000000	2.70904e-11	1.000000
PAH3+H	2.06142e-11	1.000000	2.06142e-11	1.000000
rad60anti	1.91272e-11	1.000000	1.91272e-11	1.000000
rad46	1.56356e-11	1.000000	1.56356e-11	1.000000
PhcycC3H3_A+H	1.33114e-11	1.000000	1.33114e-11	1.000000
rad59	4.08050e-12	1.000000	4.08050e-12	1.000000
rad43	1.03838e-12	1.000000	1.03838e-12	1.000000
rad54	9.65442e-13	1.000000	9.65442e-13	1.000000
rad62	2.29914e-13	1.000000	2.29914e-13	1.000000
rad50	1.58145e-13	1.000000	1.58145e-13	1.000000
Phenyl+cycC3H4	1.24603e-13	1.000000	0.000000	1.000000
PhcycC3H3_B+H	5.08969e-14	1.000000	5.08969e-14	1.000000
rad28	4.66098e-14	1.000000	4.66098e-14	1.000000
rad2	4.37936e-14	1.000000	4.37936e-14	1.000000
rad70	2.41113e-14	1.000000	2.41113e-14	1.000000
rad55	1.06451e-14	1.000000	1.06451e-14	1.000000
PAH1+H	9.18687e-15	1.000000	9.18687e-15	1.000000
rad26	6.54385e-15	1.000000	6.54385e-15	1.000000
rad7	5.12140e-15	1.000000	5.12140e-15	1.000000
rad1	2.94479e-15	1.000000	2.94479e-15	1.000000
rad10	2.63144e-15	1.000000	2.63144e-15	1.000000
rad52	1.39241e-15	1.000000	1.39241e-15	1.000000
rad11	1.38420e-15	1.000000	1.38420e-15	1.000000

rad58	7.33561e-16	1.000000	7.33561e-16	1.000000
rad51	5.05832e-16	1.000000	5.05832e-16	1.000000
rad34	5.00509e-16	1.000000	5.00509e-16	1.000000
rad3	3.23684e-16	1.000000	3.23684e-16	1.000000
rad4	1.66085e-16	1.000000	1.66085e-16	1.000000
rad41	1.16667e-16	1.000000	1.16667e-16	1.000000
rad42	8.02819e-17	1.000000	8.02819e-17	1.000000
rad13	2.03034e-17	1.000000	2.03034e-17	1.000000
rad65	1.20275e-17	1.000000	1.20275e-17	1.000000
rad23	3.96479e-18	1.000000	3.96479e-18	1.000000
rad53	5.41373e-19	1.000000	5.41373e-19	1.000000
rad9	3.24531e-19	1.000000	3.24531e-19	1.000000
rad64	1.14154e-19	1.000000	1.14154e-19	1.000000
rad45	6.04839e-20	1.000000	6.04839e-20	1.000000
rad33	3.80475e-20	1.000000	3.80475e-20	1.000000
rad14	2.75207e-20	1.000000	2.75207e-20	1.000000
rad27	2.58265e-20	1.000000	2.58265e-20	1.000000
rad25	1.37877e-20	1.000000	1.37877e-20	1.000000
rad61	1.05459e-20	1.000000	1.05459e-20	1.000000
rad36	3.74532e-21	1.000000	3.74532e-21	1.000000
rad22	2.48399e-21	1.000000	2.48399e-21	1.000000
rad56	5.25785e-22	1.000000	5.25785e-22	1.000000
rad15	1.57280e-22	1.000000	1.57280e-22	1.000000
rad68syn	5.46730e-23	1.000000	5.46730e-23	1.000000
rad68anti	4.25359e-23	1.000000	4.25359e-23	1.000000
rad31	1.23543e-24	1.000000	1.23543e-24	1.000000
rad20	2.95121e-25	1.000000	2.95121e-25	1.000000
rad21	2.15531e-25	1.000000	2.15531e-25	1.000000
rad40syn	1.47058e-25	1.000000	1.47058e-25	1.000000
rad40anti	1.17975e-25	1.000000	1.17975e-25	1.000000
rad5	2.36582e-26	1.000000	2.36582e-26	1.000000
rad18	1.59345e-26	1.000000	1.59345e-26	1.000000
PAH8+H	8.52667e-27	1.000000	8.52667e-27	1.000000
rad47	7.10244e-27	1.000000	7.10244e-27	1.000000
rad19anti	6.95017e-27	1.000000	6.95017e-27	1.000000
rad73	6.30885e-27	1.000000	6.30885e-27	1.000000
rad12	1.69401e-27	1.000000	1.69401e-27	1.000000
rad24	6.42375e-28	1.000000	6.42375e-28	1.000000
rad71	1.07523e-29	1.000000	1.07523e-29	1.000000
rad19syn	7.83213e-36	1.000000	7.83213e-36	1.000000
rad8	9.59891e-59	1.000000	9.59891e-59	1.000000

0.100000000 Pa, 200.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.52621e-14 (1.00)	1.52621e-14 (1.00)
Formation of rad19	1.52610e-14 (1.000)	1.52610e-14 (1.000)
H-abstraction to cyc2enyl	1.06427e-18 (6.97e-05)	1.06427e-18 (6.97e-05)
H-abstraction to cyclenyl	2.46309e-22 (1.61e-08)	2.46309e-22 (1.61e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999565	0.999565	0.999565	0.999565
PhCHCCH2+H	0.000345302	0.999911	0.000345302	0.999911
Benzene+cycloprop-2-enylidene	6.97330e-05	0.999980	6.97330e-05	0.999980
PhCCH+CH3	6.15504e-06	0.999986	6.15504e-06	0.999986
C2H2+PhCH2	4.85477e-06	0.999991	4.85477e-06	0.999991
PhCCCH3+H	3.65360e-06	0.999995	3.65360e-06	0.999995
Ph+MeAc	3.04911e-06	0.999998	3.04911e-06	0.999998
rad67	8.95995e-07	0.999999	8.95995e-07	0.999999
rad35	3.86464e-07	0.999999	3.86464e-07	0.999999
Ph+Allene	3.33616e-07	1.000000	3.33616e-07	1.000000
PhCH2CCH+H	4.71648e-08	1.000000	4.71648e-08	1.000000
PAH7+H	3.86097e-08	1.000000	3.86097e-08	1.000000
Benzene+cycloprop-1-enylidene	1.61386e-08	1.000000	1.61386e-08	1.000000
rad39	1.08888e-08	1.000000	1.08888e-08	1.000000
rad37	1.06069e-08	1.000000	1.06069e-08	1.000000
rad30	7.35885e-09	1.000000	7.35885e-09	1.000000
PAH9+H	5.78399e-10	1.000000	5.78399e-10	1.000000
rad38	2.66168e-10	1.000000	2.66168e-10	1.000000
rad60syn	4.14363e-11	1.000000	4.14363e-11	1.000000
rad6	3.43748e-11	1.000000	3.43748e-11	1.000000
PAH10+CH3	3.15150e-11	1.000000	3.15150e-11	1.000000
PAH3+H	2.29586e-11	1.000000	2.29586e-11	1.000000
rad60anti	2.07086e-11	1.000000	2.07086e-11	1.000000
PhcycC3H3_A+H	1.75290e-11	1.000000	1.75290e-11	1.000000
rad46	1.70569e-11	1.000000	1.70569e-11	1.000000
rad59	4.52192e-12	1.000000	4.52192e-12	1.000000
rad43	1.18244e-12	1.000000	1.18244e-12	1.000000

rad54	1.12533e-12	1.000000	1.12533e-12	1.000000
rad62	2.62393e-13	1.000000	2.62393e-13	1.000000
Phenyl+cycC3H4	1.83626e-13	1.000000	0.000000	1.000000
rad50	1.80501e-13	1.000000	1.80501e-13	1.000000
PhcycC3H3_B+H	8.87679e-14	1.000000	8.87679e-14	1.000000
rad28	3.33868e-14	1.000000	3.33868e-14	1.000000
rad2	3.13180e-14	1.000000	3.13180e-14	1.000000
rad70	2.94046e-14	1.000000	2.94046e-14	1.000000
rad55	1.29884e-14	1.000000	1.29884e-14	1.000000
PAH1+H	1.18992e-14	1.000000	1.18992e-14	1.000000
rad26	4.69241e-15	1.000000	4.69241e-15	1.000000
rad7	3.66137e-15	1.000000	3.66137e-15	1.000000
rad1	2.12205e-15	1.000000	2.12205e-15	1.000000
rad10	1.87889e-15	1.000000	1.87889e-15	1.000000
rad52	1.64458e-15	1.000000	1.64458e-15	1.000000
rad11	9.88311e-16	1.000000	9.88311e-16	1.000000
rad58	9.10695e-16	1.000000	9.10695e-16	1.000000
rad34	6.51679e-16	1.000000	6.51679e-16	1.000000
rad51	6.22150e-16	1.000000	6.22150e-16	1.000000
rad3	2.31067e-16	1.000000	2.31067e-16	1.000000
rad41	1.57155e-16	1.000000	1.57155e-16	1.000000
rad4	1.18809e-16	1.000000	1.18809e-16	1.000000
rad42	1.05350e-16	1.000000	1.05350e-16	1.000000
rad65	1.50381e-17	1.000000	1.50381e-17	1.000000
rad13	1.46209e-17	1.000000	1.46209e-17	1.000000
rad23	2.62837e-18	1.000000	2.62837e-18	1.000000
rad53	9.39958e-19	1.000000	9.39958e-19	1.000000
rad9	2.92451e-19	1.000000	2.92451e-19	1.000000
rad64	2.16774e-19	1.000000	2.16774e-19	1.000000
rad45	3.98941e-20	1.000000	3.98941e-20	1.000000
rad33	2.74767e-20	1.000000	2.74767e-20	1.000000
rad61	2.59821e-20	1.000000	2.59821e-20	1.000000
rad14	1.97188e-20	1.000000	1.97188e-20	1.000000
rad27	1.85284e-20	1.000000	1.85284e-20	1.000000
rad25	9.93343e-21	1.000000	9.93343e-21	1.000000
rad36	2.47732e-21	1.000000	2.47732e-21	1.000000
rad22	1.63662e-21	1.000000	1.63662e-21	1.000000
rad56	1.44472e-21	1.000000	1.44472e-21	1.000000
rad68syn	1.57741e-22	1.000000	1.57741e-22	1.000000
rad15	1.41444e-22	1.000000	1.41444e-22	1.000000
rad68anti	1.21889e-22	1.000000	1.21889e-22	1.000000
rad31	9.34305e-25	1.000000	9.34305e-25	1.000000
rad40syn	6.16464e-25	1.000000	6.16464e-25	1.000000
rad40anti	4.94885e-25	1.000000	4.94885e-25	1.000000
rad20	2.24965e-25	1.000000	2.24965e-25	1.000000
rad21	1.64972e-25	1.000000	1.64972e-25	1.000000
PAH8+H	4.65230e-26	1.000000	4.65230e-26	1.000000
rad73	2.54376e-26	1.000000	2.54376e-26	1.000000
rad19anti	1.98428e-26	1.000000	1.98428e-26	1.000000
rad5	1.63034e-26	1.000000	1.63034e-26	1.000000
rad18	1.14532e-26	1.000000	1.14532e-26	1.000000
rad47	7.47724e-27	1.000000	7.47724e-27	1.000000
rad12	1.54321e-27	1.000000	1.54321e-27	1.000000
rad24	4.29155e-28	1.000000	4.29155e-28	1.000000
rad71	6.51834e-29	1.000000	6.51834e-29	1.000000
rad19syn	2.51002e-35	1.000000	2.51002e-35	1.000000
rad8	1.54508e-58	1.000000	1.54508e-58	1.000000

0.100000000 Pa, 210.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.74272e-14 (1.00)	1.74272e-14 (1.00)
Formation of rad19	1.74253e-14 (1.000)	1.74253e-14 (1.000)
H-abstraction to cyc2enyl	1.89310e-18 (0.000109)	1.89310e-18 (0.000109)
H-abstraction to cyclenyl	6.66714e-22 (3.83e-08)	6.66714e-22 (3.83e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999511	0.999511	0.999511	0.999511
PhCHCCH2+H	0.000359644	0.999871	0.000359644	0.999871
Benzene+cycloprop-2-enylidene	0.000108629	0.999980	0.000108629	0.999980
PhCCH+CH3	6.42251e-06	0.999986	6.42251e-06	0.999986
C2H2+PhCH2	5.12151e-06	0.999991	5.12151e-06	0.999991
PhCCCH3+H	3.83270e-06	0.999995	3.83270e-06	0.999995
Ph+MeAc	3.23433e-06	0.999998	3.23433e-06	0.999998
rad67	9.48024e-07	0.999999	9.48024e-07	0.999999
rad35	4.07951e-07	1.000000	4.07951e-07	1.000000
Ph+Allene	3.62840e-07	1.000000	3.62840e-07	1.000000
PhCH2CCH+H	5.20524e-08	1.000000	5.20524e-08	1.000000

PAH7+H	4.14425e-08	1.00000	4.14425e-08	1.00000
Benzene+cycloprop-1-enylidene	3.82571e-08	1.00000	3.82571e-08	1.00000
rad39	1.16845e-08	1.00000	1.16845e-08	1.00000
rad37	1.14221e-08	1.00000	1.14221e-08	1.00000
rad30	7.78692e-09	1.00000	7.78692e-09	1.00000
PAH9+H	6.24195e-10	1.00000	6.24195e-10	1.00000
rad38	2.89893e-10	1.00000	2.89893e-10	1.00000
rad60syn	4.49466e-11	1.00000	4.49466e-11	1.00000
PAH10+CH3	3.69251e-11	1.00000	3.69251e-11	1.00000
PAH3+H	2.57140e-11	1.00000	2.57140e-11	1.00000
rad6	2.49248e-11	1.00000	2.49248e-11	1.00000
PhcycC3H3_A+H	2.31888e-11	1.00000	2.31888e-11	1.00000
rad60anti	2.25130e-11	1.00000	2.25130e-11	1.00000
rad46	1.86915e-11	1.00000	1.86915e-11	1.00000
rad59	5.03787e-12	1.00000	5.03787e-12	1.00000
rad43	1.35445e-12	1.00000	1.35445e-12	1.00000
rad54	1.32081e-12	1.00000	1.32081e-12	1.00000
rad62	3.01129e-13	1.00000	3.01129e-13	1.00000
Phenyl+cycC3H4	2.70226e-13	1.00000	0.00000	1.00000
rad50	2.07458e-13	1.00000	2.07458e-13	1.00000
PhcycC3H3_B+H	1.51584e-13	1.00000	1.51584e-13	1.00000
rad70	3.61498e-14	1.00000	3.61498e-14	1.00000
rad28	2.41477e-14	1.00000	2.41477e-14	1.00000
rad2	2.26167e-14	1.00000	2.26167e-14	1.00000
rad55	1.59718e-14	1.00000	1.59718e-14	1.00000
PAH1+H	1.55370e-14	1.00000	1.55370e-14	1.00000
rad26	3.39722e-15	1.00000	3.39722e-15	1.00000
rad7	2.64343e-15	1.00000	2.64343e-15	1.00000
rad52	1.95905e-15	1.00000	1.95905e-15	1.00000
rad1	1.54524e-15	1.00000	1.54524e-15	1.00000
rad10	1.35499e-15	1.00000	1.35499e-15	1.00000
rad58	1.14086e-15	1.00000	1.14086e-15	1.00000
rad34	8.55329e-16	1.00000	8.55329e-16	1.00000
rad51	7.72869e-16	1.00000	7.72869e-16	1.00000
rad11	7.12703e-16	1.00000	7.12703e-16	1.00000
rad41	2.12784e-16	1.00000	2.12784e-16	1.00000
rad3	1.66619e-16	1.00000	1.66619e-16	1.00000
rad42	1.38942e-16	1.00000	1.38942e-16	1.00000
rad4	8.58661e-17	1.00000	8.58661e-17	1.00000
rad65	1.89912e-17	1.00000	1.89912e-17	1.00000
rad13	1.06317e-17	1.00000	1.06317e-17	1.00000
rad23	1.76804e-18	1.00000	1.76804e-18	1.00000
rad53	1.60740e-18	1.00000	1.60740e-18	1.00000
rad64	4.00918e-19	1.00000	4.00918e-19	1.00000
rad9	2.72037e-19	1.00000	2.72037e-19	1.00000
rad61	6.04783e-20	1.00000	6.04783e-20	1.00000
rad45	2.67171e-20	1.00000	2.67171e-20	1.00000
rad33	2.00372e-20	1.00000	2.00372e-20	1.00000
rad14	1.42717e-20	1.00000	1.42717e-20	1.00000
rad27	1.34271e-20	1.00000	1.34271e-20	1.00000
rad25	7.22685e-21	1.00000	7.22685e-21	1.00000
rad56	3.70671e-21	1.00000	3.70671e-21	1.00000
rad36	1.66445e-21	1.00000	1.66445e-21	1.00000
rad22	1.09469e-21	1.00000	1.09469e-21	1.00000
rad68syn	4.21781e-22	1.00000	4.21781e-22	1.00000
rad68anti	3.23663e-22	1.00000	3.23663e-22	1.00000
rad15	1.31334e-22	1.00000	1.31334e-22	1.00000
rad40syn	2.29692e-24	1.00000	2.29692e-24	1.00000
rad40anti	1.84357e-24	1.00000	1.84357e-24	1.00000
rad31	7.17410e-25	1.00000	7.17410e-25	1.00000
PAH8+H	2.19405e-25	1.00000	2.19405e-25	1.00000
rad20	1.73761e-25	1.00000	1.73761e-25	1.00000
rad21	1.27962e-25	1.00000	1.27962e-25	1.00000
rad73	9.24032e-26	1.00000	9.24032e-26	1.00000
rad19anti	6.00824e-26	1.00000	6.00824e-26	1.00000
rad5	1.14485e-26	1.00000	1.14485e-26	1.00000
rad18	8.35875e-27	1.00000	8.35875e-27	1.00000
rad47	7.98207e-27	1.00000	7.98207e-27	1.00000
rad12	1.45211e-27	1.00000	1.45211e-27	1.00000
rad71	3.38332e-28	1.00000	3.38332e-28	1.00000
rad24	2.91135e-28	1.00000	2.91135e-28	1.00000
rad19syn	8.46110e-35	1.00000	8.46110e-35	1.00000
rad8	2.56610e-58	1.00000	2.56610e-58	1.00000

0.100000000 Pa, 220.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.97009e-14 (1.00)	1.97009e-14 (1.00)
Formation of rad19	1.96977e-14 (1.000)	1.96977e-14 (1.000)

H-abstraction to cyc2enyl | 3.19064e-18 (0.000162) 3.19064e-18 (0.000162)
H-abstraction to cyc1enyl | 1.64627e-21 (8.36e-08) 1.64627e-21 (8.36e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999441	0.999441	0.999441	0.999441
PhCHCCH2+H	0.000375302	0.999816	0.000375302	0.999816
Benzene+cycloprop-2-enylidene	0.000161954	0.999978	0.000161954	0.999978
PhCCH+CH3	6.71370e-06	0.999985	6.71370e-06	0.999985
C2H2+PhCH2	5.41616e-06	0.999990	5.41616e-06	0.999990
PhCCCH3+H	4.02930e-06	0.999994	4.02930e-06	0.999994
Ph+MeAc	3.43996e-06	0.999998	3.43996e-06	0.999998
rad67	1.00572e-06	0.999999	1.00572e-06	0.999999
rad35	4.31723e-07	0.999999	4.31723e-07	0.999999
Ph+Allene	3.96163e-07	1.000000	3.96163e-07	1.000000
Benzene+cycloprop-1-enylidene	8.35632e-08	1.000000	8.35632e-08	1.000000
PhCH2CCH+H	5.77091e-08	1.000000	5.77091e-08	1.000000
PAH7+H	4.46268e-08	1.000000	4.46268e-08	1.000000
rad39	1.25781e-08	1.000000	1.25781e-08	1.000000
rad37	1.23433e-08	1.000000	1.23433e-08	1.000000
rad30	8.26261e-09	1.000000	8.26261e-09	1.000000
PAH9+H	6.76164e-10	1.000000	6.76164e-10	1.000000
rad38	3.17125e-10	1.000000	3.17125e-10	1.000000
rad60syn	4.89518e-11	1.000000	4.89518e-11	1.000000
PAH10+CH3	4.35652e-11	1.000000	4.35652e-11	1.000000
PhcycC3H3_A+H	3.07903e-11	1.000000	3.07903e-11	1.000000
PAH3+H	2.89632e-11	1.000000	2.89632e-11	1.000000
rad60anti	2.45764e-11	1.000000	2.45764e-11	1.000000
rad46	2.05767e-11	1.000000	2.05767e-11	1.000000
rad6	1.82266e-11	1.000000	1.82266e-11	1.000000
rad59	5.64274e-12	1.000000	5.64274e-12	1.000000
rad54	1.56072e-12	1.000000	1.56072e-12	1.000000
rad43	1.56042e-12	1.000000	1.56042e-12	1.000000
Phenyl+cycC3H4	3.96956e-13	1.000000	0.000000	1.000000
rad62	3.47448e-13	1.000000	3.47448e-13	1.000000
PhcycC3H3_B+H	2.54098e-13	1.000000	2.54098e-13	1.000000
rad50	2.40108e-13	1.000000	2.40108e-13	1.000000
rad70	4.47808e-14	1.000000	4.47808e-14	1.000000
PAH1+H	2.04334e-14	1.000000	2.04334e-14	1.000000
rad55	1.97857e-14	1.000000	1.97857e-14	1.000000
rad28	1.76169e-14	1.000000	1.76169e-14	1.000000
rad2	1.64767e-14	1.000000	1.64767e-14	1.000000
rad26	2.48073e-15	1.000000	2.48073e-15	1.000000
rad52	2.35330e-15	1.000000	2.35330e-15	1.000000
rad7	1.92534e-15	1.000000	1.92534e-15	1.000000
rad58	1.44131e-15	1.000000	1.44131e-15	1.000000
rad1	1.13592e-15	1.000000	1.13592e-15	1.000000
rad34	1.13067e-15	1.000000	1.13067e-15	1.000000
rad10	9.85942e-16	1.000000	9.85942e-16	1.000000
rad51	9.69326e-16	1.000000	9.69326e-16	1.000000
rad11	5.18544e-16	1.000000	5.18544e-16	1.000000
rad41	2.89313e-16	1.000000	2.89313e-16	1.000000
rad42	1.84011e-16	1.000000	1.84011e-16	1.000000
rad3	1.21236e-16	1.000000	1.21236e-16	1.000000
rad4	6.26334e-17	1.000000	6.26334e-17	1.000000
rad65	2.42115e-17	1.000000	2.42115e-17	1.000000
rad13	7.79864e-18	1.000000	7.79864e-18	1.000000
rad53	2.71218e-18	1.000000	2.71218e-18	1.000000
rad23	1.20522e-18	1.000000	1.20522e-18	1.000000
rad64	7.24637e-19	1.000000	7.24637e-19	1.000000
rad9	2.62122e-19	1.000000	2.62122e-19	1.000000
rad61	1.34091e-19	1.000000	1.34091e-19	1.000000
rad45	1.81427e-20	1.000000	1.81427e-20	1.000000
rad33	1.47406e-20	1.000000	1.47406e-20	1.000000
rad14	1.04231e-20	1.000000	1.04231e-20	1.000000
rad27	9.81862e-21	1.000000	9.81862e-21	1.000000
rad56	8.96962e-21	1.000000	8.96962e-21	1.000000
rad25	5.30396e-21	1.000000	5.30396e-21	1.000000
rad36	1.13446e-21	1.000000	1.13446e-21	1.000000
rad68syn	1.05707e-21	1.000000	1.05707e-21	1.000000
rad68anti	8.05568e-22	1.000000	8.05568e-22	1.000000
rad22	7.42325e-22	1.000000	7.42325e-22	1.000000
rad15	1.26344e-22	1.000000	1.26344e-22	1.000000
rad40syn	7.73139e-24	1.000000	7.73139e-24	1.000000
rad40anti	6.19981e-24	1.000000	6.19981e-24	1.000000
PAH8+H	9.10826e-25	1.000000	9.10826e-25	1.000000
rad31	5.59046e-25	1.000000	5.59046e-25	1.000000
rad73	3.06591e-25	1.000000	3.06591e-25	1.000000
rad19anti	1.90475e-25	1.000000	1.90475e-25	1.000000
rad20	1.35842e-25	1.000000	1.35842e-25	1.000000

rad21	1.00472e-25	1.000000	1.00472e-25	1.000000
rad47	8.64486e-27	1.000000	8.64486e-27	1.000000
rad5	8.18071e-27	1.000000	8.18071e-27	1.000000
rad18	6.18524e-27	1.000000	6.18524e-27	1.000000
rad71	1.53107e-27	1.000000	1.53107e-27	1.000000
rad12	1.41635e-27	1.000000	1.41635e-27	1.000000
rad24	2.00292e-28	1.000000	2.00292e-28	1.000000
rad19syn	2.99699e-34	1.000000	2.99699e-34	1.000000
rad8	4.38593e-58	1.000000	4.38593e-58	1.000000

0.100000000 Pa, 230.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.20761e-14 (1.00)	2.20761e-14 (1.00)
Formation of rad19	2.20710e-14 (1.000)	2.20710e-14 (1.000)
H-abstraction to cyc2enyl	5.13155e-18 (0.000232)	5.13155e-18 (0.000232)
H-abstraction to cyc1enyl	3.75316e-21 (1.70e-07)	3.75316e-21 (1.70e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999352	0.999352	0.999352	0.999352
PhCHCCH2+H	0.000392402	0.999745	0.000392402	0.999745
Benzene+cycloprop-2-enylidene	0.000232448	0.999977	0.000232448	0.999977
PhCCH+CH3	7.03074e-06	0.999984	7.03074e-06	0.999984
C2H2+PhCH2	5.74184e-06	0.999990	5.74184e-06	0.999990
PhCCCH3+H	4.24515e-06	0.999994	4.24515e-06	0.999994
Ph+MeAc	3.66843e-06	0.999998	3.66843e-06	0.999998
rad67	1.06975e-06	0.999999	1.06975e-06	0.999999
rad35	4.58045e-07	1.000000	4.58045e-07	1.000000
Ph+Allene	4.34229e-07	1.000000	4.34229e-07	1.000000
Benzene+cycloprop-1-enylidene	1.70010e-07	1.000000	1.70010e-07	1.000000
PhCH2CCH+H	6.42705e-08	1.000000	6.42705e-08	1.000000
PAH7+H	4.82112e-08	1.000000	4.82112e-08	1.000000
rad39	1.35826e-08	1.000000	1.35826e-08	1.000000
rad37	1.33855e-08	1.000000	1.33855e-08	1.000000
rad30	8.79172e-09	1.000000	8.79172e-09	1.000000
PAH9+H	7.35249e-10	1.000000	7.35249e-10	1.000000
rad38	3.48453e-10	1.000000	3.48453e-10	1.000000
rad60syn	5.35298e-11	1.000000	5.35298e-11	1.000000
PAH10+CH3	5.17416e-11	1.000000	5.17416e-11	1.000000
PhcycC3H3_A+H	4.10006e-11	1.000000	4.10006e-11	1.000000
PAH3+H	3.28058e-11	1.000000	3.28058e-11	1.000000
rad60anti	2.69407e-11	1.000000	2.69407e-11	1.000000
rad46	2.27562e-11	1.000000	2.27562e-11	1.000000
rad6	1.34306e-11	1.000000	1.34306e-11	1.000000
rad59	6.35372e-12	1.000000	6.35372e-12	1.000000
rad54	1.85618e-12	1.000000	1.85618e-12	1.000000
rad43	1.80766e-12	1.000000	1.80766e-12	1.000000
Phenyl+cycC3H4	5.81829e-13	1.000000	0.000000	1.000000
PhcycC3H3_B+H	4.18954e-13	1.000000	4.18954e-13	1.000000
rad62	4.02943e-13	1.000000	4.02943e-13	1.000000
rad50	2.79811e-13	1.000000	2.79811e-13	1.000000
rad70	5.58636e-14	1.000000	5.58636e-14	1.000000
PAH1+H	2.70412e-14	1.000000	2.70412e-14	1.000000
rad55	2.46774e-14	1.000000	2.46774e-14	1.000000
rad28	1.29527e-14	1.000000	1.29527e-14	1.000000
rad2	1.20988e-14	1.000000	1.20988e-14	1.000000
rad52	2.84991e-15	1.000000	2.84991e-15	1.000000
rad58	1.83501e-15	1.000000	1.83501e-15	1.000000
rad26	1.82555e-15	1.000000	1.82555e-15	1.000000
rad34	1.50392e-15	1.000000	1.50392e-15	1.000000
rad7	1.41343e-15	1.000000	1.41343e-15	1.000000
rad51	1.22673e-15	1.000000	1.22673e-15	1.000000
rad1	8.42274e-16	1.000000	8.42274e-16	1.000000
rad10	7.23209e-16	1.000000	7.23209e-16	1.000000
rad41	3.94640e-16	1.000000	3.94640e-16	1.000000
rad11	3.80307e-16	1.000000	3.80307e-16	1.000000
rad42	2.44498e-16	1.000000	2.44498e-16	1.000000
rad3	8.89368e-17	1.000000	8.89368e-17	1.000000
rad4	4.60712e-17	1.000000	4.60712e-17	1.000000
rad65	3.11391e-17	1.000000	3.11391e-17	1.000000
rad13	5.76556e-18	1.000000	5.76556e-18	1.000000
rad53	4.52111e-18	1.000000	4.52111e-18	1.000000
rad64	1.28329e-18	1.000000	1.28329e-18	1.000000
rad23	8.31644e-19	1.000000	8.31644e-19	1.000000
rad61	2.85017e-19	1.000000	2.85017e-19	1.000000
rad9	2.63798e-19	1.000000	2.63798e-19	1.000000
rad56	2.06326e-20	1.000000	2.06326e-20	1.000000
rad45	1.24786e-20	1.000000	1.24786e-20	1.000000

rad33	1.09301e-20	1.00000	1.09301e-20	1.00000
rad14	7.67468e-21	1.00000	7.67468e-21	1.00000
rad27	7.23879e-21	1.00000	7.23879e-21	1.00000
rad25	3.92353e-21	1.00000	3.92353e-21	1.00000
rad68syn	2.50532e-21	1.00000	2.50532e-21	1.00000
rad68anti	1.89636e-21	1.00000	1.89636e-21	1.00000
rad36	7.83554e-22	1.00000	7.83554e-22	1.00000
rad22	5.09738e-22	1.00000	5.09738e-22	1.00000
rad15	1.26972e-22	1.00000	1.26972e-22	1.00000
rad40syn	2.38120e-23	1.00000	2.38120e-23	1.00000
rad40anti	1.90672e-23	1.00000	1.90672e-23	1.00000
PAH8+H	3.37683e-24	1.00000	3.37683e-24	1.00000
rad73	9.39006e-25	1.00000	9.39006e-25	1.00000
rad19anti	6.27935e-25	1.00000	6.27935e-25	1.00000
rad31	4.41992e-25	1.00000	4.41992e-25	1.00000
rad20	1.07389e-25	1.00000	1.07389e-25	1.00000
rad21	7.97836e-26	1.00000	7.97836e-26	1.00000
rad47	9.50452e-27	1.00000	9.50452e-27	1.00000
rad71	6.12932e-27	1.00000	6.12932e-27	1.00000
rad5	5.94174e-27	1.00000	5.94174e-27	1.00000
rad18	4.63490e-27	1.00000	4.63490e-27	1.00000
rad12	1.44396e-27	1.00000	1.44396e-27	1.00000
rad24	1.39591e-28	1.00000	1.39591e-28	1.00000
rad19syn	1.11381e-33	1.00000	1.11381e-33	1.00000
rad8	7.70077e-58	1.00000	7.70077e-58	1.00000

0.100000000 Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.45462e-14 (1.00)	2.45462e-14 (1.00)
Formation of rad19	2.45383e-14 (1.000)	2.45383e-14 (1.000)
H-abstraction to cyc2enyl	7.92234e-18 (0.000323)	7.92234e-18 (0.000323)
H-abstraction to cyclenyl	7.97958e-21 (3.25e-07)	7.97958e-21 (3.25e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999242	0.999242	0.999242	0.999242
PhCHCCH2+H	0.000411077	0.999653	0.000411077	0.999653
Benzene+cycloprop-2-enylidene	0.000322752	0.999976	0.000322752	0.999976
PhCCH+CH3	7.37586e-06	0.999983	7.37586e-06	0.999983
C2H2+PhCH2	6.10199e-06	0.999989	6.10199e-06	0.999989
PhCCH3+H	4.48220e-06	0.999994	4.48220e-06	0.999994
Ph+MeAc	3.92235e-06	0.999998	3.92235e-06	0.999998
rad67	1.14083e-06	0.999999	1.14083e-06	0.999999
rad35	4.87202e-07	0.999999	4.87202e-07	0.999999
Ph+Allene	4.77779e-07	1.000000	4.77779e-07	1.000000
Benzene+cycloprop-1-enylidene	3.25084e-07	1.000000	3.25084e-07	1.000000
PhCH2CCH+H	7.18957e-08	1.000000	7.18957e-08	1.000000
PAH7+H	5.22501e-08	1.000000	5.22501e-08	1.000000
rad39	1.47131e-08	1.000000	1.47131e-08	1.000000
rad37	1.45660e-08	1.000000	1.45660e-08	1.000000
rad30	9.38067e-09	1.000000	9.38067e-09	1.000000
PAH9+H	8.02533e-10	1.000000	8.02533e-10	1.000000
rad38	3.84569e-10	1.000000	3.84569e-10	1.000000
PAH10+CH3	6.18373e-11	1.000000	6.18373e-11	1.000000
rad60syn	5.87712e-11	1.000000	5.87712e-11	1.000000
PhcycC3H3_A+H	5.47073e-11	1.000000	5.47073e-11	1.000000
PAH3+H	3.73616e-11	1.000000	3.73616e-11	1.000000
rad60anti	2.96541e-11	1.000000	2.96541e-11	1.000000
rad46	2.52815e-11	1.000000	2.52815e-11	1.000000
rad6	9.96487e-12	1.000000	9.96487e-12	1.000000
rad59	7.19138e-12	1.000000	7.19138e-12	1.000000
rad54	2.22106e-12	1.000000	2.22106e-12	1.000000
rad43	2.10503e-12	1.000000	2.10503e-12	1.000000
Phenyl+cycC3H4	8.50545e-13	1.000000	0.000000	1.000000
PhcycC3H3_B+H	6.80477e-13	1.000000	6.80477e-13	1.000000
rad62	4.69539e-13	1.000000	4.69539e-13	1.000000
rad50	3.28265e-13	1.000000	3.28265e-13	1.000000
rad70	7.01344e-14	1.000000	7.01344e-14	1.000000
PAH1+H	3.59745e-14	1.000000	3.59745e-14	1.000000
rad55	3.09680e-14	1.000000	3.09680e-14	1.000000
rad28	9.59039e-15	1.000000	9.59039e-15	1.000000
rad2	8.94801e-15	1.000000	8.94801e-15	1.000000
rad52	3.47810e-15	1.000000	3.47810e-15	1.000000
rad58	2.35256e-15	1.000000	2.35256e-15	1.000000
rad34	2.01084e-15	1.000000	2.01084e-15	1.000000
rad51	1.56552e-15	1.000000	1.56552e-15	1.000000
rad26	1.35284e-15	1.000000	1.35284e-15	1.000000
rad7	1.04506e-15	1.000000	1.04506e-15	1.000000

rad1	6.29532e-16	1.00000	6.29532e-16	1.00000
rad41	5.39555e-16	1.00000	5.39555e-16	1.00000
rad10	5.34381e-16	1.00000	5.34381e-16	1.00000
rad42	3.25651e-16	1.00000	3.25651e-16	1.00000
rad11	2.80945e-16	1.00000	2.80945e-16	1.00000
rad3	6.57281e-17	1.00000	6.57281e-17	1.00000
rad65	4.03700e-17	1.00000	4.03700e-17	1.00000
rad4	3.41488e-17	1.00000	3.41488e-17	1.00000
rad53	7.45211e-18	1.00000	7.45211e-18	1.00000
rad13	4.29293e-18	1.00000	4.29293e-18	1.00000
rad64	2.23113e-18	1.00000	2.23113e-18	1.00000
rad61	5.83707e-19	1.00000	5.83707e-19	1.00000
rad23	5.80378e-19	1.00000	5.80378e-19	1.00000
rad9	2.81835e-19	1.00000	2.81835e-19	1.00000
rad56	4.53913e-20	1.00000	4.53913e-20	1.00000
rad45	8.68545e-21	1.00000	8.68545e-21	1.00000
rad33	8.16305e-21	1.00000	8.16305e-21	1.00000
rad14	5.69299e-21	1.00000	5.69299e-21	1.00000
rad68syn	5.65417e-21	1.00000	5.65417e-21	1.00000
rad27	5.37664e-21	1.00000	5.37664e-21	1.00000
rad68anti	4.25215e-21	1.00000	4.25215e-21	1.00000
rad25	2.92321e-21	1.00000	2.92321e-21	1.00000
rad36	5.47948e-22	1.00000	5.47948e-22	1.00000
rad22	3.54113e-22	1.00000	3.54113e-22	1.00000
rad15	1.35488e-22	1.00000	1.35488e-22	1.00000
rad40syn	6.77799e-23	1.00000	6.77799e-23	1.00000
rad40anti	5.41755e-23	1.00000	5.41755e-23	1.00000
PAH8+H	1.13113e-23	1.00000	1.13113e-23	1.00000
rad73	2.67582e-24	1.00000	2.67582e-24	1.00000
rad19anti	2.14167e-24	1.00000	2.14167e-24	1.00000
rad31	3.54520e-25	1.00000	3.54520e-25	1.00000
rad20	8.57836e-26	1.00000	8.57836e-26	1.00000
rad21	6.40278e-26	1.00000	6.40278e-26	1.00000
rad71	2.19684e-26	1.00000	2.19684e-26	1.00000
rad47	1.06151e-26	1.00000	1.06151e-26	1.00000
rad5	4.38234e-27	1.00000	4.38234e-27	1.00000
rad18	3.51355e-27	1.00000	3.51355e-27	1.00000
rad12	1.56403e-27	1.00000	1.56403e-27	1.00000
rad24	9.84678e-29	1.00000	9.84678e-29	1.00000
rad19syn	4.33470e-33	1.00000	4.33470e-33	1.00000
rad8	1.38735e-57	1.00000	1.38735e-57	1.00000

0.100000000 Pa, 250.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.71048e-14 (1.00)	2.71048e-14 (1.00)
Formation of rad19	2.70930e-14 (1.000)	2.70930e-14 (1.000)
H-abstraction to cyc2enyl	1.17991e-17 (0.000435)	1.17991e-17 (0.000435)
H-abstraction to cyclenyl	1.59554e-20 (5.89e-07)	1.59554e-20 (5.89e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999107	0.999107	0.999107	0.999107
Benzene+cycloprop-2-enylidene	0.000435312	0.999543	0.000435312	0.999543
PhCHCCH2+H	0.000431472	0.999974	0.000431472	0.999974
PhCCH+CH3	7.75136e-06	0.999982	7.75136e-06	0.999982
C2H2+PhCH2	6.50030e-06	0.999988	6.50030e-06	0.999988
PhCCCH3+H	4.74250e-06	0.999993	4.74250e-06	0.999993
Ph+MeAc	4.20465e-06	0.999997	4.20465e-06	0.999997
rad67	1.21979e-06	0.999999	1.21979e-06	0.999999
Benzene+cycloprop-1-enylidene	5.88656e-07	0.999999	5.88656e-07	0.999999
Ph+Allene	5.27661e-07	1.000000	5.27661e-07	1.000000
rad35	5.19507e-07	1.000000	5.19507e-07	1.000000
PhCH2CCH+H	8.07704e-08	1.000000	8.07704e-08	1.000000
PAH7+H	5.68044e-08	1.000000	5.68044e-08	1.000000
rad39	1.59861e-08	1.000000	1.59861e-08	1.000000
rad37	1.59043e-08	1.000000	1.59043e-08	1.000000
rad30	1.00365e-08	1.000000	1.00365e-08	1.000000
PAH9+H	8.79254e-10	1.000000	8.79254e-10	1.000000
rad38	4.26278e-10	1.000000	4.26278e-10	1.000000
PAH10+CH3	7.43316e-11	1.000000	7.43316e-11	1.000000
PhcycC3H3_A+H	7.30860e-11	1.000000	7.30860e-11	1.000000
rad60syn	6.47798e-11	1.000000	6.47798e-11	1.000000
PAH3+H	4.27750e-11	1.000000	4.27750e-11	1.000000
rad60anti	3.27724e-11	1.000000	3.27724e-11	1.000000
rad46	2.82129e-11	1.000000	2.82129e-11	1.000000
rad59	8.18026e-12	1.000000	8.18026e-12	1.000000
rad6	7.44000e-12	1.000000	7.44000e-12	1.000000
rad54	2.67271e-12	1.000000	2.67271e-12	1.000000

rad43	2.46324e-12	1.00000	2.46324e-12	1.00000
Phenyl+cycC3H4	1.23952e-12	1.00000	0.00000	1.00000
PhcycC3H3_B+H	1.09004e-12	1.00000	1.09004e-12	1.00000
rad62	5.49546e-13	1.00000	5.49546e-13	1.00000
rad50	3.87587e-13	1.00000	3.87587e-13	1.00000
rad70	8.85493e-14	1.00000	8.85493e-14	1.00000
PAH1+H	4.80638e-14	1.00000	4.80638e-14	1.00000
rad55	3.90737e-14	1.00000	3.90737e-14	1.00000
rad28	7.14641e-15	1.00000	7.14641e-15	1.00000
rad2	6.66124e-15	1.00000	6.66124e-15	1.00000
rad52	4.27561e-15	1.00000	4.27561e-15	1.00000
rad58	3.03455e-15	1.00000	3.03455e-15	1.00000
rad34	2.70001e-15	1.00000	2.70001e-15	1.00000
rad51	2.01311e-15	1.00000	2.01311e-15	1.00000
rad26	1.00900e-15	1.00000	1.00900e-15	1.00000
rad7	7.77732e-16	1.00000	7.77732e-16	1.00000
rad41	7.38734e-16	1.00000	7.38734e-16	1.00000
rad1	4.74016e-16	1.00000	4.74016e-16	1.00000
rad42	4.34422e-16	1.00000	4.34422e-16	1.00000
rad10	3.97509e-16	1.00000	3.97509e-16	1.00000
rad11	2.08916e-16	1.00000	2.08916e-16	1.00000
rad65	5.27113e-17	1.00000	5.27113e-17	1.00000
rad3	4.89075e-17	1.00000	4.89075e-17	1.00000
rad4	2.54908e-17	1.00000	2.54908e-17	1.00000
rad53	1.21524e-17	1.00000	1.21524e-17	1.00000
rad64	3.81364e-18	1.00000	3.81364e-18	1.00000
rad13	3.21728e-18	1.00000	3.21728e-18	1.00000
rad61	1.15622e-18	1.00000	1.15622e-18	1.00000
rad23	4.09338e-19	1.00000	4.09338e-19	1.00000
rad9	3.28483e-19	1.00000	3.28483e-19	1.00000
rad56	9.59450e-20	1.00000	9.59450e-20	1.00000
rad68syn	1.22154e-20	1.00000	1.22154e-20	1.00000
rad68anti	9.13042e-21	1.00000	9.13042e-21	1.00000
rad33	6.13678e-21	1.00000	6.13678e-21	1.00000
rad45	6.11333e-21	1.00000	6.11333e-21	1.00000
rad14	4.25175e-21	1.00000	4.25175e-21	1.00000
rad27	4.02090e-21	1.00000	4.02090e-21	1.00000
rad25	2.19220e-21	1.00000	2.19220e-21	1.00000
rad36	3.87711e-22	1.00000	3.87711e-22	1.00000
rad22	2.48684e-22	1.00000	2.48684e-22	1.00000
rad40syn	1.79705e-22	1.00000	1.79705e-22	1.00000
rad15	1.57746e-22	1.00000	1.57746e-22	1.00000
rad40anti	1.43346e-22	1.00000	1.43346e-22	1.00000
PAH8+H	3.45615e-23	1.00000	3.45615e-23	1.00000
rad19anti	7.52018e-24	1.00000	7.52018e-24	1.00000
rad73	7.13680e-24	1.00000	7.13680e-24	1.00000
rad31	2.88526e-25	1.00000	2.88526e-25	1.00000
rad71	7.12124e-26	1.00000	7.12124e-26	1.00000
rad20	6.91980e-26	1.00000	6.91980e-26	1.00000
rad21	5.18975e-26	1.00000	5.18975e-26	1.00000
rad47	1.20514e-26	1.00000	1.20514e-26	1.00000
rad5	3.27977e-27	1.00000	3.27977e-27	1.00000
rad18	2.69216e-27	1.00000	2.69216e-27	1.00000
rad12	1.84969e-27	1.00000	1.84969e-27	1.00000
rad24	7.02571e-29	1.00000	7.02571e-29	1.00000
rad19syn	1.76219e-32	1.00000	1.76219e-32	1.00000
rad8	2.56289e-57	1.00000	2.56289e-57	1.00000

0.100000000 Pa, 260.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.97464e-14 (1.00)	2.97464e-14 (1.00)
Formation of rad19	2.97293e-14 (0.999)	2.97293e-14 (0.999)
H-abstraction to cyc2enyl	1.70236e-17 (0.000572)	1.70236e-17 (0.000572)
H-abstraction to cyclenyl	3.02186e-20 (1.02e-06)	3.02186e-20 (1.02e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998946	0.998946	0.998946	0.998946
Benzene+cycloprop-2-enylidene	0.000572291	0.999518	0.000572291	0.999518
PhCHCCH2+H	0.000453740	0.999972	0.000453740	0.999972
PhCCH+CH3	8.15972e-06	0.999980	8.15972e-06	0.999980
C2H2+PhCH2	6.94079e-06	0.999987	6.94079e-06	0.999987
PhCCCH3+H	5.02825e-06	0.999992	5.02825e-06	0.999992
Ph+MeAc	4.51848e-06	0.999997	4.51848e-06	0.999997
rad67	1.30748e-06	0.999998	1.30748e-06	0.999998
Benzene+cycloprop-1-enylidene	1.01588e-06	0.999999	1.01588e-06	0.999999
Ph+Allene	5.84848e-07	1.000000	5.84848e-07	1.000000
rad35	5.55302e-07	1.000000	5.55302e-07	1.000000

PhCH2CCH+H	9.11123e-08	1.00000	9.11123e-08	1.00000
PAH7+H	6.19427e-08	1.00000	6.19427e-08	1.00000
rad37	1.74222e-08	1.00000	1.74222e-08	1.00000
rad39	1.74201e-08	1.00000	1.74201e-08	1.00000
rad30	1.07672e-08	1.00000	1.07672e-08	1.00000
PAH9+H	9.66836e-10	1.00000	9.66836e-10	1.00000
rad38	4.74523e-10	1.00000	4.74523e-10	1.00000
PhcycC3H3_A+H	9.76855e-11	1.00000	9.76855e-11	1.00000
PAH10+CH3	8.98218e-11	1.00000	8.98218e-11	1.00000
rad60syn	7.16754e-11	1.00000	7.16754e-11	1.00000
PAH3+H	4.92198e-11	1.00000	4.92198e-11	1.00000
rad60anti	3.63603e-11	1.00000	3.63603e-11	1.00000
rad46	3.16212e-11	1.00000	3.16212e-11	1.00000
rad59	9.34967e-12	1.00000	9.34967e-12	1.00000
rad6	5.58698e-12	1.00000	5.58698e-12	1.00000
rad54	3.23277e-12	1.00000	3.23277e-12	1.00000
rad43	2.89526e-12	1.00000	2.89526e-12	1.00000
Phenyl+cycC3H4	1.79997e-12	1.00000	0.00000	1.00000
PhcycC3H3_B+H	1.72356e-12	1.00000	1.72356e-12	1.00000
rad62	6.45736e-13	1.00000	6.45736e-13	1.00000
rad50	4.60416e-13	1.00000	4.60416e-13	1.00000
rad70	1.12346e-13	1.00000	1.12346e-13	1.00000
PAH1+H	6.44269e-14	1.00000	6.44269e-14	1.00000
rad55	4.95315e-14	1.00000	4.95315e-14	1.00000
rad28	5.35660e-15	1.00000	5.35660e-15	1.00000
rad52	5.29119e-15	1.00000	5.29119e-15	1.00000
rad2	4.98901e-15	1.00000	4.98901e-15	1.00000
rad58	3.93473e-15	1.00000	3.93473e-15	1.00000
rad34	3.63711e-15	1.00000	3.63711e-15	1.00000
rad51	2.60620e-15	1.00000	2.60620e-15	1.00000
rad41	1.01203e-15	1.00000	1.01203e-15	1.00000
rad26	7.57046e-16	1.00000	7.57046e-16	1.00000
rad7	5.82256e-16	1.00000	5.82256e-16	1.00000
rad42	5.79969e-16	1.00000	5.79969e-16	1.00000
rad1	3.59407e-16	1.00000	3.59407e-16	1.00000
rad10	2.97532e-16	1.00000	2.97532e-16	1.00000
rad11	1.56297e-16	1.00000	1.56297e-16	1.00000
rad65	6.92530e-17	1.00000	6.92530e-17	1.00000
rad3	3.66218e-17	1.00000	3.66218e-17	1.00000
rad53	1.96111e-17	1.00000	1.96111e-17	1.00000
rad4	1.91535e-17	1.00000	1.91535e-17	1.00000
rad64	6.41494e-18	1.00000	6.41494e-18	1.00000
rad13	2.42563e-18	1.00000	2.42563e-18	1.00000
rad61	2.22140e-18	1.00000	2.22140e-18	1.00000
rad9	4.32879e-19	1.00000	4.32879e-19	1.00000
rad23	2.91623e-19	1.00000	2.91623e-19	1.00000
rad56	1.95500e-19	1.00000	1.95500e-19	1.00000
rad68syn	2.53608e-20	1.00000	2.53608e-20	1.00000
rad68anti	1.88488e-20	1.00000	1.88488e-20	1.00000
rad33	4.64168e-21	1.00000	4.64168e-21	1.00000
rad45	4.34913e-21	1.00000	4.34913e-21	1.00000
rad14	3.19541e-21	1.00000	3.19541e-21	1.00000
rad27	3.02614e-21	1.00000	3.02614e-21	1.00000
rad25	1.65395e-21	1.00000	1.65395e-21	1.00000
rad40syn	4.46505e-22	1.00000	4.46505e-22	1.00000
rad40anti	3.55428e-22	1.00000	3.55428e-22	1.00000
rad36	2.77439e-22	1.00000	2.77439e-22	1.00000
rad15	2.07693e-22	1.00000	2.07693e-22	1.00000
rad22	1.76447e-22	1.00000	1.76447e-22	1.00000
PAH8+H	9.70996e-23	1.00000	9.70996e-23	1.00000
rad19anti	2.70468e-23	1.00000	2.70468e-23	1.00000
rad73	1.78966e-23	1.00000	1.78966e-23	1.00000
rad31	2.38345e-25	1.00000	2.38345e-25	1.00000
rad71	2.10620e-25	1.00000	2.10620e-25	1.00000
rad20	5.63400e-26	1.00000	5.63400e-26	1.00000
rad21	4.24660e-26	1.00000	4.24660e-26	1.00000
rad47	1.39189e-26	1.00000	1.39189e-26	1.00000
rad5	2.48926e-27	1.00000	2.48926e-27	1.00000
rad12	2.47565e-27	1.00000	2.47565e-27	1.00000
rad18	2.08349e-27	1.00000	2.08349e-27	1.00000
rad24	5.06797e-29	1.00000	5.06797e-29	1.00000
rad19syn	7.46104e-32	1.00000	7.46104e-32	1.00000
rad8	4.85327e-57	1.00000	4.85327e-57	1.00000

0.100000000 Pa, 270.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.24655e-14 (1.00)	3.24655e-14 (1.00)
Formation of rad19	3.24415e-14 (0.999)	3.24415e-14 (0.999)

H-abstraction to cyc2enyl | 2.38790e-17 (0.000736) 2.38790e-17 (0.000736)
H-abstraction to cyc1enyl | 5.45397e-20 (1.68e-06) 5.45397e-20 (1.68e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998755	0.998755	0.998755	0.998755
Benzene+cycloprop-2-enylidene	0.000735519	0.999491	0.000735519	0.999491
PhCHCCH2+H	0.000478041	0.999969	0.000478041	0.999969
PhCCH+CH3	8.60346e-06	0.999977	8.60346e-06	0.999977
C2H2+PhCH2	7.42782e-06	0.999985	7.42782e-06	0.999985
PhCCCH3+H	5.34182e-06	0.999990	5.34182e-06	0.999990
Ph+MeAc	4.86733e-06	0.999995	4.86733e-06	0.999995
Benzene+cycloprop-1-enylidene	1.67993e-06	0.999997	1.67993e-06	0.999997
rad67	1.40488e-06	0.999998	1.40488e-06	0.999998
Ph+Allene	6.50451e-07	0.999999	6.50451e-07	0.999999
rad35	5.94963e-07	0.999999	5.94963e-07	0.999999
PhCH2CCH+H	1.03175e-07	0.999999	1.03175e-07	0.999999
PAH7+H	6.77411e-08	0.999999	6.77411e-08	0.999999
rad37	1.91448e-08	0.999999	1.91448e-08	0.999999
rad39	1.90358e-08	1.000000	1.90358e-08	1.000000
rad30	1.15813e-08	1.000000	1.15813e-08	1.000000
PAH9+H	1.06691e-09	1.000000	1.06691e-09	1.000000
rad38	5.30398e-10	1.000000	5.30398e-10	1.000000
PhcycC3H3_A+H	1.30533e-10	1.000000	1.30533e-10	1.000000
PAH10+CH3	1.09052e-10	1.000000	1.09052e-10	1.000000
rad60syn	7.95960e-11	1.000000	7.95960e-11	1.000000
PAH3+H	5.69043e-11	1.000000	5.69043e-11	1.000000
rad60anti	4.04922e-11	1.000000	4.04922e-11	1.000000
rad46	3.55892e-11	1.000000	3.55892e-11	1.000000
rad59	1.07345e-11	1.000000	1.07345e-11	1.000000
rad6	4.21803e-12	1.000000	4.21803e-12	1.000000
rad54	3.92809e-12	1.000000	3.92809e-12	1.000000
rad43	3.41671e-12	1.000000	3.41671e-12	1.000000
PhcycC3H3_B+H	2.69149e-12	1.000000	2.69149e-12	1.000000
Phenyl+cycC3H4	2.60320e-12	1.000000	0.000000	1.000000
rad62	7.61421e-13	1.000000	7.61421e-13	1.000000
rad50	5.50036e-13	1.000000	5.50036e-13	1.000000
rad70	1.43120e-13	1.000000	1.43120e-13	1.000000
PAH1+H	8.65597e-14	1.000000	8.65597e-14	1.000000
rad55	6.30326e-14	1.000000	6.30326e-14	1.000000
rad52	6.58768e-15	1.000000	6.58768e-15	1.000000
rad58	5.12401e-15	1.000000	5.12401e-15	1.000000
rad34	4.91046e-15	1.000000	4.91046e-15	1.000000
rad28	4.03700e-15	1.000000	4.03700e-15	1.000000
rad2	3.75790e-15	1.000000	3.75790e-15	1.000000
rad51	3.39381e-15	1.000000	3.39381e-15	1.000000
rad41	1.38609e-15	1.000000	1.38609e-15	1.000000
rad42	7.74288e-16	1.000000	7.74288e-16	1.000000
rad26	5.71209e-16	1.000000	5.71209e-16	1.000000
rad7	4.38341e-16	1.000000	4.38341e-16	1.000000
rad1	2.74319e-16	1.000000	2.74319e-16	1.000000
rad10	2.24002e-16	1.000000	2.24002e-16	1.000000
rad11	1.17592e-16	1.000000	1.17592e-16	1.000000
rad65	9.14600e-17	1.000000	9.14600e-17	1.000000
rad53	3.13168e-17	1.000000	3.13168e-17	1.000000
rad3	2.75856e-17	1.000000	2.75856e-17	1.000000
rad4	1.44815e-17	1.000000	1.44815e-17	1.000000
rad64	1.06249e-17	1.000000	1.06249e-17	1.000000
rad61	4.14758e-18	1.000000	4.14758e-18	1.000000
rad13	1.83903e-18	1.000000	1.83903e-18	1.000000
rad9	6.64190e-19	1.000000	6.64190e-19	1.000000
rad56	3.84899e-19	1.000000	3.84899e-19	1.000000
rad23	2.09788e-19	1.000000	2.09788e-19	1.000000
rad68syn	5.07365e-20	1.000000	5.07365e-20	1.000000
rad68anti	3.75140e-20	1.000000	3.75140e-20	1.000000
rad33	3.53093e-21	1.000000	3.53093e-21	1.000000
rad45	3.12628e-21	1.000000	3.12628e-21	1.000000
rad14	2.41573e-21	1.000000	2.41573e-21	1.000000
rad27	2.29116e-21	1.000000	2.29116e-21	1.000000
rad25	1.25490e-21	1.000000	1.25490e-21	1.000000
rad40syn	1.04478e-21	1.000000	1.04478e-21	1.000000
rad40anti	8.29974e-22	1.000000	8.29974e-22	1.000000
rad15	3.18438e-22	1.000000	3.18438e-22	1.000000
PAH8+H	2.52572e-22	1.000000	2.52572e-22	1.000000
rad36	2.00721e-22	1.000000	2.00721e-22	1.000000
rad22	1.26436e-22	1.000000	1.26436e-22	1.000000
rad19anti	9.90884e-23	1.000000	9.90884e-23	1.000000
rad73	4.23462e-23	1.000000	4.23462e-23	1.000000
rad71	5.72794e-25	1.000000	5.72794e-25	1.000000
rad31	1.99992e-25	1.000000	1.99992e-25	1.000000

rad20	4.62821e-26	1.000000	4.62821e-26	1.000000
rad21	3.50675e-26	1.000000	3.50675e-26	1.000000
rad47	1.63660e-26	1.000000	1.63660e-26	1.000000
rad12	3.86171e-27	1.000000	3.86171e-27	1.000000
rad5	1.91519e-27	1.000000	1.91519e-27	1.000000
rad18	1.62769e-27	1.000000	1.62769e-27	1.000000
rad24	3.69489e-29	1.000000	3.69489e-29	1.000000
rad19syn	3.27847e-31	1.000000	3.27847e-31	1.000000
rad8	9.42101e-57	1.000000	9.42101e-57	1.000000

0.100000000 Pa, 280.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.52572e-14 (1.00)	3.52572e-14 (1.00)
Formation of rad19	3.52244e-14 (0.999)	3.52244e-14 (0.999)
H-abstraction to cyc2enyl	3.26639e-17 (0.000926)	3.26639e-17 (0.000926)
H-abstraction to cyclenyl	9.42926e-20 (2.67e-06)	9.42926e-20 (2.67e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998535	0.998535	0.998535	0.998535
Benzene+cycloprop-2-enylidene	0.000926445	0.999462	0.000926445	0.999462
PhCHCCH2+H	0.000504551	0.999966	0.000504551	0.999966
PhCCH+CH3	9.08526e-06	0.999975	9.08526e-06	0.999975
C2H2+PhCH2	7.96612e-06	0.999983	7.96612e-06	0.999983
PhCCCH3+H	5.68575e-06	0.999989	5.68575e-06	0.999989
Ph+MeAc	5.25498e-06	0.999994	5.25498e-06	0.999994
Benzene+cycloprop-1-enylidene	2.67442e-06	0.999997	2.67442e-06	0.999997
rad67	1.51304e-06	0.999999	1.51304e-06	0.999999
Ph+Allene	7.25741e-07	0.999999	7.25741e-07	0.999999
rad35	6.38895e-07	1.000000	6.38895e-07	1.000000
PhCH2CCH+H	1.17254e-07	1.000000	1.17254e-07	1.000000
PAH7+H	7.42849e-08	1.000000	7.42849e-08	1.000000
rad37	2.11000e-08	1.000000	2.11000e-08	1.000000
rad39	2.08559e-08	1.000000	2.08559e-08	1.000000
rad30	1.24882e-08	1.000000	1.24882e-08	1.000000
PAH9+H	1.18133e-09	1.000000	1.18133e-09	1.000000
rad38	5.95177e-10	1.000000	5.95177e-10	1.000000
PhcycC3H3_A+H	1.74259e-10	1.000000	1.74259e-10	1.000000
PAH10+CH3	1.32940e-10	1.000000	1.32940e-10	1.000000
rad60syn	8.86998e-11	1.000000	8.86998e-11	1.000000
PAH3+H	6.60781e-11	1.000000	6.60781e-11	1.000000
rad60anti	4.52540e-11	1.000000	4.52540e-11	1.000000
rad46	4.02141e-11	1.000000	4.02141e-11	1.000000
rad59	1.23761e-11	1.000000	1.23761e-11	1.000000
rad54	4.79192e-12	1.000000	4.79192e-12	1.000000
PhcycC3H3_B+H	4.15196e-12	1.000000	4.15196e-12	1.000000
rad43	4.04632e-12	1.000000	4.04632e-12	1.000000
Phenyl+cycC3H4	3.74742e-12	1.000000	0.000000	1.000000
rad6	3.20067e-12	1.000000	3.20067e-12	1.000000
rad62	9.00542e-13	1.000000	9.00542e-13	1.000000
rad50	6.60517e-13	1.000000	6.60517e-13	1.000000
rad70	1.82917e-13	1.000000	1.82917e-13	1.000000
PAH1+H	1.16448e-13	1.000000	1.16448e-13	1.000000
rad55	8.04598e-14	1.000000	8.04598e-14	1.000000
rad52	8.24556e-15	1.000000	8.24556e-15	1.000000
rad58	6.69521e-15	1.000000	6.69521e-15	1.000000
rad34	6.63777e-15	1.000000	6.63777e-15	1.000000
rad51	4.44087e-15	1.000000	4.44087e-15	1.000000
rad28	3.05821e-15	1.000000	3.05821e-15	1.000000
rad2	2.84605e-15	1.000000	2.84605e-15	1.000000
rad41	1.89640e-15	1.000000	1.89640e-15	1.000000
rad42	1.03295e-15	1.000000	1.03295e-15	1.000000
rad26	4.33349e-16	1.000000	4.33349e-16	1.000000
rad7	3.31734e-16	1.000000	3.31734e-16	1.000000
rad1	2.10722e-16	1.000000	2.10722e-16	1.000000
rad10	1.69586e-16	1.000000	1.69586e-16	1.000000
rad65	1.21289e-16	1.000000	1.21289e-16	1.000000
rad11	8.89444e-17	1.000000	8.89444e-17	1.000000
rad53	4.94706e-17	1.000000	4.94706e-17	1.000000
rad3	2.08980e-17	1.000000	2.08980e-17	1.000000
rad64	1.73303e-17	1.000000	1.73303e-17	1.000000
rad4	1.10149e-17	1.000000	1.10149e-17	1.000000
rad61	7.53479e-18	1.000000	7.53479e-18	1.000000
rad13	1.40172e-18	1.000000	1.40172e-18	1.000000
rad9	1.18894e-18	1.000000	1.18894e-18	1.000000
rad56	7.33285e-19	1.000000	7.33285e-19	1.000000
rad23	1.52370e-19	1.000000	1.52370e-19	1.000000
rad68syn	9.79930e-20	1.000000	9.79930e-20	1.000000

rad68anti	7.21184e-20	1.00000	7.21184e-20	1.00000
rad33	2.70062e-21	1.00000	2.70062e-21	1.00000
rad40syn	2.31154e-21	1.00000	2.31154e-21	1.00000
rad45	2.27045e-21	1.00000	2.27045e-21	1.00000
rad14	1.83664e-21	1.00000	1.83664e-21	1.00000
rad40anti	1.83275e-21	1.00000	1.83275e-21	1.00000
rad27	1.74469e-21	1.00000	1.74469e-21	1.00000
rad25	9.57247e-22	1.00000	9.57247e-22	1.00000
PAH8+H	6.11966e-22	1.00000	6.11966e-22	1.00000
rad15	5.69688e-22	1.00000	5.69688e-22	1.00000
rad19anti	3.67602e-22	1.00000	3.67602e-22	1.00000
rad36	1.46805e-22	1.00000	1.46805e-22	1.00000
rad73	9.48301e-23	1.00000	9.48301e-23	1.00000
rad22	9.14795e-23	1.00000	9.14795e-23	1.00000
rad71	1.44232e-24	1.00000	1.44232e-24	1.00000
rad31	1.70705e-25	1.00000	1.70705e-25	1.00000
rad20	3.83511e-26	1.00000	3.83511e-26	1.00000
rad21	2.92172e-26	1.00000	2.92172e-26	1.00000
rad47	1.96053e-26	1.00000	1.96053e-26	1.00000
rad12	7.03524e-27	1.00000	7.03524e-27	1.00000
rad5	1.49337e-27	1.00000	1.49337e-27	1.00000
rad18	1.28308e-27	1.00000	1.28308e-27	1.00000
rad24	2.72244e-29	1.00000	2.72244e-29	1.00000
rad19syn	1.48909e-30	1.00000	1.48909e-30	1.00000
rad8	1.87505e-56	1.00000	1.87505e-56	1.00000

0.100000000 Pa, 290.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.81171e-14 (1.00)	3.81171e-14 (1.00)
Formation of rad19	3.80733e-14 (0.999)	3.80733e-14 (0.999)
H-abstraction to cyc2enyl	4.36868e-17 (0.00115)	4.36868e-17 (0.00115)
H-abstraction to cyclenyl	1.56861e-19 (4.12e-06)	1.56861e-19 (4.12e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998283	0.998283	0.998283	0.998283
Benzene+cycloprop-2-enylidene	0.00114612	0.999430	0.00114612	0.999430
PhCHCCH2+H	0.000533451	0.999963	0.000533451	0.999963
PhCCH+CH3	9.60787e-06	0.999973	9.60787e-06	0.999973
C2H2+PhCH2	8.56076e-06	0.999981	8.56076e-06	0.999981
PhCCCH3+H	6.06272e-06	0.999987	6.06272e-06	0.999987
Ph+MeAc	5.68554e-06	0.999993	5.68554e-06	0.999993
Benzene+cycloprop-1-enylidene	4.11523e-06	0.999997	4.11523e-06	0.999997
rad67	1.63310e-06	0.999999	1.63310e-06	0.999999
Ph+Allene	8.12156e-07	0.999999	8.12156e-07	0.999999
rad35	6.87540e-07	1.00000	6.87540e-07	1.00000
PhCH2CCH+H	1.33690e-07	1.00000	1.33690e-07	1.00000
PAH7+H	8.16685e-08	1.00000	8.16685e-08	1.00000
rad37	2.33191e-08	1.00000	2.33191e-08	1.00000
rad39	2.29057e-08	1.00000	2.29057e-08	1.00000
rad30	1.34987e-08	1.00000	1.34987e-08	1.00000
PAH9+H	1.31223e-09	1.00000	1.31223e-09	1.00000
rad38	6.70338e-10	1.00000	6.70338e-10	1.00000
PhcycC3H3_A+H	2.32242e-10	1.00000	2.32242e-10	1.00000
PAH10+CH3	1.62621e-10	1.00000	1.62621e-10	1.00000
rad60syn	9.91677e-11	1.00000	9.91677e-11	1.00000
PAH3+H	7.70384e-11	1.00000	7.70384e-11	1.00000
rad60anti	5.07440e-11	1.00000	5.07440e-11	1.00000
rad46	4.56086e-11	1.00000	4.56086e-11	1.00000
rad59	1.43233e-11	1.00000	1.43233e-11	1.00000
PhcycC3H3_B+H	6.32698e-12	1.00000	6.32698e-12	1.00000
rad54	5.86510e-12	1.00000	5.86510e-12	1.00000
Phenyl+cycC3H4	5.36584e-12	1.00000	0.00000	1.00000
rad43	4.80643e-12	1.00000	4.80643e-12	1.00000
rad6	2.44062e-12	1.00000	2.44062e-12	1.00000
rad62	1.06776e-12	1.00000	1.06776e-12	1.00000
rad50	7.96875e-13	1.00000	7.96875e-13	1.00000
rad70	2.34332e-13	1.00000	2.34332e-13	1.00000
PAH1+H	1.56696e-13	1.00000	1.56696e-13	1.00000
rad55	1.02931e-13	1.00000	1.02931e-13	1.00000
rad52	1.03673e-14	1.00000	1.03673e-14	1.00000
rad34	8.97421e-15	1.00000	8.97421e-15	1.00000
rad58	8.76880e-15	1.00000	8.76880e-15	1.00000
rad51	5.83278e-15	1.00000	5.83278e-15	1.00000
rad41	2.58959e-15	1.00000	2.58959e-15	1.00000
rad28	2.32827e-15	1.00000	2.32827e-15	1.00000
rad2	2.16709e-15	1.00000	2.16709e-15	1.00000
rad42	1.37594e-15	1.00000	1.37594e-15	1.00000

rad26	3.30581e-16	1.00000	3.30581e-16	1.00000
rad7	2.52331e-16	1.00000	2.52331e-16	1.00000
rad1	1.62906e-16	1.00000	1.62906e-16	1.00000
rad65	1.61326e-16	1.00000	1.61326e-16	1.00000
rad10	1.29099e-16	1.00000	1.29099e-16	1.00000
rad53	7.72577e-17	1.00000	7.72577e-17	1.00000
rad11	6.76227e-17	1.00000	6.76227e-17	1.00000
rad64	2.78325e-17	1.00000	2.78325e-17	1.00000
rad3	1.59210e-17	1.00000	1.59210e-17	1.00000
rad61	1.33273e-17	1.00000	1.33273e-17	1.00000
rad4	8.42789e-18	1.00000	8.42789e-18	1.00000
rad9	2.41444e-18	1.00000	2.41444e-18	1.00000
rad56	1.35312e-18	1.00000	1.35312e-18	1.00000
rad13	1.07389e-18	1.00000	1.07389e-18	1.00000
rad68syn	1.82951e-19	1.00000	1.82951e-19	1.00000
rad68anti	1.34088e-19	1.00000	1.34088e-19	1.00000
rad23	1.11741e-19	1.00000	1.11741e-19	1.00000
rad40syn	4.85238e-21	1.00000	4.85238e-21	1.00000
rad40anti	3.84041e-21	1.00000	3.84041e-21	1.00000
rad33	2.07650e-21	1.00000	2.07650e-21	1.00000
rad45	1.66612e-21	1.00000	1.66612e-21	1.00000
rad14	1.40415e-21	1.00000	1.40415e-21	1.00000
PAH8+H	1.38868e-21	1.00000	1.38868e-21	1.00000
rad19anti	1.37225e-21	1.00000	1.37225e-21	1.00000
rad27	1.33614e-21	1.00000	1.33614e-21	1.00000
rad15	1.15636e-21	1.00000	1.15636e-21	1.00000
rad25	7.33986e-22	1.00000	7.33986e-22	1.00000
rad73	2.01535e-22	1.00000	2.01535e-22	1.00000
rad36	1.08564e-22	1.00000	1.08564e-22	1.00000
rad22	6.68325e-23	1.00000	6.68325e-23	1.00000
rad71	3.38379e-24	1.00000	3.38379e-24	1.00000
rad31	1.48770e-25	1.00000	1.48770e-25	1.00000
rad20	3.20526e-26	1.00000	3.20526e-26	1.00000
rad21	2.45586e-26	1.00000	2.45586e-26	1.00000
rad47	2.39439e-26	1.00000	2.39439e-26	1.00000
rad12	1.45565e-26	1.00000	1.45565e-26	1.00000
rad5	1.18021e-27	1.00000	1.18021e-27	1.00000
rad18	1.02026e-27	1.00000	1.02026e-27	1.00000
rad24	2.02756e-29	1.00000	2.02756e-29	1.00000
rad19syn	6.95957e-30	1.00000	6.95957e-30	1.00000
rad8	3.82774e-56	1.00000	3.82774e-56	1.00000

0.100000000 Pa, 300.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.34809e-14 (1.00)	5.34809e-14 (1.00)
Formation of rad19	5.34010e-14 (0.999)	5.34010e-14 (0.999)
H-abstraction to cyc2enyl	7.95823e-17 (0.00149)	7.95823e-17 (0.00149)
H-abstraction to cyclenyl	3.44981e-19 (6.45e-06)	3.44981e-19 (6.45e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997939	0.997939	0.997939	0.997939
Benzene+cycloprop-2-enylidene	0.00148805	0.999427	0.00148805	0.999427
PhCHCCH2+H	0.000529750	0.999957	0.000529750	0.999957
PhCCH+CH3	1.04575e-05	0.999968	1.04575e-05	0.999968
C2H2+PhCH2	9.95310e-06	0.999978	9.95310e-06	0.999978
Benzene+cycloprop-1-enylidene	6.45054e-06	0.999984	6.45054e-06	0.999984
PhCCCH3+H	6.36653e-06	0.999990	6.36653e-06	0.999990
Ph+MeAc	5.99692e-06	0.999996	5.99692e-06	0.999996
rad67	1.76886e-06	0.999998	1.76886e-06	0.999998
Ph+Allene	8.16342e-07	0.999999	8.16342e-07	0.999999
rad35	7.31713e-07	1.000000	7.31713e-07	1.000000
PhCH2CCH+H	1.61945e-07	1.000000	1.61945e-07	1.000000
PAH7+H	1.00369e-07	1.000000	1.00369e-07	1.000000
rad37	2.83137e-08	1.000000	2.83137e-08	1.000000
rad39	2.47610e-08	1.000000	2.47610e-08	1.000000
rad30	1.39360e-08	1.000000	1.39360e-08	1.000000
PAH9+H	1.67546e-09	1.000000	1.67546e-09	1.000000
rad38	7.71363e-10	1.000000	7.71363e-10	1.000000
PhcycC3H3_A+H	3.25286e-10	1.000000	3.25286e-10	1.000000
PAH10+CH3	2.37210e-10	1.000000	2.37210e-10	1.000000
rad60syn	1.06796e-10	1.000000	1.06796e-10	1.000000
PAH3+H	9.84348e-11	1.000000	9.84348e-11	1.000000
rad60anti	5.51374e-11	1.000000	5.51374e-11	1.000000
rad46	5.44310e-11	1.000000	5.44310e-11	1.000000
rad6	2.42118e-11	1.000000	2.42118e-11	1.000000
rad59	1.67195e-11	1.000000	1.67195e-11	1.000000
PhcycC3H3_B+H	1.05897e-11	1.000000	1.05897e-11	1.000000

Phenyl+cycC3H4	8.20984e-12	1.00000	0.00000	1.00000
rad54	7.63771e-12	1.00000	7.63771e-12	1.00000
rad43	5.65375e-12	1.00000	5.65375e-12	1.00000
rad62	1.25122e-12	1.00000	1.25122e-12	1.00000
rad50	1.03047e-12	1.00000	1.03047e-12	1.00000
rad70	3.12473e-13	1.00000	3.12473e-13	1.00000
PAH1+H	1.93353e-13	1.00000	1.93353e-13	1.00000
rad55	1.33372e-13	1.00000	1.33372e-13	1.00000
rad28	2.31132e-14	1.00000	2.31132e-14	1.00000
rad2	2.16852e-14	1.00000	2.16852e-14	1.00000
rad52	1.45373e-14	1.00000	1.45373e-14	1.00000
rad34	1.28220e-14	1.00000	1.28220e-14	1.00000
rad58	1.11178e-14	1.00000	1.11178e-14	1.00000
rad51	8.22272e-15	1.00000	8.22272e-15	1.00000
rad9	6.99355e-15	1.00000	6.99355e-15	1.00000
rad41	3.58143e-15	1.00000	3.58143e-15	1.00000
rad26	3.30664e-15	1.00000	3.30664e-15	1.00000
rad7	2.60155e-15	1.00000	2.60155e-15	1.00000
rad42	1.81774e-15	1.00000	1.81774e-15	1.00000
rad1	1.63406e-15	1.00000	1.63406e-15	1.00000
rad10	1.25878e-15	1.00000	1.25878e-15	1.00000
rad11	6.73647e-16	1.00000	6.73647e-16	1.00000
rad65	2.32200e-16	1.00000	2.32200e-16	1.00000
rad3	1.67957e-16	1.00000	1.67957e-16	1.00000
rad53	1.29339e-16	1.00000	1.29339e-16	1.00000
rad4	8.35255e-17	1.00000	8.35255e-17	1.00000
rad64	4.98536e-17	1.00000	4.98536e-17	1.00000
rad61	2.74901e-17	1.00000	2.74901e-17	1.00000
rad19anti	1.47634e-17	1.00000	1.47634e-17	1.00000
rad13	1.25262e-17	1.00000	1.25262e-17	1.00000
rad15	3.97738e-18	1.00000	3.97738e-18	1.00000
rad56	3.01544e-18	1.00000	3.01544e-18	1.00000
rad23	2.81421e-18	1.00000	2.81421e-18	1.00000
rad68syn	3.96691e-19	1.00000	3.96691e-19	1.00000
rad68anti	2.85721e-19	1.00000	2.85721e-19	1.00000
rad45	4.82037e-20	1.00000	4.82037e-20	1.00000
rad33	2.97811e-20	1.00000	2.97811e-20	1.00000
rad27	1.80430e-20	1.00000	1.80430e-20	1.00000
rad14	1.74521e-20	1.00000	1.74521e-20	1.00000
rad40syn	1.34626e-20	1.00000	1.34626e-20	1.00000
rad25	1.10943e-20	1.00000	1.10943e-20	1.00000
rad40anti	1.02835e-20	1.00000	1.02835e-20	1.00000
PAH8+H	5.54151e-21	1.00000	5.54151e-21	1.00000
rad22	2.66398e-21	1.00000	2.66398e-21	1.00000
rad36	1.64292e-21	1.00000	1.64292e-21	1.00000
rad73	6.55200e-22	1.00000	6.55200e-22	1.00000
rad12	7.26137e-23	1.00000	7.26137e-23	1.00000
rad71	2.13553e-23	1.00000	2.13553e-23	1.00000
rad31	1.47969e-23	1.00000	1.47969e-23	1.00000
rad20	1.03501e-23	1.00000	1.03501e-23	1.00000
rad21	1.01808e-23	1.00000	1.01808e-23	1.00000
rad5	5.33034e-24	1.00000	5.33034e-24	1.00000
rad19syn	1.12386e-24	1.00000	1.12386e-24	1.00000
rad18	9.34024e-25	1.00000	9.34024e-25	1.00000
rad47	1.76839e-25	1.00000	1.76839e-25	1.00000
rad24	7.59802e-28	1.00000	7.59802e-28	1.00000
rad72	4.68294e-30	1.00000	4.68294e-30	1.00000
rad8	3.07179e-42	1.00000	3.07179e-42	1.00000

0.100000000 Pa, 310.000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	5.92544e-14 (1.00)	5.92544e-14 (1.00)		
Formation of rad19	5.91462e-14 (0.998)	5.91462e-14 (0.998)		
H-abstraction to cyc2enyl	1.07628e-16 (0.00182)	1.07628e-16 (0.00182)		
H-abstraction to cyclenyl	5.62537e-19 (9.49e-06)	5.62537e-19 (9.49e-06)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997536	0.997536	0.997536	0.997536
Benzene+cycloprop-2-enylidene	0.00181637	0.999353	0.00181637	0.999353
PhCHCCH2+H	0.000599117	0.999952	0.000599117	0.999952
PhCCH+CH3	1.07854e-05	0.999963	1.07854e-05	0.999963
C2H2+PhCH2	9.93963e-06	0.999973	9.93963e-06	0.999973
Benzene+cycloprop-1-enylidene	9.49359e-06	0.999982	9.49359e-06	0.999982
PhCCCH3+H	6.92631e-06	0.999989	6.92631e-06	0.999989
Ph+MeAc	6.69251e-06	0.999996	6.69251e-06	0.999996
rad67	1.91369e-06	0.999998	1.91369e-06	0.999998
Ph+Allene	1.02490e-06	0.999999	1.02490e-06	0.999999

rad35	8.00793e-07	0.999999	8.00793e-07	0.999999
PhCH2CCH+H	1.75228e-07	1.000000	1.75228e-07	1.000000
PAH7+H	9.93662e-08	1.000000	9.93662e-08	1.000000
rad37	2.86891e-08	1.000000	2.86891e-08	1.000000
rad39	2.78038e-08	1.000000	2.78038e-08	1.000000
rad30	1.58739e-08	1.000000	1.58739e-08	1.000000
PAH9+H	1.63306e-09	1.000000	1.63306e-09	1.000000
rad38	8.58699e-10	1.000000	8.58699e-10	1.000000
PhcycC3H3_A+H	4.09093e-10	1.000000	4.09093e-10	1.000000
PAH10+CH3	2.45111e-10	1.000000	2.45111e-10	1.000000
rad60syn	1.25024e-10	1.000000	1.25024e-10	1.000000
PAH3+H	1.05767e-10	1.000000	1.05767e-10	1.000000
rad60anti	6.43615e-11	1.000000	6.43615e-11	1.000000
rad46	5.92385e-11	1.000000	5.92385e-11	1.000000
rad59	1.93707e-11	1.000000	1.93707e-11	1.000000
PhcycC3H3_B+H	1.41414e-11	1.000000	1.41414e-11	1.000000
Phenyl+cycC3H4	1.07882e-11	1.000000	0.000000	1.000000
rad54	8.84667e-12	1.000000	8.84667e-12	1.000000
rad43	6.82723e-12	1.000000	6.82723e-12	1.000000
rad62	1.50894e-12	1.000000	1.50894e-12	1.000000
rad6	1.44003e-12	1.000000	1.44003e-12	1.000000
rad50	1.17282e-12	1.000000	1.17282e-12	1.000000
rad70	3.85773e-13	1.000000	3.85773e-13	1.000000
PAH1+H	2.82635e-13	1.000000	2.82635e-13	1.000000
rad55	1.68912e-13	1.000000	1.68912e-13	1.000000
rad52	1.65466e-14	1.000000	1.65466e-14	1.000000
rad34	1.63340e-14	1.000000	1.63340e-14	1.000000
rad58	1.50782e-14	1.000000	1.50782e-14	1.000000
rad51	1.01229e-14	1.000000	1.01229e-14	1.000000
rad41	4.78214e-15	1.000000	4.78214e-15	1.000000
rad42	2.42208e-15	1.000000	2.42208e-15	1.000000
rad28	1.36956e-15	1.000000	1.36956e-15	1.000000
rad2	1.27805e-15	1.000000	1.27805e-15	1.000000
rad65	2.86424e-16	1.000000	2.86424e-16	1.000000
rad26	1.95973e-16	1.000000	1.95973e-16	1.000000
rad53	1.81386e-16	1.000000	1.81386e-16	1.000000
rad7	1.48215e-16	1.000000	1.48215e-16	1.000000
rad1	9.93434e-17	1.000000	9.93434e-17	1.000000
rad10	7.61289e-17	1.000000	7.61289e-17	1.000000
rad64	6.83769e-17	1.000000	6.83769e-17	1.000000
rad11	3.96912e-17	1.000000	3.96912e-17	1.000000
rad61	3.85152e-17	1.000000	3.85152e-17	1.000000
rad9	1.25108e-17	1.000000	1.25108e-17	1.000000
rad3	9.40502e-18	1.000000	9.40502e-18	1.000000
rad4	5.02639e-18	1.000000	5.02639e-18	1.000000
rad56	4.19582e-18	1.000000	4.19582e-18	1.000000
rad13	6.40100e-19	1.000000	6.40100e-19	1.000000
rad68syn	5.77860e-19	1.000000	5.77860e-19	1.000000
rad68anti	4.20632e-19	1.000000	4.20632e-19	1.000000
rad23	6.19693e-20	1.000000	6.19693e-20	1.000000
rad19anti	1.89606e-20	1.000000	1.89606e-20	1.000000
rad40syn	1.84823e-20	1.000000	1.84823e-20	1.000000
rad40anti	1.45826e-20	1.000000	1.45826e-20	1.000000
rad15	5.98893e-21	1.000000	5.98893e-21	1.000000
PAH8+H	5.98744e-21	1.000000	5.98744e-21	1.000000
rad33	1.24730e-21	1.000000	1.24730e-21	1.000000
rad45	9.27450e-22	1.000000	9.27450e-22	1.000000
rad14	8.35078e-22	1.000000	8.35078e-22	1.000000
rad27	7.97889e-22	1.000000	7.97889e-22	1.000000
rad73	7.85906e-22	1.000000	7.85906e-22	1.000000
rad25	4.38289e-22	1.000000	4.38289e-22	1.000000
rad36	6.14906e-23	1.000000	6.14906e-23	1.000000
rad22	3.67736e-23	1.000000	3.67736e-23	1.000000
rad71	1.53983e-23	1.000000	1.53983e-23	1.000000
rad31	1.28555e-25	1.000000	1.28555e-25	1.000000
rad12	7.86018e-26	1.000000	7.86018e-26	1.000000
rad47	3.79333e-26	1.000000	3.79333e-26	1.000000
rad20	2.29777e-26	1.000000	2.29777e-26	1.000000
rad21	1.78226e-26	1.000000	1.78226e-26	1.000000
rad5	7.68714e-28	1.000000	7.68714e-28	1.000000
rad18	6.61872e-28	1.000000	6.61872e-28	1.000000
rad19syn	1.62279e-28	1.000000	1.62279e-28	1.000000
rad24	1.16377e-29	1.000000	1.16377e-29	1.000000
rad8	1.72484e-55	1.000000	1.72484e-55	1.000000

0.100000000 Pa, 400.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.29463e-13 (1.00)	1.29463e-13 (1.00)

Formation of rad19 | 1.28526e-13 (0.993) 1.28526e-13 (0.993)
H-abstraction to cyc2enyl | 9.19357e-16 (0.00710) 9.19357e-16 (0.00710)
H-abstraction to cyclenyl | 1.69485e-17 (0.000131) 1.69485e-17 (0.000131)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.991683	0.991683	0.991683	0.991683
Benzene+cycloprop-2-enylidene	0.00710133	0.998784	0.00710133	0.998784
PhCHCCH2+H	0.00100581	0.999790	0.00100581	0.999790
Benzene+cycloprop-1-enylidene	0.000130914	0.999921	0.000130914	0.999921
C2H2+PhCH2	2.22409e-05	0.999943	2.22409e-05	0.999943
PhCCH+CH3	1.95073e-05	0.999962	1.95073e-05	0.999962
Ph+MeAc	1.45170e-05	0.999977	1.45170e-05	0.999977
PhCCCH3+H	1.31947e-05	0.999990	1.31947e-05	0.999990
rad67	4.22150e-06	0.999994	4.22150e-06	0.999994
Ph+Allene	2.97124e-06	0.999997	2.97124e-06	0.999997
rad35	1.68901e-06	0.999999	1.68901e-06	0.999999
PhCH2CCH+H	6.92462e-07	1.000000	6.92462e-07	1.000000
PAH7+H	2.89506e-07	1.000000	2.89506e-07	1.000000
rad37	8.82146e-08	1.000000	8.82146e-08	1.000000
rad39	7.04573e-08	1.000000	7.04573e-08	1.000000
rad30	3.41218e-08	1.000000	3.41218e-08	1.000000
PAH9+H	5.66740e-09	1.000000	5.66740e-09	1.000000
PhcycC3H3_A+H	4.88900e-09	1.000000	4.88900e-09	1.000000
rad38	3.07311e-09	1.000000	3.07311e-09	1.000000
PAH10+CH3	1.94142e-09	1.000000	1.94142e-09	1.000000
PAH3+H	5.34405e-10	1.000000	5.34405e-10	1.000000
PhcycC3H3_B+H	4.15152e-10	1.000000	4.15152e-10	1.000000
rad60syn	3.79094e-10	1.000000	3.79094e-10	1.000000
rad46	2.31145e-10	1.000000	2.31145e-10	1.000000
Phenyl+cycC3H4	2.22328e-10	1.000000	0.000000	1.000000
rad60anti	2.01831e-10	1.000000	2.01831e-10	1.000000
rad59	8.49227e-11	1.000000	8.49227e-11	1.000000
rad54	6.39095e-11	1.000000	6.39095e-11	1.000000
rad43	3.46914e-11	1.000000	3.46914e-11	1.000000
rad50	8.28209e-12	1.000000	8.28209e-12	1.000000
rad62	7.28218e-12	1.000000	7.28218e-12	1.000000
rad6	4.39275e-12	1.000000	4.39275e-12	1.000000
rad70	3.85072e-12	1.000000	3.85072e-12	1.000000
PAH1+H	3.60825e-12	1.000000	3.60825e-12	1.000000
rad9	2.04223e-12	1.000000	2.04223e-12	1.000000
rad55	1.59920e-12	1.000000	1.59920e-12	1.000000
rad34	2.43820e-13	1.000000	2.43820e-13	1.000000
rad52	1.72495e-13	1.000000	1.72495e-13	1.000000
rad58	1.69175e-13	1.000000	1.69175e-13	1.000000
rad51	1.42813e-13	1.000000	1.42813e-13	1.000000
rad41	6.83265e-14	1.000000	6.83265e-14	1.000000
rad19anti	4.77861e-14	1.000000	4.77861e-14	1.000000
rad42	2.71672e-14	1.000000	2.71672e-14	1.000000
rad2	2.40734e-14	1.000000	2.40734e-14	1.000000
rad53	6.87755e-15	1.000000	6.87755e-15	1.000000
rad65	4.39022e-15	1.000000	4.39022e-15	1.000000
rad28	3.98484e-15	1.000000	3.98484e-15	1.000000
rad61	3.43056e-15	1.000000	3.43056e-15	1.000000
rad64	3.05720e-15	1.000000	3.05720e-15	1.000000
rad26	2.55905e-15	1.000000	2.55905e-15	1.000000
rad1	2.24036e-15	1.000000	2.24036e-15	1.000000
rad10	1.40525e-15	1.000000	1.40525e-15	1.000000
rad15	1.21928e-15	1.000000	1.21928e-15	1.000000
rad23	1.04212e-15	1.000000	1.04212e-15	1.000000
rad56	5.30840e-16	1.000000	5.30840e-16	1.000000
rad7	4.79481e-16	1.000000	4.79481e-16	1.000000
rad3	1.75193e-16	1.000000	1.75193e-16	1.000000
rad11	1.26087e-16	1.000000	1.26087e-16	1.000000
rad4	9.22630e-17	1.000000	9.22630e-17	1.000000
rad68syn	7.48168e-17	1.000000	7.48168e-17	1.000000
rad68anti	5.24779e-17	1.000000	5.24779e-17	1.000000
rad45	3.75683e-17	1.000000	3.75683e-17	1.000000
rad40syn	6.39175e-18	1.000000	6.39175e-18	1.000000
PAH8+H	5.94605e-18	1.000000	5.94605e-18	1.000000
rad40anti	4.74413e-18	1.000000	4.74413e-18	1.000000
rad13	2.53170e-18	1.000000	2.53170e-18	1.000000
rad36	1.43991e-18	1.000000	1.43991e-18	1.000000
rad73	4.85955e-19	1.000000	4.85955e-19	1.000000
rad22	4.69160e-19	1.000000	4.69160e-19	1.000000
rad19syn	2.04434e-19	1.000000	2.04434e-19	1.000000
rad31	5.06211e-20	1.000000	5.06211e-20	1.000000
rad71	4.98004e-20	1.000000	4.98004e-20	1.000000
rad12	3.45598e-20	1.000000	3.45598e-20	1.000000
rad27	2.20141e-20	1.000000	2.20141e-20	1.000000

rad14	1.60679e-20	1.00000	1.60679e-20	1.00000
rad33	6.60565e-21	1.00000	6.60565e-21	1.00000
rad25	2.31835e-21	1.00000	2.31835e-21	1.00000
rad47	7.64570e-24	1.00000	7.64570e-24	1.00000
rad21	7.22711e-24	1.00000	7.22711e-24	1.00000
rad20	6.63972e-24	1.00000	6.63972e-24	1.00000
rad5	2.47732e-24	1.00000	2.47732e-24	1.00000
rad72	7.66822e-25	1.00000	7.66822e-25	1.00000
rad24	4.51492e-25	1.00000	4.51492e-25	1.00000
rad18	3.81682e-25	1.00000	3.81682e-25	1.00000
rad8	6.69364e-39	1.00000	6.69364e-39	1.00000

0.100000000 Pa, 500.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.52837e-13 (1.00)	2.52837e-13 (1.00)
Formation of rad19	2.47941e-13 (0.981)	2.47941e-13 (0.981)
H-abstraction to cyc2enyl	4.69058e-15 (0.0186)	4.69058e-15 (0.0186)
H-abstraction to cyclenyl	2.05381e-16 (0.000812)	2.05381e-16 (0.000812)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.978428	0.978428	0.978428	0.978428
Benzene+cycloprop-2-enylidene	0.0185518	0.996979	0.0185518	0.996979
PhCHCCH2+H	0.00202475	0.999004	0.00202475	0.999004
Benzene+cycloprop-1-enylidene	0.000812306	0.999816	0.000812306	0.999816
C2H2+PhCH2	5.13332e-05	0.999868	5.13332e-05	0.999868
PhCCH+CH3	3.71170e-05	0.999905	3.71170e-05	0.999905
Ph+MeAc	3.63098e-05	0.999941	3.63098e-05	0.999941
PhCCCH3+H	2.84448e-05	0.999970	2.84448e-05	0.999970
Ph+Allene	1.09445e-05	0.999981	1.09445e-05	0.999981
rad67	1.05822e-05	0.999991	1.05822e-05	0.999991
rad35	4.10933e-06	0.999995	4.10933e-06	0.999995
PhCH2CCH+H	2.95333e-06	0.999998	2.95333e-06	0.999998
PAH7+H	8.51365e-07	0.999999	8.51365e-07	0.999999
rad37	2.86677e-07	0.999999	2.86677e-07	0.999999
rad39	2.02070e-07	0.999999	2.02070e-07	0.999999
rad30	8.94912e-08	1.000000	8.94912e-08	1.000000
PhcycC3H3_A+H	5.02852e-08	1.000000	5.02852e-08	1.000000
PAH9+H	2.06853e-08	1.000000	2.06853e-08	1.000000
PAH10+CH3	1.44055e-08	1.000000	1.44055e-08	1.000000
rad38	1.31825e-08	1.000000	1.31825e-08	1.000000
PhcycC3H3_B+H	7.81120e-09	1.000000	7.81120e-09	1.000000
Phenyl+cycC3H4	3.55660e-09	1.000000	0.000000	1.000000
PAH3+H	2.97651e-09	1.000000	2.97651e-09	1.000000
rad60syn	1.43182e-09	1.000000	1.43182e-09	1.000000
rad46	1.04902e-09	1.000000	1.04902e-09	1.000000
rad60anti	7.84369e-10	1.000000	7.84369e-10	1.000000
rad54	4.68589e-10	1.000000	4.68589e-10	1.000000
rad59	4.42104e-10	1.000000	4.42104e-10	1.000000
rad43	1.96282e-10	1.000000	1.96282e-10	1.000000
rad9	1.62815e-10	1.000000	1.62815e-10	1.000000
rad50	6.65678e-11	1.000000	6.65678e-11	1.000000
PAH1+H	4.68873e-11	1.000000	4.68873e-11	1.000000
rad62	3.77616e-11	1.000000	3.77616e-11	1.000000
rad70	3.76405e-11	1.000000	3.76405e-11	1.000000
rad55	1.50967e-11	1.000000	1.50967e-11	1.000000
rad6	9.33638e-12	1.000000	9.33638e-12	1.000000
rad19anti	6.68658e-12	1.000000	6.68658e-12	1.000000
rad34	3.22061e-12	1.000000	3.22061e-12	1.000000
rad51	2.08238e-12	1.000000	2.08238e-12	1.000000
rad58	2.05100e-12	1.000000	2.05100e-12	1.000000
rad52	1.88554e-12	1.000000	1.88554e-12	1.000000
rad41	8.64014e-13	1.000000	8.64014e-13	1.000000
rad2	8.28635e-13	1.000000	8.28635e-13	1.000000
rad23	6.14992e-13	1.000000	6.14992e-13	1.000000
rad42	2.74840e-13	1.000000	2.74840e-13	1.000000
rad53	1.70497e-13	1.000000	1.70497e-13	1.000000
rad61	1.40686e-13	1.000000	1.40686e-13	1.000000
rad15	1.04092e-13	1.000000	1.04092e-13	1.000000
rad1	9.89991e-14	1.000000	9.89991e-14	1.000000
rad64	7.73087e-14	1.000000	7.73087e-14	1.000000
rad65	6.64348e-14	1.000000	6.64348e-14	1.000000
rad45	6.57401e-14	1.000000	6.57401e-14	1.000000
rad10	4.07086e-14	1.000000	4.07086e-14	1.000000
rad26	3.71264e-14	1.000000	3.71264e-14	1.000000
rad56	2.62130e-14	1.000000	2.62130e-14	1.000000
rad3	8.27588e-15	1.000000	8.27588e-15	1.000000
rad28	5.67672e-15	1.000000	5.67672e-15	1.000000

rad4	4.67095e-15	1.000000	4.67095e-15	1.000000
rad68syn	3.88302e-15	1.000000	3.88302e-15	1.000000
rad36	3.21163e-15	1.000000	3.21163e-15	1.000000
rad68anti	2.67442e-15	1.000000	2.67442e-15	1.000000
rad19syn	1.45990e-15	1.000000	1.45990e-15	1.000000
rad7	1.06402e-15	1.000000	1.06402e-15	1.000000
PAH8+H	8.48521e-16	1.000000	8.48521e-16	1.000000
rad40syn	5.56024e-16	1.000000	5.56024e-16	1.000000
rad40anti	4.06759e-16	1.000000	4.06759e-16	1.000000
rad11	2.88841e-16	1.000000	2.88841e-16	1.000000
rad22	1.98697e-16	1.000000	1.98697e-16	1.000000
rad73	6.94119e-17	1.000000	6.94119e-17	1.000000
rad31	1.77789e-17	1.000000	1.77789e-17	1.000000
rad71	1.44292e-17	1.000000	1.44292e-17	1.000000
rad12	7.19335e-18	1.000000	7.19335e-18	1.000000
rad13	6.40121e-18	1.000000	6.40121e-18	1.000000
rad27	7.15396e-19	1.000000	7.15396e-19	1.000000
rad14	4.59557e-19	1.000000	4.59557e-19	1.000000
rad33	1.97306e-20	1.000000	1.97306e-20	1.000000
rad72	1.23576e-20	1.000000	1.23576e-20	1.000000
rad25	6.01419e-21	1.000000	6.01419e-21	1.000000
rad47	5.02545e-22	1.000000	5.02545e-22	1.000000
rad24	4.71652e-22	1.000000	4.71652e-22	1.000000
rad21	1.71041e-22	1.000000	1.71041e-22	1.000000
rad20	1.67621e-22	1.000000	1.67621e-22	1.000000
rad18	8.45666e-24	1.000000	8.45666e-24	1.000000
rad5	2.17458e-24	1.000000	2.17458e-24	1.000000
rad8	1.56978e-34	1.000000	1.56978e-34	1.000000

0.100000000 Pa, 600.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.35570e-13 (1.00)	4.35570e-13 (1.00)
Formation of rad19	4.18892e-13 (0.962)	4.18892e-13 (0.962)
H-abstraction to cyc2enyl	1.54751e-14 (0.0355)	1.54751e-14 (0.0355)
H-abstraction to cyclenyl	1.20343e-15 (0.00276)	1.20343e-15 (0.00276)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.957276	0.957276	0.957276	0.957276
Benzene+cycloprop-2-enylidene	0.0355285	0.992805	0.0355285	0.992805
PhCHCCH2+H	0.00402175	0.996826	0.00402175	0.996826
Benzene+cycloprop-1-enylidene	0.00276289	0.999589	0.00276289	0.999589
C2H2+PhCH2	0.000111945	0.999701	0.000111945	0.999701
Ph+MeAc	8.57431e-05	0.999787	8.57431e-05	0.999787
PhCCH+CH3	6.75062e-05	0.999854	6.75062e-05	0.999854
PhCCCH3+H	5.90389e-05	0.999913	5.90389e-05	0.999913
Ph+Allene	3.56614e-05	0.999949	3.56614e-05	0.999949
rad67	2.54032e-05	0.999975	2.54032e-05	0.999975
PhCH2CCH+H	1.09197e-05	0.999985	1.09197e-05	0.999985
rad35	9.63315e-06	0.999995	9.63315e-06	0.999995
PAH7+H	2.26695e-06	0.999997	2.26695e-06	0.999997
rad37	8.64922e-07	0.999998	8.64922e-07	0.999998
rad39	5.20223e-07	0.999999	5.20223e-07	0.999999
PhcycC3H3_A+H	3.56547e-07	0.999999	3.56547e-07	0.999999
rad30	2.27444e-07	0.999999	2.27444e-07	0.999999
PAH10+CH3	8.50972e-08	0.999999	8.50972e-08	0.999999
PhcycC3H3_B+H	8.44059e-08	0.999999	8.44059e-08	0.999999
PAH9+H	7.13093e-08	1.000000	7.13093e-08	1.000000
rad38	5.21332e-08	1.000000	5.21332e-08	1.000000
Phenyl+cycC3H4	3.58023e-08	1.000000	0.000000	1.000000
PAH3+H	1.45699e-08	1.000000	1.45699e-08	1.000000
rad60syn	5.03986e-09	1.000000	5.03986e-09	1.000000
rad46	4.37660e-09	1.000000	4.37660e-09	1.000000
rad60anti	2.82894e-09	1.000000	2.82894e-09	1.000000
rad54	2.63018e-09	1.000000	2.63018e-09	1.000000
rad59	2.03136e-09	1.000000	2.03136e-09	1.000000
rad43	9.14346e-10	1.000000	9.14346e-10	1.000000
rad9	7.70810e-10	1.000000	7.70810e-10	1.000000
rad50	4.49314e-10	1.000000	4.49314e-10	1.000000
PAH1+H	4.05941e-10	1.000000	4.05941e-10	1.000000
rad70	2.63835e-10	1.000000	2.63835e-10	1.000000
rad62	1.58023e-10	1.000000	1.58023e-10	1.000000
rad55	1.01574e-10	1.000000	1.01574e-10	1.000000
rad19anti	4.93612e-11	1.000000	4.93612e-11	1.000000
rad6	4.34984e-11	1.000000	4.34984e-11	1.000000
rad34	2.81370e-11	1.000000	2.81370e-11	1.000000
rad51	2.22156e-11	1.000000	2.22156e-11	1.000000
rad58	1.79778e-11	1.000000	1.79778e-11	1.000000

rad23	1.64381e-11	1.000000	1.64381e-11	1.000000
rad52	1.61229e-11	1.000000	1.61229e-11	1.000000
rad2	1.07476e-11	1.000000	1.07476e-11	1.000000
rad41	7.27924e-12	1.000000	7.27924e-12	1.000000
rad61	2.69300e-12	1.000000	2.69300e-12	1.000000
rad45	2.33909e-12	1.000000	2.33909e-12	1.000000
rad53	2.26564e-12	1.000000	2.26564e-12	1.000000
rad42	1.88142e-12	1.000000	1.88142e-12	1.000000
rad1	1.63596e-12	1.000000	1.63596e-12	1.000000
rad64	9.96330e-13	1.000000	9.96330e-13	1.000000
rad65	7.16789e-13	1.000000	7.16789e-13	1.000000
rad56	5.47964e-13	1.000000	5.47964e-13	1.000000
rad15	4.83903e-13	1.000000	4.83903e-13	1.000000
rad10	3.24759e-13	1.000000	3.24759e-13	1.000000
rad26	2.28092e-13	1.000000	2.28092e-13	1.000000
rad36	1.93993e-13	1.000000	1.93993e-13	1.000000
rad19syn	1.52297e-13	1.000000	1.52297e-13	1.000000
rad3	1.28774e-13	1.000000	1.28774e-13	1.000000
rad68syn	8.55792e-14	1.000000	8.55792e-14	1.000000
rad4	8.25218e-14	1.000000	8.25218e-14	1.000000
rad68anti	5.82093e-14	1.000000	5.82093e-14	1.000000
PAH8+H	3.73902e-14	1.000000	3.73902e-14	1.000000
rad28	2.14063e-14	1.000000	2.14063e-14	1.000000
rad40syn	1.74049e-14	1.000000	1.74049e-14	1.000000
rad40anti	1.27022e-14	1.000000	1.27022e-14	1.000000
rad7	5.38390e-15	1.000000	5.38390e-15	1.000000
rad22	4.73662e-15	1.000000	4.73662e-15	1.000000
rad73	4.21294e-15	1.000000	4.21294e-15	1.000000
rad71	2.11165e-15	1.000000	2.11165e-15	1.000000
rad11	1.54279e-15	1.000000	1.54279e-15	1.000000
rad12	1.53847e-15	1.000000	1.53847e-15	1.000000
rad31	3.24890e-16	1.000000	3.24890e-16	1.000000
rad13	3.97225e-17	1.000000	3.97225e-17	1.000000
rad72	3.13568e-17	1.000000	3.13568e-17	1.000000
rad27	6.75701e-18	1.000000	6.75701e-18	1.000000
rad14	4.09716e-18	1.000000	4.09716e-18	1.000000
rad33	1.67187e-19	1.000000	1.67187e-19	1.000000
rad25	3.83832e-20	1.000000	3.83832e-20	1.000000
rad24	2.55598e-20	1.000000	2.55598e-20	1.000000
rad47	1.30411e-20	1.000000	1.30411e-20	1.000000
rad21	7.62945e-21	1.000000	7.62945e-21	1.000000
rad20	6.04510e-21	1.000000	6.04510e-21	1.000000
rad18	2.50708e-22	1.000000	2.50708e-22	1.000000
rad5	4.67262e-24	1.000000	4.67262e-24	1.000000
rad8	2.39998e-29	1.000000	2.39998e-29	1.000000

0.100000000 Pa, 700.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.91694e-13 (1.00)	6.91694e-13 (1.00)
Formation of rad19	6.47922e-13 (0.937)	6.47922e-13 (0.937)
H-abstraction to cyc2enyl	3.91858e-14 (0.0567)	3.91858e-14 (0.0567)
H-abstraction to cyclenyl	4.58543e-15 (0.00663)	4.58542e-15 (0.00663)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.928261	0.928261	0.928261	0.928261
Benzene+cycloprop-2-enylidene	0.0566520	0.984913	0.0566520	0.984913
PhCHCCH2+H	0.00759867	0.992512	0.00759867	0.992512
Benzene+cycloprop-1-enylidene	0.00662927	0.999141	0.00662927	0.999141
C2H2+PhCH2	0.000223372	0.999364	0.000223372	0.999364
Ph+MeAc	0.000184768	0.999549	0.000184768	0.999549
PhCCH+CH3	0.000114476	0.999664	0.000114476	0.999664
PhCCCH3+H	0.000114177	0.999778	0.000114177	0.999778
Ph+Allene	9.86552e-05	0.999876	9.86552e-05	0.999876
rad67	5.61635e-05	0.999933	5.61635e-05	0.999933
PhCH2CCH+H	3.37398e-05	0.999966	3.37398e-05	0.999966
rad35	2.09208e-05	0.999987	2.09208e-05	0.999987
PAH7+H	5.25058e-06	0.999993	5.25059e-06	0.999993
rad37	2.31780e-06	0.999995	2.31780e-06	0.999995
PhcycC3H3_A+H	1.84683e-06	0.999997	1.84683e-06	0.999997
rad39	1.15815e-06	0.999998	1.15815e-06	0.999998
PhcycC3H3_B+H	5.98044e-07	0.999998	5.98044e-07	0.999998
rad30	5.35196e-07	0.999999	5.35196e-07	0.999999
PAH10+CH3	3.93667e-07	0.999999	3.93667e-07	0.999999
Phenyl+cycC3H4	2.47273e-07	1.000000	0.00000	0.999999
PAH9+H	2.20584e-07	1.000000	2.20584e-07	1.000000
rad38	1.79368e-07	1.00000	1.79368e-07	1.000000
PAH3+H	5.98880e-08	1.00000	5.98880e-08	1.000000

rad46	1.59419e-08	1.00000	1.59419e-08	1.000000
rad60syn	1.57209e-08	1.00000	1.57209e-08	1.000000
rad54	1.11966e-08	1.00000	1.11966e-08	1.000000
rad60anti	9.00560e-09	1.00000	9.00560e-09	1.000000
rad59	7.88134e-09	1.00000	7.88134e-09	1.000000
rad9	7.11732e-09	1.00000	7.11733e-09	1.000000
rad43	3.45982e-09	1.00000	3.45982e-09	1.000000
PAH1+H	2.46040e-09	1.00000	2.46040e-09	1.000000
rad50	2.44829e-09	1.00000	2.44829e-09	1.000000
rad70	1.34954e-09	1.00000	1.34954e-09	1.000000
rad62	5.31199e-10	1.00000	5.31200e-10	1.000000
rad55	4.95241e-10	1.00000	4.95241e-10	1.000000
rad51	1.73367e-10	1.00000	1.73367e-10	1.000000
rad34	1.70540e-10	1.00000	1.70540e-10	1.000000
rad58	1.15517e-10	1.00000	1.15517e-10	1.000000
rad52	1.05662e-10	1.00000	1.05662e-10	1.000000
rad6	8.31243e-11	1.00000	8.31243e-11	1.000000
rad19anti	6.95815e-11	1.00000	6.95815e-11	1.000000
rad23	6.16312e-11	1.00000	6.16312e-11	1.000000
rad41	4.33941e-11	1.00000	4.33941e-11	1.000000
rad2	3.11451e-11	1.00000	3.11451e-11	1.000000
rad61	2.94066e-11	1.00000	2.94066e-11	1.000000
rad53	1.83995e-11	1.00000	1.83995e-11	1.000000
rad42	9.22925e-12	1.00000	9.22926e-12	1.000000
rad45	8.69836e-12	1.00000	8.69836e-12	1.000000
rad64	7.69198e-12	1.00000	7.69198e-12	1.000000
rad1	6.42469e-12	1.00000	6.42469e-12	1.000000
rad56	6.14375e-12	1.00000	6.14376e-12	1.000000
rad65	5.58133e-12	1.00000	5.58133e-12	1.000000
rad15	3.15977e-12	1.00000	3.15977e-12	1.000000
rad12	1.18620e-12	1.00000	1.18620e-12	1.000000
rad68syn	1.01886e-12	1.00000	1.01886e-12	1.000000
rad36	9.99020e-13	1.00000	9.99020e-13	1.000000
rad19syn	8.87889e-13	1.00000	8.87889e-13	1.000000
PAH8+H	7.33370e-13	1.00000	7.33370e-13	1.000000
rad10	7.14075e-13	1.00000	7.14076e-13	1.000000
rad68anti	6.86704e-13	1.00000	6.86704e-13	1.000000
rad26	4.52264e-13	1.00000	4.52264e-13	1.000000
rad3	3.61460e-13	1.00000	3.61461e-13	1.000000
rad4	2.70303e-13	1.00000	2.70303e-13	1.000000
rad40syn	2.68859e-13	1.00000	2.68859e-13	1.000000
rad40anti	1.97155e-13	1.00000	1.97155e-13	1.000000
rad73	9.64914e-14	1.00000	9.64914e-14	1.000000
rad71	5.63065e-14	1.00000	5.63065e-14	1.000000
rad28	3.96343e-14	1.00000	3.96343e-14	1.000000
rad22	1.81418e-14	1.00000	1.81418e-14	1.000000
rad7	1.18631e-14	1.00000	1.18631e-14	1.000000
rad11	3.71996e-15	1.00000	3.71997e-15	1.000000
rad31	9.71162e-16	1.00000	9.71162e-16	1.000000
rad72	7.67909e-16	1.00000	7.67909e-16	1.000000
rad13	1.23192e-16	1.00000	1.23192e-16	1.000000
rad27	1.92883e-17	1.00000	1.92883e-17	1.000000
rad14	1.08232e-17	1.00000	1.08232e-17	1.000000
rad24	2.20518e-18	1.00000	2.20518e-18	1.000000
rad33	9.57767e-19	1.00000	9.57767e-19	1.000000
rad21	4.69763e-19	1.00000	4.69763e-19	1.000000
rad20	1.54886e-19	1.00000	1.54886e-19	1.000000
rad47	1.29455e-19	1.00000	1.29455e-19	1.000000
rad25	1.24527e-19	1.00000	1.24527e-19	1.000000
rad18	2.16853e-21	1.00000	2.16853e-21	1.000000
rad5	1.11041e-23	1.00000	1.11041e-23	1.000000
rad8	5.34859e-24	1.00000	5.34859e-24	1.000000

0.100000000 Pa, 800.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.03759e-12 (1.00)	1.03758e-12 (1.00)
Formation of rad19	9.41065e-13 (0.907)	9.41063e-13 (0.907)
H-abstraction to cyc2enyl	8.32953e-14 (0.0803)	8.32953e-14 (0.0803)
H-abstraction to cyclenyl	1.32261e-14 (0.0127)	1.32261e-14 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.891850	0.891850	0.891851	0.891851
Benzene+cycloprop-2-enylidene	0.0802780	0.972128	0.0802781	0.972129
PhCHCCH2+H	0.0134628	0.985591	0.0134629	0.985592
Benzene+cycloprop-1-enylidene	0.0127470	0.998338	0.0127470	0.998339
C2H2+PhCH2	0.000407116	0.998745	0.000407117	0.998746
Ph+MeAc	0.000361157	0.999106	0.000361157	0.999107

Ph+Allene	0.000232353	0.999339	0.000232354	0.999340
PhCCCH3+H	0.000203980	0.999543	0.000203980	0.999544
PhCCH+CH3	0.000180557	0.999723	0.000180558	0.999724
rad67	0.000113181	0.999836	0.000113180	0.999837
PhCH2CCH+H	8.78015e-05	0.999924	8.78016e-05	0.999925
rad35	4.16152e-05	0.999966	4.16153e-05	0.999967
PAH7+H	1.05805e-05	0.999976	1.05805e-05	0.999977
PhcycC3H3_A+H	7.41249e-06	0.999984	7.41250e-06	0.999985
rad37	5.46707e-06	0.999989	5.46707e-06	0.999990
PhcycC3H3_B+H	3.06162e-06	0.999992	3.06163e-06	0.999993
rad39	2.23435e-06	0.999995	2.23436e-06	0.999996
PAH10+CH3	1.45406e-06	0.999996	1.45406e-06	0.999997
Phenyl+cycC3H4	1.26413e-06	0.999997	0.00000	0.999997
rad30	1.14941e-06	0.999998	1.14941e-06	0.999998
PAH9+H	6.06404e-07	0.999999	6.06405e-07	0.999999
rad38	5.31354e-07	1.000000	5.31355e-07	0.999999
PAH3+H	2.06583e-07	1.000000	2.06583e-07	1.000000
rad9	1.22918e-07	1.000000	1.22918e-07	1.000000
rad46	5.04005e-08	1.000000	5.04006e-08	1.000000
rad60syn	4.30170e-08	1.000000	4.30171e-08	1.000000
rad54	3.72671e-08	1.000000	3.72671e-08	1.000000
rad59	2.58057e-08	1.000000	2.58057e-08	1.000000
rad60anti	2.50646e-08	1.000000	2.50647e-08	1.000000
PAH1+H	1.11144e-08	1.000000	1.11144e-08	1.000000
rad50	1.08651e-08	1.000000	1.08651e-08	1.000000
rad43	1.08274e-08	1.000000	1.08274e-08	1.000000
rad70	5.27897e-09	1.000000	5.27898e-09	1.000000
rad55	1.83210e-09	1.000000	1.83210e-09	1.000000
rad62	1.46973e-09	1.000000	1.46973e-09	1.000000
rad51	1.02456e-09	1.000000	1.02456e-09	1.000000
rad34	7.64325e-10	1.000000	7.64326e-10	1.000000
rad58	5.66379e-10	1.000000	5.66380e-10	1.000000
rad52	5.42756e-10	1.000000	5.42756e-10	1.000000
rad61	2.09298e-10	1.000000	2.09298e-10	1.000000
rad41	1.94673e-10	1.000000	1.94674e-10	1.000000
rad53	1.01550e-10	1.000000	1.01550e-10	1.000000
rad23	9.19972e-11	1.000000	9.19981e-11	1.000000
rad6	8.15887e-11	1.000000	8.15887e-11	1.000000
rad12	6.63783e-11	1.000000	6.63784e-11	1.000000
rad19anti	6.02870e-11	1.000000	6.02871e-11	1.000000
rad56	4.32305e-11	1.000000	4.32306e-11	1.000000
rad64	4.01549e-11	1.000000	4.01550e-11	1.000000
rad2	3.61984e-11	1.000000	3.61985e-11	1.000000
rad15	3.48726e-11	1.000000	3.48726e-11	1.000000
rad42	3.44893e-11	1.000000	3.44894e-11	1.000000
rad65	3.26898e-11	1.000000	3.26899e-11	1.000000
rad45	1.59037e-11	1.000000	1.59037e-11	1.000000
rad1	9.11038e-12	1.000000	9.11038e-12	1.000000
PAH8+H	8.15273e-12	1.000000	8.15273e-12	1.000000
rad68syn	7.67890e-12	1.000000	7.67890e-12	1.000000
rad68anti	5.13913e-12	1.000000	5.13914e-12	1.000000
rad40syn	2.49311e-12	1.000000	2.49312e-12	1.000000
rad40anti	1.84426e-12	1.000000	1.84426e-12	1.000000
rad36	1.79118e-12	1.000000	1.79118e-12	1.000000
rad19syn	1.44428e-12	1.000000	1.44428e-12	1.000000
rad73	1.18078e-12	1.000000	1.18078e-12	1.000000
rad10	8.48616e-13	1.000000	8.48617e-13	1.000000
rad71	6.99000e-13	1.000000	6.99001e-13	1.000000
rad26	4.58120e-13	1.000000	4.58121e-13	1.000000
rad3	3.92366e-13	1.000000	3.92366e-13	1.000000
rad4	3.09647e-13	1.000000	3.09647e-13	1.000000
rad28	3.98660e-14	1.000000	3.98661e-14	1.000000
rad22	2.83228e-14	1.000000	2.83228e-14	1.000000
rad7	1.47051e-14	1.000000	1.47052e-14	1.000000
rad11	5.30906e-15	1.000000	5.30906e-15	1.000000
rad72	4.94894e-15	1.000000	4.94894e-15	1.000000
rad31	1.51033e-15	1.000000	1.51033e-15	1.000000
rad24	4.05035e-16	1.000000	4.05036e-16	1.000000
rad13	2.69361e-16	1.000000	2.69361e-16	1.000000
rad21	1.37155e-16	1.000000	1.37155e-16	1.000000
rad27	3.10270e-17	1.000000	3.10271e-17	1.000000
rad33	2.68154e-17	1.000000	2.68154e-17	1.000000
rad20	2.39997e-17	1.000000	2.39997e-17	1.000000
rad14	1.55236e-17	1.000000	1.55236e-17	1.000000
rad47	8.56847e-19	1.000000	8.56847e-19	1.000000
rad25	6.02962e-19	1.000000	6.02962e-19	1.000000
rad8	2.40054e-19	1.000000	2.40054e-19	1.000000
rad18	3.36822e-20	1.000000	3.36823e-20	1.000000
rad5	2.29946e-23	1.000000	2.29947e-23	1.000000

0.100000000 Pa, 900.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.49199e-12 (1.00)	1.49199e-12 (1.00)
Formation of rad19	1.30395e-12 (0.874)	1.30394e-12 (0.874)
H-abstraction to cyc2enyl	1.56554e-13 (0.105)	1.56554e-13 (0.105)
H-abstraction to cyclenyl	3.14892e-14 (0.0211)	3.14890e-14 (0.0211)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.848696	0.848696	0.848701	0.848701
Benzene+cycloprop-2-enylidene	0.104929	0.953626	0.104930	0.953631
PhCHCCH2+H	0.0222955	0.975921	0.0222955	0.975926
Benzene+cycloprop-1-enylidene	0.0211054	0.997027	0.0211054	0.997032
C2H2+PhCH2	0.000683914	0.997710	0.000683918	0.997716
Ph+MeAc	0.000643452	0.998354	0.000643456	0.998359
Ph+Allene	0.000474234	0.998828	0.000474236	0.998833
PhCCCH3+H	0.000337175	0.999165	0.000337176	0.999171
PhCCH+CH3	0.000266844	0.999432	0.000266845	0.999437
rad67	0.000208271	0.999640	0.000208272	0.999646
PhCH2CCH+H	0.000196594	0.999837	0.000196596	0.999842
rad35	7.58797e-05	0.999913	7.58801e-05	0.999918
PhcycC3H3_A+H	2.42123e-05	0.999937	2.42124e-05	0.999942
PAH7+H	1.88387e-05	0.999956	1.88388e-05	0.999961
PhcycC3H3_B+H	1.21581e-05	0.999968	1.21581e-05	0.999973
rad37	1.14064e-05	0.999979	1.14064e-05	0.999985
Phenyl+cycC3H4	5.07995e-06	0.999985	0.000000	0.999985
PAH10+CH3	4.40663e-06	0.999989	4.40665e-06	0.999989
rad39	3.79906e-06	0.999993	3.79907e-06	0.999993
rad30	2.25191e-06	0.999995	2.25193e-06	0.999995
PAH9+H	1.48920e-06	0.999997	1.48921e-06	0.999997
rad38	1.36550e-06	0.999998	1.36551e-06	0.999998
PAH3+H	6.06529e-07	0.999998	6.06532e-07	0.999999
rad9	4.90664e-07	0.999999	4.90666e-07	0.999999
rad46	1.39567e-07	0.999999	1.39568e-07	0.999999
rad60syn	1.03811e-07	0.999999	1.03812e-07	0.999999
rad54	1.00690e-07	0.999999	1.00691e-07	1.000000
rad59	7.22905e-08	0.999999	7.22909e-08	1.000000
rad60anti	6.13599e-08	0.999999	6.13602e-08	1.000000
rad50	4.01549e-08	0.999999	4.01552e-08	1.000000
PAH1+H	3.95076e-08	1.000000	3.95078e-08	1.000000
rad43	2.87127e-08	1.000000	2.87128e-08	1.000000
rad70	1.65496e-08	1.000000	1.65497e-08	1.000000
rad55	5.38872e-09	1.000000	5.38875e-09	1.000000
rad51	4.79317e-09	1.000000	4.79319e-09	1.000000
rad62	3.44702e-09	1.000000	3.44705e-09	1.000000
rad34	2.68109e-09	1.000000	2.68110e-09	1.000000
rad52	2.25891e-09	1.000000	2.25893e-09	1.000000
rad58	2.20792e-09	1.000000	2.20793e-09	1.000000
rad61	1.06535e-09	1.000000	1.06536e-09	1.000000
rad41	6.91833e-10	1.000000	6.91836e-10	1.000000
rad53	4.13076e-10	1.000000	4.13078e-10	1.000000
rad12	4.04918e-10	1.000000	4.04919e-10	1.000000
rad56	2.12772e-10	1.000000	2.12773e-10	1.000000
rad64	1.55011e-10	1.000000	1.55012e-10	1.000000
rad65	1.50936e-10	1.000000	1.50936e-10	1.000000
rad15	1.16993e-10	1.000000	1.16993e-10	1.000000
rad42	1.03424e-10	1.000000	1.03424e-10	1.000000
rad23	9.58853e-11	1.000000	9.58861e-11	1.000000
PAH8+H	5.98046e-11	1.000000	5.98049e-11	1.000000
rad6	5.30800e-11	1.000000	5.30803e-11	1.000000
rad19anti	4.57518e-11	1.000000	4.57520e-11	1.000000
rad68syn	4.08577e-11	1.000000	4.08578e-11	1.000000
rad2	2.96307e-11	1.000000	2.96308e-11	1.000000
rad68anti	2.71887e-11	1.000000	2.71889e-11	1.000000
rad45	2.03794e-11	1.000000	2.03795e-11	1.000000
rad40syn	1.57820e-11	1.000000	1.57821e-11	1.000000
rad40anti	1.18024e-11	1.000000	1.18025e-11	1.000000
rad73	1.06689e-11	1.000000	1.06689e-11	1.000000
rad1	8.11737e-12	1.000000	8.11741e-12	1.000000
rad71	7.43353e-12	1.000000	7.43357e-12	1.000000
rad36	2.18887e-12	1.000000	2.18888e-12	1.000000
rad19syn	1.51735e-12	1.000000	1.51736e-12	1.000000
rad10	7.89155e-13	1.000000	7.89159e-13	1.000000
rad26	3.15422e-13	1.000000	3.15423e-13	1.000000
rad3	3.02868e-13	1.000000	3.02870e-13	1.000000
rad4	2.45544e-13	1.000000	2.45545e-13	1.000000
rad72	5.99677e-14	1.000000	5.99680e-14	1.000000
rad22	3.16955e-14	1.000000	3.16957e-14	1.000000

rad28	2.70164e-14	1.000000	2.70164e-14	1.000000
rad7	1.36360e-14	1.000000	1.36361e-14	1.000000
rad21	1.24820e-14	1.000000	1.24820e-14	1.000000
rad24	8.13308e-15	1.000000	8.13312e-15	1.000000
rad11	5.97372e-15	1.000000	5.97375e-15	1.000000
rad20	2.46597e-15	1.000000	2.46599e-15	1.000000
rad31	1.88481e-15	1.000000	1.88482e-15	1.000000
rad33	1.65059e-15	1.000000	1.65060e-15	1.000000
rad13	8.60146e-16	1.000000	8.60151e-16	1.000000
rad8	5.47520e-16	1.000000	5.47523e-16	1.000000
rad27	5.51493e-17	1.000000	5.51496e-17	1.000000
rad25	2.50150e-17	1.000000	2.50151e-17	1.000000
rad14	1.71222e-17	1.000000	1.71224e-17	1.000000
rad47	4.19953e-18	1.000000	4.19956e-18	1.000000
rad18	2.16334e-18	1.000000	2.16336e-18	1.000000
rad5	4.23321e-23	1.000000	4.23322e-23	1.000000

0.100000000 Pa, 1000.00000 K

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Rate constant          | True (fraction)          Effective (fraction)
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Total                  | 2.07591e-12 (1.00 )    2.07587e-12 (1.00 )
Formation of rad19    | 1.74189e-12 (0.839 )   1.74186e-12 (0.839 )
H-abstraction to cyc2enyl | 2.68753e-13 (0.129 )   2.68753e-13 (0.129 )
H-abstraction to cyclenyl | 6.52627e-14 (0.0314 )  6.52614e-14 (0.0314 )
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species                | PYtrue          Cumul          PYeffective  Cumul
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Indene+H               | 0.799580        0.799580        0.799594    0.799594
Benzene+cycloprop-2-enylidene | 0.129463        0.929043        0.129465    0.929059
PhHCCH2+H              | 0.0345747       0.963618        0.0345753   0.963634
Benzene+cycloprop-1-enylidene | 0.0314382       0.995056        0.0314381   0.995072
C2H2+PhCH2             | 0.00107019      0.996126        0.00107021  0.996143
Ph+MeAc                | 0.00105363      0.997180        0.00105365  0.997196
Ph+Allene              | 0.000856200     0.998036        0.000856214 0.998052
PhCCCH3+H              | 0.000518414     0.998554        0.000518423 0.998571
PhCH2CCH+H             | 0.000387386     0.998942        0.000387392 0.998958
PhCCH+CH3              | 0.000373429     0.999315        0.000373436 0.999332
rad67                   | 0.000352183     0.999667        0.000352189 0.999684
rad35                   | 0.000127517     0.999795        0.000127519 0.999811
PhcycC3H3_A+H          | 6.68835e-05     0.999862        6.68846e-05 0.999878
PhcycC3H3_B+H          | 3.94339e-05     0.999901        3.94345e-05 0.999918
PAH7+H                  | 3.02087e-05     0.999931        3.02092e-05 0.999948
rad37                   | 2.12586e-05     0.999952        2.12589e-05 0.999969
Phenyl+cycC3H4         | 1.68078e-05     0.999969        0.000000    0.999969
PAH10+CH3              | 1.12489e-05     0.999980        1.12491e-05 0.999980
rad39                   | 5.81052e-06     0.999986        5.81062e-06 0.999986
rad30                   | 4.04453e-06     0.999990        4.04460e-06 0.999990
PAH9+H                  | 3.29480e-06     0.999994        3.29486e-06 0.999994
rad38                   | 3.08355e-06     0.999997        3.08360e-06 0.999997
PAH3+H                  | 1.54153e-06     0.999998        1.54155e-06 0.999998
rad9                    | 6.16176e-07     0.999999        6.16186e-07 0.999999
rad46                   | 3.42433e-07     0.999999        3.42439e-07 0.999999
rad54                   | 2.28563e-07     0.999999        2.28567e-07 0.999999
rad60syn                | 2.23227e-07     1.000000        2.23231e-07 1.000000
rad59                   | 1.76146e-07     1.000000        1.76149e-07 1.000000
rad60anti               | 1.33554e-07     1.000000        1.33556e-07 1.000000
rad50                   | 1.26030e-07     1.000000        1.26032e-07 1.000000
PAH1+H                  | 1.15229e-07     1.000000        1.15231e-07 1.000000
rad43                   | 6.60073e-08     1.000000        6.60085e-08 1.000000
rad70                   | 4.32336e-08     1.000000        4.32344e-08 1.000000
rad51                   | 1.82689e-08     1.000000        1.82691e-08 1.000000
rad55                   | 1.31170e-08     1.000000        1.31172e-08 1.000000
rad52                   | 7.81115e-09     1.000000        7.81129e-09 1.000000
rad34                   | 7.69756e-09     1.000000        7.69770e-09 1.000000
rad58                   | 7.07596e-09     1.000000        7.07608e-09 1.000000
rad62                   | 7.04061e-09     1.000000        7.04073e-09 1.000000
rad61                   | 4.13073e-09     1.000000        4.13081e-09 1.000000
rad41                   | 2.02609e-09     1.000000        2.02612e-09 1.000000
rad53                   | 1.31532e-09     1.000000        1.31534e-09 1.000000
rad56                   | 7.89507e-10     1.000000        7.89520e-10 1.000000
rad12                   | 7.28015e-10     1.000000        7.28028e-10 1.000000
rad65                   | 5.66893e-10     1.000000        5.66904e-10 1.000000
rad64                   | 4.72239e-10     1.000000        4.72247e-10 1.000000
PAH8+H                  | 3.12117e-10     1.000000        3.12123e-10 1.000000
rad42                   | 2.59327e-10     1.000000        2.59331e-10 1.000000
rad15                   | 1.66650e-10     1.000000        1.66653e-10 1.000000
rad68syn                | 1.64679e-10     1.000000        1.64681e-10 1.000000
rad68anti               | 1.09080e-10     1.000000        1.09082e-10 1.000000
rad23                   | 9.25828e-11     1.000000        9.25842e-11 1.000000

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rad40syn	7.34180e-11	1.00000	7.34193e-11	1.00000
rad73	6.83282e-11	1.00000	6.83295e-11	1.00000
rad40anti	5.55035e-11	1.00000	5.55045e-11	1.00000
rad71	5.43184e-11	1.00000	5.43193e-11	1.00000
rad19anti	3.42058e-11	1.00000	3.42064e-11	1.00000
rad6	3.25262e-11	1.00000	3.25267e-11	1.00000
rad2	2.29193e-11	1.00000	2.29197e-11	1.00000
rad45	2.26525e-11	1.00000	2.26529e-11	1.00000
rad1	6.49560e-12	1.00000	6.49571e-12	1.00000
rad36	2.34950e-12	1.00000	2.34955e-12	1.00000
rad19syn	1.42443e-12	1.00000	1.42446e-12	1.00000
rad10	7.72954e-13	1.00000	7.72968e-13	1.00000
rad72	5.29453e-13	1.00000	5.29462e-13	1.00000
rad3	2.22519e-13	1.00000	2.22523e-13	1.00000
rad26	2.14485e-13	1.00000	2.14489e-13	1.00000
rad21	2.12002e-13	1.00000	2.12006e-13	1.00000
rad4	1.81527e-13	1.00000	1.81530e-13	1.00000
rad8	6.27864e-14	1.00000	6.27875e-14	1.00000
rad20	5.00205e-14	1.00000	5.00214e-14	1.00000
rad22	3.72724e-14	1.00000	3.72731e-14	1.00000
rad24	3.61531e-14	1.00000	3.61537e-14	1.00000
rad33	2.31560e-14	1.00000	2.31564e-14	1.00000
rad13	2.29877e-14	1.00000	2.29881e-14	1.00000
rad28	1.76943e-14	1.00000	1.76946e-14	1.00000
rad7	1.37177e-14	1.00000	1.37179e-14	1.00000
rad11	8.70917e-15	1.00000	8.70932e-15	1.00000
rad31	2.18573e-15	1.00000	2.18577e-15	1.00000
rad25	7.70813e-16	1.00000	7.70826e-16	1.00000
rad27	5.93420e-16	1.00000	5.93430e-16	1.00000
rad14	5.45517e-17	1.00000	5.45526e-17	1.00000
rad18	4.65075e-17	1.00000	4.65084e-17	1.00000
rad47	1.63640e-17	1.00000	1.63643e-17	1.00000
rad5	1.30920e-22	1.00000	1.30922e-22	1.00000

0.100000000 Pa, 1100.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.81236e-12 (1.00)	2.81222e-12 (1.00)
Formation of rad19	2.25993e-12 (0.804)	2.25980e-12 (0.804)
H-abstraction to cyc2enyl	4.30538e-13 (0.153)	4.30538e-13 (0.153)
H-abstraction to cyclenyl	1.21896e-13 (0.0433)	1.21889e-13 (0.0433)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.745453	0.745453	0.745490	0.745490
Benzene+cycloprop-2-enylidene	0.153088	0.898541	0.153095	0.898585
PhCHCCH2+H	0.0504102	0.948951	0.0504127	0.948998
Benzene+cycloprop-1-enylidene	0.0433429	0.992294	0.0433425	0.992340
Ph+MeAc	0.00159995	0.993894	0.00160004	0.993940
C2H2+PhCH2	0.00157399	0.995468	0.00157407	0.995514
Ph+Allene	0.00139383	0.996861	0.00139391	0.996908
PhCCCH3+H	0.000746167	0.997608	0.000746205	0.997654
PhCH2CCH+H	0.000685351	0.998293	0.000685386	0.998340
rad67	0.000551535	0.998844	0.000551562	0.998891
PhCCH+CH3	0.000499942	0.999344	0.000499967	0.999391
rad35	0.000198913	0.999543	0.000198923	0.999590
PhcycC3H3_A+H	0.000160991	0.999704	0.000160998	0.999751
PhcycC3H3_B+H	0.000108575	0.999813	0.000108581	0.999860
Phenyl+cycC3H4	4.74535e-05	0.999860	0.000000	0.999860
PAH7+H	4.44321e-05	0.999905	4.44343e-05	0.999904
rad37	3.57994e-05	0.999941	3.58012e-05	0.999940
PAH10+CH3	2.47783e-05	0.999965	2.47795e-05	0.999965
rad39	8.15527e-06	0.999973	8.15567e-06	0.999973
rad30	6.70546e-06	0.999980	6.70579e-06	0.999980
PAH9+H	6.62790e-06	0.999987	6.62823e-06	0.999986
rad38	6.20734e-06	0.999993	6.20765e-06	0.999992
PAH3+H	3.45074e-06	0.999996	3.45092e-06	0.999996
rad46	7.53235e-07	0.999997	7.53273e-07	0.999997
rad9	4.84053e-07	0.999998	4.84077e-07	0.999997
rad54	4.48882e-07	0.999998	4.48904e-07	0.999998
rad60syn	4.32745e-07	0.999999	4.32766e-07	0.999998
rad59	3.79638e-07	0.999999	3.79657e-07	0.999998
rad50	3.42568e-07	0.999999	3.42585e-07	0.999999
PAH1+H	2.85200e-07	1.000000	2.85214e-07	0.999999
rad60anti	2.61612e-07	1.000000	2.61625e-07	0.999999
rad43	1.34217e-07	1.000000	1.34224e-07	0.999999
rad70	9.71523e-08	1.000000	9.71571e-08	0.999999
rad51	5.84204e-08	1.000000	5.84233e-08	1.000000
rad55	2.73159e-08	1.000000	2.73173e-08	1.000000

rad52	2.30042e-08	1.00000	2.30053e-08	1.000000
rad58	1.92129e-08	1.00000	1.92138e-08	1.000000
rad34	1.87508e-08	1.00000	1.87518e-08	1.000000
rad61	1.28479e-08	1.00000	1.28486e-08	1.000000
rad62	1.28165e-08	1.00000	1.28172e-08	1.000000
rad41	5.04986e-09	1.00000	5.05011e-09	1.000000
rad53	3.43769e-09	1.00000	3.43786e-09	1.000000
rad56	2.34084e-09	1.00000	2.34095e-09	1.000000
rad65	1.78591e-09	1.00000	1.78600e-09	1.000000
PAH8+H	1.25262e-09	1.00000	1.25268e-09	1.000000
rad64	1.19352e-09	1.00000	1.19358e-09	1.000000
rad12	7.93861e-10	1.00000	7.93900e-10	1.000000
rad42	5.61885e-10	1.00000	5.61913e-10	1.000000
rad68syn	5.32282e-10	1.00000	5.32308e-10	1.000000
rad68anti	3.51217e-10	1.00000	3.51235e-10	1.000000
rad73	3.35028e-10	1.00000	3.35044e-10	1.000000
rad71	2.99164e-10	1.00000	2.99179e-10	1.000000
rad40syn	2.68076e-10	1.00000	2.68089e-10	1.000000
rad40anti	2.04790e-10	1.00000	2.04800e-10	1.000000
rad15	1.78086e-10	1.00000	1.78095e-10	1.000000
rad23	8.62126e-11	1.00000	8.62174e-11	1.000000
rad19anti	2.56282e-11	1.00000	2.56295e-11	1.000000
rad45	2.31495e-11	1.00000	2.31506e-11	1.000000
rad6	2.19413e-11	1.00000	2.19424e-11	1.000000
rad2	1.75676e-11	1.00000	1.75685e-11	1.000000
rad1	4.99399e-12	1.00000	4.99424e-12	1.000000
rad72	3.67155e-12	1.00000	3.67173e-12	1.000000
rad36	2.36546e-12	1.00000	2.36557e-12	1.000000
rad19syn	1.28391e-12	1.00000	1.28398e-12	1.000000
rad21	9.64765e-13	1.00000	9.64821e-13	1.000000
rad10	7.99968e-13	1.00000	8.00008e-13	1.000000
rad8	7.65180e-13	1.00000	7.65219e-13	1.000000
rad13	3.17370e-13	1.00000	3.17385e-13	1.000000
rad20	2.50454e-13	1.00000	2.50467e-13	1.000000
rad3	1.59847e-13	1.00000	1.59854e-13	1.000000
rad26	1.59329e-13	1.00000	1.59338e-13	1.000000
rad4	1.30168e-13	1.00000	1.30174e-13	1.000000
rad33	8.69165e-14	1.00000	8.69205e-14	1.000000
rad24	7.72338e-14	1.00000	7.72377e-14	1.000000
rad11	7.70101e-14	1.00000	7.70140e-14	1.000000
rad22	5.25133e-14	1.00000	5.25159e-14	1.000000
rad7	1.87727e-14	1.00000	1.87737e-14	1.000000
rad28	1.26556e-14	1.00000	1.26562e-14	1.000000
rad25	7.88798e-15	1.00000	7.88838e-15	1.000000
rad27	4.76096e-15	1.00000	4.76119e-15	1.000000
rad31	2.41069e-15	1.00000	2.41081e-15	1.000000
rad18	7.57144e-16	1.00000	7.57181e-16	1.000000
rad14	3.89085e-16	1.00000	3.89104e-16	1.000000
rad47	5.25051e-17	1.00000	5.25078e-17	1.000000
rad5	1.11746e-21	1.00000	1.11751e-21	1.000000

0.10000000 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.72623e-12 (1.00)	3.72576e-12 (1.00)
Formation of rad19	2.86288e-12 (0.768)	2.86245e-12 (0.768)
H-abstraction to cyc2enyl	6.53266e-13 (0.175)	6.53266e-13 (0.175)
H-abstraction to cyc1enyl	2.10085e-13 (0.0564)	2.10053e-13 (0.0564)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.687504	0.687504	0.687591	0.687591
Benzene+cycloprop-2-enylidene	0.175315	0.862820	0.175337	0.862929
PhCHCCH2+H	0.0694480	0.932268	0.0694568	0.932385
Benzene+cycloprop-1-enylidene	0.0563801	0.988648	0.0563786	0.988764
Ph+MeAc	0.00227276	0.990920	0.00227305	0.991037
C2H2+PhCH2	0.00219124	0.993112	0.00219152	0.993228
Ph+Allene	0.00207998	0.995192	0.00208024	0.995309
PhCH2CCH+H	0.00110695	0.996299	0.00110709	0.996416
PhCCCH3+H	0.00101201	0.997311	0.00101214	0.997428
rad67	0.000806320	0.998117	0.000806422	0.998234
PhCCH+CH3	0.000645726	0.998763	0.000645807	0.998880
PhcycC3H3_A+H	0.000345602	0.999108	0.000345645	0.999226
rad35	0.000290176	0.999398	0.000290212	0.999516
PhcycC3H3_B+H	0.000261277	0.999660	0.000261310	0.999777
Phenyl+cycC3H4	0.000117514	0.999777	0.00000	0.999777
PAH7+H	6.09160e-05	0.999838	6.09237e-05	0.999838
rad37	5.51004e-05	0.999893	5.51074e-05	0.999893
PAH10+CH3	4.81052e-05	0.999941	4.81113e-05	0.999941

PAH9+H	1.22293e-05	0.999954	1.22309e-05	0.999954
rad38	1.12964e-05	0.999965	1.12978e-05	0.999965
rad39	1.06984e-05	0.999976	1.06997e-05	0.999976
rad30	1.03393e-05	0.999986	1.03406e-05	0.999986
PAH3+H	6.91442e-06	0.999993	6.91529e-06	0.999993
rad46	1.50191e-06	0.999994	1.50210e-06	0.999994
rad50	8.20811e-07	0.999995	8.20919e-07	0.999995
rad54	7.81527e-07	0.999996	7.81622e-07	0.999996
rad60syn	7.65142e-07	0.999997	7.65239e-07	0.999997
rad59	7.35076e-07	0.999997	7.35168e-07	0.999998
PAH1+H	6.15327e-07	0.999998	6.15404e-07	0.999998
rad60anti	4.66736e-07	0.999999	4.66795e-07	0.999999
rad9	3.32473e-07	0.999999	3.32515e-07	0.999999
rad43	2.45564e-07	0.999999	2.45595e-07	0.999999
rad70	1.92619e-07	0.999999	1.92644e-07	0.999999
rad51	1.60778e-07	0.999999	1.60798e-07	1.000000
rad52	5.89668e-08	1.000000	5.89743e-08	1.000000
rad55	4.99997e-08	1.000000	5.00059e-08	1.000000
rad58	4.53410e-08	1.000000	4.53467e-08	1.000000
rad34	3.98696e-08	1.000000	3.98747e-08	1.000000
rad61	3.33646e-08	1.000000	3.33689e-08	1.000000
rad62	2.11975e-08	1.000000	2.12002e-08	1.000000
rad41	1.09930e-08	1.000000	1.09944e-08	1.000000
rad53	7.65136e-09	1.000000	7.65232e-09	1.000000
rad56	5.79489e-09	1.000000	5.79562e-09	1.000000
rad65	4.84273e-09	1.000000	4.84335e-09	1.000000
PAH8+H	4.08382e-09	1.000000	4.08434e-09	1.000000
rad64	2.60024e-09	1.000000	2.60057e-09	1.000000
rad68syn	1.44004e-09	1.000000	1.44022e-09	1.000000
rad73	1.33000e-09	1.000000	1.33017e-09	1.000000
rad71	1.32317e-09	1.000000	1.32334e-09	1.000000
rad42	1.07993e-09	1.000000	1.08007e-09	1.000000
rad68anti	9.47051e-10	1.000000	9.47171e-10	1.000000
rad40syn	8.06282e-10	1.000000	8.06383e-10	1.000000
rad12	7.13659e-10	1.000000	7.13749e-10	1.000000
rad40anti	6.22027e-10	1.000000	6.22105e-10	1.000000
rad15	1.77330e-10	1.000000	1.77352e-10	1.000000
rad23	7.92867e-11	1.000000	7.92969e-11	1.000000
rad45	2.25179e-11	1.000000	2.25206e-11	1.000000
rad72	2.09462e-11	1.000000	2.09489e-11	1.000000
rad19anti	1.93816e-11	1.000000	1.93840e-11	1.000000
rad6	1.88831e-11	1.000000	1.88854e-11	1.000000
rad2	1.32281e-11	1.000000	1.32298e-11	1.000000
rad1	3.76605e-12	1.000000	3.76653e-12	1.000000
rad8	2.53559e-12	1.000000	2.53591e-12	1.000000
rad36	2.29550e-12	1.000000	2.29579e-12	1.000000
rad21	2.06405e-12	1.000000	2.06432e-12	1.000000
rad13	1.26481e-12	1.000000	1.26496e-12	1.000000
rad19syn	1.13955e-12	1.000000	1.13970e-12	1.000000
rad11	1.11050e-12	1.000000	1.11064e-12	1.000000
rad10	8.35047e-13	1.000000	8.35156e-13	1.000000
rad20	5.32589e-13	1.000000	5.32656e-13	1.000000
rad33	1.49707e-13	1.000000	1.49726e-13	1.000000
rad26	1.27863e-13	1.000000	1.27879e-13	1.000000
rad24	1.18502e-13	1.000000	1.18517e-13	1.000000
rad3	1.13202e-13	1.000000	1.13217e-13	1.000000
rad7	1.04361e-13	1.000000	1.04374e-13	1.000000
rad4	9.18662e-14	1.000000	9.18776e-14	1.000000
rad22	7.77655e-14	1.000000	7.77749e-14	1.000000
rad25	2.92751e-14	1.000000	2.92788e-14	1.000000
rad18	1.77824e-14	1.000000	1.77846e-14	1.000000
rad27	1.52639e-14	1.000000	1.52659e-14	1.000000
rad28	1.05892e-14	1.000000	1.05905e-14	1.000000
rad31	2.55730e-15	1.000000	2.55763e-15	1.000000
rad14	1.34545e-15	1.000000	1.34562e-15	1.000000
rad47	1.43439e-16	1.000000	1.43458e-16	1.000000
rad5	2.37481e-20	1.000000	2.37511e-20	1.000000

0.100000000 Pa, 1300.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.84401e-12 (1.00)	4.84262e-12 (1.00)
Formation of rad19	3.55537e-12 (0.734)	3.55411e-12 (0.734)
H-abstraction to cyc2enyl	9.48893e-13 (0.196)	9.48893e-13 (0.196)
H-abstraction to cyclenyl	3.39740e-13 (0.0701)	3.39620e-13 (0.0701)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.627160	0.627160	0.627339	0.627339

Benzene+cycloprop-2-enylidene	0.195890	0.823050	0.195946	0.823285
PhCHCCH2+H	0.0908784	0.913928	0.0909044	0.914190
Benzene+cycloprop-1-enylidene	0.0701362	0.984065	0.0701313	0.984321
Ph+MeAc	0.00304443	0.987109	0.00304529	0.987367
C2H2+PhCH2	0.00290374	0.990013	0.00290456	0.990271
Ph+Allene	0.00288472	0.992898	0.00288555	0.993157
PhCH2CCH+H	0.00165449	0.994552	0.00165497	0.994812
PhCCCH3+H	0.00130153	0.995854	0.00130191	0.996113
rad67	0.00110884	0.996962	0.00110916	0.997223
PhCCH+CH3	0.000809522	0.997772	0.000809751	0.998032
PhcycC3H3_A+H	0.000673394	0.998445	0.000673586	0.998706
PhcycC3H3_B+H	0.000561396	0.999007	0.000561556	0.999268
rad35	0.000398728	0.999405	0.000398841	0.999666
Phenyl+cycC3H4	0.000260506	0.999666	0.000000	0.999666
PAH10+CH3	8.38029e-05	0.999750	8.38264e-05	0.999750
PAH7+H	7.89124e-05	0.999829	7.89348e-05	0.999829
rad37	7.83568e-05	0.999907	7.83793e-05	0.999908
PAH9+H	2.08516e-05	0.999928	2.08576e-05	0.999928
rad38	1.88171e-05	0.999947	1.88225e-05	0.999947
rad30	1.49361e-05	0.999962	1.49404e-05	0.999962
rad39	1.33375e-05	0.999975	1.33413e-05	0.999975
PAH3+H	1.25736e-05	0.999988	1.25772e-05	0.999988
rad46	2.73974e-06	0.999990	2.74053e-06	0.999991
rad50	1.75707e-06	0.999992	1.75757e-06	0.999993
rad59	1.29587e-06	0.999993	1.29624e-06	0.999994
rad60syn	1.24695e-06	0.999995	1.24730e-06	0.999995
rad54	1.23057e-06	0.999996	1.23092e-06	0.999996
PAH1+H	1.18168e-06	0.999997	1.18202e-06	0.999998
rad60anti	7.66621e-07	0.999998	7.66839e-07	0.999998
rad43	4.10015e-07	0.999998	4.10131e-07	0.999999
rad51	3.87444e-07	0.999999	3.87555e-07	0.999999
rad70	3.43687e-07	0.999999	3.43785e-07	0.999999
rad9	2.15676e-07	0.999999	2.15737e-07	1.000000
rad52	1.33638e-07	0.999999	1.33677e-07	1.000000
rad58	9.48485e-08	0.999999	9.48756e-08	1.000000
rad55	8.22153e-08	0.999999	8.22390e-08	1.000000
rad34	7.56264e-08	1.000000	7.56476e-08	1.000000
rad61	7.45130e-08	1.000000	7.45342e-08	1.000000
rad62	3.23569e-08	1.000000	3.23662e-08	1.000000
rad41	2.13220e-08	1.000000	2.13281e-08	1.000000
rad53	1.49193e-08	1.000000	1.49236e-08	1.000000
rad56	1.23752e-08	1.000000	1.23788e-08	1.000000
rad65	1.15047e-08	1.000000	1.15079e-08	1.000000
PAH8+H	1.11847e-08	1.000000	1.11878e-08	1.000000
rad64	5.02571e-09	1.000000	5.02714e-09	1.000000
rad71	4.76419e-09	1.000000	4.76555e-09	1.000000
rad73	4.36629e-09	1.000000	4.36754e-09	1.000000
rad68syn	3.35971e-09	1.000000	3.36066e-09	1.000000
rad68anti	2.20327e-09	1.000000	2.20390e-09	1.000000
rad40syn	2.06153e-09	1.000000	2.06211e-09	1.000000
rad42	1.87923e-09	1.000000	1.87977e-09	1.000000
rad40anti	1.60461e-09	1.000000	1.60507e-09	1.000000
rad12	5.89884e-10	1.000000	5.90052e-10	1.000000
rad15	2.17652e-10	1.000000	2.17714e-10	1.000000
rad72	9.35200e-11	1.000000	9.35465e-11	1.000000
rad23	7.34671e-11	1.000000	7.34877e-11	1.000000
rad6	2.18827e-11	1.000000	2.18889e-11	1.000000
rad45	2.12394e-11	1.000000	2.12454e-11	1.000000
rad19anti	1.48397e-11	1.000000	1.48440e-11	1.000000
rad2	9.83613e-12	1.000000	9.83889e-12	1.000000
rad11	6.15601e-12	1.000000	6.15776e-12	1.000000
rad8	4.42267e-12	1.000000	4.42393e-12	1.000000
rad21	3.03646e-12	1.000000	3.03733e-12	1.000000
rad1	2.81823e-12	1.000000	2.81904e-12	1.000000
rad13	2.24819e-12	1.000000	2.24883e-12	1.000000
rad36	2.17325e-12	1.000000	2.17387e-12	1.000000
rad10	1.28067e-12	1.000000	1.28103e-12	1.000000
rad19syn	1.00706e-12	1.000000	1.00735e-12	1.000000
rad7	9.50929e-13	1.000000	9.51200e-13	1.000000
rad20	7.40073e-13	1.000000	7.40286e-13	1.000000
rad33	1.76739e-13	1.000000	1.76789e-13	1.000000
rad18	1.59167e-13	1.000000	1.59213e-13	1.000000
rad24	1.53475e-13	1.000000	1.53518e-13	1.000000
rad26	1.12659e-13	1.000000	1.12692e-13	1.000000
rad22	1.08163e-13	1.000000	1.08194e-13	1.000000
rad3	7.97213e-14	1.000000	7.97436e-14	1.000000
rad4	6.44052e-14	1.000000	6.44235e-14	1.000000
rad25	5.66965e-14	1.000000	5.67127e-14	1.000000
rad27	2.71071e-14	1.000000	2.71148e-14	1.000000
rad28	1.10379e-14	1.000000	1.10411e-14	1.000000

rad31	2.62745e-15	1.000000	2.62820e-15	1.000000
rad14	2.42442e-15	1.000000	2.42511e-15	1.000000
rad47	3.40987e-16	1.000000	3.41085e-16	1.000000
rad5	7.39420e-19	1.000000	7.39633e-19	1.000000

0.100000000 Pa, 1400.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.19360e-12 (1.00)	6.18997e-12 (1.00)
Formation of rad19	4.34185e-12 (0.701)	4.33861e-12 (0.701)
H-abstraction to cyc2enyl	1.32990e-12 (0.215)	1.32990e-12 (0.215)
H-abstraction to cyclenyl	5.21850e-13 (0.0843)	5.21461e-13 (0.0842)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.566027	0.566027	0.566359	0.566359
Benzene+cycloprop-2-enylidene	0.214721	0.780748	0.214847	0.781206
PhCHCCH2+H	0.113527	0.894275	0.113594	0.894800
Benzene+cycloprop-1-enylidene	0.0842564	0.978532	0.0842429	0.979043
Ph+MeAc	0.00387285	0.982405	0.00387512	0.982918
Ph+Allene	0.00376037	0.986165	0.00376258	0.986680
C2H2+PhCH2	0.00367930	0.989844	0.00368146	0.990362
PhCH2CCH+H	0.00231298	0.992157	0.00231433	0.992676
PhCCCH3+H	0.00159641	0.993754	0.00159735	0.994274
rad67	0.00144410	0.995198	0.00144495	0.995719
PhcycC3H3_A+H	0.00120489	0.996403	0.00120559	0.996924
PhcycC3H3_B+H	0.00109183	0.997495	0.00109247	0.998017
PhCCH+CH3	0.000988687	0.998483	0.000989264	0.999006
Phenyl+cycC3H4	0.000523345	0.999007	0.000000	0.999000
rad35	0.000519419	0.999526	0.000519724	0.999526
PAH10+CH3	0.000132942	0.999659	0.000133019	0.999659
rad37	0.000103969	0.999763	0.000104030	0.999763
PAH7+H	9.76629e-05	0.999861	9.77202e-05	0.999860
PAH9+H	3.30455e-05	0.999894	3.30649e-05	0.999893
rad38	2.89871e-05	0.999923	2.90041e-05	0.999922
PAH3+H	2.09775e-05	0.999944	2.09898e-05	0.999943
rad30	2.03485e-05	0.999964	2.03605e-05	0.999964
rad39	1.60326e-05	0.999980	1.60420e-05	0.999980
rad46	4.60495e-06	0.999985	4.60764e-06	0.999984
rad50	3.39263e-06	0.999988	3.39462e-06	0.999988
rad59	2.10239e-06	0.999990	2.10362e-06	0.999990
PAH1+H	2.05217e-06	0.999992	2.05337e-06	0.999992
rad60syn	1.88966e-06	0.999994	1.89077e-06	0.999994
rad54	1.78086e-06	0.999996	1.78191e-06	0.999996
rad60anti	1.16975e-06	0.999997	1.17043e-06	0.999997
rad51	8.27157e-07	0.999998	8.27641e-07	0.999998
rad43	6.31787e-07	0.999998	6.32158e-07	0.999998
rad70	5.60223e-07	0.999999	5.60551e-07	0.999999
rad52	2.70720e-07	0.999999	2.70879e-07	0.999999
rad58	1.78431e-07	0.999999	1.78535e-07	0.999999
rad61	1.46280e-07	1.000000	1.46366e-07	0.999999
rad9	1.36548e-07	1.000000	1.36628e-07	1.000000
rad34	1.30057e-07	1.000000	1.30134e-07	1.000000
rad55	1.23572e-07	1.000000	1.23645e-07	1.000000
rad62	4.61531e-08	1.000000	4.61802e-08	1.000000
rad41	3.74007e-08	1.000000	3.74226e-08	1.000000
PAH8+H	2.63157e-08	1.000000	2.63312e-08	1.000000
rad53	2.60387e-08	1.000000	2.60540e-08	1.000000
rad65	2.42346e-08	1.000000	2.42489e-08	1.000000
rad56	2.33526e-08	1.000000	2.33662e-08	1.000000
rad71	1.41534e-08	1.000000	1.41617e-08	1.000000
rad73	1.20330e-08	1.000000	1.20400e-08	1.000000
rad64	8.79769e-09	1.000000	8.80280e-09	1.000000
rad68syn	6.90112e-09	1.000000	6.90518e-09	1.000000
rad40syn	4.57758e-09	1.000000	4.58026e-09	1.000000
rad68anti	4.51475e-09	1.000000	4.51739e-09	1.000000
rad40anti	3.59056e-09	1.000000	3.59266e-09	1.000000
rad42	3.00669e-09	1.000000	3.00846e-09	1.000000
rad12	4.68975e-10	1.000000	4.69250e-10	1.000000
rad15	4.54774e-10	1.000000	4.55041e-10	1.000000
rad72	3.28545e-10	1.000000	3.28737e-10	1.000000
rad23	6.90254e-11	1.000000	6.90658e-11	1.000000
rad6	2.78164e-11	1.000000	2.78326e-11	1.000000
rad45	1.96041e-11	1.000000	1.96156e-11	1.000000
rad11	1.51846e-11	1.000000	1.51936e-11	1.000000
rad19anti	1.15121e-11	1.000000	1.15188e-11	1.000000
rad2	7.28012e-12	1.000000	7.28435e-12	1.000000
rad8	5.66704e-12	1.000000	5.67036e-12	1.000000
rad7	3.78134e-12	1.000000	3.78356e-12	1.000000

rad21	3.67158e-12	1.00000	3.67374e-12	1.00000
rad10	3.10294e-12	1.00000	3.10476e-12	1.00000
rad13	2.61219e-12	1.00000	2.61372e-12	1.00000
rad1	2.10678e-12	1.00000	2.10801e-12	1.00000
rad36	2.01840e-12	1.00000	2.01958e-12	1.00000
rad19syn	8.90593e-13	1.00000	8.91116e-13	1.00000
rad20	8.30480e-13	1.00000	8.30964e-13	1.00000
rad18	5.49055e-13	1.00000	5.49377e-13	1.00000
rad24	1.80314e-13	1.00000	1.80420e-13	1.00000
rad33	1.72630e-13	1.00000	1.72732e-13	1.00000
rad26	1.42561e-13	1.00000	1.42645e-13	1.00000
rad22	1.36918e-13	1.00000	1.36998e-13	1.00000
rad25	7.72793e-14	1.00000	7.73244e-14	1.00000
rad3	5.61895e-14	1.00000	5.62225e-14	1.00000
rad4	4.51151e-14	1.00000	4.51416e-14	1.00000
rad27	3.50896e-14	1.00000	3.51102e-14	1.00000
rad28	1.35944e-14	1.00000	1.36023e-14	1.00000
rad14	3.03771e-15	1.00000	3.03950e-15	1.00000
rad31	2.62635e-15	1.00000	2.62789e-15	1.00000
rad47	7.15141e-16	1.00000	7.15559e-16	1.00000
rad5	2.18432e-17	1.00000	2.18561e-17	1.00000

0.100000000 Pa, 1500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.80417e-12 (1.00)	7.79561e-12 (1.00)
Formation of rad19	5.22661e-12 (0.670)	5.21915e-12 (0.669)
H-abstraction to cyc2enyl	1.80920e-12 (0.232)	1.80920e-12 (0.232)
H-abstraction to cyclenyl	7.68359e-13 (0.0985)	7.67262e-13 (0.0984)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.505870	0.505870	0.506425	0.506425
Benzene+cycloprop-2-enylidene	0.231825	0.737695	0.232079	0.738505
PhCHCCH2+H	0.135967	0.873662	0.136116	0.874621
Benzene+cycloprop-1-enylidene	0.0984549	0.972117	0.0984223	0.973043
Ph+MeAc	0.00470570	0.976823	0.00471086	0.977754
Ph+Allene	0.00464760	0.981470	0.00465271	0.982407
C2H2+PhCH2	0.00447301	0.985943	0.00447792	0.986885
PhCH2CCH+H	0.00304820	0.988991	0.00305155	0.989936
PhcycC3H3_A+H	0.00198976	0.990981	0.00199195	0.991928
PhcycC3H3_B+H	0.00193280	0.992914	0.00193492	0.993863
PhCCCH3+H	0.00187667	0.994791	0.00187873	0.995742
rad67	0.00179097	0.996582	0.00179294	0.997535
PhCCH+CH3	0.00117783	0.997759	0.00117912	0.998714
Phenyl+cycC3H4	0.000956146	0.998716	0.000000	0.998714
rad35	0.000644848	0.999360	0.000645556	0.999360
PAH10+CH3	0.000194191	0.999555	0.000194404	0.999554
rad37	0.000129807	0.999684	0.000129949	0.999684
PAH7+H	0.000116417	0.999801	0.000116546	0.999800
PAH9+H	4.88537e-05	0.999850	4.89073e-05	0.999849
rad38	4.16012e-05	0.999891	4.16469e-05	0.999891
PAH3+H	3.23375e-05	0.999924	3.23730e-05	0.999923
rad30	2.62809e-05	0.999950	2.63097e-05	0.999950
rad39	1.87895e-05	0.999969	1.88102e-05	0.999969
rad46	7.16199e-06	0.999976	7.16986e-06	0.999976
rad50	5.93801e-06	0.999982	5.94453e-06	0.999982
PAH1+H	3.25724e-06	0.999985	3.26082e-06	0.999985
rad59	3.16157e-06	0.999988	3.16504e-06	0.999988
rad60syn	2.67968e-06	0.999991	2.68263e-06	0.999991
rad54	2.39839e-06	0.999993	2.40102e-06	0.999993
rad60anti	1.66867e-06	0.999995	1.67051e-06	0.999995
rad51	1.57343e-06	0.999997	1.57516e-06	0.999996
rad43	9.05576e-07	0.999997	9.06574e-07	0.999997
rad70	8.42763e-07	0.999998	8.43688e-07	0.999998
rad52	4.92954e-07	0.999999	4.93495e-07	0.999999
rad58	3.04449e-07	0.999999	3.04784e-07	0.999999
rad61	2.56146e-07	0.999999	2.56427e-07	0.999999
rad34	2.04935e-07	1.000000	2.05160e-07	0.999999
rad55	1.72013e-07	1.000000	1.72202e-07	1.000000
rad9	8.60443e-08	1.000000	8.61390e-08	1.000000
rad62	6.20587e-08	1.000000	6.21268e-08	1.000000
rad41	5.99065e-08	1.000000	5.99723e-08	1.000000
PAH8+H	5.38676e-08	1.000000	5.39268e-08	1.000000
rad65	4.55489e-08	1.000000	4.55989e-08	1.000000
rad53	4.12868e-08	1.000000	4.13321e-08	1.000000
rad56	3.95673e-08	1.000000	3.96108e-08	1.000000
rad71	3.50000e-08	1.000000	3.50385e-08	1.000000
rad73	2.80695e-08	1.000000	2.81004e-08	1.000000

rad64	1.41255e-08	1.00000	1.41410e-08	1.00000
rad68syn	1.26337e-08	1.00000	1.26476e-08	1.00000
rad40syn	8.93594e-09	1.00000	8.94570e-09	1.00000
rad68anti	8.24827e-09	1.00000	8.25732e-09	1.00000
rad40anti	7.05390e-09	1.00000	7.06160e-09	1.00000
rad42	4.46778e-09	1.00000	4.47269e-09	1.00000
rad72	9.20584e-10	1.00000	9.21591e-10	1.00000
rad15	8.08279e-10	1.00000	8.09169e-10	1.00000
rad12	3.66381e-10	1.00000	3.66783e-10	1.00000
rad23	6.51446e-11	1.00000	6.52161e-11	1.00000
rad6	3.56870e-11	1.00000	3.57262e-11	1.00000
rad11	2.27338e-11	1.00000	2.27588e-11	1.00000
rad45	1.77893e-11	1.00000	1.78089e-11	1.00000
rad19anti	9.04738e-12	1.00000	9.05731e-12	1.00000
rad7	7.40295e-12	1.00000	7.41108e-12	1.00000
rad8	6.24629e-12	1.00000	6.25315e-12	1.00000
rad10	5.96702e-12	1.00000	5.97357e-12	1.00000
rad2	5.38912e-12	1.00000	5.39504e-12	1.00000
rad21	3.97699e-12	1.00000	3.98136e-12	1.00000
rad13	2.43680e-12	1.00000	2.43947e-12	1.00000
rad36	1.84422e-12	1.00000	1.84624e-12	1.00000
rad1	1.57848e-12	1.00000	1.58021e-12	1.00000
rad18	1.02696e-12	1.00000	1.02808e-12	1.00000
rad20	8.31089e-13	1.00000	8.31999e-13	1.00000
rad19syn	7.89908e-13	1.00000	7.90771e-13	1.00000
rad26	4.69898e-13	1.00000	4.70414e-13	1.00000
rad24	1.99083e-13	1.00000	1.99302e-13	1.00000
rad22	1.58773e-13	1.00000	1.58947e-13	1.00000
rad33	1.52248e-13	1.00000	1.52415e-13	1.00000
rad25	8.67636e-14	1.00000	8.68587e-14	1.00000
rad3	3.97929e-14	1.00000	3.98366e-14	1.00000
rad27	3.81303e-14	1.00000	3.81722e-14	1.00000
rad4	3.16841e-14	1.00000	3.17189e-14	1.00000
rad28	2.38471e-14	1.00000	2.38732e-14	1.00000
rad14	3.13580e-15	1.00000	3.13925e-15	1.00000
rad31	2.56266e-15	1.00000	2.56547e-15	1.00000
rad47	1.33182e-15	1.00000	1.33328e-15	1.00000
rad5	4.35712e-16	1.00000	4.36190e-16	1.00000

0.100000000E-01 Pa, 20.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.24541e-22 (1.00)	1.24541e-22 (1.00)
Formation of rad19	1.24541e-22 (1.00)	1.24541e-22 (1.00)
H-abstraction to cyc2enyl	3.84323e-68 (3.09e-46)	3.84323e-68 (3.09e-46)
H-abstraction to cyc1enyl	6.26313e-106 (5.03e-84)	6.26313e-106 (5.03e-84)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999772	0.999772	0.999772	0.999772
PhCHCCH2+H	0.000217007	0.999989	0.000217007	0.999989
PhCCH+CH3	3.73773e-06	0.999993	3.73773e-06	0.999993
C2H2+PhCH2	2.63469e-06	0.999995	2.63469e-06	0.999995
PhCCCH3+H	2.10542e-06	0.999997	2.10542e-06	0.999997
Ph+MeAc	1.55160e-06	0.999999	1.55160e-06	0.999999
rad67	4.71511e-07	1.000000	4.71511e-07	1.000000
rad35	2.08841e-07	1.000000	2.08841e-07	1.000000
Ph+Allene	1.29816e-07	1.000000	1.29816e-07	1.000000
PAH7+H	1.72839e-08	1.000000	1.72839e-08	1.000000
PhCH2CCH+H	1.56682e-08	1.000000	1.56682e-08	1.000000
rad39	4.87188e-09	1.000000	4.87188e-09	1.000000
rad37	4.61476e-09	1.000000	4.61476e-09	1.000000
rad30	3.89812e-09	1.000000	3.89812e-09	1.000000
rad6	1.12080e-09	1.000000	1.12080e-09	1.000000
PAH9+H	2.48442e-10	1.000000	2.48442e-10	1.000000
rad38	1.04725e-10	1.000000	1.04725e-10	1.000000
rad60syn	1.68629e-11	1.000000	1.68629e-11	1.000000
rad60anti	8.23083e-12	1.000000	8.23083e-12	1.000000
PAH3+H	6.68358e-12	1.000000	6.68358e-12	1.000000
rad46	6.24075e-12	1.000000	6.24075e-12	1.000000
PAH10+CH3	5.49620e-12	1.000000	5.49620e-12	1.000000
rad59	1.38708e-12	1.000000	1.38708e-12	1.000000
rad28	1.11526e-12	1.000000	1.11526e-12	1.000000
rad2	1.06037e-12	1.000000	1.06037e-12	1.000000
PhcycC3H3_A+H	4.12988e-13	1.000000	4.12988e-13	1.000000
rad43	2.56857e-13	1.000000	2.56857e-13	1.000000
rad54	1.89531e-13	1.000000	1.89531e-13	1.000000
rad26	1.55027e-13	1.000000	1.55027e-13	1.000000
rad7	1.24311e-13	1.000000	1.24311e-13	1.000000

rad1	6.69803e-14	1.000000	6.69803e-14	1.000000
rad10	6.44793e-14	1.000000	6.44793e-14	1.000000
rad62	5.43035e-14	1.000000	5.43035e-14	1.000000
rad50	4.04143e-14	1.000000	4.04143e-14	1.000000
rad11	3.39304e-14	1.000000	3.39304e-14	1.000000
rad3	7.94613e-15	1.000000	7.94613e-15	1.000000
rad4	4.01338e-15	1.000000	4.01338e-15	1.000000
rad70	2.87795e-15	1.000000	2.87795e-15	1.000000
rad55	1.24405e-15	1.000000	1.24405e-15	1.000000
PAH1+H	5.17464e-16	1.000000	5.17464e-16	1.000000
rad13	4.61922e-16	1.000000	4.61922e-16	1.000000
rad52	2.53147e-16	1.000000	2.53147e-16	1.000000
rad23	1.68921e-16	1.000000	1.68921e-16	1.000000
rad58	7.43129e-17	1.000000	7.43129e-17	1.000000
rad51	6.08184e-17	1.000000	6.08184e-17	1.000000
Phenyl+cycC3H4	2.77347e-17	1.000000	0.000000	1.000000
rad34	2.61176e-17	1.000000	2.61176e-17	1.000000
rad42	2.93768e-18	1.000000	2.93768e-18	1.000000
rad41	2.72495e-18	1.000000	2.72495e-18	1.000000
rad45	2.68406e-18	1.000000	2.68406e-18	1.000000
rad65	1.19090e-18	1.000000	1.19090e-18	1.000000
rad9	1.05891e-18	1.000000	1.05891e-18	1.000000
rad33	8.40706e-19	1.000000	8.40706e-19	1.000000
rad14	6.53887e-19	1.000000	6.53887e-19	1.000000
rad27	6.04728e-19	1.000000	6.04728e-19	1.000000
rad25	3.11943e-19	1.000000	3.11943e-19	1.000000
rad36	1.64622e-19	1.000000	1.64622e-19	1.000000
rad22	1.10606e-19	1.000000	1.10606e-19	1.000000
rad15	5.21536e-22	1.000000	5.21536e-22	1.000000
rad31	1.92790e-23	1.000000	1.92790e-23	1.000000
rad20	3.41784e-24	1.000000	3.41784e-24	1.000000
rad21	2.40508e-24	1.000000	2.40508e-24	1.000000
rad5	7.68381e-25	1.000000	7.68381e-25	1.000000
rad18	3.04578e-25	1.000000	3.04578e-25	1.000000
PhcycC3H3_B+H	2.51879e-25	1.000000	2.51879e-25	1.000000
rad24	2.52937e-26	1.000000	2.52937e-26	1.000000
rad53	1.67934e-26	1.000000	1.67934e-26	1.000000
rad47	6.07128e-27	1.000000	6.07128e-27	1.000000
rad12	4.97009e-27	1.000000	4.97009e-27	1.000000
rad19anti	6.08991e-28	1.000000	6.08991e-28	1.000000
rad64	9.27983e-29	1.000000	9.27983e-29	1.000000
rad61	6.68035e-36	1.000000	6.68035e-36	1.000000
rad56	1.31107e-37	1.000000	1.31107e-37	1.000000
rad68syn	1.06097e-39	1.000000	1.06097e-39	1.000000
rad68anti	9.05615e-40	1.000000	9.05615e-40	1.000000
rad19syn	1.37416e-41	1.000000	1.37416e-41	1.000000
Benzene+cycloprop-2-enylidene	3.08591e-46	1.000000	3.08591e-46	1.000000
rad73	1.01490e-47	1.000000	1.01490e-47	1.000000
rad40syn	6.38448e-49	1.000000	6.38448e-49	1.000000
rad40anti	5.19108e-49	1.000000	5.19108e-49	1.000000
PAH8+H	3.09681e-53	1.000000	3.09681e-53	1.000000
rad71	1.98161e-56	1.000000	1.98161e-56	1.000000
rad8	1.05736e-60	1.000000	1.05736e-60	1.000000
Benzene+cycloprop-1-enylidene	5.02895e-84	1.000000	5.02895e-84	1.000000

0.100000000E-01 Pa, 30.0000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	8.13009e-20 (1.00)	8.13009e-20 (1.00)		
Formation of rad19	8.13009e-20 (1.00)	8.13009e-20 (1.00)		
H-abstraction to cyc2enyl	1.08880e-49 (1.34e-30)	1.08880e-49 (1.34e-30)		
H-abstraction to cyclenyl	7.55172e-75 (9.29e-56)	7.55172e-75 (9.29e-56)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999770	0.999770	0.999770	0.999770
PhCHCCH2+H	0.000218649	0.999989	0.000218649	0.999989
PhCCH+CH3	3.77338e-06	0.999992	3.77338e-06	0.999992
C2H2+PhCH2	2.67292e-06	0.999995	2.67292e-06	0.999995
PhCCCH3+H	2.12445e-06	0.999997	2.12445e-06	0.999997
Ph+MeAc	1.56969e-06	0.999999	1.56969e-06	0.999999
rad67	4.76407e-07	0.999999	4.76407e-07	0.999999
rad35	2.10922e-07	0.999999	2.10922e-07	0.999999
Ph+Allene	1.34110e-07	1.000000	1.34110e-07	1.000000
PAH7+H	1.77778e-08	1.000000	1.77778e-08	1.000000
PhCH2CCH+H	1.62757e-08	1.000000	1.62757e-08	1.000000
rad39	5.01256e-09	1.000000	5.01256e-09	1.000000
rad37	4.67906e-09	1.000000	4.67906e-09	1.000000
rad30	3.94063e-09	1.000000	3.94063e-09	1.000000

PAH9+H	2.54391e-10	1.000000	2.54391e-10	1.000000
rad38	1.07292e-10	1.000000	1.07292e-10	1.000000
rad6	3.26919e-11	1.000000	3.26919e-11	1.000000
rad60syn	1.71244e-11	1.000000	1.71244e-11	1.000000
rad60anti	8.36181e-12	1.000000	8.36181e-12	1.000000
PAH3+H	6.82405e-12	1.000000	6.82405e-12	1.000000
rad46	6.42741e-12	1.000000	6.42741e-12	1.000000
PAH10+CH3	5.65463e-12	1.000000	5.65463e-12	1.000000
rad59	1.41512e-12	1.000000	1.41512e-12	1.000000
PhcycC3H3_A+H	4.42056e-13	1.000000	4.42056e-13	1.000000
rad43	2.63751e-13	1.000000	2.63751e-13	1.000000
rad54	2.02591e-13	1.000000	2.02591e-13	1.000000
rad62	5.61702e-14	1.000000	5.61702e-14	1.000000
rad50	4.22466e-14	1.000000	4.22466e-14	1.000000
rad28	3.10992e-14	1.000000	3.10992e-14	1.000000
rad2	2.86265e-14	1.000000	2.86265e-14	1.000000
rad26	4.39198e-15	1.000000	4.39198e-15	1.000000
rad7	3.33922e-15	1.000000	3.33922e-15	1.000000
rad70	3.10803e-15	1.000000	3.10803e-15	1.000000
rad1	1.80920e-15	1.000000	1.80920e-15	1.000000
rad10	1.68139e-15	1.000000	1.68139e-15	1.000000
rad55	1.35411e-15	1.000000	1.35411e-15	1.000000
rad11	8.88053e-16	1.000000	8.88053e-16	1.000000
PAH1+H	5.62639e-16	1.000000	5.62639e-16	1.000000
rad52	2.67212e-16	1.000000	2.67212e-16	1.000000
rad3	2.04889e-16	1.000000	2.04889e-16	1.000000
rad4	1.03495e-16	1.000000	1.03495e-16	1.000000
rad58	7.74180e-17	1.000000	7.74180e-17	1.000000
rad51	6.48821e-17	1.000000	6.48821e-17	1.000000
Phenyl+cycC3H4	5.25631e-17	1.000000	0.00000	1.000000
rad34	2.89435e-17	1.000000	2.89435e-17	1.000000
rad13	1.32658e-17	1.000000	1.32658e-17	1.000000
rad42	3.14837e-18	1.000000	3.14837e-18	1.000000
rad41	2.94052e-18	1.000000	2.94052e-18	1.000000
rad65	1.27676e-18	1.000000	1.27676e-18	1.000000
rad23	1.16376e-18	1.000000	1.16376e-18	1.000000
rad33	2.45067e-20	1.000000	2.45067e-20	1.000000
rad14	1.73173e-20	1.000000	1.73173e-20	1.000000
rad45	1.65033e-20	1.000000	1.65033e-20	1.000000
rad27	1.61030e-20	1.000000	1.61030e-20	1.000000
rad9	1.51229e-20	1.000000	1.51229e-20	1.000000
rad25	8.93700e-21	1.000000	8.93700e-21	1.000000
rad36	1.01203e-21	1.000000	1.01203e-21	1.000000
rad22	6.75912e-22	1.000000	6.75912e-22	1.000000
rad15	7.12305e-24	1.000000	7.12305e-24	1.000000
rad31	5.19332e-25	1.000000	5.19332e-25	1.000000
PhcycC3H3_B+H	1.88459e-25	1.000000	1.88459e-25	1.000000
rad20	7.91143e-26	1.000000	7.91143e-26	1.000000
rad21	5.66864e-26	1.000000	5.66864e-26	1.000000
rad53	1.03126e-26	1.000000	1.03126e-26	1.000000
rad5	6.23694e-27	1.000000	6.23694e-27	1.000000
rad18	3.33889e-27	1.000000	3.33889e-27	1.000000
rad47	2.84043e-27	1.000000	2.84043e-27	1.000000
rad24	1.68860e-28	1.000000	1.68860e-28	1.000000
rad12	7.10528e-29	1.000000	7.10528e-29	1.000000
rad64	5.16113e-29	1.000000	5.16113e-29	1.000000
rad19anti	8.90356e-30	1.000000	8.90356e-30	1.000000
Benzene+cycloprop-2-enylidene	1.33923e-30	1.000000	1.33923e-30	1.000000
rad61	4.50517e-36	1.000000	4.50517e-36	1.000000
rad56	5.37551e-38	1.000000	5.37551e-38	1.000000
rad68syn	4.22107e-40	1.000000	4.22107e-40	1.000000
rad68anti	3.60691e-40	1.000000	3.60691e-40	1.000000
rad19syn	8.38610e-42	1.000000	8.38610e-42	1.000000
rad73	3.77955e-48	1.000000	3.77955e-48	1.000000
rad40syn	3.48159e-49	1.000000	3.48159e-49	1.000000
rad40anti	2.85172e-49	1.000000	2.85172e-49	1.000000
PAH8+H	1.50946e-53	1.000000	1.50946e-53	1.000000
Benzene+cycloprop-1-enylidene	9.28861e-56	1.000000	9.28861e-56	1.000000
rad71	7.02097e-57	1.000000	7.02097e-57	1.000000
rad8	1.53863e-61	1.000000	1.53863e-61	1.000000

0.100000000E-01 Pa, 40.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.24819e-18 (1.00)	2.24819e-18 (1.00)
Formation of rad19	2.24819e-18 (1.00)	2.24819e-18 (1.00)
H-abstraction to cyc2enyl	1.72361e-40 (7.67e-23)	1.72361e-40 (7.67e-23)
H-abstraction to cyclenyl	2.48792e-59 (1.11e-41)	2.48792e-59 (1.11e-41)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999767	0.999767	0.999767	0.999767
PhCHCCH2+H	0.000221686	0.999989	0.000221686	0.999989
PhCCH+CH3	3.83213e-06	0.999993	3.83213e-06	0.999993
C2H2+PhCH2	2.72500e-06	0.999995	2.72500e-06	0.999995
PhCCCH3+H	2.15972e-06	0.999997	2.15972e-06	0.999997
Ph+MeAc	1.60176e-06	0.999999	1.60176e-06	0.999999
rad67	4.85525e-07	0.999999	4.85525e-07	0.999999
rad35	2.14793e-07	1.000000	2.14793e-07	1.000000
Ph+Allene	1.38511e-07	1.000000	1.38511e-07	1.000000
PAH7+H	1.82784e-08	1.000000	1.82784e-08	1.000000
PhCH2CCH+H	1.68986e-08	1.000000	1.68986e-08	1.000000
rad39	5.15448e-09	1.000000	5.15448e-09	1.000000
rad37	4.79482e-09	1.000000	4.79482e-09	1.000000
rad30	4.01531e-09	1.000000	4.01531e-09	1.000000
PAH9+H	2.61411e-10	1.000000	2.61411e-10	1.000000
rad38	1.10472e-10	1.000000	1.10472e-10	1.000000
rad60syn	1.75792e-11	1.000000	1.75792e-11	1.000000
rad60anti	8.58950e-12	1.000000	8.58950e-12	1.000000
PAH3+H	7.06954e-12	1.000000	7.06954e-12	1.000000
rad46	6.64005e-12	1.000000	6.64005e-12	1.000000
PAH10+CH3	5.94247e-12	1.000000	5.94247e-12	1.000000
rad6	3.89932e-12	1.000000	3.89932e-12	1.000000
rad59	1.46407e-12	1.000000	1.46407e-12	1.000000
PhcycC3H3_A+H	5.01131e-13	1.000000	5.01131e-13	1.000000
rad43	2.75792e-13	1.000000	2.75792e-13	1.000000
rad54	2.15455e-13	1.000000	2.15455e-13	1.000000
rad62	5.89574e-14	1.000000	5.89574e-14	1.000000
rad50	4.43128e-14	1.000000	4.43128e-14	1.000000
rad28	3.62958e-15	1.000000	3.62958e-15	1.000000
rad70	3.35802e-15	1.000000	3.35802e-15	1.000000
rad2	3.25862e-15	1.000000	3.25862e-15	1.000000
rad55	1.46817e-15	1.000000	1.46817e-15	1.000000
PAH1+H	6.22177e-16	1.000000	6.22177e-16	1.000000
rad26	5.13218e-16	1.000000	5.13218e-16	1.000000
rad7	3.81803e-16	1.000000	3.81803e-16	1.000000
rad52	2.83398e-16	1.000000	2.83398e-16	1.000000
rad1	2.06177e-16	1.000000	2.06177e-16	1.000000
rad10	1.87978e-16	1.000000	1.87978e-16	1.000000
Phenyl+cycC3H4	1.15738e-16	1.000000	0.000000	1.000000
rad11	1.00249e-16	1.000000	1.00249e-16	1.000000
rad58	8.30962e-17	1.000000	8.30962e-17	1.000000
rad51	6.97169e-17	1.000000	6.97169e-17	1.000000
rad34	3.23160e-17	1.000000	3.23160e-17	1.000000
rad3	2.28141e-17	1.000000	2.28141e-17	1.000000
rad4	1.15267e-17	1.000000	1.15267e-17	1.000000
rad42	3.51044e-18	1.000000	3.51044e-18	1.000000
rad41	3.37096e-18	1.000000	3.37096e-18	1.000000
rad13	1.57508e-18	1.000000	1.57508e-18	1.000000
rad65	1.38092e-18	1.000000	1.38092e-18	1.000000
rad23	5.72379e-20	1.000000	5.72379e-20	1.000000
rad33	2.92582e-21	1.000000	2.92582e-21	1.000000
rad14	1.96946e-21	1.000000	1.96946e-21	1.000000
rad27	1.82652e-21	1.000000	1.82652e-21	1.000000
rad9	1.63375e-21	1.000000	1.63375e-21	1.000000
rad25	1.06049e-21	1.000000	1.06049e-21	1.000000
rad45	7.64599e-22	1.000000	7.64599e-22	1.000000
Benzene+cycloprop-2-enylidene	7.66665e-23	1.000000	7.66665e-23	1.000000
rad36	4.68713e-23	1.000000	4.68713e-23	1.000000
rad22	3.13407e-23	1.000000	3.13407e-23	1.000000
PhcycC3H3_B+H	1.11671e-24	1.000000	1.11671e-24	1.000000
rad15	7.53806e-25	1.000000	7.53806e-25	1.000000
rad31	5.93831e-26	1.000000	5.93831e-26	1.000000
rad53	1.39443e-26	1.000000	1.39443e-26	1.000000
rad20	8.82924e-27	1.000000	8.82924e-27	1.000000
rad21	6.37702e-27	1.000000	6.37702e-27	1.000000
rad47	1.87853e-27	1.000000	1.87853e-27	1.000000
rad5	5.81015e-28	1.000000	5.81015e-28	1.000000
rad18	2.53730e-28	1.000000	2.53730e-28	1.000000
rad64	6.81413e-29	1.000000	6.81413e-29	1.000000
rad24	8.22626e-30	1.000000	8.22626e-30	1.000000
rad12	7.69324e-30	1.000000	7.69324e-30	1.000000
rad19anti	1.04556e-30	1.000000	1.04556e-30	1.000000
rad61	7.28132e-36	1.000000	7.28132e-36	1.000000
rad56	6.82099e-38	1.000000	6.82099e-38	1.000000
rad68syn	5.38230e-40	1.000000	5.38230e-40	1.000000
rad68anti	4.59875e-40	1.000000	4.59875e-40	1.000000
Benzene+cycloprop-1-enylidene	1.10663e-41	1.000000	1.10663e-41	1.000000
rad19syn	8.61360e-42	1.000000	8.61360e-42	1.000000

rad73	4.96285e-48	1.000000	4.96285e-48	1.000000
rad40syn	6.32792e-49	1.000000	6.32792e-49	1.000000
rad40anti	5.19527e-49	1.000000	5.19527e-49	1.000000
PAH8+H	2.75147e-53	1.000000	2.75147e-53	1.000000
rad71	9.94568e-57	1.000000	9.94568e-57	1.000000
rad8	1.02405e-61	1.000000	1.02405e-61	1.000000

0.100000000E-01 Pa, 50.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.72707e-17 (1.00)	1.72707e-17 (1.00)
Formation of rad19	1.72707e-17 (1.00)	1.72707e-17 (1.00)
H-abstraction to cyc2enyl	5.49905e-35 (3.18e-18)	5.49905e-35 (3.18e-18)
H-abstraction to cyclenyl	4.93090e-50 (2.86e-33)	4.93090e-50 (2.86e-33)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999763	0.999763	0.999763	0.999763
PhCHCCH2+H	0.000225610	0.999989	0.000225610	0.999989
PhCCH+CH3	3.90696e-06	0.999993	3.90696e-06	0.999993
C2H2+PhCH2	2.78966e-06	0.999995	2.78966e-06	0.999995
PhCCCH3+H	2.20542e-06	0.999998	2.20542e-06	0.999998
Ph+MeAc	1.64324e-06	0.999999	1.64324e-06	0.999999
rad67	4.97381e-07	1.000000	4.97381e-07	1.000000
rad35	2.19821e-07	1.000000	2.19821e-07	1.000000
Ph+Allene	1.43685e-07	1.000000	1.43685e-07	1.000000
PAH7+H	1.88638e-08	1.000000	1.88638e-08	1.000000
PhCH2CCH+H	1.76333e-08	1.000000	1.76333e-08	1.000000
rad39	5.32027e-09	1.000000	5.32027e-09	1.000000
rad37	4.94554e-09	1.000000	4.94554e-09	1.000000
rad30	4.11172e-09	1.000000	4.11172e-09	1.000000
PAH9+H	2.69930e-10	1.000000	2.69930e-10	1.000000
rad38	1.14381e-10	1.000000	1.14381e-10	1.000000
rad60syn	1.81698e-11	1.000000	1.81698e-11	1.000000
rad60anti	8.88546e-12	1.000000	8.88546e-12	1.000000
PAH3+H	7.39163e-12	1.000000	7.39163e-12	1.000000
rad46	6.89697e-12	1.000000	6.89697e-12	1.000000
PAH10+CH3	6.32744e-12	1.000000	6.32744e-12	1.000000
rad59	1.52818e-12	1.000000	1.52818e-12	1.000000
rad6	8.52645e-13	1.000000	8.52645e-13	1.000000
PhcycC3H3_A+H	5.85721e-13	1.000000	5.85721e-13	1.000000
rad43	2.91709e-13	1.000000	2.91709e-13	1.000000
rad54	2.30671e-13	1.000000	2.30671e-13	1.000000
rad62	6.25569e-14	1.000000	6.25569e-14	1.000000
rad50	4.68301e-14	1.000000	4.68301e-14	1.000000
rad70	3.66567e-15	1.000000	3.66567e-15	1.000000
rad55	1.60650e-15	1.000000	1.60650e-15	1.000000
rad28	7.83127e-16	1.000000	7.83127e-16	1.000000
PAH1+H	7.00475e-16	1.000000	7.00475e-16	1.000000
rad2	6.89388e-16	1.000000	6.89388e-16	1.000000
rad52	3.03378e-16	1.000000	3.03378e-16	1.000000
Phenyl+cycC3H4	2.36668e-16	1.000000	0.000000	1.000000
rad26	1.10520e-16	1.000000	1.10520e-16	1.000000
rad58	9.08493e-17	1.000000	9.08493e-17	1.000000
rad7	8.12251e-17	1.000000	8.12251e-17	1.000000
rad51	7.57965e-17	1.000000	7.57965e-17	1.000000
rad1	4.36890e-17	1.000000	4.36890e-17	1.000000
rad10	3.93028e-17	1.000000	3.93028e-17	1.000000
rad34	3.66069e-17	1.000000	3.66069e-17	1.000000
rad11	2.11568e-17	1.000000	2.11568e-17	1.000000
rad3	4.76133e-18	1.000000	4.76133e-18	1.000000
rad42	4.03684e-18	1.000000	4.03684e-18	1.000000
rad41	4.00952e-18	1.000000	4.00952e-18	1.000000
Benzene+cycloprop-2-enylidene	3.18404e-18	1.000000	3.18404e-18	1.000000
rad4	2.40645e-18	1.000000	2.40645e-18	1.000000
rad65	1.51314e-18	1.000000	1.51314e-18	1.000000
rad13	3.43921e-19	1.000000	3.43921e-19	1.000000
rad23	6.58965e-21	1.000000	6.58965e-21	1.000000
rad33	6.40894e-22	1.000000	6.40894e-22	1.000000
rad14	4.18106e-22	1.000000	4.18106e-22	1.000000
rad27	3.86191e-22	1.000000	3.86191e-22	1.000000
rad9	3.78722e-22	1.000000	3.78722e-22	1.000000
PhcycC3H3_B+H	2.98958e-22	1.000000	2.98958e-22	1.000000
rad25	2.31540e-22	1.000000	2.31540e-22	1.000000
rad45	8.46166e-23	1.000000	8.46166e-23	1.000000
rad36	5.18499e-24	1.000000	5.18499e-24	1.000000
rad22	3.47503e-24	1.000000	3.47503e-24	1.000000
rad15	1.72630e-25	1.000000	1.72630e-25	1.000000
rad53	3.87285e-26	1.000000	3.87285e-26	1.000000

rad31	1.26748e-26	1.00000	1.26748e-26	1.00000
rad20	1.90134e-27	1.00000	1.90134e-27	1.00000
rad47	1.42080e-27	1.00000	1.42080e-27	1.00000
rad21	1.38013e-27	1.00000	1.38013e-27	1.00000
rad64	1.59073e-28	1.00000	1.59073e-28	1.00000
rad5	1.53499e-28	1.00000	1.53499e-28	1.00000
rad18	4.26643e-29	1.00000	4.26643e-29	1.00000
rad12	1.78920e-30	1.00000	1.78920e-30	1.00000
rad24	9.44402e-31	1.00000	9.44402e-31	1.00000
rad19anti	3.05835e-31	1.00000	3.05835e-31	1.00000
Benzene+cycloprop-1-enylidene	2.85507e-33	1.00000	2.85507e-33	1.00000
rad61	2.03332e-35	1.00000	2.03332e-35	1.00000
rad56	1.62004e-37	1.00000	1.62004e-37	1.00000
rad68syn	1.30242e-39	1.00000	1.30242e-39	1.00000
rad68anti	1.11220e-39	1.00000	1.11220e-39	1.00000
rad19syn	1.15714e-41	1.00000	1.15714e-41	1.00000
rad73	1.29221e-47	1.00000	1.29221e-47	1.00000
rad40syn	2.30184e-48	1.00000	2.30184e-48	1.00000
rad40anti	1.89092e-48	1.00000	1.89092e-48	1.00000
PAH8+H	1.06168e-52	1.00000	1.06168e-52	1.00000
rad71	3.00988e-56	1.00000	3.00988e-56	1.00000
rad8	9.24480e-62	1.00000	9.24480e-62	1.00000

0.100000000E-01 Pa, 60.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.93738e-17 (1.00)	6.93738e-17 (1.00)
Formation of rad19	6.93738e-17 (1.000)	6.93738e-17 (1.000)
H-abstraction to cyc2enyl	2.50609e-31 (3.61e-15)	2.50609e-31 (3.61e-15)
H-abstraction to cyc1enyl	7.62015e-44 (1.10e-27)	7.62015e-44 (1.10e-27)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999758	0.999758	0.999758	0.999758
PhCHCCH2+H	0.000230082	0.999988	0.000230082	0.999988
PhCCH+CH3	3.99185e-06	0.999992	3.99185e-06	0.999992
C2H2+PhCH2	2.86277e-06	0.999995	2.86277e-06	0.999995
PhCCCH3+H	2.25765e-06	0.999997	2.25765e-06	0.999997
Ph+MeAc	1.69080e-06	0.999999	1.69080e-06	0.999999
rad67	5.10988e-07	0.999999	5.10988e-07	0.999999
rad35	2.25587e-07	1.000000	2.25587e-07	1.000000
Ph+Allene	1.49492e-07	1.000000	1.49492e-07	1.000000
PAH7+H	1.95169e-08	1.000000	1.95169e-08	1.000000
PhCH2CCH+H	1.84625e-08	1.000000	1.84625e-08	1.000000
rad39	5.50513e-09	1.000000	5.50513e-09	1.000000
rad37	5.11967e-09	1.000000	5.11967e-09	1.000000
rad30	4.22216e-09	1.000000	4.22216e-09	1.000000
PAH9+H	2.79568e-10	1.000000	2.79568e-10	1.000000
rad38	1.18833e-10	1.000000	1.18833e-10	1.000000
rad60syn	1.88534e-11	1.000000	1.88534e-11	1.000000
rad60anti	9.22829e-12	1.000000	9.22829e-12	1.000000
PAH3+H	7.76934e-12	1.000000	7.76934e-12	1.000000
rad46	7.18861e-12	1.000000	7.18861e-12	1.000000
PAH10+CH3	6.78829e-12	1.000000	6.78829e-12	1.000000
rad59	1.60320e-12	1.000000	1.60320e-12	1.000000
PhcycC3H3_A+H	6.95526e-13	1.000000	6.95526e-13	1.000000
rad43	3.10571e-13	1.000000	3.10571e-13	1.000000
rad6	2.61390e-13	1.000000	2.61390e-13	1.000000
rad54	2.48184e-13	1.000000	2.48184e-13	1.000000
rad62	6.67972e-14	1.000000	6.67972e-14	1.000000
rad50	4.97358e-14	1.000000	4.97358e-14	1.000000
rad70	4.03021e-15	1.000000	4.03021e-15	1.000000
Benzene+cycloprop-2-enylidene	3.61245e-15	1.000000	3.61245e-15	1.000000
rad55	1.76939e-15	1.000000	1.76939e-15	1.000000
PAH1+H	7.97457e-16	1.000000	7.97457e-16	1.000000
Phenyl+cycC3H4	4.45921e-16	1.000000	0.000000	1.000000
rad52	3.26782e-16	1.000000	3.26782e-16	1.000000
rad28	2.37885e-16	1.000000	2.37885e-16	1.000000
rad2	2.06056e-16	1.000000	2.06056e-16	1.000000
rad58	1.00394e-16	1.000000	1.00394e-16	1.000000
rad51	8.30505e-17	1.000000	8.30505e-17	1.000000
rad34	4.18526e-17	1.000000	4.18526e-17	1.000000
rad26	3.34769e-17	1.000000	3.34769e-17	1.000000
rad7	2.44105e-17	1.000000	2.44105e-17	1.000000
rad1	1.30848e-17	1.000000	1.30848e-17	1.000000
rad10	1.16476e-17	1.000000	1.16476e-17	1.000000
rad11	6.32273e-18	1.000000	6.32273e-18	1.000000
rad41	4.85657e-18	1.000000	4.85657e-18	1.000000
rad42	4.72998e-18	1.000000	4.72998e-18	1.000000

rad65	1.67235e-18	1.000000	1.67235e-18	1.000000
rad3	1.40983e-18	1.000000	1.40983e-18	1.000000
rad4	7.12862e-19	1.000000	7.12862e-19	1.000000
rad13	1.05431e-19	1.000000	1.05431e-19	1.000000
PhcycC3H3_B+H	1.47038e-20	1.000000	1.47038e-20	1.000000
rad23	1.22377e-21	1.000000	1.22377e-21	1.000000
rad33	1.96922e-22	1.000000	1.96922e-22	1.000000
rad9	1.31673e-22	1.000000	1.31673e-22	1.000000
rad14	1.25597e-22	1.000000	1.25597e-22	1.000000
rad27	1.15523e-22	1.000000	1.15523e-22	1.000000
rad25	7.09903e-23	1.000000	7.09903e-23	1.000000
rad45	1.52652e-23	1.000000	1.52652e-23	1.000000
rad36	9.35024e-25	1.000000	9.35024e-25	1.000000
rad22	6.28398e-25	1.000000	6.28398e-25	1.000000
rad53	4.61558e-25	1.000000	4.61558e-25	1.000000
rad15	5.95423e-26	1.000000	5.95423e-26	1.000000
rad31	3.83506e-27	1.000000	3.83506e-27	1.000000
rad64	1.47832e-27	1.000000	1.47832e-27	1.000000
rad47	1.15651e-27	1.000000	1.15651e-27	1.000000
Benzene+cycloprop-1-enylidene	1.09842e-27	1.000000	1.09842e-27	1.000000
rad20	5.88173e-28	1.000000	5.88173e-28	1.000000
rad21	4.28542e-28	1.000000	4.28542e-28	1.000000
rad5	6.51325e-29	1.000000	6.51325e-29	1.000000
rad18	1.10567e-29	1.000000	1.10567e-29	1.000000
rad12	6.24571e-31	1.000000	6.24571e-31	1.000000
rad24	1.75446e-31	1.000000	1.75446e-31	1.000000
rad19anti	1.70588e-31	1.000000	1.70588e-31	1.000000
rad61	1.49327e-34	1.000000	1.49327e-34	1.000000
rad56	7.40844e-37	1.000000	7.40844e-37	1.000000
rad68syn	6.10594e-39	1.000000	6.10594e-39	1.000000
rad68anti	5.20993e-39	1.000000	5.20993e-39	1.000000
rad19syn	1.80508e-41	1.000000	1.80508e-41	1.000000
rad73	6.68372e-47	1.000000	6.68372e-47	1.000000
rad40syn	1.61810e-47	1.000000	1.61810e-47	1.000000
rad40anti	1.32825e-47	1.000000	1.32825e-47	1.000000
PAH8+H	8.27031e-52	1.000000	8.27031e-52	1.000000
rad71	1.90942e-55	1.000000	1.90942e-55	1.000000
rad8	9.56307e-62	1.000000	9.56307e-62	1.000000

0.100000000E-01 Pa, 70.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.91520e-16 (1.00)	1.91520e-16 (1.00)
Formation of rad19	1.91520e-16 (1.000)	1.91520e-16 (1.000)
H-abstraction to cyc2enyl	1.01125e-28 (5.28e-13)	1.01125e-28 (5.28e-13)
H-abstraction to cyc1enyl	1.97822e-39 (1.03e-23)	1.97822e-39 (1.03e-23)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999753	0.999753	0.999753	0.999753
PhCHCCH2+H	0.000234973	0.999988	0.000234973	0.999988
PhCCH+CH3	4.08454e-06	0.999992	4.08454e-06	0.999992
C2H2+PhCH2	2.94282e-06	0.999995	2.94282e-06	0.999995
PhCCCH3+H	2.31497e-06	0.999997	2.31497e-06	0.999997
Ph+MeAc	1.74329e-06	0.999999	1.74329e-06	0.999999
rad67	5.25996e-07	1.000000	5.25996e-07	1.000000
rad35	2.31937e-07	1.000000	2.31937e-07	1.000000
Ph+Allene	1.55889e-07	1.000000	1.55889e-07	1.000000
PAH7+H	2.02315e-08	1.000000	2.02315e-08	1.000000
PhCH2CCH+H	1.93820e-08	1.000000	1.93820e-08	1.000000
rad39	5.70734e-09	1.000000	5.70734e-09	1.000000
rad37	5.31335e-09	1.000000	5.31335e-09	1.000000
rad30	4.34389e-09	1.000000	4.34389e-09	1.000000
PAH9+H	2.90198e-10	1.000000	2.90198e-10	1.000000
rad38	1.23773e-10	1.000000	1.23773e-10	1.000000
rad60syn	1.96160e-11	1.000000	1.96160e-11	1.000000
rad60anti	9.61119e-12	1.000000	9.61119e-12	1.000000
PAH3+H	8.19717e-12	1.000000	8.19717e-12	1.000000
rad46	7.51217e-12	1.000000	7.51217e-12	1.000000
PAH10+CH3	7.32220e-12	1.000000	7.32220e-12	1.000000
rad59	1.68797e-12	1.000000	1.68797e-12	1.000000
PhcycC3H3_A+H	8.34753e-13	1.000000	8.34753e-13	1.000000
Benzene+cycloprop-2-enylidene	5.28015e-13	1.000000	5.28015e-13	1.000000
rad43	3.32192e-13	1.000000	3.32192e-13	1.000000
rad54	2.68126e-13	1.000000	2.68126e-13	1.000000
rad6	9.93522e-14	1.000000	9.93522e-14	1.000000
rad62	7.16500e-14	1.000000	7.16500e-14	1.000000
rad50	5.30268e-14	1.000000	5.30268e-14	1.000000
rad70	4.45669e-15	1.000000	4.45669e-15	1.000000

rad55	1.95937e-15	1.00000	1.95937e-15	1.00000
PAH1+H	9.15584e-16	1.00000	9.15584e-16	1.00000
Phenyl+cycC3H4	7.87809e-16	1.00000	0.00000	1.00000
rad52	3.53720e-16	1.00000	3.53720e-16	1.00000
rad58	1.11814e-16	1.00000	1.11814e-16	1.00000
rad51	9.15666e-17	1.00000	9.15666e-17	1.00000
rad28	8.98122e-17	1.00000	8.98122e-17	1.00000
rad2	7.67399e-17	1.00000	7.67399e-17	1.00000
rad34	4.82176e-17	1.00000	4.82176e-17	1.00000
rad26	1.26004e-17	1.00000	1.26004e-17	1.00000
rad7	9.13712e-18	1.00000	9.13712e-18	1.00000
rad41	5.94061e-18	1.00000	5.94061e-18	1.00000
rad42	5.61022e-18	1.00000	5.61022e-18	1.00000
rad1	4.88448e-18	1.00000	4.88448e-18	1.00000
rad10	4.30933e-18	1.00000	4.30933e-18	1.00000
rad11	2.35682e-18	1.00000	2.35682e-18	1.00000
rad65	1.86103e-18	1.00000	1.86103e-18	1.00000
rad3	5.21418e-19	1.00000	5.21418e-19	1.00000
rad4	2.63786e-19	1.00000	2.63786e-19	1.00000
PhcycC3H3_B+H	2.38340e-19	1.00000	2.38340e-19	1.00000
rad13	4.01045e-20	1.00000	4.01045e-20	1.00000
rad23	3.08844e-22	1.00000	3.08844e-22	1.00000
rad33	7.50468e-23	1.00000	7.50468e-23	1.00000
rad9	5.89198e-23	1.00000	5.89198e-23	1.00000
rad14	4.70371e-23	1.00000	4.70371e-23	1.00000
rad27	4.30903e-23	1.00000	4.30903e-23	1.00000
rad25	2.70108e-23	1.00000	2.70108e-23	1.00000
Benzene+cycloprop-1-enylidene	1.03290e-23	1.00000	1.03290e-23	1.00000
rad53	5.78352e-24	1.00000	5.78352e-24	1.00000
rad45	3.76647e-24	1.00000	3.76647e-24	1.00000
rad36	2.30631e-25	1.00000	2.30631e-25	1.00000
rad22	1.55466e-25	1.00000	1.55466e-25	1.00000
rad64	3.63049e-26	1.00000	3.63049e-26	1.00000
rad15	2.64957e-26	1.00000	2.64957e-26	1.00000
rad31	1.44990e-27	1.00000	1.44990e-27	1.00000
rad47	9.86915e-28	1.00000	9.86915e-28	1.00000
rad20	2.28792e-28	1.00000	2.28792e-28	1.00000
rad21	1.67223e-28	1.00000	1.67223e-28	1.00000
rad5	3.49061e-29	1.00000	3.49061e-29	1.00000
rad18	3.75799e-30	1.00000	3.75799e-30	1.00000
rad12	2.80774e-31	1.00000	2.80774e-31	1.00000
rad19anti	1.53730e-31	1.00000	1.53730e-31	1.00000
rad61	5.79669e-32	1.00000	5.79669e-32	1.00000
rad24	4.43750e-32	1.00000	4.43750e-32	1.00000
rad56	3.35204e-35	1.00000	3.35204e-35	1.00000
rad68syn	9.07200e-38	1.00000	9.07200e-38	1.00000
rad68anti	7.73484e-38	1.00000	7.73484e-38	1.00000
rad19syn	3.07655e-41	1.00000	3.07655e-41	1.00000
rad73	1.07782e-45	1.00000	1.07782e-45	1.00000
rad40syn	2.93081e-46	1.00000	2.93081e-46	1.00000
rad40anti	2.40043e-46	1.00000	2.40043e-46	1.00000
PAH8+H	1.72178e-50	1.00000	1.72178e-50	1.00000
rad71	3.72768e-54	1.00000	3.72768e-54	1.00000
rad8	1.07856e-61	1.00000	1.07856e-61	1.00000

0.100000000E-01 Pa, 80.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.17084e-16 (1.00)	4.17084e-16 (1.00)
Formation of rad19	4.17084e-16 (1.000)	4.17084e-16 (1.000)
H-abstraction to cyc2enyl	8.98751e-27 (2.15e-11)	8.98751e-27 (2.15e-11)
H-abstraction to cyc1enyl	4.00120e-36 (9.59e-21)	4.00120e-36 (9.59e-21)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999747	0.999747	0.999747	0.999747
PhCHCCH2+H	0.000240249	0.999987	0.000240249	0.999987
PhCCH+CH3	4.18440e-06	0.999991	4.18440e-06	0.999991
C2H2+PhCH2	3.02951e-06	0.999994	3.02951e-06	0.999994
PhCCCH3+H	2.37703e-06	0.999997	2.37703e-06	0.999997
Ph+MeAc	1.80044e-06	0.999999	1.80044e-06	0.999999
rad67	5.42325e-07	0.999999	5.42325e-07	0.999999
rad35	2.38839e-07	0.999999	2.38839e-07	0.999999
Ph+Allene	1.62897e-07	1.000000	1.62897e-07	1.000000
PAH7+H	2.10089e-08	1.000000	2.10089e-08	1.000000
PhCH2CCH+H	2.03971e-08	1.000000	2.03971e-08	1.000000
rad39	5.92724e-09	1.000000	5.92724e-09	1.000000
rad37	5.52610e-09	1.000000	5.52610e-09	1.000000
rad30	4.47634e-09	1.000000	4.47634e-09	1.000000

PAH9+H	3.01831e-10	1.000000	3.01831e-10	1.000000
rad38	1.29208e-10	1.000000	1.29208e-10	1.000000
Benzene+cycloprop-2-enylidene	2.15484e-11	1.000000	2.15484e-11	1.000000
rad60syn	2.04569e-11	1.000000	2.04569e-11	1.000000
rad60anti	1.00339e-11	1.000000	1.00339e-11	1.000000
PAH3+H	8.67671e-12	1.000000	8.67671e-12	1.000000
PAH10+CH3	7.93518e-12	1.000000	7.93518e-12	1.000000
rad46	7.86879e-12	1.000000	7.86879e-12	1.000000
rad59	1.78274e-12	1.000000	1.78274e-12	1.000000
PhcycC3H3_A+H	1.01044e-12	1.000000	1.01044e-12	1.000000
rad43	3.56735e-13	1.000000	3.56735e-13	1.000000
rad54	2.90810e-13	1.000000	2.90810e-13	1.000000
rad62	7.71586e-14	1.000000	7.71586e-14	1.000000
rad50	5.67381e-14	1.000000	5.67381e-14	1.000000
rad6	4.37962e-14	1.000000	4.37962e-14	1.000000
rad70	4.95512e-15	1.000000	4.95512e-15	1.000000
rad55	2.18104e-15	1.000000	2.18104e-15	1.000000
Phenyl+cycC3H4	1.32430e-15	1.000000	0.00000	1.000000
PAH1+H	1.05930e-15	1.000000	1.05930e-15	1.000000
rad52	3.84632e-16	1.000000	3.84632e-16	1.000000
rad58	1.25392e-16	1.000000	1.25392e-16	1.000000
rad51	1.01545e-16	1.000000	1.01545e-16	1.000000
rad34	5.59620e-17	1.000000	5.59620e-17	1.000000
rad28	3.93878e-17	1.000000	3.93878e-17	1.000000
rad2	3.32595e-17	1.000000	3.32595e-17	1.000000
rad41	7.31627e-18	1.000000	7.31627e-18	1.000000
rad42	6.71573e-18	1.000000	6.71573e-18	1.000000
rad26	5.50924e-18	1.000000	5.50924e-18	1.000000
rad7	3.97855e-18	1.000000	3.97855e-18	1.000000
rad1	2.12255e-18	1.000000	2.12255e-18	1.000000
rad65	2.08431e-18	1.000000	2.08431e-18	1.000000
PhcycC3H3_B+H	1.96139e-18	1.000000	1.96139e-18	1.000000
rad10	1.85785e-18	1.000000	1.85785e-18	1.000000
rad11	1.02292e-18	1.000000	1.02292e-18	1.000000
rad3	2.24778e-19	1.000000	2.24778e-19	1.000000
rad4	1.13785e-19	1.000000	1.13785e-19	1.000000
rad13	1.77015e-20	1.000000	1.77015e-20	1.000000
Benzene+cycloprop-1-enylidene	9.59328e-21	1.000000	9.59328e-21	1.000000
rad23	9.64614e-23	1.000000	9.64614e-23	1.000000
rad53	4.21155e-23	1.000000	4.21155e-23	1.000000
rad33	3.31796e-23	1.000000	3.31796e-23	1.000000
rad9	3.13311e-23	1.000000	3.13311e-23	1.000000
rad14	2.05050e-23	1.000000	2.05050e-23	1.000000
rad27	1.87140e-23	1.000000	1.87140e-23	1.000000
rad25	1.19262e-23	1.000000	1.19262e-23	1.000000
rad45	1.15505e-24	1.000000	1.15505e-24	1.000000
rad64	5.15518e-25	1.000000	5.15518e-25	1.000000
rad36	7.07130e-26	1.000000	7.07130e-26	1.000000
rad22	4.78180e-26	1.000000	4.78180e-26	1.000000
rad15	1.40331e-26	1.000000	1.40331e-26	1.000000
rad47	8.70888e-28	1.000000	8.70888e-28	1.000000
rad31	6.39524e-28	1.000000	6.39524e-28	1.000000
rad20	1.04174e-28	1.000000	1.04174e-28	1.000000
rad21	7.63575e-29	1.000000	7.63575e-29	1.000000
rad5	2.13500e-29	1.000000	2.13500e-29	1.000000
rad61	8.43878e-30	1.000000	8.43878e-30	1.000000
rad18	1.53694e-30	1.000000	1.53694e-30	1.000000
rad19anti	1.87446e-31	1.000000	1.87446e-31	1.000000
rad12	1.50074e-31	1.000000	1.50074e-31	1.000000
rad24	1.39073e-32	1.000000	1.39073e-32	1.000000
rad56	1.35122e-32	1.000000	1.35122e-32	1.000000
rad68syn	1.91253e-34	1.000000	1.91253e-34	1.000000
rad68anti	1.61066e-34	1.000000	1.61066e-34	1.000000
rad19syn	5.56519e-41	1.000000	5.56519e-41	1.000000
rad73	1.06570e-43	1.000000	1.06570e-43	1.000000
rad40syn	2.31526e-44	1.000000	2.31526e-44	1.000000
rad40anti	1.88869e-44	1.000000	1.88869e-44	1.000000
PAH8+H	1.58589e-48	1.000000	1.58589e-48	1.000000
rad71	4.07739e-52	1.000000	4.07739e-52	1.000000
rad8	1.29465e-61	1.000000	1.29465e-61	1.000000

0.100000000E-01 Pa, 90.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.74016e-16 (1.00)	7.74016e-16 (1.00)
Formation of rad19	7.74016e-16 (1.000)	7.74016e-16 (1.000)
H-abstraction to cyc2enyl	2.91736e-25 (3.77e-10)	2.91736e-25 (3.77e-10)
H-abstraction to cyclenyl	1.47814e-33 (1.91e-18)	1.47814e-33 (1.91e-18)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999741	0.999741	0.999741	0.999741
PhCHCCH2+H	0.000245907	0.999987	0.000245907	0.999987
PhCCH+CH3	4.29144e-06	0.999991	4.29144e-06	0.999991
C2H2+PhCH2	3.12303e-06	0.999994	3.12303e-06	0.999994
PhCCCH3+H	2.44384e-06	0.999997	2.44384e-06	0.999997
Ph+MeAc	1.86238e-06	0.999999	1.86238e-06	0.999999
rad67	5.60003e-07	0.999999	5.60003e-07	0.999999
rad35	2.46300e-07	0.999999	2.46300e-07	0.999999
Ph+Allene	1.70568e-07	1.000000	1.70568e-07	1.000000
PAH7+H	2.18534e-08	1.000000	2.18534e-08	1.000000
PhCH2CCH+H	2.15173e-08	1.000000	2.15173e-08	1.000000
rad39	6.16608e-09	1.000000	6.16608e-09	1.000000
rad37	5.75880e-09	1.000000	5.75880e-09	1.000000
rad30	4.61977e-09	1.000000	4.61977e-09	1.000000
Benzene+cycloprop-2-enylidene	3.76912e-10	1.000000	3.76912e-10	1.000000
PAH9+H	3.14532e-10	1.000000	3.14532e-10	1.000000
rad38	1.35178e-10	1.000000	1.35178e-10	1.000000
rad60syn	2.13805e-11	1.000000	2.13805e-11	1.000000
rad60anti	1.04987e-11	1.000000	1.04987e-11	1.000000
PAH3+H	9.21271e-12	1.000000	9.21271e-12	1.000000
PAH10+CH3	8.63789e-12	1.000000	8.63789e-12	1.000000
rad46	8.26133e-12	1.000000	8.26133e-12	1.000000
rad59	1.88837e-12	1.000000	1.88837e-12	1.000000
PhcycC3H3_A+H	1.23228e-12	1.000000	1.23228e-12	1.000000
rad43	3.84534e-13	1.000000	3.84534e-13	1.000000
rad54	3.16671e-13	1.000000	3.16671e-13	1.000000
rad62	8.34016e-14	1.000000	8.34016e-14	1.000000
rad50	6.09253e-14	1.000000	6.09253e-14	1.000000
rad6	2.15080e-14	1.000000	2.15080e-14	1.000000
rad70	5.53923e-15	1.000000	5.53923e-15	1.000000
rad55	2.44062e-15	1.000000	2.44062e-15	1.000000
Phenyl+cycC3H4	2.14284e-15	1.000000	0.00000	1.000000
PAH1+H	1.23481e-15	1.000000	1.23481e-15	1.000000
rad52	4.20160e-16	1.000000	4.20160e-16	1.000000
rad58	1.41551e-16	1.000000	1.41551e-16	1.000000
rad51	1.13271e-16	1.000000	1.13271e-16	1.000000
rad34	6.54349e-17	1.000000	6.54349e-17	1.000000
rad28	1.92650e-17	1.000000	1.92650e-17	1.000000
rad2	1.60993e-17	1.000000	1.60993e-17	1.000000
PhcycC3H3_B+H	1.04002e-17	1.000000	1.04002e-17	1.000000
rad41	9.06540e-18	1.000000	9.06540e-18	1.000000
rad42	8.10276e-18	1.000000	8.10276e-18	1.000000
rad26	2.68677e-18	1.000000	2.68677e-18	1.000000
rad65	2.34935e-18	1.000000	2.34935e-18	1.000000
rad7	1.93407e-18	1.000000	1.93407e-18	1.000000
Benzene+cycloprop-1-enylidene	1.90970e-18	1.000000	1.90970e-18	1.000000
rad1	1.03044e-18	1.000000	1.03044e-18	1.000000
rad10	8.95397e-19	1.000000	8.95397e-19	1.000000
rad11	4.95990e-19	1.000000	4.95990e-19	1.000000
rad3	1.08343e-19	1.000000	1.08343e-19	1.000000
rad4	5.48821e-20	1.000000	5.48821e-20	1.000000
rad13	8.70744e-21	1.000000	8.70744e-21	1.000000
rad53	2.01557e-22	1.000000	2.01557e-22	1.000000
rad23	3.52327e-23	1.000000	3.52327e-23	1.000000
rad9	1.88968e-23	1.000000	1.88968e-23	1.000000
rad33	1.63466e-23	1.000000	1.63466e-23	1.000000
rad14	9.98410e-24	1.000000	9.98410e-24	1.000000
rad27	9.08041e-24	1.000000	9.08041e-24	1.000000
rad25	5.86891e-24	1.000000	5.86891e-24	1.000000
rad64	4.24307e-24	1.000000	4.24307e-24	1.000000
rad45	4.15506e-25	1.000000	4.15506e-25	1.000000
rad36	2.54364e-26	1.000000	2.54364e-26	1.000000
rad22	1.72569e-26	1.000000	1.72569e-26	1.000000
rad15	8.43916e-27	1.000000	8.43916e-27	1.000000
rad47	7.88401e-28	1.000000	7.88401e-28	1.000000
rad61	4.05951e-28	1.000000	4.05951e-28	1.000000
rad31	3.15799e-28	1.000000	3.15799e-28	1.000000
rad20	5.31944e-29	1.000000	5.31944e-29	1.000000
rad21	3.90952e-29	1.000000	3.90952e-29	1.000000
rad5	1.42090e-29	1.000000	1.42090e-29	1.000000
rad56	1.29221e-30	1.000000	1.29221e-30	1.000000
rad18	7.18630e-31	1.000000	7.18630e-31	1.000000
rad19anti	2.72636e-31	1.000000	2.72636e-31	1.000000
rad12	9.10228e-32	1.000000	9.10228e-32	1.000000
rad68syn	2.86605e-32	1.000000	2.86605e-32	1.000000
rad68anti	2.37876e-32	1.000000	2.37876e-32	1.000000
rad24	5.10190e-33	1.000000	5.10190e-33	1.000000
rad73	1.47494e-39	1.000000	1.47494e-39	1.000000

rad19syn	1.05530e-40	1.000000	1.05530e-40	1.000000
rad40syn	5.30527e-42	1.000000	5.30527e-42	1.000000
rad40anti	4.30800e-42	1.000000	4.30800e-42	1.000000
PAH8+H	4.19687e-46	1.000000	4.19687e-46	1.000000
rad71	1.32414e-49	1.000000	1.32414e-49	1.000000
rad8	1.63089e-61	1.000000	1.63089e-61	1.000000

0.100000000E-01 Pa, 100.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.28255e-15 (1.00)	1.28255e-15 (1.00)
Formation of rad19	1.28255e-15 (1.000)	1.28255e-15 (1.000)
H-abstraction to cyc2enyl	4.68359e-24 (3.65e-09)	4.68359e-24 (3.65e-09)
H-abstraction to cyclenyl	1.66242e-31 (1.30e-16)	1.66242e-31 (1.30e-16)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999735	0.999735	0.999735	0.999735
PhCHCCH2+H	0.000251964	0.999987	0.000251964	0.999987
PhCCH+CH3	4.40594e-06	0.999991	4.40594e-06	0.999991
C2H2+PhCH2	3.22383e-06	0.999995	3.22383e-06	0.999995
PhCCCH3+H	2.51564e-06	0.999997	2.51564e-06	0.999997
Ph+MeAc	1.92941e-06	0.999999	1.92941e-06	0.999999
rad67	5.79112e-07	1.000000	5.79112e-07	1.000000
rad35	2.54353e-07	1.000000	2.54353e-07	1.000000
Ph+Allene	1.78975e-07	1.000000	1.78975e-07	1.000000
PAH7+H	2.27716e-08	1.000000	2.27716e-08	1.000000
PhCH2CCH+H	2.27554e-08	1.000000	2.27554e-08	1.000000
rad39	6.42565e-09	1.000000	6.42565e-09	1.000000
rad37	6.01309e-09	1.000000	6.01309e-09	1.000000
rad30	4.77486e-09	1.000000	4.77486e-09	1.000000
Benzene+cycloprop-2-enylidene	3.65179e-09	1.000000	3.65179e-09	1.000000
PAH9+H	3.28407e-10	1.000000	3.28407e-10	1.000000
rad38	1.41737e-10	1.000000	1.41737e-10	1.000000
rad60syn	2.23943e-11	1.000000	2.23943e-11	1.000000
rad60anti	1.10095e-11	1.000000	1.10095e-11	1.000000
PAH3+H	9.81214e-12	1.000000	9.81214e-12	1.000000
PAH10+CH3	9.44493e-12	1.000000	9.44493e-12	1.000000
rad46	8.69382e-12	1.000000	8.69382e-12	1.000000
rad59	2.00614e-12	1.000000	2.00614e-12	1.000000
PhcycC3H3_A+H	1.51332e-12	1.000000	1.51332e-12	1.000000
rad43	4.16055e-13	1.000000	4.16055e-13	1.000000
rad54	3.46264e-13	1.000000	3.46264e-13	1.000000
rad62	9.04863e-14	1.000000	9.04863e-14	1.000000
rad50	6.56621e-14	1.000000	6.56621e-14	1.000000
rad6	1.14650e-14	1.000000	1.14650e-14	1.000000
rad70	6.22701e-15	1.000000	6.22701e-15	1.000000
Phenyl+cycC3H4	3.36905e-15	1.000000	0.000000	1.000000
rad55	2.74619e-15	1.000000	2.74619e-15	1.000000
PAH1+H	1.45048e-15	1.000000	1.45048e-15	1.000000
rad52	4.61146e-16	1.000000	4.61146e-16	1.000000
rad58	1.60858e-16	1.000000	1.60858e-16	1.000000
Benzene+cycloprop-1-enylidene	1.29619e-16	1.000000	1.29619e-16	1.000000
rad51	1.27117e-16	1.000000	1.27117e-16	1.000000
rad34	7.71006e-17	1.000000	7.71006e-17	1.000000
PhcycC3H3_B+H	4.09122e-17	1.000000	4.09122e-17	1.000000
rad41	1.13033e-17	1.000000	1.13033e-17	1.000000
rad28	1.02360e-17	1.000000	1.02360e-17	1.000000
rad42	9.84909e-18	1.000000	9.84909e-18	1.000000
rad2	8.47513e-18	1.000000	8.47513e-18	1.000000
rad65	2.66569e-18	1.000000	2.66569e-18	1.000000
rad26	1.42361e-18	1.000000	1.42361e-18	1.000000
rad7	1.02216e-18	1.000000	1.02216e-18	1.000000
rad1	5.44202e-19	1.000000	5.44202e-19	1.000000
rad10	4.69645e-19	1.000000	4.69645e-19	1.000000
rad11	2.61587e-19	1.000000	2.61587e-19	1.000000
rad3	5.68384e-20	1.000000	5.68384e-20	1.000000
rad4	2.88146e-20	1.000000	2.88146e-20	1.000000
rad13	4.65053e-21	1.000000	4.65053e-21	1.000000
rad53	7.20046e-22	1.000000	7.20046e-22	1.000000
rad64	2.35959e-23	1.000000	2.35959e-23	1.000000
rad23	1.45055e-23	1.000000	1.45055e-23	1.000000
rad9	1.25523e-23	1.000000	1.25523e-23	1.000000
rad33	8.74358e-24	1.000000	8.74358e-24	1.000000
rad14	5.28691e-24	1.000000	5.28691e-24	1.000000
rad27	4.79300e-24	1.000000	4.79300e-24	1.000000
rad25	3.13589e-24	1.000000	3.13589e-24	1.000000
rad45	1.68868e-25	1.000000	1.68868e-25	1.000000
rad36	1.03390e-26	1.000000	1.03390e-26	1.000000

rad61	9.04377e-27	1.00000	9.04377e-27	1.00000
rad22	7.03756e-27	1.00000	7.03756e-27	1.00000
rad15	5.59381e-27	1.00000	5.59381e-27	1.00000
rad47	7.28629e-28	1.00000	7.28629e-28	1.00000
rad31	1.69995e-28	1.00000	1.69995e-28	1.00000
rad56	5.01180e-29	1.00000	5.01180e-29	1.00000
rad20	2.96347e-29	1.00000	2.96347e-29	1.00000
rad21	2.18369e-29	1.00000	2.18369e-29	1.00000
rad5	1.00300e-29	1.00000	1.00300e-29	1.00000
rad68syn	1.54856e-30	1.00000	1.54856e-30	1.00000
rad68anti	1.27158e-30	1.00000	1.27158e-30	1.00000
rad19anti	4.43518e-31	1.00000	4.43518e-31	1.00000
rad18	3.71769e-31	1.00000	3.71769e-31	1.00000
rad12	6.08281e-32	1.00000	6.08281e-32	1.00000
rad24	2.11126e-33	1.00000	2.11126e-33	1.00000
rad40syn	1.99212e-36	1.00000	1.99212e-36	1.00000
rad40anti	1.51639e-36	1.00000	1.51639e-36	1.00000
rad73	7.53494e-37	1.00000	7.53494e-37	1.00000
rad19syn	2.08907e-40	1.00000	2.08907e-40	1.00000
PAH8+H	2.23051e-43	1.00000	2.23051e-43	1.00000
rad71	9.08017e-47	1.00000	9.08017e-47	1.00000
rad8	2.13704e-61	1.00000	2.13704e-61	1.00000

0.100000000E-01 Pa, 110.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.95524e-15 (1.00)	1.95524e-15 (1.00)
Formation of rad19	1.95524e-15 (1.000)	1.95524e-15 (1.000)
H-abstraction to cyc2enyl	4.50936e-23 (2.31e-08)	4.50936e-23 (2.31e-08)
H-abstraction to cyc1enyl	7.87782e-30 (4.03e-15)	7.87782e-30 (4.03e-15)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999728	0.999728	0.999728	0.999728
PhCHCCH2+H	0.000258449	0.999986	0.000258449	0.999986
PhCCH+CH3	4.52844e-06	0.999991	4.52844e-06	0.999991
C2H2+PhCH2	3.33254e-06	0.999994	3.33254e-06	0.999994
PhCCCH3+H	2.59282e-06	0.999997	2.59282e-06	0.999997
Ph+MeAc	2.00199e-06	0.999999	2.00199e-06	0.999999
rad67	5.99778e-07	0.999999	5.99778e-07	0.999999
rad35	2.63050e-07	1.000000	2.63050e-07	1.000000
Ph+Allene	1.88209e-07	1.000000	1.88209e-07	1.000000
PhCH2CCH+H	2.41275e-08	1.000000	2.41275e-08	1.000000
PAH7+H	2.37716e-08	1.000000	2.37716e-08	1.000000
Benzene+cycloprop-2-enylidene	2.30629e-08	1.000000	2.30629e-08	1.000000
rad39	6.70827e-09	1.000000	6.70827e-09	1.000000
rad37	6.29127e-09	1.000000	6.29127e-09	1.000000
rad30	4.94268e-09	1.000000	4.94268e-09	1.000000
PAH9+H	3.43590e-10	1.000000	3.43590e-10	1.000000
rad38	1.48960e-10	1.000000	1.48960e-10	1.000000
rad60syn	2.35088e-11	1.000000	2.35088e-11	1.000000
rad60anti	1.15720e-11	1.000000	1.15720e-11	1.000000
PAH3+H	1.04842e-11	1.000000	1.04842e-11	1.000000
PAH10+CH3	1.03754e-11	1.000000	1.03754e-11	1.000000
rad46	9.17152e-12	1.000000	9.17152e-12	1.000000
rad59	2.13776e-12	1.000000	2.13776e-12	1.000000
PhcycC3H3_A+H	1.87132e-12	1.000000	1.87132e-12	1.000000
rad43	4.51903e-13	1.000000	4.51903e-13	1.000000
rad54	3.80297e-13	1.000000	3.80297e-13	1.000000
rad62	9.85514e-14	1.000000	9.85514e-14	1.000000
rad50	7.10429e-14	1.000000	7.10429e-14	1.000000
rad70	7.04191e-15	1.000000	7.04191e-15	1.000000
rad6	6.51697e-15	1.000000	6.51697e-15	1.000000
Phenyl+cycC3H4	5.18630e-15	1.000000	0.000000	1.000000
Benzene+cycloprop-1-enylidene	4.02908e-15	1.000000	4.02908e-15	1.000000
rad55	3.10823e-15	1.000000	3.10823e-15	1.000000
PAH1+H	1.71754e-15	1.000000	1.71754e-15	1.000000
rad52	5.08686e-16	1.000000	5.08686e-16	1.000000
rad58	1.84071e-16	1.000000	1.84071e-16	1.000000
rad51	1.43581e-16	1.000000	1.43581e-16	1.000000
PhcycC3H3_B+H	1.30407e-16	1.000000	1.30407e-16	1.000000
rad34	9.15837e-17	1.000000	9.15837e-17	1.000000
rad41	1.41898e-17	1.000000	1.41898e-17	1.000000
rad42	1.20607e-17	1.000000	1.20607e-17	1.000000
rad28	5.80290e-18	1.000000	5.80290e-18	1.000000
rad2	4.76477e-18	1.000000	4.76477e-18	1.000000
rad65	3.04599e-18	1.000000	3.04599e-18	1.000000
rad26	8.04970e-19	1.000000	8.04970e-19	1.000000
rad7	5.76763e-19	1.000000	5.76763e-19	1.000000

rad1	3.07037e-19	1.00000	3.07037e-19	1.00000
rad10	2.63220e-19	1.00000	2.63220e-19	1.00000
rad11	1.47349e-19	1.00000	1.47349e-19	1.00000
rad3	3.18647e-20	1.00000	3.18647e-20	1.00000
rad4	1.61681e-20	1.00000	1.61681e-20	1.00000
rad13	2.64918e-21	1.00000	2.64918e-21	1.00000
rad53	2.09618e-21	1.00000	2.09618e-21	1.00000
rad64	9.90955e-23	1.00000	9.90955e-23	1.00000
rad9	9.00442e-24	1.00000	9.00442e-24	1.00000
rad23	6.56370e-24	1.00000	6.56370e-24	1.00000
rad33	4.98815e-24	1.00000	4.98815e-24	1.00000
rad14	2.98978e-24	1.00000	2.98978e-24	1.00000
rad27	2.70249e-24	1.00000	2.70249e-24	1.00000
rad25	1.78721e-24	1.00000	1.78721e-24	1.00000
rad61	1.15959e-25	1.00000	1.15959e-25	1.00000
rad45	7.55662e-26	1.00000	7.55662e-26	1.00000
rad36	4.62797e-27	1.00000	4.62797e-27	1.00000
rad15	4.00657e-27	1.00000	4.00657e-27	1.00000
rad22	3.16065e-27	1.00000	3.16065e-27	1.00000
rad56	1.00816e-27	1.00000	1.00816e-27	1.00000
rad47	6.85283e-28	1.00000	6.85283e-28	1.00000
rad31	9.79635e-29	1.00000	9.79635e-29	1.00000
rad68syn	4.04387e-29	1.00000	4.04387e-29	1.00000
rad68anti	3.29421e-29	1.00000	3.29421e-29	1.00000
rad20	1.76784e-29	1.00000	1.76784e-29	1.00000
rad21	1.30605e-29	1.00000	1.30605e-29	1.00000
rad5	7.39565e-30	1.00000	7.39565e-30	1.00000
rad19anti	7.83710e-31	1.00000	7.83710e-31	1.00000
rad18	2.08130e-31	1.00000	2.08130e-31	1.00000
rad12	4.39175e-32	1.00000	4.39175e-32	1.00000
rad24	9.60876e-34	1.00000	9.60876e-34	1.00000
rad40syn	3.23211e-34	1.00000	3.23211e-34	1.00000
rad40anti	2.54385e-34	1.00000	2.54385e-34	1.00000
rad73	5.48229e-35	1.00000	5.48229e-35	1.00000
rad19syn	4.31564e-40	1.00000	4.31564e-40	1.00000
PAH8+H	1.08818e-40	1.00000	1.08818e-40	1.00000
rad71	5.50695e-44	1.00000	5.50695e-44	1.00000
rad8	2.89589e-61	1.00000	2.89589e-61	1.00000

0.100000000E-01 Pa, 120.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.79817e-15 (1.00)	2.79817e-15 (1.00)
Formation of rad19	2.79817e-15 (1.000)	2.79817e-15 (1.000)
H-abstraction to cyc2enyl	2.96039e-22 (1.06e-07)	2.96039e-22 (1.06e-07)
H-abstraction to cyc1enyl	1.95323e-28 (6.98e-14)	1.95323e-28 (6.98e-14)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999721	0.999721	0.999721	0.999721
PhCHCCH2+H	0.000265398	0.999986	0.000265398	0.999986
PhCCH+CH3	4.65964e-06	0.999991	4.65964e-06	0.999991
C2H2+PhCH2	3.45000e-06	0.999994	3.45000e-06	0.999994
PhCCCH3+H	2.67588e-06	0.999997	2.67588e-06	0.999997
Ph+MeAc	2.08071e-06	0.999999	2.08071e-06	0.999999
rad67	6.22166e-07	1.000000	6.22166e-07	1.000000
rad35	2.72456e-07	1.00000	2.72456e-07	1.00000
Ph+Allene	1.98385e-07	1.00000	1.98385e-07	1.00000
Benzene+cycloprop-2-enylidene	1.05797e-07	1.00000	1.05797e-07	1.00000
PhCH2CCH+H	2.56542e-08	1.00000	2.56542e-08	1.00000
PAH7+H	2.48639e-08	1.00000	2.48639e-08	1.00000
rad39	7.01686e-09	1.00000	7.01686e-09	1.00000
rad37	6.59633e-09	1.00000	6.59633e-09	1.00000
rad30	5.12460e-09	1.00000	5.12460e-09	1.00000
PAH9+H	3.60255e-10	1.00000	3.60255e-10	1.00000
rad38	1.56940e-10	1.00000	1.56940e-10	1.00000
rad60syn	2.47374e-11	1.00000	2.47374e-11	1.00000
rad60anti	1.21929e-11	1.00000	1.21929e-11	1.00000
PAH10+CH3	1.14539e-11	1.00000	1.14539e-11	1.00000
PAH3+H	1.12407e-11	1.00000	1.12407e-11	1.00000
rad46	9.70104e-12	1.00000	9.70104e-12	1.00000
PhcycC3H3_A+H	2.33040e-12	1.00000	2.33040e-12	1.00000
rad59	2.28542e-12	1.00000	2.28542e-12	1.00000
rad43	4.92852e-13	1.00000	4.92852e-13	1.00000
rad54	4.19671e-13	1.00000	4.19671e-13	1.00000
rad62	1.07773e-13	1.00000	1.07773e-13	1.00000
rad50	7.71883e-14	1.00000	7.71883e-14	1.00000
Benzene+cycloprop-1-enylidene	6.98038e-14	1.00000	6.98038e-14	1.00000
rad70	8.01455e-15	1.00000	8.01455e-15	1.00000

Phenyl+cycC3H4	7.86468e-15	1.00000	0.00000	1.00000
rad6	3.90046e-15	1.00000	3.90046e-15	1.00000
rad55	3.54040e-15	1.00000	3.54040e-15	1.00000
PAH1+H	2.05120e-15	1.00000	2.05120e-15	1.00000
rad52	5.64194e-16	1.00000	5.64194e-16	1.00000
PhcycC3H3_B+H	3.56808e-16	1.00000	3.56808e-16	1.00000
rad58	2.12192e-16	1.00000	2.12192e-16	1.00000
rad51	1.63316e-16	1.00000	1.63316e-16	1.00000
rad34	1.09729e-16	1.00000	1.09729e-16	1.00000
rad41	1.79463e-17	1.00000	1.79463e-17	1.00000
rad42	1.48816e-17	1.00000	1.48816e-17	1.00000
rad65	3.50712e-18	1.00000	3.50712e-18	1.00000
rad28	3.46545e-18	1.00000	3.46545e-18	1.00000
rad2	2.82407e-18	1.00000	2.82407e-18	1.00000
rad26	4.79560e-19	1.00000	4.79560e-19	1.00000
rad7	3.43000e-19	1.00000	3.43000e-19	1.00000
rad1	1.82684e-19	1.00000	1.82684e-19	1.00000
rad10	1.55594e-19	1.00000	1.55594e-19	1.00000
rad11	8.75040e-20	1.00000	8.75040e-20	1.00000
rad3	1.88419e-20	1.00000	1.88419e-20	1.00000
rad4	9.56964e-21	1.00000	9.56964e-21	1.00000
rad53	5.27722e-21	1.00000	5.27722e-21	1.00000
rad13	1.58930e-21	1.00000	1.58930e-21	1.00000
rad64	3.39067e-22	1.00000	3.39067e-22	1.00000
rad9	6.88107e-24	1.00000	6.88107e-24	1.00000
rad23	3.20597e-24	1.00000	3.20597e-24	1.00000
rad33	2.99693e-24	1.00000	2.99693e-24	1.00000
rad14	1.78235e-24	1.00000	1.78235e-24	1.00000
rad27	1.60672e-24	1.00000	1.60672e-24	1.00000
rad25	1.07273e-24	1.00000	1.07273e-24	1.00000
rad61	9.89040e-25	1.00000	9.89040e-25	1.00000
rad45	3.65537e-26	1.00000	3.65537e-26	1.00000
rad56	1.24481e-26	1.00000	1.24481e-26	1.00000
rad15	3.05850e-27	1.00000	3.05850e-27	1.00000
rad36	2.23980e-27	1.00000	2.23980e-27	1.00000
rad22	1.53472e-27	1.00000	1.53472e-27	1.00000
rad47	6.54537e-28	1.00000	6.54537e-28	1.00000
rad68syn	6.16132e-28	1.00000	6.16132e-28	1.00000
rad68anti	4.98732e-28	1.00000	4.98732e-28	1.00000
rad31	5.96657e-29	1.00000	5.96657e-29	1.00000
rad20	1.11439e-29	1.00000	1.11439e-29	1.00000
rad21	8.25443e-30	1.00000	8.25443e-30	1.00000
rad5	5.64008e-30	1.00000	5.64008e-30	1.00000
rad19anti	1.48424e-30	1.00000	1.48424e-30	1.00000
rad18	1.24132e-31	1.00000	1.24132e-31	1.00000
rad12	3.37924e-32	1.00000	3.37924e-32	1.00000
rad40syn	1.64565e-32	1.00000	1.64565e-32	1.00000
rad40anti	1.29409e-32	1.00000	1.29409e-32	1.00000
rad73	1.92205e-33	1.00000	1.92205e-33	1.00000
rad24	4.72339e-34	1.00000	4.72339e-34	1.00000
PAH8+H	4.13551e-35	1.00000	4.13551e-35	1.00000
rad71	1.32198e-38	1.00000	1.32198e-38	1.00000
rad19syn	9.31466e-40	1.00000	9.31466e-40	1.00000
rad8	4.04198e-61	1.00000	4.04198e-61	1.00000

0.100000000E-01 Pa, 130.000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	3.81236e-15 (1.00)	3.81236e-15 (1.00)		
Formation of rad19	3.81236e-15 (1.000)	3.81236e-15 (1.000)		
H-abstraction to cyc2enyl	1.44825e-21 (3.80e-07)	1.44825e-21 (3.80e-07)		
H-abstraction to cyclenyl	2.94348e-27 (7.72e-13)	2.94348e-27 (7.72e-13)		

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999713	0.999713	0.999713	0.999713
PhCHCCH2+H	0.000272863	0.999985	0.000272863	0.999985
PhCCH+CH3	4.80045e-06	0.999990	4.80045e-06	0.999990
C2H2+PhCH2	3.57726e-06	0.999994	3.57726e-06	0.999994
PhCCCH3+H	2.76549e-06	0.999997	2.76549e-06	0.999997
Ph+MeAc	2.16633e-06	0.999999	2.16633e-06	0.999999
rad67	6.46482e-07	0.999999	6.46482e-07	0.999999
Benzene+cycloprop-2-enylidene	3.79882e-07	1.000000	3.79882e-07	1.000000
rad35	2.82655e-07	1.000000	2.82655e-07	1.000000
Ph+Allene	2.09643e-07	1.000000	2.09643e-07	1.000000
PhCH2CCH+H	2.73605e-08	1.000000	2.73605e-08	1.000000
PAH7+H	2.60611e-08	1.000000	2.60611e-08	1.000000
rad39	7.35495e-09	1.000000	7.35495e-09	1.000000
rad37	6.93193e-09	1.000000	6.93193e-09	1.000000

rad30	5.32235e-09	1.00000	5.32235e-09	1.00000
PAH9+H	3.78613e-10	1.00000	3.78613e-10	1.00000
rad38	1.65793e-10	1.00000	1.65793e-10	1.00000
rad60syn	2.60967e-11	1.00000	2.60967e-11	1.00000
rad60anti	1.28809e-11	1.00000	1.28809e-11	1.00000
PAH10+CH3	1.27119e-11	1.00000	1.27119e-11	1.00000
PAH3+H	1.20963e-11	1.00000	1.20963e-11	1.00000
rad46	1.02905e-11	1.00000	1.02905e-11	1.00000
PhcycC3H3_A+H	2.92345e-12	1.00000	2.92345e-12	1.00000
rad59	2.45181e-12	1.00000	2.45181e-12	1.00000
Benzene+cycloprop-1-enylidene	7.72089e-13	1.00000	7.72089e-13	1.00000
rad43	5.39874e-13	1.00000	5.39874e-13	1.00000
rad54	4.65528e-13	1.00000	4.65528e-13	1.00000
rad62	1.18372e-13	1.00000	1.18372e-13	1.00000
rad50	8.42501e-14	1.00000	8.42501e-14	1.00000
Phenyl+cycC3H4	1.18041e-14	1.00000	0.00000	1.00000
rad70	9.18490e-15	1.00000	9.18490e-15	1.00000
rad55	4.06048e-15	1.00000	4.06048e-15	1.00000
PAH1+H	2.47207e-15	1.00000	2.47207e-15	1.00000
rad6	2.43517e-15	1.00000	2.43517e-15	1.00000
PhcycC3H3_B+H	8.71414e-16	1.00000	8.71414e-16	1.00000
rad52	6.29493e-16	1.00000	6.29493e-16	1.00000
rad58	2.46554e-16	1.00000	2.46554e-16	1.00000
rad51	1.87188e-16	1.00000	1.87188e-16	1.00000
rad34	1.32686e-16	1.00000	1.32686e-16	1.00000
rad41	2.28796e-17	1.00000	2.28796e-17	1.00000
rad42	1.85076e-17	1.00000	1.85076e-17	1.00000
rad65	4.07159e-18	1.00000	4.07159e-18	1.00000
rad28	2.15960e-18	1.00000	2.15960e-18	1.00000
rad2	1.74781e-18	1.00000	1.74781e-18	1.00000
rad26	2.98182e-19	1.00000	2.98182e-19	1.00000
rad7	2.12949e-19	1.00000	2.12949e-19	1.00000
rad1	1.13541e-19	1.00000	1.13541e-19	1.00000
rad10	9.60756e-20	1.00000	9.60756e-20	1.00000
rad11	5.42620e-20	1.00000	5.42620e-20	1.00000
rad53	1.19675e-20	1.00000	1.19675e-20	1.00000
rad3	1.16385e-20	1.00000	1.16385e-20	1.00000
rad4	5.91748e-21	1.00000	5.91748e-21	1.00000
rad64	9.96155e-22	1.00000	9.96155e-22	1.00000
rad13	9.94757e-22	1.00000	9.94757e-22	1.00000
rad61	6.20022e-24	1.00000	6.20022e-24	1.00000
rad9	5.54716e-24	1.00000	5.54716e-24	1.00000
rad33	1.87863e-24	1.00000	1.87863e-24	1.00000
rad23	1.66791e-24	1.00000	1.66791e-24	1.00000
rad14	1.10947e-24	1.00000	1.10947e-24	1.00000
rad27	9.97652e-25	1.00000	9.97652e-25	1.00000
rad25	6.71789e-25	1.00000	6.71789e-25	1.00000
rad56	1.06083e-25	1.00000	1.06083e-25	1.00000
rad45	1.88563e-26	1.00000	1.88563e-26	1.00000
rad68syn	6.23461e-27	1.00000	6.23461e-27	1.00000
rad68anti	5.01915e-27	1.00000	5.01915e-27	1.00000
rad15	2.46390e-27	1.00000	2.46390e-27	1.00000
rad36	1.15622e-27	1.00000	1.15622e-27	1.00000
rad22	7.94806e-28	1.00000	7.94806e-28	1.00000
rad47	6.34015e-28	1.00000	6.34015e-28	1.00000
rad31	3.80487e-29	1.00000	3.80487e-29	1.00000
rad20	7.35108e-30	1.00000	7.35108e-30	1.00000
rad21	5.45952e-30	1.00000	5.45952e-30	1.00000
rad5	4.41820e-30	1.00000	4.41820e-30	1.00000
rad19anti	2.99293e-30	1.00000	2.99293e-30	1.00000
rad40syn	4.43563e-31	1.00000	4.43563e-31	1.00000
rad40anti	3.49231e-31	1.00000	3.49231e-31	1.00000
rad18	7.79715e-32	1.00000	7.79715e-32	1.00000
rad73	3.97093e-32	1.00000	3.97093e-32	1.00000
rad12	2.74409e-32	1.00000	2.74409e-32	1.00000
PAH8+H	2.25784e-33	1.00000	2.25784e-33	1.00000
rad24	2.47457e-34	1.00000	2.47457e-34	1.00000
rad71	1.12225e-36	1.00000	1.12225e-36	1.00000
rad19syn	2.10397e-39	1.00000	2.10397e-39	1.00000
rad8	5.79471e-61	1.00000	5.79471e-61	1.00000

0.100000000E-01 Pa, 140.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.99515e-15 (1.00)	4.99515e-15 (1.00)
Formation of rad19	4.99514e-15 (1.000)	4.99514e-15 (1.000)
H-abstraction to cyc2enyl	5.62488e-21 (1.13e-06)	5.62488e-21 (1.13e-06)
H-abstraction to cyclenyl	3.00047e-26 (6.01e-12)	3.00047e-26 (6.01e-12)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999703	0.999703	0.999703	0.999703
PhCHCCH2+H	0.000280900	0.999984	0.000280900	0.999984
PhCCH+CH3	4.95191e-06	0.999989	4.95191e-06	0.999989
C2H2+PhCH2	3.71554e-06	0.999992	3.71554e-06	0.999992
PhCCCH3+H	2.86241e-06	0.999995	2.86241e-06	0.999995
Ph+MeAc	2.25972e-06	0.999998	2.25972e-06	0.999998
Benzene+cycloprop-2-enylidene	1.12607e-06	0.999999	1.12607e-06	0.999999
rad67	6.72971e-07	0.999999	6.72971e-07	0.999999
rad35	2.93748e-07	1.000000	2.93748e-07	1.000000
Ph+Allene	2.22153e-07	1.000000	2.22153e-07	1.000000
PhCH2CCH+H	2.92766e-08	1.000000	2.92766e-08	1.000000
PAH7+H	2.73782e-08	1.000000	2.73782e-08	1.000000
rad39	7.72674e-09	1.000000	7.72674e-09	1.000000
rad37	7.30249e-09	1.000000	7.30249e-09	1.000000
rad30	5.53796e-09	1.000000	5.53796e-09	1.000000
PAH9+H	3.98920e-10	1.000000	3.98920e-10	1.000000
rad38	1.75657e-10	1.000000	1.75657e-10	1.000000
rad60syn	2.76068e-11	1.000000	2.76068e-11	1.000000
PAH10+CH3	1.41890e-11	1.000000	1.41890e-11	1.000000
rad60anti	1.36466e-11	1.000000	1.36466e-11	1.000000
PAH3+H	1.30693e-11	1.000000	1.30693e-11	1.000000
rad46	1.09499e-11	1.000000	1.09499e-11	1.000000
Benzene+cycloprop-1-enylidene	6.00677e-12	1.000000	6.00677e-12	1.000000
PhcycC3H3_A+H	3.69526e-12	1.000000	3.69526e-12	1.000000
rad59	2.64028e-12	1.000000	2.64028e-12	1.000000
rad43	5.94176e-13	1.000000	5.94176e-13	1.000000
rad54	5.19312e-13	1.000000	5.19312e-13	1.000000
rad62	1.30622e-13	1.000000	1.30622e-13	1.000000
rad50	9.24188e-14	1.000000	9.24188e-14	1.000000
Phenyl+cycC3H4	1.75978e-14	1.000000	0.000000	1.000000
rad70	1.06051e-14	1.000000	1.06051e-14	1.000000
rad55	4.69162e-15	1.000000	4.69162e-15	1.000000
PAH1+H	3.00818e-15	1.000000	3.00818e-15	1.000000
PhcycC3H3_B+H	1.95210e-15	1.000000	1.95210e-15	1.000000
rad6	1.57472e-15	1.000000	1.57472e-15	1.000000
rad52	7.06924e-16	1.000000	7.06924e-16	1.000000
rad58	2.88923e-16	1.000000	2.88923e-16	1.000000
rad51	2.16340e-16	1.000000	2.16340e-16	1.000000
rad34	1.62021e-16	1.000000	1.62021e-16	1.000000
rad41	2.94153e-17	1.000000	2.94153e-17	1.000000
rad42	2.32044e-17	1.000000	2.32044e-17	1.000000
rad65	4.76945e-18	1.000000	4.76945e-18	1.000000
rad28	1.39436e-18	1.000000	1.39436e-18	1.000000
rad2	1.12139e-18	1.000000	1.12139e-18	1.000000
rad26	1.92127e-19	1.000000	1.92127e-19	1.000000
rad7	1.37026e-19	1.000000	1.37026e-19	1.000000
rad1	7.31828e-20	1.000000	7.31828e-20	1.000000
rad10	6.15186e-20	1.000000	6.15186e-20	1.000000
rad11	3.48816e-20	1.000000	3.48816e-20	1.000000
rad53	2.51502e-20	1.000000	2.51502e-20	1.000000
rad3	7.45514e-21	1.000000	7.45514e-21	1.000000
rad4	3.79498e-21	1.000000	3.79498e-21	1.000000
rad64	2.60783e-21	1.000000	2.60783e-21	1.000000
rad13	6.45003e-22	1.000000	6.45003e-22	1.000000
rad61	3.06631e-23	1.000000	3.06631e-23	1.000000
rad9	4.68376e-24	1.000000	4.68376e-24	1.000000
rad33	1.21998e-24	1.000000	1.21998e-24	1.000000
rad23	9.14935e-25	1.000000	9.14935e-25	1.000000
rad14	7.15907e-25	1.000000	7.15907e-25	1.000000
rad56	6.78571e-25	1.000000	6.78571e-25	1.000000
rad27	6.42288e-25	1.000000	6.42288e-25	1.000000
rad25	4.35834e-25	1.000000	4.35834e-25	1.000000
rad68syn	4.59528e-26	1.000000	4.59528e-26	1.000000
rad68anti	3.68061e-26	1.000000	3.68061e-26	1.000000
rad45	1.02667e-26	1.000000	1.02667e-26	1.000000
rad15	2.07963e-27	1.000000	2.07963e-27	1.000000
rad36	6.30111e-28	1.000000	6.30111e-28	1.000000
rad47	6.22265e-28	1.000000	6.22265e-28	1.000000
rad22	4.34498e-28	1.000000	4.34498e-28	1.000000
rad31	2.52263e-29	1.000000	2.52263e-29	1.000000
rad40syn	7.53576e-30	1.000000	7.53576e-30	1.000000
rad19anti	6.40255e-30	1.000000	6.40255e-30	1.000000
rad40anti	5.95136e-30	1.000000	5.95136e-30	1.000000
rad20	5.03726e-30	1.000000	5.03726e-30	1.000000
rad21	3.75129e-30	1.000000	3.75129e-30	1.000000
rad5	3.53748e-30	1.000000	3.53748e-30	1.000000
rad73	5.47338e-31	1.000000	5.47338e-31	1.000000
PAH8+H	6.68040e-32	1.000000	6.68040e-32	1.000000

rad18	5.11368e-32	1.000000	5.11368e-32	1.000000
rad12	2.33495e-32	1.000000	2.33495e-32	1.000000
rad24	1.36777e-34	1.000000	1.36777e-34	1.000000
rad71	4.16759e-35	1.000000	4.16759e-35	1.000000
rad19syn	4.98180e-39	1.000000	4.98180e-39	1.000000
rad8	8.51577e-61	1.000000	8.51577e-61	1.000000

0.100000000E-01 Pa, 150.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	6.34137e-15	(1.00)	6.34137e-15	(1.00)
Formation of rad19	6.34135e-15	(1.000)	6.34135e-15	(1.000)
H-abstraction to cyc2enyl	1.81685e-20	(2.87e-06)	1.81685e-20	(2.87e-06)
H-abstraction to cyclenyl	2.23765e-25	(3.53e-11)	2.23765e-25	(3.53e-11)

species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.999692	0.999692	0.999692	0.999692
PhCHCCH2+H	0.000289576	0.999982	0.000289576	0.999982
PhCCH+CH3	5.11527e-06	0.999987	5.11527e-06	0.999987
C2H2+PhCH2	3.86625e-06	0.999991	3.86625e-06	0.999991
PhCCCH3+H	2.96752e-06	0.999994	2.96752e-06	0.999994
Benzene+cycloprop-2-enylidene	2.86508e-06	0.999997	2.86508e-06	0.999997
Ph+MeAc	2.36192e-06	0.999999	2.36192e-06	0.999999
rad67	7.01918e-07	1.000000	7.01918e-07	1.000000
rad35	3.05847e-07	1.000000	3.05847e-07	1.000000
Ph+Allene	2.36113e-07	1.000000	2.36113e-07	1.000000
PhCH2CCH+H	3.14389e-08	1.000000	3.14389e-08	1.000000
PAH7+H	2.88329e-08	1.000000	2.88329e-08	1.000000
rad39	8.13716e-09	1.000000	8.13716e-09	1.000000
rad37	7.71323e-09	1.000000	7.71323e-09	1.000000
rad30	5.77382e-09	1.000000	5.77382e-09	1.000000
PAH9+H	4.21477e-10	1.000000	4.21477e-10	1.000000
rad38	1.86700e-10	1.000000	1.86700e-10	1.000000
Benzene+cycloprop-1-enylidene	3.52865e-11	1.000000	3.52865e-11	1.000000
rad60syn	2.92915e-11	1.000000	2.92915e-11	1.000000
PAH10+CH3	1.59354e-11	1.000000	1.59354e-11	1.000000
rad60anti	1.45022e-11	1.000000	1.45022e-11	1.000000
PAH3+H	1.41817e-11	1.000000	1.41817e-11	1.000000
rad46	1.16909e-11	1.000000	1.16909e-11	1.000000
PhcycC3H3_A+H	4.70677e-12	1.000000	4.70677e-12	1.000000
rad59	2.85489e-12	1.000000	2.85489e-12	1.000000
rad43	6.57254e-13	1.000000	6.57254e-13	1.000000
rad54	5.82844e-13	1.000000	5.82844e-13	1.000000
rad62	1.44861e-13	1.000000	1.44861e-13	1.000000
rad50	1.01933e-13	1.000000	1.01933e-13	1.000000
Phenyl+cycC3H4	2.61242e-14	1.000000	0.000000	1.000000
rad70	1.23431e-14	1.000000	1.23431e-14	1.000000
rad55	5.46397e-15	1.000000	5.46397e-15	1.000000
PhcycC3H3_B+H	4.08979e-15	1.000000	4.08979e-15	1.000000
PAH1+H	3.69764e-15	1.000000	3.69764e-15	1.000000
rad6	1.04894e-15	1.000000	1.04894e-15	1.000000
rad52	7.99496e-16	1.000000	7.99496e-16	1.000000
rad58	3.41640e-16	1.000000	3.41640e-16	1.000000
rad51	2.52284e-16	1.000000	2.52284e-16	1.000000
rad34	1.99870e-16	1.000000	1.99870e-16	1.000000
rad41	3.81449e-17	1.000000	3.81449e-17	1.000000
rad42	2.93333e-17	1.000000	2.93333e-17	1.000000
rad65	5.64092e-18	1.000000	5.64092e-18	1.000000
rad28	9.27579e-19	1.000000	9.27579e-19	1.000000
rad2	7.41680e-19	1.000000	7.41680e-19	1.000000
rad26	1.27572e-19	1.000000	1.27572e-19	1.000000
rad7	9.08747e-20	1.000000	9.08747e-20	1.000000
rad53	4.99621e-20	1.000000	4.99621e-20	1.000000
rad1	4.86459e-20	1.000000	4.86459e-20	1.000000
rad10	4.06175e-20	1.000000	4.06175e-20	1.000000
rad11	2.31142e-20	1.000000	2.31142e-20	1.000000
rad64	6.24770e-21	1.000000	6.24770e-21	1.000000
rad3	4.92419e-21	1.000000	4.92419e-21	1.000000
rad4	2.50989e-21	1.000000	2.50989e-21	1.000000
rad13	4.30870e-22	1.000000	4.30870e-22	1.000000
rad61	1.25940e-22	1.000000	1.25940e-22	1.000000
rad9	4.12083e-24	1.000000	4.12083e-24	1.000000
rad56	3.46443e-24	1.000000	3.46443e-24	1.000000
rad33	8.16248e-25	1.000000	8.16248e-25	1.000000
rad23	5.25061e-25	1.000000	5.25061e-25	1.000000
rad14	4.76194e-25	1.000000	4.76194e-25	1.000000
rad27	4.26332e-25	1.000000	4.26332e-25	1.000000
rad25	2.91311e-25	1.000000	2.91311e-25	1.000000

rad68syn	2.63935e-25	1.00000	2.63935e-25	1.00000
rad68anti	2.10321e-25	1.00000	2.10321e-25	1.00000
rad45	5.85306e-27	1.00000	5.85306e-27	1.00000
rad15	1.82947e-27	1.00000	1.82947e-27	1.00000
rad47	6.18478e-28	1.00000	6.18478e-28	1.00000
rad36	3.59653e-28	1.00000	3.59653e-28	1.00000
rad22	2.48729e-28	1.00000	2.48729e-28	1.00000
rad40syn	8.87918e-29	1.00000	8.87918e-29	1.00000
rad40anti	7.03940e-29	1.00000	7.03940e-29	1.00000
rad31	1.72956e-29	1.00000	1.72956e-29	1.00000
rad19anti	1.44961e-29	1.00000	1.44961e-29	1.00000
rad73	5.47311e-30	1.00000	5.47311e-30	1.00000
rad20	3.56536e-30	1.00000	3.56536e-30	1.00000
rad5	2.88402e-30	1.00000	2.88402e-30	1.00000
rad21	2.66262e-30	1.00000	2.66262e-30	1.00000
PAH8+H	1.26368e-30	1.00000	1.26368e-30	1.00000
rad18	3.47843e-32	1.00000	3.47843e-32	1.00000
rad12	2.07117e-32	1.00000	2.07117e-32	1.00000
rad71	9.41467e-34	1.00000	9.41467e-34	1.00000
rad24	7.91398e-35	1.00000	7.91398e-35	1.00000
rad19syn	1.23836e-38	1.00000	1.23836e-38	1.00000
rad8	1.28101e-60	1.00000	1.28101e-60	1.00000

0.100000000E-01 Pa, 160.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.84423e-15 (1.00)	7.84423e-15 (1.00)
Formation of rad19	7.84418e-15 (1.000)	7.84418e-15 (1.000)
H-abstraction to cyc2enyl	5.05321e-20 (6.44e-06)	5.05321e-20 (6.44e-06)
H-abstraction to cyc1enyl	1.29479e-24 (1.65e-10)	1.29479e-24 (1.65e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999679	0.999679	0.999679	0.999679
PhCHCCH2+H	0.000298966	0.999978	0.000298966	0.999978
Benzene+cycloprop-2-enylidene	6.44194e-06	0.999984	6.44194e-06	0.999984
PhCCH+CH3	5.29185e-06	0.999989	5.29185e-06	0.999989
C2H2+PhCH2	4.03100e-06	0.999993	4.03100e-06	0.999993
PhCCCH3+H	3.08182e-06	0.999996	3.08182e-06	0.999996
Ph+MeAc	2.47410e-06	0.999999	2.47410e-06	0.999999
rad67	7.33648e-07	1.000000	7.33648e-07	1.000000
rad35	3.19086e-07	1.000000	3.19086e-07	1.000000
Ph+Allene	2.51760e-07	1.000000	2.51760e-07	1.000000
PhCH2CCH+H	3.38911e-08	1.000000	3.38911e-08	1.000000
PAH7+H	3.04455e-08	1.000000	3.04455e-08	1.000000
rad39	8.59185e-09	1.000000	8.59185e-09	1.000000
rad37	8.17020e-09	1.000000	8.17020e-09	1.000000
rad30	6.03268e-09	1.000000	6.03268e-09	1.000000
PAH9+H	4.46634e-10	1.000000	4.46634e-10	1.000000
rad38	1.99121e-10	1.000000	1.99121e-10	1.000000
Benzene+cycloprop-1-enylidene	1.65062e-10	1.000000	1.65062e-10	1.000000
rad60syn	3.11789e-11	1.000000	3.11789e-11	1.000000
PAH10+CH3	1.80140e-11	1.000000	1.80140e-11	1.000000
rad60anti	1.54624e-11	1.000000	1.54624e-11	1.000000
PAH3+H	1.54605e-11	1.000000	1.54605e-11	1.000000
rad46	1.25276e-11	1.000000	1.25276e-11	1.000000
PhcycC3H3_A+H	6.04075e-12	1.000000	6.04075e-12	1.000000
rad59	3.10053e-12	1.000000	3.10053e-12	1.000000
rad43	7.30941e-13	1.000000	7.30941e-13	1.000000
rad54	6.58409e-13	1.000000	6.58409e-13	1.000000
rad62	1.61502e-13	1.000000	1.61502e-13	1.000000
rad50	1.13086e-13	1.000000	1.13086e-13	1.000000
Phenyl+cycC3H4	3.86829e-14	1.000000	0.000000	1.000000
rad70	1.44875e-14	1.000000	1.44875e-14	1.000000
PhcycC3H3_B+H	8.12739e-15	1.000000	8.12739e-15	1.000000
rad55	6.41674e-15	1.000000	6.41674e-15	1.000000
PAH1+H	4.59237e-15	1.000000	4.59237e-15	1.000000
rad52	9.11059e-16	1.000000	9.11059e-16	1.000000
rad6	7.16604e-16	1.000000	7.16604e-16	1.000000
rad58	4.07816e-16	1.000000	4.07816e-16	1.000000
rad51	2.97029e-16	1.000000	2.97029e-16	1.000000
rad34	2.49156e-16	1.000000	2.49156e-16	1.000000
rad41	4.98898e-17	1.000000	4.98898e-17	1.000000
rad42	3.73844e-17	1.000000	3.73844e-17	1.000000
rad65	6.73990e-18	1.000000	6.73990e-18	1.000000
rad28	6.32991e-19	1.000000	6.32991e-19	1.000000
rad2	5.03442e-19	1.000000	5.03442e-19	1.000000
rad53	9.51402e-20	1.000000	9.51402e-20	1.000000
rad26	8.69122e-20	1.000000	8.69122e-20	1.000000

rad7	6.18406e-20	1.00000	6.18406e-20	1.00000
rad1	3.32009e-20	1.00000	3.32009e-20	1.00000
rad10	2.75292e-20	1.00000	2.75292e-20	1.00000
rad11	1.57186e-20	1.00000	1.57186e-20	1.00000
rad64	1.39664e-20	1.00000	1.39664e-20	1.00000
rad3	3.33881e-21	1.00000	3.33881e-21	1.00000
rad4	1.70427e-21	1.00000	1.70427e-21	1.00000
rad61	4.46255e-22	1.00000	4.46255e-22	1.00000
rad13	2.95244e-22	1.00000	2.95244e-22	1.00000
rad56	1.47801e-23	1.00000	1.47801e-23	1.00000
rad9	3.76454e-24	1.00000	3.76454e-24	1.00000
rad68syn	1.24235e-24	1.00000	1.24235e-24	1.00000
rad68anti	9.84690e-25	1.00000	9.84690e-25	1.00000
rad33	5.60229e-25	1.00000	5.60229e-25	1.00000
rad14	3.25065e-25	1.00000	3.25065e-25	1.00000
rad23	3.13297e-25	1.00000	3.13297e-25	1.00000
rad27	2.90473e-25	1.00000	2.90473e-25	1.00000
rad25	1.99736e-25	1.00000	1.99736e-25	1.00000
rad45	3.47215e-27	1.00000	3.47215e-27	1.00000
rad15	1.67149e-27	1.00000	1.67149e-27	1.00000
rad40syn	7.79728e-28	1.00000	7.79728e-28	1.00000
rad47	6.22336e-28	1.00000	6.22336e-28	1.00000
rad40anti	6.20571e-28	1.00000	6.20571e-28	1.00000
rad36	2.13664e-28	1.00000	2.13664e-28	1.00000
rad22	1.48164e-28	1.00000	1.48164e-28	1.00000
rad73	4.22776e-29	1.00000	4.22776e-29	1.00000
rad19anti	3.46726e-29	1.00000	3.46726e-29	1.00000
PAH8+H	1.68119e-29	1.00000	1.68119e-29	1.00000
rad31	1.22121e-29	1.00000	1.22121e-29	1.00000
rad20	2.59503e-30	1.00000	2.59503e-30	1.00000
rad5	2.38725e-30	1.00000	2.38725e-30	1.00000
rad21	1.94363e-30	1.00000	1.94363e-30	1.00000
rad18	2.44125e-32	1.00000	2.44125e-32	1.00000
rad12	1.90855e-32	1.00000	1.90855e-32	1.00000
rad71	1.46085e-32	1.00000	1.46085e-32	1.00000
rad24	4.76418e-35	1.00000	4.76418e-35	1.00000
rad19syn	3.23538e-38	1.00000	3.23538e-38	1.00000
rad8	1.97048e-60	1.00000	1.97048e-60	1.00000

0.100000000E-01 Pa, 170.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	9.49598e-15 (1.00)	9.49598e-15 (1.00)
Formation of rad19	9.49586e-15 (1.000)	9.49586e-15 (1.000)
H-abstraction to cyc2enyl	1.24279e-19 (1.31e-05)	1.24279e-19 (1.31e-05)
H-abstraction to cyc1enyl	6.08025e-24 (6.40e-10)	6.08025e-24 (6.40e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999661	0.999661	0.999661	0.999661
PhCHCCH2+H	0.000309152	0.999970	0.000309152	0.999970
Benzene+cycloprop-2-enylidene	1.30875e-05	0.999983	1.30875e-05	0.999983
PhCCH+CH3	5.48313e-06	0.999989	5.48313e-06	0.999989
C2H2+PhCH2	4.21161e-06	0.999993	4.21161e-06	0.999993
PhCCCH3+H	3.20644e-06	0.999996	3.20644e-06	0.999996
Ph+MeAc	2.59759e-06	0.999999	2.59759e-06	0.999999
rad67	7.68529e-07	0.999999	7.68529e-07	0.999999
rad35	3.33611e-07	1.000000	3.33611e-07	1.000000
Ph+Allene	2.69366e-07	1.000000	2.69366e-07	1.000000
PhCH2CCH+H	3.66842e-08	1.000000	3.66842e-08	1.000000
PAH7+H	3.22393e-08	1.000000	3.22393e-08	1.000000
rad39	9.09732e-09	1.000000	9.09732e-09	1.000000
rad37	8.68039e-09	1.000000	8.68039e-09	1.000000
rad30	6.31760e-09	1.000000	6.31760e-09	1.000000
Benzene+cycloprop-1-enylidene	6.40297e-10	1.000000	6.40297e-10	1.000000
PAH9+H	4.74804e-10	1.000000	4.74804e-10	1.000000
rad38	2.13149e-10	1.000000	2.13149e-10	1.000000
rad60syn	3.33017e-11	1.000000	3.33017e-11	1.000000
PAH10+CH3	2.05041e-11	1.000000	2.05041e-11	1.000000
PAH3+H	1.69384e-11	1.000000	1.69384e-11	1.000000
rad60anti	1.65445e-11	1.000000	1.65445e-11	1.000000
rad46	1.34769e-11	1.000000	1.34769e-11	1.000000
PhcycC3H3_A+H	7.80954e-12	1.000000	7.80954e-12	1.000000
rad59	3.38309e-12	1.000000	3.38309e-12	1.000000
rad43	8.17483e-13	1.000000	8.17483e-13	1.000000
rad54	7.48874e-13	1.000000	7.48874e-13	1.000000
rad62	1.81051e-13	1.000000	1.81051e-13	1.000000
rad50	1.26248e-13	1.000000	1.26248e-13	1.000000
Phenyl+cycC3H4	5.71891e-14	1.000000	0.000000	1.000000

rad70	1.71538e-14	1.00000	1.71538e-14	1.00000
PhcycC3H3_B+H	1.54797e-14	1.00000	1.54797e-14	1.00000
rad55	7.60095e-15	1.00000	7.60095e-15	1.00000
PAH1+H	5.76317e-15	1.00000	5.76317e-15	1.00000
rad52	1.04656e-15	1.00000	1.04656e-15	1.00000
rad6	5.00366e-16	1.00000	5.00366e-16	1.00000
rad58	4.91579e-16	1.00000	4.91579e-16	1.00000
rad51	3.53238e-16	1.00000	3.53238e-16	1.00000
rad34	3.13877e-16	1.00000	3.13877e-16	1.00000
rad41	6.57908e-17	1.00000	6.57908e-17	1.00000
rad42	4.80221e-17	1.00000	4.80221e-17	1.00000
rad65	8.13875e-18	1.00000	8.13875e-18	1.00000
rad28	4.41563e-19	1.00000	4.41563e-19	1.00000
rad2	3.49478e-19	1.00000	3.49478e-19	1.00000
rad53	1.75381e-19	1.00000	1.75381e-19	1.00000
rad26	6.05432e-20	1.00000	6.05432e-20	1.00000
rad7	4.30289e-20	1.00000	4.30289e-20	1.00000
rad64	2.95519e-20	1.00000	2.95519e-20	1.00000
rad1	2.31847e-20	1.00000	2.31847e-20	1.00000
rad10	1.90855e-20	1.00000	1.90855e-20	1.00000
rad11	1.09311e-20	1.00000	1.09311e-20	1.00000
rad3	2.31569e-21	1.00000	2.31569e-21	1.00000
rad61	1.40385e-21	1.00000	1.40385e-21	1.00000
rad4	1.18389e-21	1.00000	1.18389e-21	1.00000
rad13	2.06803e-22	1.00000	2.06803e-22	1.00000
rad56	5.45552e-23	1.00000	5.45552e-23	1.00000
rad68syn	4.97943e-24	1.00000	4.97943e-24	1.00000
rad68anti	3.92401e-24	1.00000	3.92401e-24	1.00000
rad9	3.56459e-24	1.00000	3.56459e-24	1.00000
rad33	3.93079e-25	1.00000	3.93079e-25	1.00000
rad14	2.26926e-25	1.00000	2.26926e-25	1.00000
rad27	2.02427e-25	1.00000	2.02427e-25	1.00000
rad23	1.93421e-25	1.00000	1.93421e-25	1.00000
rad25	1.39994e-25	1.00000	1.39994e-25	1.00000
rad40syn	5.38898e-27	1.00000	5.38898e-27	1.00000
rad40anti	4.30355e-27	1.00000	4.30355e-27	1.00000
rad45	2.13265e-27	1.00000	2.13265e-27	1.00000
rad15	1.58322e-27	1.00000	1.58322e-27	1.00000
rad47	6.33938e-28	1.00000	6.33938e-28	1.00000
rad73	2.64603e-28	1.00000	2.64603e-28	1.00000
PAH8+H	1.67762e-28	1.00000	1.67762e-28	1.00000
rad36	1.31465e-28	1.00000	1.31465e-28	1.00000
rad22	9.13807e-29	1.00000	9.13807e-29	1.00000
rad19anti	8.74613e-29	1.00000	8.74613e-29	1.00000
rad31	8.85201e-30	1.00000	8.85201e-30	1.00000
rad5	2.00165e-30	1.00000	2.00165e-30	1.00000
rad20	1.93545e-30	1.00000	1.93545e-30	1.00000
rad21	1.45400e-30	1.00000	1.45400e-30	1.00000
rad71	1.66875e-31	1.00000	1.66875e-31	1.00000
rad12	1.82380e-32	1.00000	1.82380e-32	1.00000
rad18	1.76043e-32	1.00000	1.76043e-32	1.00000
rad24	2.96958e-35	1.00000	2.96958e-35	1.00000
rad19syn	8.89196e-38	1.00000	8.89196e-38	1.00000
rad8	3.09729e-60	1.00000	3.09729e-60	1.00000

0.100000000E-01 Pa, 180.000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	1.12884e-14 (1.00)	1.12884e-14 (1.00)		
Formation of rad19	1.12881e-14 (1.000)	1.12881e-14 (1.000)		
H-abstraction to cyc2enyl	2.75916e-19 (2.44e-05)	2.75916e-19 (2.44e-05)		
H-abstraction to cyc1enyl	2.39955e-23 (2.13e-09)	2.39955e-23 (2.13e-09)		

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999638	0.999638	0.999638	0.999638
PhCHCCH2+H	0.000320224	0.999958	0.000320224	0.999958
Benzene+cycloprop-2-enylidene	2.44424e-05	0.999982	2.44424e-05	0.999982
PhCCH+CH3	5.69071e-06	0.999988	5.69071e-06	0.999988
C2H2+PhCH2	4.41006e-06	0.999992	4.41006e-06	0.999992
PhCCCH3+H	3.34257e-06	0.999996	3.34257e-06	0.999996
Ph+MeAc	2.73384e-06	0.999998	2.73384e-06	0.999998
rad67	8.06966e-07	0.999999	8.06966e-07	0.999999
rad35	3.49584e-07	1.000000	3.49584e-07	1.000000
Ph+Allene	2.89249e-07	1.000000	2.89249e-07	1.000000
PhCH2CCH+H	3.98790e-08	1.000000	3.98790e-08	1.000000
PAH7+H	3.42407e-08	1.000000	3.42407e-08	1.000000
rad39	9.66090e-09	1.000000	9.66090e-09	1.000000
rad37	9.25180e-09	1.000000	9.25180e-09	1.000000

rad30	6.63204e-09	1.000000	6.63204e-09	1.000000
Benzene+cycloprop-1-enylidene	2.12567e-09	1.000000	2.12567e-09	1.000000
PAH9+H	5.06455e-10	1.000000	5.06455e-10	1.000000
rad38	2.29060e-10	1.000000	2.29060e-10	1.000000
rad60syn	3.56979e-11	1.000000	3.56979e-11	1.000000
PAH10+CH3	2.35048e-11	1.000000	2.35048e-11	1.000000
PAH3+H	1.86545e-11	1.000000	1.86545e-11	1.000000
rad60anti	1.77684e-11	1.000000	1.77684e-11	1.000000
rad46	1.45581e-11	1.000000	1.45581e-11	1.000000
PhcycC3H3_A+H	1.01653e-11	1.000000	1.01653e-11	1.000000
rad59	3.70962e-12	1.000000	3.70962e-12	1.000000
rad43	9.19621e-13	1.000000	9.19621e-13	1.000000
rad54	8.57837e-13	1.000000	8.57837e-13	1.000000
rad62	2.04120e-13	1.000000	2.04120e-13	1.000000
rad50	1.41875e-13	1.000000	1.41875e-13	1.000000
Phenyl+cycC3H4	8.44565e-14	1.000000	0.00000	1.000000
PhcycC3H3_B+H	2.84776e-14	1.000000	2.84776e-14	1.000000
rad70	2.04922e-14	1.000000	2.04922e-14	1.000000
rad55	9.08303e-15	1.000000	9.08303e-15	1.000000
PAH1+H	7.30661e-15	1.000000	7.30661e-15	1.000000
rad52	1.21234e-15	1.000000	1.21234e-15	1.000000
rad58	5.98418e-16	1.000000	5.98418e-16	1.000000
rad51	4.24460e-16	1.000000	4.24460e-16	1.000000
rad34	3.99509e-16	1.000000	3.99509e-16	1.000000
rad6	3.56096e-16	1.000000	3.56096e-16	1.000000
rad41	8.74309e-17	1.000000	8.74309e-17	1.000000
rad42	6.21460e-17	1.000000	6.21460e-17	1.000000
rad65	9.93490e-18	1.000000	9.93490e-18	1.000000
rad53	3.15138e-19	1.000000	3.15138e-19	1.000000
rad28	3.13991e-19	1.000000	3.13991e-19	1.000000
rad2	2.47401e-19	1.000000	2.47401e-19	1.000000
rad64	5.98172e-20	1.000000	5.98172e-20	1.000000
rad26	4.30044e-20	1.000000	4.30044e-20	1.000000
rad7	3.05264e-20	1.000000	3.05264e-20	1.000000
rad1	1.65193e-20	1.000000	1.65193e-20	1.000000
rad10	1.34959e-20	1.000000	1.34959e-20	1.000000
rad11	7.75146e-21	1.000000	7.75146e-21	1.000000
rad61	4.00746e-21	1.000000	4.00746e-21	1.000000
rad3	1.63819e-21	1.000000	1.63819e-21	1.000000
rad4	8.38972e-22	1.000000	8.38972e-22	1.000000
rad56	1.78942e-22	1.000000	1.78942e-22	1.000000
rad13	1.47662e-22	1.000000	1.47662e-22	1.000000
rad68syn	1.75027e-23	1.000000	1.75027e-23	1.000000
rad68anti	1.37078e-23	1.000000	1.37078e-23	1.000000
rad9	3.50054e-24	1.000000	3.50054e-24	1.000000
rad33	2.81163e-25	1.000000	2.81163e-25	1.000000
rad14	1.61547e-25	1.000000	1.61547e-25	1.000000
rad27	1.43883e-25	1.000000	1.43883e-25	1.000000
rad23	1.23077e-25	1.000000	1.23077e-25	1.000000
rad25	1.00025e-25	1.000000	1.00025e-25	1.000000
rad40syn	3.05769e-26	1.000000	3.05769e-26	1.000000
rad40anti	2.44814e-26	1.000000	2.44814e-26	1.000000
rad15	1.55555e-27	1.000000	1.55555e-27	1.000000
rad73	1.39229e-27	1.000000	1.39229e-27	1.000000
rad45	1.35094e-27	1.000000	1.35094e-27	1.000000
PAH8+H	1.32168e-27	1.000000	1.32168e-27	1.000000
rad47	6.53784e-28	1.000000	6.53784e-28	1.000000
rad19anti	2.32250e-28	1.000000	2.32250e-28	1.000000
rad36	8.34505e-29	1.000000	8.34505e-29	1.000000
rad22	5.81202e-29	1.000000	5.81202e-29	1.000000
rad31	6.57147e-30	1.000000	6.57147e-30	1.000000
rad5	1.69694e-30	1.000000	1.69694e-30	1.000000
rad71	1.48849e-30	1.000000	1.48849e-30	1.000000
rad20	1.47502e-30	1.000000	1.47502e-30	1.000000
rad21	1.11161e-30	1.000000	1.11161e-30	1.000000
rad12	1.80847e-32	1.000000	1.80847e-32	1.000000
rad18	1.30005e-32	1.000000	1.30005e-32	1.000000
rad24	1.90924e-35	1.000000	1.90924e-35	1.000000
rad19syn	2.57212e-37	1.000000	2.57212e-37	1.000000
rad8	4.97262e-60	1.000000	4.97262e-60	1.000000

0.100000000E-01 Pa, 190.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.32132e-14 (1.00)	1.32132e-14 (1.00)
Formation of rad19	1.32126e-14 (1.000)	1.32126e-14 (1.000)
H-abstraction to cyc2enyl	5.62053e-19 (4.25e-05)	5.62053e-19 (4.25e-05)
H-abstraction to cyclenyl	8.18073e-23 (6.19e-09)	8.18073e-23 (6.19e-09)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999606	0.999606	0.999606	0.999606
PhCHCCH2+H	0.000332279	0.999939	0.000332279	0.999939
Benzene+cycloprop-2-enylidene	4.25373e-05	0.999981	4.25373e-05	0.999981
PhCCH+CH3	5.91630e-06	0.999987	5.91630e-06	0.999987
C2H2+PhCH2	4.62855e-06	0.999992	4.62855e-06	0.999992
PhCCCH3+H	3.49153e-06	0.999995	3.49153e-06	0.999995
Ph+MeAc	2.88453e-06	0.999998	2.88453e-06	0.999998
rad67	8.49414e-07	0.999999	8.49414e-07	0.999999
rad35	3.67189e-07	0.999999	3.67189e-07	0.999999
Ph+Allene	3.11774e-07	1.000000	3.11774e-07	1.000000
PhCH2CCH+H	4.35468e-08	1.000000	4.35468e-08	1.000000
PAH7+H	3.64798e-08	1.000000	3.64798e-08	1.000000
rad39	1.02910e-08	1.000000	1.02910e-08	1.000000
rad37	9.89359e-09	1.000000	9.89359e-09	1.000000
rad30	6.97985e-09	1.000000	6.97985e-09	1.000000
Benzene+cycloprop-1-enylidene	6.19133e-09	1.000000	6.19133e-09	1.000000
PAH9+H	5.42131e-10	1.000000	5.42131e-10	1.000000
rad38	2.47169e-10	1.000000	2.47169e-10	1.000000
rad60syn	3.84118e-11	1.000000	3.84118e-11	1.000000
PAH10+CH3	2.71403e-11	1.000000	2.71403e-11	1.000000
PAH3+H	2.06563e-11	1.000000	2.06563e-11	1.000000
rad60anti	1.91574e-11	1.000000	1.91574e-11	1.000000
rad46	1.57944e-11	1.000000	1.57944e-11	1.000000
PhcycC3H3_A+H	1.33133e-11	1.000000	1.33133e-11	1.000000
rad59	4.08856e-12	1.000000	4.08856e-12	1.000000
rad43	1.04070e-12	1.000000	1.04070e-12	1.000000
rad54	9.89804e-13	1.000000	9.89804e-13	1.000000
rad62	2.31457e-13	1.000000	2.31457e-13	1.000000
rad50	1.60533e-13	1.000000	1.60533e-13	1.000000
Phenyl+cycC3H4	1.24603e-13	1.000000	0.000000	1.000000
PhcycC3H3_B+H	5.08975e-14	1.000000	5.08975e-14	1.000000
rad70	2.46990e-14	1.000000	2.46990e-14	1.000000
rad55	1.09494e-14	1.000000	1.09494e-14	1.000000
PAH1+H	9.35442e-15	1.000000	9.35442e-15	1.000000
rad52	1.41657e-15	1.000000	1.41657e-15	1.000000
rad58	7.35638e-16	1.000000	7.35638e-16	1.000000
rad51	5.15422e-16	1.000000	5.15422e-16	1.000000
rad34	5.13555e-16	1.000000	5.13555e-16	1.000000
rad6	2.57723e-16	1.000000	2.57723e-16	1.000000
rad41	1.17003e-16	1.000000	1.17003e-16	1.000000
rad42	8.09713e-17	1.000000	8.09713e-17	1.000000
rad65	1.22597e-17	1.000000	1.22597e-17	1.000000
rad53	5.54694e-19	1.000000	5.54694e-19	1.000000
rad28	2.27089e-19	1.000000	2.27089e-19	1.000000
rad2	1.78204e-19	1.000000	1.78204e-19	1.000000
rad64	1.16747e-19	1.000000	1.16747e-19	1.000000
rad26	3.10812e-20	1.000000	3.10812e-20	1.000000
rad7	2.20312e-20	1.000000	2.20312e-20	1.000000
rad1	1.19829e-20	1.000000	1.19829e-20	1.000000
rad61	1.05575e-20	1.000000	1.05575e-20	1.000000
rad10	9.71207e-21	1.000000	9.71207e-21	1.000000
rad11	5.59236e-21	1.000000	5.59236e-21	1.000000
rad3	1.17939e-21	1.000000	1.17939e-21	1.000000
rad4	6.05153e-22	1.000000	6.05153e-22	1.000000
rad56	5.32476e-22	1.000000	5.32476e-22	1.000000
rad13	1.07239e-22	1.000000	1.07239e-22	1.000000
rad68syn	5.52070e-23	1.000000	5.52070e-23	1.000000
rad68anti	4.29548e-23	1.000000	4.29548e-23	1.000000
rad9	3.58152e-24	1.000000	3.58152e-24	1.000000
rad33	2.04571e-25	1.000000	2.04571e-25	1.000000
rad40syn	1.47197e-25	1.000000	1.47197e-25	1.000000
rad40anti	1.18046e-25	1.000000	1.18046e-25	1.000000
rad14	1.17015e-25	1.000000	1.17015e-25	1.000000
rad27	1.04078e-25	1.000000	1.04078e-25	1.000000
rad23	8.04716e-26	1.000000	8.04716e-26	1.000000
rad25	7.26924e-26	1.000000	7.26924e-26	1.000000
PAH8+H	8.53764e-27	1.000000	8.53764e-27	1.000000
rad73	6.33913e-27	1.000000	6.33913e-27	1.000000
rad15	1.59260e-27	1.000000	1.59260e-27	1.000000
rad45	8.79850e-28	1.000000	8.79850e-28	1.000000
rad47	6.82801e-28	1.000000	6.82801e-28	1.000000
rad19anti	6.47928e-28	1.000000	6.47928e-28	1.000000
rad36	5.44825e-29	1.000000	5.44825e-29	1.000000
rad22	3.80003e-29	1.000000	3.80003e-29	1.000000
rad71	1.07814e-29	1.000000	1.07814e-29	1.000000
rad31	4.98845e-30	1.000000	4.98845e-30	1.000000
rad5	1.45235e-30	1.000000	1.45235e-30	1.000000
rad20	1.14613e-30	1.000000	1.14613e-30	1.000000

rad21	8.66595e-31	1.000000	8.66595e-31	1.000000
rad12	1.86938e-32	1.000000	1.86938e-32	1.000000
rad18	9.80599e-33	1.000000	9.80599e-33	1.000000
rad24	1.26242e-35	1.000000	1.26242e-35	1.000000
rad19syn	7.83212e-37	1.000000	7.83212e-37	1.000000
rad8	8.15210e-60	1.000000	8.15210e-60	1.000000

0.100000000E-01 Pa, 200.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.52621e-14 (1.00)	1.52621e-14 (1.00)
Formation of rad19	1.52610e-14 (1.000)	1.52610e-14 (1.000)
H-abstraction to cyc2enyl	1.06427e-18 (6.97e-05)	1.06427e-18 (6.97e-05)
H-abstraction to cyclenyl	2.46309e-22 (1.61e-08)	2.46309e-22 (1.61e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999565	0.999565	0.999565	0.999565
PhCHCCH2+H	0.000345420	0.999911	0.000345420	0.999911
Benzene+cycloprop-2-enylidene	6.97330e-05	0.999980	6.97330e-05	0.999980
PhCCH+CH3	6.16171e-06	0.999987	6.16171e-06	0.999987
C2H2+PhCH2	4.86950e-06	0.999991	4.86950e-06	0.999991
PhCCCH3+H	3.65479e-06	0.999995	3.65479e-06	0.999995
Ph+MeAc	3.05144e-06	0.999998	3.05144e-06	0.999998
rad67	8.96372e-07	0.999999	8.96372e-07	0.999999
rad35	3.86624e-07	0.999999	3.86624e-07	0.999999
Ph+Allene	3.37363e-07	1.000000	3.37363e-07	1.000000
PhCH2CCH+H	4.77716e-08	1.000000	4.77716e-08	1.000000
PAH7+H	3.89907e-08	1.000000	3.89907e-08	1.000000
Benzene+cycloprop-1-enylidene	1.61386e-08	1.000000	1.61386e-08	1.000000
rad39	1.09967e-08	1.000000	1.09967e-08	1.000000
rad37	1.06162e-08	1.000000	1.06162e-08	1.000000
rad30	7.36532e-09	1.000000	7.36532e-09	1.000000
PAH9+H	5.82456e-10	1.000000	5.82456e-10	1.000000
rad38	2.67851e-10	1.000000	2.67851e-10	1.000000
rad60syn	4.14940e-11	1.000000	4.14940e-11	1.000000
PAH10+CH3	3.15667e-11	1.000000	3.15667e-11	1.000000
PAH3+H	2.30008e-11	1.000000	2.30008e-11	1.000000
rad60anti	2.07383e-11	1.000000	2.07383e-11	1.000000
PhcycC3H3_A+H	1.75311e-11	1.000000	1.75311e-11	1.000000
rad46	1.72128e-11	1.000000	1.72128e-11	1.000000
rad59	4.52998e-12	1.000000	4.52998e-12	1.000000
rad43	1.18478e-12	1.000000	1.18478e-12	1.000000
rad54	1.15042e-12	1.000000	1.15042e-12	1.000000
rad62	2.63967e-13	1.000000	2.63967e-13	1.000000
Phenyl+cycC3H4	1.83626e-13	1.000000	0.000000	1.000000
rad50	1.82927e-13	1.000000	1.82927e-13	1.000000
PhcycC3H3_B+H	8.87689e-14	1.000000	8.87689e-14	1.000000
rad70	3.00300e-14	1.000000	3.00300e-14	1.000000
rad55	1.33128e-14	1.000000	1.33128e-14	1.000000
PAH1+H	1.20864e-14	1.000000	1.20864e-14	1.000000
rad52	1.66974e-15	1.000000	1.66974e-15	1.000000
rad58	9.12963e-16	1.000000	9.12963e-16	1.000000
rad34	6.66292e-16	1.000000	6.66292e-16	1.000000
rad51	6.32449e-16	1.000000	6.32449e-16	1.000000
rad6	1.89364e-16	1.000000	1.89364e-16	1.000000
rad41	1.57541e-16	1.000000	1.57541e-16	1.000000
rad42	1.06137e-16	1.000000	1.06137e-16	1.000000
rad65	1.52906e-17	1.000000	1.52906e-17	1.000000
rad53	9.59721e-19	1.000000	9.59721e-19	1.000000
rad64	2.21013e-19	1.000000	2.21013e-19	1.000000
rad28	1.66752e-19	1.000000	1.66752e-19	1.000000
rad2	1.30382e-19	1.000000	1.30382e-19	1.000000
rad61	2.60074e-20	1.000000	2.60074e-20	1.000000
rad26	2.28212e-20	1.000000	2.28212e-20	1.000000
rad7	1.61466e-20	1.000000	1.61466e-20	1.000000
rad1	8.83447e-21	1.000000	8.83447e-21	1.000000
rad10	7.10030e-21	1.000000	7.10030e-21	1.000000
rad11	4.09759e-21	1.000000	4.09759e-21	1.000000
rad56	1.46097e-21	1.000000	1.46097e-21	1.000000
rad3	8.62586e-22	1.000000	8.62586e-22	1.000000
rad4	4.43520e-22	1.000000	4.43520e-22	1.000000
rad68syn	1.59108e-22	1.000000	1.59108e-22	1.000000
rad68anti	1.22955e-22	1.000000	1.22955e-22	1.000000
rad13	7.90792e-23	1.000000	7.90792e-23	1.000000
rad9	3.86287e-24	1.000000	3.86287e-24	1.000000
rad40syn	6.17015e-25	1.000000	6.17015e-25	1.000000
rad40anti	4.95158e-25	1.000000	4.95158e-25	1.000000
rad33	1.51143e-25	1.000000	1.51143e-25	1.000000

rad14	8.60923e-26	1.000000	8.60923e-26	1.000000
rad27	7.64818e-26	1.000000	7.64818e-26	1.000000
rad23	5.39387e-26	1.000000	5.39387e-26	1.000000
rad25	5.36422e-26	1.000000	5.36422e-26	1.000000
PAH8+H	4.65789e-26	1.000000	4.65789e-26	1.000000
rad73	2.55461e-26	1.000000	2.55461e-26	1.000000
rad19anti	1.89455e-27	1.000000	1.89455e-27	1.000000
rad15	1.71911e-27	1.000000	1.71911e-27	1.000000
rad47	7.22416e-28	1.000000	7.22416e-28	1.000000
rad45	5.87781e-28	1.000000	5.87781e-28	1.000000
rad71	6.53434e-29	1.000000	6.53434e-29	1.000000
rad36	3.64997e-29	1.000000	3.64997e-29	1.000000
rad22	2.54784e-29	1.000000	2.54784e-29	1.000000
rad31	3.87009e-30	1.000000	3.87009e-30	1.000000
rad5	1.25331e-30	1.000000	1.25331e-30	1.000000
rad20	9.06438e-31	1.000000	9.06438e-31	1.000000
rad21	6.87732e-31	1.000000	6.87732e-31	1.000000
rad12	2.03826e-32	1.000000	2.03826e-32	1.000000
rad18	7.53902e-33	1.000000	7.53902e-33	1.000000
rad24	8.56569e-36	1.000000	8.56569e-36	1.000000
rad19syn	2.51002e-36	1.000000	2.51002e-36	1.000000
rad8	1.36457e-59	1.000000	1.36457e-59	1.000000

0.100000000E-01 Pa, 210.00000 K

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Rate constant      | True (fraction)      Effective (fraction)
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Total              | 1.74272e-14 (1.00   ) 1.74272e-14 (1.00   )
Formation of rad19| 1.74253e-14 (1.000  ) 1.74253e-14 (1.000  )
H-abstraction to cyc2enyl| 1.89310e-18 (0.000109) 1.89310e-18 (0.000109)
H-abstraction to cyc1enyl| 6.66714e-22 (3.83e-08) 6.66714e-22 (3.83e-08)

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species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999511	0.999511	0.999511	0.999511
PhCHCCH2+H	0.000359758	0.999871	0.000359758	0.999871
Benzene+cycloprop-2-enylidene	0.000108629	0.999980	0.000108629	0.999980
PhCCH+CH3	6.42885e-06	0.999986	6.42885e-06	0.999986
C2H2+PhCH2	5.13553e-06	0.999991	5.13553e-06	0.999991
PhCCCH3+H	3.83384e-06	0.999995	3.83384e-06	0.999995
Ph+MeAc	3.23657e-06	0.999998	3.23657e-06	0.999998
rad67	9.48392e-07	0.999999	9.48392e-07	0.999999
rad35	4.08106e-07	1.000000	4.08106e-07	1.000000
Ph+Allene	3.66504e-07	1.000000	3.66504e-07	1.000000
PhCH2CCH+H	5.26517e-08	1.000000	5.26517e-08	1.000000
PAH7+H	4.18113e-08	1.000000	4.18113e-08	1.000000
Benzene+cycloprop-1-enylidene	3.82571e-08	1.000000	3.82571e-08	1.000000
rad39	1.17889e-08	1.000000	1.17889e-08	1.000000
rad37	1.14312e-08	1.000000	1.14312e-08	1.000000
rad30	7.79317e-09	1.000000	7.79317e-09	1.000000
PAH9+H	6.28148e-10	1.000000	6.28148e-10	1.000000
rad38	2.91537e-10	1.000000	2.91537e-10	1.000000
rad60syn	4.50034e-11	1.000000	4.50034e-11	1.000000
PAH10+CH3	3.69788e-11	1.000000	3.69788e-11	1.000000
PAH3+H	2.57566e-11	1.000000	2.57566e-11	1.000000
PhcycC3H3_A+H	2.31911e-11	1.000000	2.31911e-11	1.000000
rad60anti	2.25423e-11	1.000000	2.25423e-11	1.000000
rad46	1.88451e-11	1.000000	1.88451e-11	1.000000
rad59	5.04596e-12	1.000000	5.04596e-12	1.000000
rad43	1.35682e-12	1.000000	1.35682e-12	1.000000
rad54	1.34677e-12	1.000000	1.34677e-12	1.000000
rad62	3.02741e-13	1.000000	3.02741e-13	1.000000
Phenyl+cycC3H4	2.70226e-13	1.000000	0.000000	1.000000
rad50	2.09933e-13	1.000000	2.09933e-13	1.000000
PhcycC3H3_B+H	1.51586e-13	1.000000	1.51586e-13	1.000000
rad70	3.68189e-14	1.000000	3.68189e-14	1.000000
rad55	1.63194e-14	1.000000	1.63194e-14	1.000000
PAH1+H	1.57473e-14	1.000000	1.57473e-14	1.000000
rad52	1.98541e-15	1.000000	1.98541e-15	1.000000
rad58	1.14336e-15	1.000000	1.14336e-15	1.000000
rad34	8.71792e-16	1.000000	8.71792e-16	1.000000
rad51	7.84007e-16	1.000000	7.84007e-16	1.000000
rad41	2.13230e-16	1.000000	2.13230e-16	1.000000
rad6	1.41074e-16	1.000000	1.41074e-16	1.000000
rad42	1.39845e-16	1.000000	1.39845e-16	1.000000
rad65	1.92677e-17	1.000000	1.92677e-17	1.000000
rad53	1.63622e-18	1.000000	1.63622e-18	1.000000
rad64	4.07650e-19	1.000000	4.07650e-19	1.000000
rad28	1.24160e-19	1.000000	1.24160e-19	1.000000
rad2	9.67767e-20	1.000000	9.67767e-20	1.000000

rad61	6.05305e-20	1.00000	6.05305e-20	1.00000
rad26	1.70063e-20	1.00000	1.70063e-20	1.00000
rad7	1.20018e-20	1.00000	1.20018e-20	1.00000
rad1	6.61206e-21	1.00000	6.61206e-21	1.00000
rad10	5.26696e-21	1.00000	5.26696e-21	1.00000
rad56	3.74333e-21	1.00000	3.74333e-21	1.00000
rad11	3.04523e-21	1.00000	3.04523e-21	1.00000
rad3	6.40115e-22	1.00000	6.40115e-22	1.00000
rad68syn	4.25005e-22	1.00000	4.25005e-22	1.00000
rad4	3.29880e-22	1.00000	3.29880e-22	1.00000
rad68anti	3.26162e-22	1.00000	3.26162e-22	1.00000
rad13	5.91352e-23	1.00000	5.91352e-23	1.00000
rad9	4.49941e-24	1.00000	4.49941e-24	1.00000
rad40syn	2.29885e-24	1.00000	2.29885e-24	1.00000
rad40anti	1.84451e-24	1.00000	1.84451e-24	1.00000
PAH8+H	2.19650e-25	1.00000	2.19650e-25	1.00000
rad33	1.13254e-25	1.00000	1.13254e-25	1.00000
rad73	9.27513e-26	1.00000	9.27513e-26	1.00000
rad14	6.42583e-26	1.00000	6.42583e-26	1.00000
rad27	5.70277e-26	1.00000	5.70277e-26	1.00000
rad25	4.01432e-26	1.00000	4.01432e-26	1.00000
rad23	3.70034e-26	1.00000	3.70034e-26	1.00000
rad19anti	5.79034e-27	1.00000	5.79034e-27	1.00000
rad15	2.00432e-27	1.00000	2.00432e-27	1.00000
rad47	7.74672e-28	1.00000	7.74672e-28	1.00000
rad45	4.02105e-28	1.00000	4.02105e-28	1.00000
rad71	3.39086e-28	1.00000	3.39086e-28	1.00000
rad36	2.50508e-29	1.00000	2.50508e-29	1.00000
rad22	1.74870e-29	1.00000	1.74870e-29	1.00000
rad31	3.07337e-30	1.00000	3.07337e-30	1.00000
rad5	1.08940e-30	1.00000	1.08940e-30	1.00000
rad20	7.28756e-31	1.00000	7.28756e-31	1.00000
rad21	5.54925e-31	1.00000	5.54925e-31	1.00000
rad12	2.40161e-32	1.00000	2.40161e-32	1.00000
rad18	5.89882e-33	1.00000	5.89882e-33	1.00000
rad19syn	8.46110e-36	1.00000	8.46110e-36	1.00000
rad24	5.95510e-36	1.00000	5.95510e-36	1.00000
rad8	2.33232e-59	1.00000	2.33232e-59	1.00000

0.100000000E-01 Pa, 220.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.97009e-14 (1.00)	1.97009e-14 (1.00)
Formation of rad19	1.96977e-14 (1.000)	1.96977e-14 (1.000)
H-abstraction to cyc2enyl	3.19064e-18 (0.000162)	3.19064e-18 (0.000162)
H-abstraction to cyc1enyl	1.64627e-21 (8.36e-08)	1.64627e-21 (8.36e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999441	0.999441	0.999441	0.999441
PhCHCCH2+H	0.000375412	0.999816	0.000375412	0.999816
Benzene+cycloprop-2-enylidene	0.000161954	0.999978	0.000161954	0.999978
PhCCH+CH3	6.71974e-06	0.999985	6.71974e-06	0.999985
C2H2+PhCH2	5.42953e-06	0.999991	5.42953e-06	0.999991
PhCCCH3+H	4.03040e-06	0.999995	4.03040e-06	0.999995
Ph+MeAc	3.44212e-06	0.999998	3.44212e-06	0.999998
rad67	1.00608e-06	0.999999	1.00608e-06	0.999999
rad35	4.31875e-07	0.999999	4.31875e-07	0.999999
Ph+Allene	3.99755e-07	1.000000	3.99755e-07	1.000000
Benzene+cycloprop-1-enylidene	8.35632e-08	1.000000	8.35632e-08	1.000000
PhCH2CCH+H	5.83028e-08	1.000000	5.83028e-08	1.000000
PAH7+H	4.49846e-08	1.000000	4.49846e-08	1.000000
rad39	1.26791e-08	1.000000	1.26791e-08	1.000000
rad37	1.23522e-08	1.000000	1.23522e-08	1.000000
rad30	8.26867e-09	1.000000	8.26867e-09	1.000000
PAH9+H	6.80024e-10	1.000000	6.80024e-10	1.000000
rad38	3.18734e-10	1.000000	3.18734e-10	1.000000
rad60syn	4.90079e-11	1.000000	4.90079e-11	1.000000
PAH10+CH3	4.36213e-11	1.000000	4.36213e-11	1.000000
PhcycC3H3_A+H	3.07928e-11	1.000000	3.07928e-11	1.000000
PAH3+H	2.90063e-11	1.000000	2.90063e-11	1.000000
rad60anti	2.46053e-11	1.000000	2.46053e-11	1.000000
rad46	2.07283e-11	1.000000	2.07283e-11	1.000000
rad59	5.65089e-12	1.000000	5.65089e-12	1.000000
rad54	1.58772e-12	1.000000	1.58772e-12	1.000000
rad43	1.56284e-12	1.000000	1.56284e-12	1.000000
Phenyl+cycC3H4	3.96956e-13	1.000000	0.000000	1.000000
rad62	3.49104e-13	1.000000	3.49104e-13	1.000000
PhcycC3H3_B+H	2.54100e-13	1.000000	2.54100e-13	1.000000

rad50	2.42645e-13	1.00000	2.42645e-13	1.00000
rad70	4.55004e-14	1.00000	4.55004e-14	1.00000
PAH1+H	2.06709e-14	1.00000	2.06709e-14	1.00000
rad55	2.01601e-14	1.00000	2.01601e-14	1.00000
rad52	2.38107e-15	1.00000	2.38107e-15	1.00000
rad58	1.44407e-15	1.00000	1.44407e-15	1.00000
rad34	1.14930e-15	1.00000	1.14930e-15	1.00000
rad51	9.81446e-16	1.00000	9.81446e-16	1.00000
rad41	2.89830e-16	1.00000	2.89830e-16	1.00000
rad42	1.85049e-16	1.00000	1.85049e-16	1.00000
rad6	1.06480e-16	1.00000	1.06480e-16	1.00000
rad65	2.45161e-17	1.00000	2.45161e-17	1.00000
rad53	2.75361e-18	1.00000	2.75361e-18	1.00000
rad64	7.35064e-19	1.00000	7.35064e-19	1.00000
rad61	1.34193e-19	1.00000	1.34193e-19	1.00000
rad28	9.36644e-20	1.00000	9.36644e-20	1.00000
rad2	7.28247e-20	1.00000	7.28247e-20	1.00000
rad26	1.28586e-20	1.00000	1.28586e-20	1.00000
rad56	9.04719e-21	1.00000	9.04719e-21	1.00000
rad7	9.04035e-21	1.00000	9.04035e-21	1.00000
rad1	5.02058e-21	1.00000	5.02058e-21	1.00000
rad10	3.96152e-21	1.00000	3.96152e-21	1.00000
rad11	2.29360e-21	1.00000	2.29360e-21	1.00000
rad68syn	1.06417e-21	1.00000	1.06417e-21	1.00000
rad68anti	8.11034e-22	1.00000	8.11034e-22	1.00000
rad3	4.81630e-22	1.00000	4.81630e-22	1.00000
rad4	2.48822e-22	1.00000	2.48822e-22	1.00000
rad13	4.48092e-23	1.00000	4.48092e-23	1.00000
rad40syn	7.73749e-24	1.00000	7.73749e-24	1.00000
rad40anti	6.20266e-24	1.00000	6.20266e-24	1.00000
rad9	5.89373e-24	1.00000	5.89373e-24	1.00000
PAH8+H	9.11766e-25	1.00000	9.11766e-25	1.00000
rad73	3.07609e-25	1.00000	3.07609e-25	1.00000
rad33	8.60001e-26	1.00000	8.60001e-26	1.00000
rad14	4.86220e-26	1.00000	4.86220e-26	1.00000
rad27	4.31167e-26	1.00000	4.31167e-26	1.00000
rad25	3.04418e-26	1.00000	3.04418e-26	1.00000
rad23	2.59573e-26	1.00000	2.59573e-26	1.00000
rad19anti	1.84395e-26	1.00000	1.84395e-26	1.00000
rad15	2.62830e-27	1.00000	2.62830e-27	1.00000
rad71	1.53417e-27	1.00000	1.53417e-27	1.00000
rad47	8.42424e-28	1.00000	8.42424e-28	1.00000
rad45	2.81432e-28	1.00000	2.81432e-28	1.00000
rad36	1.75978e-29	1.00000	1.75978e-29	1.00000
rad22	1.22727e-29	1.00000	1.22727e-29	1.00000
rad31	2.51618e-30	1.00000	2.51618e-30	1.00000
rad5	9.52965e-31	1.00000	9.52965e-31	1.00000
rad20	5.95177e-31	1.00000	5.95177e-31	1.00000
rad21	4.54932e-31	1.00000	4.54932e-31	1.00000
rad12	3.18445e-32	1.00000	3.18445e-32	1.00000
rad18	4.69254e-33	1.00000	4.69254e-33	1.00000
rad19syn	2.99699e-35	1.00000	2.99699e-35	1.00000
rad24	4.23887e-36	1.00000	4.23887e-36	1.00000
rad8	4.07114e-59	1.00000	4.07114e-59	1.00000

0.100000000E-01 Pa, 230.00000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	2.20761e-14 (1.00)	2.20761e-14 (1.00)		
Formation of rad19	2.20710e-14 (1.000)	2.20710e-14 (1.000)		
H-abstraction to cyc2enyl	5.13155e-18 (0.000232)	5.13155e-18 (0.000232)		
H-abstraction to cyclenyl	3.75316e-21 (1.70e-07)	3.75316e-21 (1.70e-07)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999352	0.999352	0.999352	0.999352
PhCHCCH2+H	0.000392508	0.999745	0.000392508	0.999745
Benzene+cycloprop-2-enylidene	0.000232448	0.999977	0.000232448	0.999977
PhCCH+CH3	7.03649e-06	0.999984	7.03649e-06	0.999984
C2H2+PhCH2	5.75462e-06	0.999990	5.75462e-06	0.999990
PhCCCH3+H	4.24622e-06	0.999994	4.24622e-06	0.999994
Ph+MeAc	3.67051e-06	0.999998	3.67051e-06	0.999998
rad67	1.07010e-06	0.999999	1.07010e-06	0.999999
rad35	4.58193e-07	1.000000	4.58193e-07	1.000000
Ph+Allene	4.37760e-07	1.000000	4.37760e-07	1.000000
Benzene+cycloprop-1-enylidene	1.70010e-07	1.000000	1.70010e-07	1.000000
PhCH2CCH+H	6.48602e-08	1.000000	6.48602e-08	1.000000
PAH7+H	4.85591e-08	1.000000	4.85591e-08	1.000000
rad39	1.36808e-08	1.000000	1.36808e-08	1.000000

rad37	1.33943e-08	1.00000	1.33943e-08	1.00000
rad30	8.79760e-09	1.00000	8.79760e-09	1.00000
PAH9+H	7.39028e-10	1.00000	7.39028e-10	1.00000
rad38	3.50035e-10	1.00000	3.50035e-10	1.00000
rad60syn	5.35854e-11	1.00000	5.35854e-11	1.00000
PAH10+CH3	5.18004e-11	1.00000	5.18004e-11	1.00000
PhcycC3H3_A+H	4.10035e-11	1.00000	4.10035e-11	1.00000
PAH3+H	3.28496e-11	1.00000	3.28496e-11	1.00000
rad60anti	2.69694e-11	1.00000	2.69694e-11	1.00000
rad46	2.29066e-11	1.00000	2.29066e-11	1.00000
rad59	6.36197e-12	1.00000	6.36197e-12	1.00000
rad54	1.88437e-12	1.00000	1.88437e-12	1.00000
rad43	1.81012e-12	1.00000	1.81012e-12	1.00000
Phenyl+cycC3H4	5.81829e-13	1.00000	0.00000	1.00000
PhcycC3H3_B+H	4.18958e-13	1.00000	4.18958e-13	1.00000
rad62	4.04652e-13	1.00000	4.04652e-13	1.00000
rad50	2.82422e-13	1.00000	2.82422e-13	1.00000
rad70	5.66410e-14	1.00000	5.66410e-14	1.00000
PAH1+H	2.73107e-14	1.00000	2.73107e-14	1.00000
rad55	2.50827e-14	1.00000	2.50827e-14	1.00000
rad52	2.87932e-15	1.00000	2.87932e-15	1.00000
rad58	1.83808e-15	1.00000	1.83808e-15	1.00000
rad34	1.52513e-15	1.00000	1.52513e-15	1.00000
rad51	1.24000e-15	1.00000	1.24000e-15	1.00000
rad41	3.95240e-16	1.00000	3.95240e-16	1.00000
rad42	2.45696e-16	1.00000	2.45696e-16	1.00000
rad6	8.14059e-17	1.00000	8.14059e-17	1.00000
rad65	3.14766e-17	1.00000	3.14766e-17	1.00000
rad53	4.57988e-18	1.00000	4.57988e-18	1.00000
rad64	1.29910e-18	1.00000	1.29910e-18	1.00000
rad61	2.85208e-19	1.00000	2.85208e-19	1.00000
rad28	7.15708e-20	1.00000	7.15708e-20	1.00000
rad2	5.55569e-20	1.00000	5.55569e-20	1.00000
rad56	2.07884e-20	1.00000	2.07884e-20	1.00000
rad26	9.87151e-21	1.00000	9.87151e-21	1.00000
rad7	6.89907e-21	1.00000	6.89907e-21	1.00000
rad1	3.86765e-21	1.00000	3.86765e-21	1.00000
rad10	3.02118e-21	1.00000	3.02118e-21	1.00000
rad68syn	2.52002e-21	1.00000	2.52002e-21	1.00000
rad68anti	1.90763e-21	1.00000	1.90763e-21	1.00000
rad11	1.75030e-21	1.00000	1.75030e-21	1.00000
rad3	3.67402e-22	1.00000	3.67402e-22	1.00000
rad4	1.90322e-22	1.00000	1.90322e-22	1.00000
rad13	3.43979e-23	1.00000	3.43979e-23	1.00000
rad40syn	2.38295e-23	1.00000	2.38295e-23	1.00000
rad40anti	1.90752e-23	1.00000	1.90752e-23	1.00000
rad9	9.11119e-24	1.00000	9.11119e-24	1.00000
PAH8+H	3.38005e-24	1.00000	3.38005e-24	1.00000
rad73	9.41747e-25	1.00000	9.41747e-25	1.00000
rad33	6.61660e-26	1.00000	6.61660e-26	1.00000
rad19anti	6.09627e-26	1.00000	6.09627e-26	1.00000
rad14	3.72954e-26	1.00000	3.72954e-26	1.00000
rad27	3.30552e-26	1.00000	3.30552e-26	1.00000
rad25	2.33875e-26	1.00000	2.33875e-26	1.00000
rad23	1.86166e-26	1.00000	1.86166e-26	1.00000
rad71	6.14063e-27	1.00000	6.14063e-27	1.00000
rad15	4.06807e-27	1.00000	4.06807e-27	1.00000
rad47	9.29611e-28	1.00000	9.29611e-28	1.00000
rad45	2.01494e-28	1.00000	2.01494e-28	1.00000
rad36	1.26522e-29	1.00000	1.26522e-29	1.00000
rad22	8.80471e-30	1.00000	8.80471e-30	1.00000
rad31	2.17343e-30	1.00000	2.17343e-30	1.00000
rad5	8.38347e-31	1.00000	8.38347e-31	1.00000
rad20	4.93694e-31	1.00000	4.93694e-31	1.00000
rad21	3.78872e-31	1.00000	3.78872e-31	1.00000
rad12	4.98701e-32	1.00000	4.98701e-32	1.00000
rad18	3.79379e-33	1.00000	3.79379e-33	1.00000
rad19syn	1.11381e-34	1.00000	1.11381e-34	1.00000
rad24	3.08942e-36	1.00000	3.08942e-36	1.00000
rad8	7.25937e-59	1.00000	7.25937e-59	1.00000

0.100000000E-01 Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.45462e-14 (1.00)	2.45462e-14 (1.00)
Formation of rad19	2.45383e-14 (1.000)	2.45383e-14 (1.000)
H-abstraction to cyc2enyl	7.92234e-18 (0.000323)	7.92234e-18 (0.000323)
H-abstraction to cyclenyl	7.97958e-21 (3.25e-07)	7.97958e-21 (3.25e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999242	0.999242	0.999242	0.999242
PhCHCCH2+H	0.000411180	0.999653	0.000411180	0.999653
Benzene+cycloprop-2-enylidene	0.000322752	0.999976	0.000322752	0.999976
PhCCH+CH3	7.38134e-06	0.999983	7.38134e-06	0.999983
C2H2+PhCH2	6.11420e-06	0.999989	6.11420e-06	0.999989
PhCCCH3+H	4.48323e-06	0.999994	4.48323e-06	0.999994
Ph+MeAc	3.92437e-06	0.999998	3.92437e-06	0.999998
rad67	1.14118e-06	0.999999	1.14118e-06	0.999999
rad35	4.87346e-07	1.000000	4.87346e-07	1.000000
Ph+Allene	4.81257e-07	1.000000	4.81257e-07	1.000000
Benzene+cycloprop-1-enylidene	3.25084e-07	1.000000	3.25084e-07	1.000000
PhCH2CCH+H	7.24828e-08	1.000000	7.24828e-08	1.000000
PAH7+H	5.25890e-08	1.000000	5.25890e-08	1.000000
rad39	1.48086e-08	1.000000	1.48086e-08	1.000000
rad37	1.45747e-08	1.000000	1.45747e-08	1.000000
rad30	9.38639e-09	1.000000	9.38639e-09	1.000000
PAH9+H	8.06239e-10	1.000000	8.06239e-10	1.000000
rad38	3.86126e-10	1.000000	3.86126e-10	1.000000
PAH10+CH3	6.18995e-11	1.000000	6.18995e-11	1.000000
rad60syn	5.88263e-11	1.000000	5.88263e-11	1.000000
PhcycC3H3_A+H	5.47105e-11	1.000000	5.47105e-11	1.000000
PAH3+H	3.74063e-11	1.000000	3.74063e-11	1.000000
rad60anti	2.96826e-11	1.000000	2.96826e-11	1.000000
rad46	2.54309e-11	1.000000	2.54309e-11	1.000000
rad59	7.19975e-12	1.000000	7.19975e-12	1.000000
rad54	2.25061e-12	1.000000	2.25061e-12	1.000000
rad43	2.10754e-12	1.000000	2.10754e-12	1.000000
Phenyl+cycC3H4	8.50545e-13	1.000000	0.000000	1.000000
PhcycC3H3_B+H	6.80482e-13	1.000000	6.80482e-13	1.000000
rad62	4.71308e-13	1.000000	4.71308e-13	1.000000
rad50	3.30964e-13	1.000000	3.30964e-13	1.000000
rad70	7.09779e-14	1.000000	7.09779e-14	1.000000
PAH1+H	3.62817e-14	1.000000	3.62817e-14	1.000000
rad55	3.14084e-14	1.000000	3.14084e-14	1.000000
rad52	3.50939e-15	1.000000	3.50939e-15	1.000000
rad58	2.35599e-15	1.000000	2.35599e-15	1.000000
rad34	2.03505e-15	1.000000	2.03505e-15	1.000000
rad51	1.58013e-15	1.000000	1.58013e-15	1.000000
rad41	5.40253e-16	1.000000	5.40253e-16	1.000000
rad42	3.27035e-16	1.000000	3.27035e-16	1.000000
rad6	6.30714e-17	1.000000	6.30714e-17	1.000000
rad65	4.07460e-17	1.000000	4.07460e-17	1.000000
rad53	7.53456e-18	1.000000	7.53456e-18	1.000000
rad64	2.25464e-18	1.000000	2.25464e-18	1.000000
rad61	5.84050e-19	1.000000	5.84050e-19	1.000000
rad28	5.54187e-20	1.000000	5.54187e-20	1.000000
rad56	4.56897e-20	1.000000	4.56897e-20	1.000000
rad2	4.30087e-20	1.000000	4.30087e-20	1.000000
rad26	7.71055e-21	1.000000	7.71055e-21	1.000000
rad68syn	5.68312e-21	1.000000	5.68312e-21	1.000000
rad7	5.33672e-21	1.000000	5.33672e-21	1.000000
rad68anti	4.27418e-21	1.000000	4.27418e-21	1.000000
rad1	3.02585e-21	1.000000	3.02585e-21	1.000000
rad10	2.33835e-21	1.000000	2.33835e-21	1.000000
rad11	1.35398e-21	1.000000	1.35398e-21	1.000000
rad3	2.84384e-22	1.000000	2.84384e-22	1.000000
rad4	1.47750e-22	1.000000	1.47750e-22	1.000000
rad40syn	6.78263e-23	1.000000	6.78263e-23	1.000000
rad40anti	5.41963e-23	1.000000	5.41963e-23	1.000000
rad13	2.67646e-23	1.000000	2.67646e-23	1.000000
rad9	1.70680e-23	1.000000	1.70680e-23	1.000000
PAH8+H	1.13213e-23	1.000000	1.13213e-23	1.000000
rad73	2.68269e-24	1.000000	2.68269e-24	1.000000
rad19anti	2.08390e-25	1.000000	2.08390e-25	1.000000
rad33	5.16043e-26	1.000000	5.16043e-26	1.000000
rad14	2.90249e-26	1.000000	2.90249e-26	1.000000
rad27	2.57207e-26	1.000000	2.57207e-26	1.000000
rad71	2.20055e-26	1.000000	2.20055e-26	1.000000
rad25	1.82127e-26	1.000000	1.82127e-26	1.000000
rad23	1.36631e-26	1.000000	1.36631e-26	1.000000
rad15	7.63093e-27	1.000000	7.63093e-27	1.000000
rad47	1.04166e-27	1.000000	1.04166e-27	1.000000
rad45	1.47704e-28	1.000000	1.47704e-28	1.000000
rad36	9.31838e-30	1.000000	9.31838e-30	1.000000
rad22	6.46128e-30	1.000000	6.46128e-30	1.000000
rad31	2.11305e-30	1.000000	2.11305e-30	1.000000
rad5	7.41260e-31	1.000000	7.41260e-31	1.000000
rad20	4.16167e-31	1.000000	4.16167e-31	1.000000

rad21	3.20719e-31	1.00000	3.20719e-31	1.00000
rad12	9.47137e-32	1.00000	9.47137e-32	1.00000
rad18	3.11827e-33	1.00000	3.11827e-33	1.00000
rad19syn	4.33470e-34	1.00000	4.33470e-34	1.00000
rad24	2.30809e-36	1.00000	2.30809e-36	1.00000
rad8	1.32280e-58	1.00000	1.32280e-58	1.00000

0.100000000E-01 Pa, 250.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.71048e-14 (1.00)	2.71048e-14 (1.00)
Formation of rad19	2.70930e-14 (1.000)	2.70930e-14 (1.000)
H-abstraction to cyc2enyl	1.17991e-17 (0.000435)	1.17991e-17 (0.000435)
H-abstraction to cyclenyl	1.59554e-20 (5.89e-07)	1.59554e-20 (5.89e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999107	0.999107	0.999107	0.999107
Benzene+cycloprop-2-enylidene	0.000435312	0.999543	0.000435312	0.999543
PhCHCCH2+H	0.000431573	0.999974	0.000431573	0.999974
PhCCH+CH3	7.75662e-06	0.999982	7.75662e-06	0.999982
C2H2+PhCH2	6.51199e-06	0.999988	6.51199e-06	0.999988
PhCCCH3+H	4.74349e-06	0.999993	4.74349e-06	0.999993
Ph+MeAc	4.20660e-06	0.999997	4.20660e-06	0.999997
rad67	1.22013e-06	0.999999	1.22013e-06	0.999999
Benzene+cycloprop-1-enylidene	5.88656e-07	0.999999	5.88656e-07	0.999999
Ph+Allene	5.31094e-07	1.000000	5.31094e-07	1.000000
rad35	5.19649e-07	1.000000	5.19649e-07	1.000000
PhCH2CCH+H	8.13565e-08	1.000000	8.13565e-08	1.000000
PAH7+H	5.71353e-08	1.000000	5.71353e-08	1.000000
rad39	1.60792e-08	1.000000	1.60792e-08	1.000000
rad37	1.59129e-08	1.000000	1.59129e-08	1.000000
rad30	1.00421e-08	1.000000	1.00421e-08	1.000000
PAH9+H	8.82899e-10	1.000000	8.82899e-10	1.000000
rad38	4.27815e-10	1.000000	4.27815e-10	1.000000
PAH10+CH3	7.43975e-11	1.000000	7.43975e-11	1.000000
PhcycC3H3_A+H	7.30896e-11	1.000000	7.30896e-11	1.000000
rad60syn	6.48346e-11	1.000000	6.48346e-11	1.000000
PAH3+H	4.28208e-11	1.000000	4.28208e-11	1.000000
rad60anti	3.28008e-11	1.000000	3.28008e-11	1.000000
rad46	2.83617e-11	1.000000	2.83617e-11	1.000000
rad59	8.18879e-12	1.000000	8.18879e-12	1.000000
rad54	2.70380e-12	1.000000	2.70380e-12	1.000000
rad43	2.46582e-12	1.000000	2.46582e-12	1.000000
Phenyl+cycC3H4	1.23952e-12	1.000000	0.000000	1.000000
PhcycC3H3_B+H	1.09005e-12	1.000000	1.09005e-12	1.000000
rad62	5.51382e-13	1.000000	5.51382e-13	1.000000
rad50	3.90388e-13	1.000000	3.90388e-13	1.000000
rad70	8.94677e-14	1.000000	8.94677e-14	1.000000
PAH1+H	4.84149e-14	1.000000	4.84149e-14	1.000000
rad55	3.95541e-14	1.000000	3.95541e-14	1.000000
rad52	4.30904e-15	1.000000	4.30904e-15	1.000000
rad58	3.03838e-15	1.000000	3.03838e-15	1.000000
rad34	2.72774e-15	1.000000	2.72774e-15	1.000000
rad51	2.02926e-15	1.000000	2.02926e-15	1.000000
rad41	7.39547e-16	1.000000	7.39547e-16	1.000000
rad42	4.36023e-16	1.000000	4.36023e-16	1.000000
rad65	5.31323e-17	1.000000	5.31323e-17	1.000000
rad6	4.95965e-17	1.000000	4.95965e-17	1.000000
rad53	1.22669e-17	1.000000	1.22669e-17	1.000000
rad64	3.84801e-18	1.000000	3.84801e-18	1.000000
rad61	1.15682e-18	1.000000	1.15682e-18	1.000000
rad56	9.64939e-20	1.000000	9.64939e-20	1.000000
rad28	4.35456e-20	1.000000	4.35456e-20	1.000000
rad2	3.38666e-20	1.000000	3.38666e-20	1.000000
rad68syn	1.22699e-20	1.000000	1.22699e-20	1.000000
rad68anti	9.17167e-21	1.000000	9.17167e-21	1.000000
rad26	6.15371e-21	1.000000	6.15371e-21	1.000000
rad7	4.19065e-21	1.000000	4.19065e-21	1.000000
rad1	2.40997e-21	1.000000	2.40997e-21	1.000000
rad10	1.84119e-21	1.000000	1.84119e-21	1.000000
rad11	1.06334e-21	1.000000	1.06334e-21	1.000000
rad3	2.23848e-22	1.000000	2.23848e-22	1.000000
rad40syn	1.79819e-22	1.000000	1.79819e-22	1.000000
rad40anti	1.43396e-22	1.000000	1.43396e-22	1.000000
rad4	1.16671e-22	1.000000	1.16671e-22	1.000000
rad9	3.80181e-23	1.000000	3.80181e-23	1.000000
PAH8+H	3.45898e-23	1.000000	3.45898e-23	1.000000
rad13	2.11401e-23	1.000000	2.11401e-23	1.000000

rad73	7.15300e-24	1.00000	7.15300e-24	1.00000
rad19anti	7.33166e-25	1.00000	7.33166e-25	1.00000
rad71	7.13233e-26	1.00000	7.13233e-26	1.00000
rad33	4.08613e-26	1.00000	4.08613e-26	1.00000
rad14	2.29691e-26	1.00000	2.29691e-26	1.00000
rad27	2.03619e-26	1.00000	2.03619e-26	1.00000
rad15	1.70224e-26	1.00000	1.70224e-26	1.00000
rad25	1.43980e-26	1.00000	1.43980e-26	1.00000
rad23	1.02853e-26	1.00000	1.02853e-26	1.00000
rad47	1.18613e-27	1.00000	1.18613e-27	1.00000
rad45	1.11120e-28	1.00000	1.11120e-28	1.00000
rad36	7.04724e-30	1.00000	7.04724e-30	1.00000
rad22	4.85990e-30	1.00000	4.85990e-30	1.00000
rad31	2.63620e-30	1.00000	2.63620e-30	1.00000
rad5	6.58432e-31	1.00000	6.58432e-31	1.00000
rad20	3.57075e-31	1.00000	3.57075e-31	1.00000
rad21	2.76400e-31	1.00000	2.76400e-31	1.00000
rad12	2.14072e-31	1.00000	2.14072e-31	1.00000
rad18	2.60939e-33	1.00000	2.60939e-33	1.00000
rad19syn	1.76219e-33	1.00000	1.76219e-33	1.00000
rad24	1.77216e-36	1.00000	1.77216e-36	1.00000
rad8	2.46430e-58	1.00000	2.46430e-58	1.00000

0.100000000E-01 Pa, 260.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.97464e-14 (1.00)	2.97464e-14 (1.00)
Formation of rad19	2.97293e-14 (0.999)	2.97293e-14 (0.999)
H-abstraction to cyc2enyl	1.70236e-17 (0.000572)	1.70236e-17 (0.000572)
H-abstraction to cyclenyl	3.02186e-20 (1.02e-06)	3.02186e-20 (1.02e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998946	0.998946	0.998946	0.998946
Benzene+cycloprop-2-enylidene	0.000572291	0.999518	0.000572291	0.999518
PhCHCCH2+H	0.000453837	0.999972	0.000453837	0.999972
PhCCH+CH3	8.16475e-06	0.999980	8.16475e-06	0.999980
C2H2+PhCH2	6.95198e-06	0.999987	6.95198e-06	0.999987
PhCCCH3+H	5.02922e-06	0.999992	5.02922e-06	0.999992
Ph+MeAc	4.52038e-06	0.999997	4.52038e-06	0.999997
rad67	1.30782e-06	0.999998	1.30782e-06	0.999998
Benzene+cycloprop-1-enylidene	1.01588e-06	0.999999	1.01588e-06	0.999999
Ph+Allene	5.88244e-07	1.000000	5.88244e-07	1.000000
rad35	5.55442e-07	1.000000	5.55442e-07	1.000000
PhCH2CCH+H	9.16987e-08	1.000000	9.16987e-08	1.000000
PAH7+H	6.22660e-08	1.000000	6.22660e-08	1.000000
rad39	1.75110e-08	1.000000	1.75110e-08	1.000000
rad37	1.74307e-08	1.000000	1.74307e-08	1.000000
rad30	1.07726e-08	1.000000	1.07726e-08	1.000000
PAH9+H	9.70427e-10	1.000000	9.70427e-10	1.000000
rad38	4.76042e-10	1.000000	4.76042e-10	1.000000
PhcycC3H3_A+H	9.76895e-11	1.000000	9.76895e-11	1.000000
PAH10+CH3	8.98918e-11	1.000000	8.98918e-11	1.000000
rad60syn	7.17301e-11	1.000000	7.17301e-11	1.000000
PAH3+H	4.92667e-11	1.000000	4.92667e-11	1.000000
rad60anti	3.63886e-11	1.000000	3.63886e-11	1.000000
rad46	3.17698e-11	1.000000	3.17698e-11	1.000000
rad59	9.35837e-12	1.000000	9.35837e-12	1.000000
rad54	3.26556e-12	1.000000	3.26556e-12	1.000000
rad43	2.89792e-12	1.000000	2.89792e-12	1.000000
Phenyl+cycC3H4	1.79997e-12	1.000000	0.000000	1.000000
PhcycC3H3_B+H	1.72357e-12	1.000000	1.72357e-12	1.000000
rad62	6.47645e-13	1.000000	6.47645e-13	1.000000
rad50	4.63331e-13	1.000000	4.63331e-13	1.000000
rad70	1.13349e-13	1.000000	1.13349e-13	1.000000
PAH1+H	6.48294e-14	1.000000	6.48294e-14	1.000000
rad55	5.00572e-14	1.000000	5.00572e-14	1.000000
rad52	5.32708e-15	1.000000	5.32708e-15	1.000000
rad58	3.93906e-15	1.000000	3.93906e-15	1.000000
rad34	3.66896e-15	1.000000	3.66896e-15	1.000000
rad51	2.62414e-15	1.000000	2.62414e-15	1.000000
rad41	1.01298e-15	1.000000	1.01298e-15	1.000000
rad42	5.81824e-16	1.000000	5.81824e-16	1.000000
rad65	6.97262e-17	1.000000	6.97262e-17	1.000000
rad6	3.97003e-17	1.000000	3.97003e-17	1.000000
rad53	1.97684e-17	1.000000	1.97684e-17	1.000000
rad64	6.46443e-18	1.000000	6.46443e-18	1.000000
rad61	2.22241e-18	1.000000	2.22241e-18	1.000000
rad56	1.96474e-19	1.000000	1.96474e-19	1.000000

rad28	3.48183e-20	1.00000	3.48183e-20	1.00000
rad2	2.72536e-20	1.00000	2.72536e-20	1.00000
rad68syn	2.54594e-20	1.00000	2.54594e-20	1.00000
rad68anti	1.89229e-20	1.00000	1.89229e-20	1.00000
rad26	5.05598e-21	1.00000	5.05598e-21	1.00000
rad7	3.35039e-21	1.00000	3.35039e-21	1.00000
rad1	1.96334e-21	1.00000	1.96334e-21	1.00000
rad10	1.48177e-21	1.00000	1.48177e-21	1.00000
rad11	8.50273e-22	1.00000	8.50273e-22	1.00000
rad40syn	4.46768e-22	1.00000	4.46768e-22	1.00000
rad40anti	3.55542e-22	1.00000	3.55542e-22	1.00000
rad3	1.79953e-22	1.00000	1.79953e-22	1.00000
PAH8+H	9.71737e-23	1.00000	9.71737e-23	1.00000
rad9	9.60141e-23	1.00000	9.60141e-23	1.00000
rad4	9.41170e-23	1.00000	9.41170e-23	1.00000
rad73	1.79326e-23	1.00000	1.79326e-23	1.00000
rad13	1.70003e-23	1.00000	1.70003e-23	1.00000
rad19anti	2.64159e-24	1.00000	2.64159e-24	1.00000
rad71	2.10924e-25	1.00000	2.10924e-25	1.00000
rad15	4.30576e-26	1.00000	4.30576e-26	1.00000
rad33	3.29461e-26	1.00000	3.29461e-26	1.00000
rad14	1.85635e-26	1.00000	1.85635e-26	1.00000
rad27	1.64779e-26	1.00000	1.64779e-26	1.00000
rad25	1.15892e-26	1.00000	1.15892e-26	1.00000
rad23	7.97877e-27	1.00000	7.97877e-27	1.00000
rad47	1.37356e-27	1.00000	1.37356e-27	1.00000
rad45	8.61957e-29	1.00000	8.61957e-29	1.00000
rad36	5.49858e-30	1.00000	5.49858e-30	1.00000
rad31	4.73749e-30	1.00000	4.73749e-30	1.00000
rad22	3.76233e-30	1.00000	3.76233e-30	1.00000
rad5	5.87323e-31	1.00000	5.87323e-31	1.00000
rad12	5.49086e-31	1.00000	5.49086e-31	1.00000
rad20	3.12795e-31	1.00000	3.12795e-31	1.00000
rad21	2.43254e-31	1.00000	2.43254e-31	1.00000
rad19syn	7.46104e-33	1.00000	7.46104e-33	1.00000
rad18	2.22944e-33	1.00000	2.22944e-33	1.00000
rad24	1.40527e-36	1.00000	1.40527e-36	1.00000
rad8	4.69589e-58	1.00000	4.69589e-58	1.00000

0.100000000E-01 Pa, 270.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.24655e-14 (1.00)	3.24655e-14 (1.00)
Formation of rad19	3.24415e-14 (0.999)	3.24415e-14 (0.999)
H-abstraction to cyc2enyl	2.38790e-17 (0.000736)	2.38790e-17 (0.000736)
H-abstraction to cyc1enyl	5.45397e-20 (1.68e-06)	5.45397e-20 (1.68e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998755	0.998755	0.998755	0.998755
Benzene+cycloprop-2-enylidene	0.000735519	0.999491	0.000735519	0.999491
PhCHCCH2+H	0.000478136	0.999969	0.000478136	0.999969
PhCCH+CH3	8.60828e-06	0.999977	8.60828e-06	0.999977
C2H2+PhCH2	7.43856e-06	0.999985	7.43856e-06	0.999985
PhCCCH3+H	5.34276e-06	0.999990	5.34276e-06	0.999990
Ph+MeAc	4.86918e-06	0.999995	4.86918e-06	0.999995
Benzene+cycloprop-1-enylidene	1.67993e-06	0.999997	1.67993e-06	0.999997
rad67	1.40521e-06	0.999998	1.40521e-06	0.999998
Ph+Allene	6.53816e-07	0.999999	6.53816e-07	0.999999
rad35	5.95101e-07	0.999999	5.95101e-07	0.999999
PhCH2CCH+H	1.03762e-07	1.000000	1.03762e-07	1.000000
PAH7+H	6.80575e-08	1.000000	6.80575e-08	1.000000
rad37	1.91533e-08	1.000000	1.91533e-08	1.000000
rad39	1.91245e-08	1.000000	1.91245e-08	1.000000
rad30	1.15866e-08	1.000000	1.15866e-08	1.000000
PAH9+H	1.07045e-09	1.000000	1.07045e-09	1.000000
rad38	5.31903e-10	1.000000	5.31903e-10	1.000000
PhcycC3H3_A+H	1.30537e-10	1.000000	1.30537e-10	1.000000
PAH10+CH3	1.09126e-10	1.000000	1.09126e-10	1.000000
rad60syn	7.96506e-11	1.000000	7.96506e-11	1.000000
PAH3+H	5.69526e-11	1.000000	5.69526e-11	1.000000
rad60anti	4.05206e-11	1.000000	4.05206e-11	1.000000
rad46	3.57378e-11	1.000000	3.57378e-11	1.000000
rad59	1.07434e-11	1.000000	1.07434e-11	1.000000
rad54	3.96279e-12	1.000000	3.96279e-12	1.000000
rad43	3.41945e-12	1.000000	3.41945e-12	1.000000
PhcycC3H3_B+H	2.69150e-12	1.000000	2.69150e-12	1.000000
Phenyl+cycC3H4	2.60320e-12	1.000000	0.000000	1.000000
rad62	7.63412e-13	1.000000	7.63412e-13	1.000000

rad50	5.53080e-13	1.000000	5.53080e-13	1.000000
rad70	1.44220e-13	1.000000	1.44220e-13	1.000000
PAH1+H	8.70221e-14	1.000000	8.70221e-14	1.000000
rad55	6.36094e-14	1.000000	6.36094e-14	1.000000
rad52	6.62632e-15	1.000000	6.62632e-15	1.000000
rad58	5.12890e-15	1.000000	5.12890e-15	1.000000
rad34	4.94708e-15	1.000000	4.94708e-15	1.000000
rad51	3.41381e-15	1.000000	3.41381e-15	1.000000
rad41	1.38720e-15	1.000000	1.38720e-15	1.000000
rad42	7.76437e-16	1.000000	7.76437e-16	1.000000
rad65	9.19939e-17	1.000000	9.19939e-17	1.000000
rad6	3.25133e-17	1.000000	3.25133e-17	1.000000
rad53	3.15309e-17	1.000000	3.15309e-17	1.000000
rad64	1.06951e-17	1.000000	1.06951e-17	1.000000
rad61	4.14923e-18	1.000000	4.14923e-18	1.000000
rad56	3.86571e-19	1.000000	3.86571e-19	1.000000
rad68syn	5.09087e-20	1.000000	5.09087e-20	1.000000
rad68anti	3.76429e-20	1.000000	3.76429e-20	1.000000
rad28	2.84655e-20	1.000000	2.84655e-20	1.000000
rad2	2.26024e-20	1.000000	2.26024e-20	1.000000
rad26	4.32884e-21	1.000000	4.32884e-21	1.000000
rad7	2.74099e-21	1.000000	2.74099e-21	1.000000
rad1	1.64993e-21	1.000000	1.64993e-21	1.000000
rad10	1.22913e-21	1.000000	1.22913e-21	1.000000
rad40syn	1.04535e-21	1.000000	1.04535e-21	1.000000
rad40anti	8.30217e-22	1.000000	8.30217e-22	1.000000
rad11	6.95783e-22	1.000000	6.95783e-22	1.000000
rad9	2.62836e-22	1.000000	2.62836e-22	1.000000
PAH8+H	2.52752e-22	1.000000	2.52752e-22	1.000000
rad3	1.48881e-22	1.000000	1.48881e-22	1.000000
rad4	7.81572e-23	1.000000	7.81572e-23	1.000000
rad73	4.24223e-23	1.000000	4.24223e-23	1.000000
rad13	1.39901e-23	1.000000	1.39901e-23	1.000000
rad19anti	9.69373e-24	1.000000	9.69373e-24	1.000000
rad71	5.73563e-25	1.000000	5.73563e-25	1.000000
rad15	1.18069e-25	1.000000	1.18069e-25	1.000000
rad33	2.71875e-26	1.000000	2.71875e-26	1.000000
rad14	1.54405e-26	1.000000	1.54405e-26	1.000000
rad27	1.37466e-26	1.000000	1.37466e-26	1.000000
rad25	9.54608e-27	1.000000	9.54608e-27	1.000000
rad23	6.43668e-27	1.000000	6.43668e-27	1.000000
rad47	1.61883e-27	1.000000	1.61883e-27	1.000000
rad45	6.95766e-29	1.000000	6.95766e-29	1.000000
rad31	1.15938e-29	1.000000	1.15938e-29	1.000000
rad36	4.46710e-30	1.000000	4.46710e-30	1.000000
rad22	3.02256e-30	1.000000	3.02256e-30	1.000000
rad12	1.52811e-30	1.000000	1.52811e-30	1.000000
rad5	5.25944e-31	1.000000	5.25944e-31	1.000000
rad20	2.81193e-31	1.000000	2.81193e-31	1.000000
rad21	2.19757e-31	1.000000	2.19757e-31	1.000000
rad19syn	3.27847e-32	1.000000	3.27847e-32	1.000000
rad18	1.95458e-33	1.000000	1.95458e-33	1.000000
rad24	1.16160e-36	1.000000	1.16160e-36	1.000000
rad8	9.15840e-58	1.000000	9.15840e-58	1.000000

0.100000000E-01 Pa, 280.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.52572e-14 (1.00)	3.52572e-14 (1.00)
Formation of rad19	3.52244e-14 (0.999)	3.52244e-14 (0.999)
H-abstraction to cyc2enyl	3.26639e-17 (0.000926)	3.26639e-17 (0.000926)
H-abstraction to cyclenyl	9.42926e-20 (2.67e-06)	9.42926e-20 (2.67e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998535	0.998535	0.998535	0.998535
Benzene+cycloprop-2-enylidene	0.000926445	0.999462	0.000926445	0.999462
PhCHCCH2+H	0.000504644	0.999966	0.000504644	0.999966
PhCCH+CH3	9.08987e-06	0.999976	9.08987e-06	0.999976
C2H2+PhCH2	7.97642e-06	0.999984	7.97642e-06	0.999984
PhCCCH3+H	5.68666e-06	0.999989	5.68666e-06	0.999989
Ph+MeAc	5.25678e-06	0.999994	5.25678e-06	0.999994
Benzene+cycloprop-1-enylidene	2.67442e-06	0.999997	2.67442e-06	0.999997
rad67	1.51336e-06	0.999999	1.51336e-06	0.999999
Ph+Allene	7.29079e-07	0.999999	7.29079e-07	0.999999
rad35	6.39031e-07	1.00000	6.39031e-07	1.00000
PhCH2CCH+H	1.17844e-07	1.00000	1.17844e-07	1.00000
PAH7+H	7.45948e-08	1.00000	7.45948e-08	1.00000
rad37	2.11084e-08	1.00000	2.11084e-08	1.00000

rad39	2.09426e-08	1.00000	2.09426e-08	1.00000
rad30	1.24934e-08	1.00000	1.24934e-08	1.00000
PAH9+H	1.18483e-09	1.00000	1.18483e-09	1.00000
rad38	5.96671e-10	1.00000	5.96671e-10	1.00000
PhcycC3H3_A+H	1.74264e-10	1.00000	1.74264e-10	1.00000
PAH10+CH3	1.33020e-10	1.00000	1.33020e-10	1.00000
rad60syn	8.87545e-11	1.00000	8.87545e-11	1.00000
PAH3+H	6.61279e-11	1.00000	6.61279e-11	1.00000
rad60anti	4.52825e-11	1.00000	4.52825e-11	1.00000
rad46	4.03631e-11	1.00000	4.03631e-11	1.00000
rad59	1.23852e-11	1.00000	1.23852e-11	1.00000
rad54	4.82873e-12	1.00000	4.82873e-12	1.00000
PhcycC3H3_B+H	4.15198e-12	1.00000	4.15198e-12	1.00000
rad43	4.04915e-12	1.00000	4.04915e-12	1.00000
Phenyl+cycC3H4	3.74742e-12	1.00000	0.00000	1.00000
rad62	9.02622e-13	1.00000	9.02622e-13	1.00000
rad50	6.63706e-13	1.00000	6.63706e-13	1.00000
rad70	1.84124e-13	1.00000	1.84124e-13	1.00000
PAH1+H	1.16979e-13	1.00000	1.16979e-13	1.00000
rad55	8.10941e-14	1.00000	8.10941e-14	1.00000
rad52	8.28731e-15	1.00000	8.28731e-15	1.00000
rad58	6.70075e-15	1.00000	6.70075e-15	1.00000
rad34	6.67995e-15	1.00000	6.67995e-15	1.00000
rad51	4.46326e-15	1.00000	4.46326e-15	1.00000
rad41	1.89769e-15	1.00000	1.89769e-15	1.00000
rad42	1.03544e-15	1.00000	1.03544e-15	1.00000
rad65	1.21893e-16	1.00000	1.21893e-16	1.00000
rad53	4.97595e-17	1.00000	4.97595e-17	1.00000
rad6	2.74605e-17	1.00000	2.74605e-17	1.00000
rad64	1.74286e-17	1.00000	1.74286e-17	1.00000
rad61	7.53743e-18	1.00000	7.53743e-18	1.00000
rad56	7.36073e-19	1.00000	7.36073e-19	1.00000
rad68syn	9.82844e-20	1.00000	9.82844e-20	1.00000
rad68anti	7.23353e-20	1.00000	7.23353e-20	1.00000
rad28	2.39727e-20	1.00000	2.39727e-20	1.00000
rad2	1.95890e-20	1.00000	1.95890e-20	1.00000
rad26	3.93057e-21	1.00000	3.93057e-21	1.00000
rad7	2.31297e-21	1.00000	2.31297e-21	1.00000
rad40syn	2.31271e-21	1.00000	2.31271e-21	1.00000
rad40anti	1.83324e-21	1.00000	1.83324e-21	1.00000
rad1	1.45037e-21	1.00000	1.45037e-21	1.00000
rad10	1.06560e-21	1.00000	1.06560e-21	1.00000
rad9	7.56670e-22	1.00000	7.56670e-22	1.00000
PAH8+H	6.12375e-22	1.00000	6.12375e-22	1.00000
rad11	5.87309e-22	1.00000	5.87309e-22	1.00000
rad3	1.28377e-22	1.00000	1.28377e-22	1.00000
rad73	9.49832e-23	1.00000	9.49832e-23	1.00000
rad4	6.76648e-23	1.00000	6.76648e-23	1.00000
rad19anti	3.60175e-23	1.00000	3.60175e-23	1.00000
rad13	1.18755e-23	1.00000	1.18755e-23	1.00000
rad71	1.44413e-24	1.00000	1.44413e-24	1.00000
rad15	3.40518e-25	1.00000	3.40518e-25	1.00000
rad33	2.31460e-26	1.00000	2.31460e-26	1.00000
rad14	1.33855e-26	1.00000	1.33855e-26	1.00000
rad27	1.19881e-26	1.00000	1.19881e-26	1.00000
rad25	8.11116e-27	1.00000	8.11116e-27	1.00000
rad23	5.50679e-27	1.00000	5.50679e-27	1.00000
rad47	1.94320e-27	1.00000	1.94320e-27	1.00000
rad45	5.96012e-29	1.00000	5.96012e-29	1.00000
rad31	3.34216e-29	1.00000	3.34216e-29	1.00000
rad12	4.47721e-30	1.00000	4.47721e-30	1.00000
rad36	3.85379e-30	1.00000	3.85379e-30	1.00000
rad22	2.56386e-30	1.00000	2.56386e-30	1.00000
rad5	4.72722e-31	1.00000	4.72722e-31	1.00000
rad20	2.61515e-31	1.00000	2.61515e-31	1.00000
rad21	2.05440e-31	1.00000	2.05440e-31	1.00000
rad19syn	1.48909e-31	1.00000	1.48909e-31	1.00000
rad18	1.77234e-33	1.00000	1.77234e-33	1.00000
rad24	1.02034e-36	1.00000	1.02034e-36	1.00000
rad8	1.82925e-57	1.00000	1.82925e-57	1.00000

0.100000000E-01 Pa, 290.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.81171e-14 (1.00)	3.81171e-14 (1.00)
Formation of rad19	3.80733e-14 (0.999)	3.80733e-14 (0.999)
H-abstraction to cyc2enyl	4.36868e-17 (0.00115)	4.36868e-17 (0.00115)
H-abstraction to cyclenyl	1.56861e-19 (4.12e-06)	1.56861e-19 (4.12e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998282	0.998282	0.998282	0.998282
Benzene+cycloprop-2-enylidene	0.00114612	0.999429	0.00114612	0.999429
PhCHCCH2+H	0.000533542	0.999962	0.000533542	0.999962
PhCCH+CH3	9.61228e-06	0.999972	9.61228e-06	0.999972
C2H2+PhCH2	8.57064e-06	0.999980	8.57064e-06	0.999980
PhCCCH3+H	6.06361e-06	0.999986	6.06361e-06	0.999986
Ph+MeAc	5.68730e-06	0.999992	5.68730e-06	0.999992
Benzene+cycloprop-1-enylidene	4.11523e-06	0.999996	4.11523e-06	0.999996
rad67	1.63342e-06	0.999998	1.63342e-06	0.999998
Ph+Allene	8.15472e-07	0.999999	8.15472e-07	0.999999
rad35	6.87674e-07	0.999999	6.87674e-07	0.999999
PhCH2CCH+H	1.34283e-07	0.999999	1.34283e-07	0.999999
PAH7+H	8.19725e-08	0.999999	8.19725e-08	0.999999
rad37	2.33275e-08	1.000000	2.33275e-08	1.000000
rad39	2.29907e-08	1.000000	2.29907e-08	1.000000
rad30	1.35037e-08	1.000000	1.35037e-08	1.000000
PAH9+H	1.31569e-09	1.000000	1.31569e-09	1.000000
rad38	6.71823e-10	1.000000	6.71823e-10	1.000000
PhcycC3H3_A+H	2.32248e-10	1.000000	2.32248e-10	1.000000
PAH10+CH3	1.62707e-10	1.000000	1.62707e-10	1.000000
rad60syn	9.92224e-11	1.000000	9.92224e-11	1.000000
PAH3+H	7.70899e-11	1.000000	7.70899e-11	1.000000
rad60anti	5.07726e-11	1.000000	5.07726e-11	1.000000
rad46	4.57582e-11	1.000000	4.57582e-11	1.000000
rad59	1.43327e-11	1.000000	1.43327e-11	1.000000
PhcycC3H3_B+H	6.32701e-12	1.000000	6.32701e-12	1.000000
rad54	5.90422e-12	1.000000	5.90422e-12	1.000000
Phenyl+cycC3H4	5.36584e-12	1.000000	0.000000	1.000000
rad43	4.80936e-12	1.000000	4.80936e-12	1.000000
rad62	1.06993e-12	1.000000	1.06993e-12	1.000000
rad50	8.00223e-13	1.000000	8.00223e-13	1.000000
rad70	2.35660e-13	1.000000	2.35660e-13	1.000000
PAH1+H	1.57308e-13	1.000000	1.57308e-13	1.000000
rad55	1.03631e-13	1.000000	1.03631e-13	1.000000
rad52	1.04125e-14	1.000000	1.04125e-14	1.000000
rad34	9.02282e-15	1.000000	9.02282e-15	1.000000
rad58	8.77507e-15	1.000000	8.77507e-15	1.000000
rad51	5.85790e-15	1.000000	5.85790e-15	1.000000
rad41	2.59110e-15	1.000000	2.59110e-15	1.000000
rad42	1.37881e-15	1.000000	1.37881e-15	1.000000
rad65	1.62011e-16	1.000000	1.62011e-16	1.000000
rad53	7.76444e-17	1.000000	7.76444e-17	1.000000
rad64	2.79685e-17	1.000000	2.79685e-17	1.000000
rad6	2.41944e-17	1.000000	2.41944e-17	1.000000
rad61	1.33314e-17	1.000000	1.33314e-17	1.000000
rad56	1.35765e-18	1.000000	1.35765e-18	1.000000
rad68syn	1.83430e-19	1.000000	1.83430e-19	1.000000
rad68anti	1.34442e-19	1.000000	1.34442e-19	1.000000
rad28	2.10212e-20	1.000000	2.10212e-20	1.000000
rad2	1.81165e-20	1.000000	1.81165e-20	1.000000
rad40syn	4.85468e-21	1.000000	4.85468e-21	1.000000
rad26	3.86605e-21	1.000000	3.86605e-21	1.000000
rad40anti	3.84137e-21	1.000000	3.84137e-21	1.000000
rad9	2.24928e-21	1.000000	2.24928e-21	1.000000
rad7	2.03641e-21	1.000000	2.03641e-21	1.000000
PAH8+H	1.38956e-21	1.000000	1.38956e-21	1.000000
rad1	1.36187e-21	1.000000	1.36187e-21	1.000000
rad10	9.85943e-22	1.000000	9.85943e-22	1.000000
rad11	5.17270e-22	1.000000	5.17270e-22	1.000000
rad73	2.01830e-22	1.000000	2.01830e-22	1.000000
rad19anti	1.34645e-22	1.000000	1.34645e-22	1.000000
rad3	1.17593e-22	1.000000	1.17593e-22	1.000000
rad4	6.22486e-23	1.000000	6.22486e-23	1.000000
rad13	1.05180e-23	1.000000	1.05180e-23	1.000000
rad71	3.38779e-24	1.000000	3.38779e-24	1.000000
rad15	1.01417e-24	1.000000	1.01417e-24	1.000000
rad33	2.05640e-26	1.000000	2.05640e-26	1.000000
rad14	1.23240e-26	1.000000	1.23240e-26	1.000000
rad27	1.11594e-26	1.000000	1.11594e-26	1.000000
rad25	7.19130e-27	1.000000	7.19130e-27	1.000000
rad23	5.23528e-27	1.000000	5.23528e-27	1.000000
rad47	2.37746e-27	1.000000	2.37746e-27	1.000000
rad31	1.03460e-28	1.000000	1.03460e-28	1.000000
rad45	5.67832e-29	1.000000	5.67832e-29	1.000000
rad12	1.35604e-29	1.000000	1.35604e-29	1.000000
rad36	3.69998e-30	1.000000	3.69998e-30	1.000000
rad22	2.39133e-30	1.000000	2.39133e-30	1.000000
rad19syn	6.95957e-31	1.000000	6.95957e-31	1.000000

rad5	4.26405e-31	1.000000	4.26405e-31	1.000000
rad20	2.54545e-31	1.000000	2.54545e-31	1.000000
rad21	2.01062e-31	1.000000	2.01062e-31	1.000000
rad18	1.68130e-33	1.000000	1.68130e-33	1.000000
rad24	9.95730e-37	1.000000	9.95730e-37	1.000000
rad8	3.74435e-57	1.000000	3.74435e-57	1.000000

0.100000000E-01 Pa, 300.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.34809e-14 (1.00)	5.34809e-14 (1.00)
Formation of rad19	5.34010e-14 (0.999)	5.34010e-14 (0.999)
H-abstraction to cyc2enyl	7.95823e-17 (0.00149)	7.95823e-17 (0.00149)
H-abstraction to cyclenyl	3.44981e-19 (6.45e-06)	3.44981e-19 (6.45e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997939	0.997939	0.997939	0.997939
Benzene+cycloprop-2-enylidene	0.00148805	0.999427	0.00148805	0.999427
PhCHCCH2+H	0.000529808	0.999957	0.000529808	0.999957
PhCCH+CH3	1.04611e-05	0.999968	1.04611e-05	0.999968
C2H2+PhCH2	9.96171e-06	0.999978	9.96171e-06	0.999978
Benzene+cycloprop-1-enylidene	6.45054e-06	0.999984	6.45054e-06	0.999984
PhCCCH3+H	6.36709e-06	0.999990	6.36709e-06	0.999990
Ph+MeAc	5.99813e-06	0.999996	5.99813e-06	0.999996
rad67	1.76907e-06	0.999998	1.76907e-06	0.999998
Ph+Allene	8.18732e-07	0.999999	8.18732e-07	0.999999
rad35	7.31798e-07	1.000000	7.31798e-07	1.000000
PhCH2CCH+H	1.62417e-07	1.000000	1.62417e-07	1.000000
PAH7+H	1.00637e-07	1.000000	1.00637e-07	1.000000
rad37	2.83199e-08	1.000000	2.83199e-08	1.000000
rad39	2.48277e-08	1.000000	2.48277e-08	1.000000
rad30	1.39394e-08	1.000000	1.39394e-08	1.000000
PAH9+H	1.67863e-09	1.000000	1.67863e-09	1.000000
rad38	7.72523e-10	1.000000	7.72523e-10	1.000000
PhcycC3H3_A+H	3.25289e-10	1.000000	3.25289e-10	1.000000
PAH10+CH3	2.37260e-10	1.000000	2.37260e-10	1.000000
rad60syn	1.06830e-10	1.000000	1.06830e-10	1.000000
PAH3+H	9.84678e-11	1.000000	9.84678e-11	1.000000
rad60anti	5.51552e-11	1.000000	5.51552e-11	1.000000
rad46	5.45512e-11	1.000000	5.45512e-11	1.000000
rad59	1.67252e-11	1.000000	1.67252e-11	1.000000
PhcycC3H3_B+H	1.05896e-11	1.000000	1.05896e-11	1.000000
Phenyl+cycC3H4	8.20984e-12	1.000000	0.000000	1.000000
rad54	7.66481e-12	1.000000	7.66481e-12	1.000000
rad43	5.65539e-12	1.000000	5.65539e-12	1.000000
rad62	1.25261e-12	1.000000	1.25261e-12	1.000000
rad50	1.03288e-12	1.000000	1.03288e-12	1.000000
rad70	3.13300e-13	1.000000	3.13300e-13	1.000000
PAH1+H	1.93736e-13	1.000000	1.93736e-13	1.000000
rad55	1.33795e-13	1.000000	1.33795e-13	1.000000
rad52	1.45686e-14	1.000000	1.45686e-14	1.000000
rad34	1.28491e-14	1.000000	1.28491e-14	1.000000
rad58	1.11202e-14	1.000000	1.11202e-14	1.000000
rad51	8.23783e-15	1.000000	8.23783e-15	1.000000
rad6	4.43647e-15	1.000000	4.43647e-15	1.000000
rad41	3.58180e-15	1.000000	3.58180e-15	1.000000
rad42	1.81911e-15	1.000000	1.81911e-15	1.000000
rad65	2.32603e-16	1.000000	2.32603e-16	1.000000
rad53	1.29467e-16	1.000000	1.29467e-16	1.000000
rad64	4.98930e-17	1.000000	4.98930e-17	1.000000
rad61	2.74866e-17	1.000000	2.74866e-17	1.000000
rad9	1.16397e-17	1.000000	1.16397e-17	1.000000
rad2	5.27481e-18	1.000000	5.27481e-18	1.000000
rad28	3.88646e-18	1.000000	3.88646e-18	1.000000
rad56	3.01523e-18	1.000000	3.01523e-18	1.000000
rad19anti	1.46925e-18	1.000000	1.46925e-18	1.000000
rad26	1.00746e-18	1.000000	1.00746e-18	1.000000
rad7	4.10235e-19	1.000000	4.10235e-19	1.000000
rad1	3.97478e-19	1.000000	3.97478e-19	1.000000
rad68syn	3.96648e-19	1.000000	3.96648e-19	1.000000
rad10	2.95351e-19	1.000000	2.95351e-19	1.000000
rad68anti	2.85691e-19	1.000000	2.85691e-19	1.000000
rad11	1.02192e-19	1.000000	1.02192e-19	1.000000
rad3	3.39887e-20	1.000000	3.39887e-20	1.000000
rad4	1.69027e-20	1.000000	1.69027e-20	1.000000
rad40syn	1.34592e-20	1.000000	1.34592e-20	1.000000
rad40anti	1.02812e-20	1.000000	1.02812e-20	1.000000
rad15	6.78058e-21	1.000000	6.78058e-21	1.000000

PAH8+H	5.53990e-21	1.00000	5.53990e-21	1.00000
rad13	2.27241e-21	1.00000	2.27241e-21	1.00000
rad23	8.56096e-22	1.00000	8.56096e-22	1.00000
rad73	6.54879e-22	1.00000	6.54879e-22	1.00000
rad71	2.13421e-23	1.00000	2.13421e-23	1.00000
rad45	1.16993e-23	1.00000	1.16993e-23	1.00000
rad33	5.45380e-24	1.00000	5.45380e-24	1.00000
rad27	4.37501e-24	1.00000	4.37501e-24	1.00000
rad14	3.97976e-24	1.00000	3.97976e-24	1.00000
rad25	2.08522e-24	1.00000	2.08522e-24	1.00000
rad31	9.70225e-25	1.00000	9.70225e-25	1.00000
rad36	3.98746e-25	1.00000	3.98746e-25	1.00000
rad22	3.33406e-25	1.00000	3.33406e-25	1.00000
rad12	1.21895e-25	1.00000	1.21895e-25	1.00000
rad19syn	1.12386e-25	1.00000	1.12386e-25	1.00000
rad5	2.68890e-26	1.00000	2.68890e-26	1.00000
rad47	1.77240e-26	1.00000	1.77240e-26	1.00000
rad21	1.67176e-27	1.00000	1.67176e-27	1.00000
rad20	1.59727e-27	1.00000	1.59727e-27	1.00000
rad18	5.36992e-29	1.00000	5.36992e-29	1.00000
rad72	4.67286e-30	1.00000	4.67286e-30	1.00000
rad24	2.26577e-31	1.00000	2.26577e-31	1.00000
rad8	3.04477e-43	1.00000	3.04477e-43	1.00000

0.100000000E-01 Pa, 310.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.92544e-14 (1.00)	5.92544e-14 (1.00)
Formation of rad19	5.91462e-14 (0.998)	5.91462e-14 (0.998)
H-abstraction to cyc2enyl	1.07628e-16 (0.00182)	1.07628e-16 (0.00182)
H-abstraction to cyclenyl	5.62537e-19 (9.49e-06)	5.62537e-19 (9.49e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997536	0.997536	0.997536	0.997536
Benzene+cycloprop-2-enylidene	0.00181637	0.999353	0.00181637	0.999353
PhCHCCH2+H	0.000599203	0.999952	0.000599203	0.999952
PhCCH+CH3	1.07895e-05	0.999963	1.07895e-05	0.999963
C2H2+PhCH2	9.94873e-06	0.999973	9.94873e-06	0.999973
Benzene+cycloprop-1-enylidene	9.49359e-06	0.999982	9.49359e-06	0.999982
PhCCCH3+H	6.92715e-06	0.999989	6.92715e-06	0.999989
Ph+MeAc	6.69418e-06	0.999996	6.69418e-06	0.999996
rad67	1.91401e-06	0.999998	1.91401e-06	0.999998
Ph+Allene	1.02818e-06	0.999999	1.02818e-06	0.999999
rad35	8.00924e-07	0.999999	8.00924e-07	0.999999
PhCH2CCH+H	1.75830e-07	1.000000	1.75830e-07	1.000000
PAH7+H	9.96594e-08	1.000000	9.96594e-08	1.000000
rad37	2.86975e-08	1.000000	2.86975e-08	1.000000
rad39	2.78855e-08	1.000000	2.78855e-08	1.000000
rad30	1.58788e-08	1.000000	1.58788e-08	1.000000
PAH9+H	1.63647e-09	1.000000	1.63647e-09	1.000000
rad38	8.60173e-10	1.000000	8.60173e-10	1.000000
PhcycC3H3_A+H	4.09101e-10	1.000000	4.09101e-10	1.000000
PAH10+CH3	2.45210e-10	1.000000	2.45210e-10	1.000000
rad60syn	1.25079e-10	1.000000	1.25079e-10	1.000000
PAH3+H	1.05822e-10	1.000000	1.05822e-10	1.000000
rad60anti	6.43905e-11	1.000000	6.43905e-11	1.000000
rad46	5.93901e-11	1.000000	5.93901e-11	1.000000
rad59	1.93806e-11	1.000000	1.93806e-11	1.000000
PhcycC3H3_B+H	1.41415e-11	1.000000	1.41415e-11	1.000000
Phenyl+cycC3H4	1.07882e-11	1.000000	0.000000	1.000000
rad54	8.89111e-12	1.000000	8.89111e-12	1.000000
rad43	6.83040e-12	1.000000	6.83040e-12	1.000000
rad62	1.51134e-12	1.000000	1.51134e-12	1.000000
rad50	1.17654e-12	1.000000	1.17654e-12	1.000000
rad70	3.87383e-13	1.000000	3.87383e-13	1.000000
PAH1+H	2.83447e-13	1.000000	2.83447e-13	1.000000
rad55	1.69762e-13	1.000000	1.69762e-13	1.000000
rad52	1.66001e-14	1.000000	1.66001e-14	1.000000
rad34	1.63986e-14	1.000000	1.63986e-14	1.000000
rad58	1.50863e-14	1.000000	1.50863e-14	1.000000
rad51	1.01547e-14	1.000000	1.01547e-14	1.000000
rad41	4.78417e-15	1.000000	4.78417e-15	1.000000
rad42	2.42592e-15	1.000000	2.42592e-15	1.000000
rad65	2.87310e-16	1.000000	2.87310e-16	1.000000
rad53	1.82060e-16	1.000000	1.82060e-16	1.000000
rad64	6.86273e-17	1.000000	6.86273e-17	1.000000
rad61	3.85247e-17	1.000000	3.85247e-17	1.000000
rad6	2.26222e-17	1.000000	2.26222e-17	1.000000

rad56	4.20686e-18	1.000000	4.20686e-18	1.000000
rad68syn	5.79051e-19	1.000000	5.79051e-19	1.000000
rad68anti	4.21505e-19	1.000000	4.21505e-19	1.000000
rad9	2.09457e-20	1.000000	2.09457e-20	1.000000
rad2	2.08932e-20	1.000000	2.08932e-20	1.000000
rad28	1.92793e-20	1.000000	1.92793e-20	1.000000
rad40syn	1.84900e-20	1.000000	1.84900e-20	1.000000
rad40anti	1.45858e-20	1.000000	1.45858e-20	1.000000
PAH8+H	5.99081e-21	1.000000	5.99081e-21	1.000000
rad26	5.06723e-21	1.000000	5.06723e-21	1.000000
rad7	1.90224e-21	1.000000	1.90224e-21	1.000000
rad19anti	1.86518e-21	1.000000	1.86518e-21	1.000000
rad1	1.62403e-21	1.000000	1.62403e-21	1.000000
rad10	1.13842e-21	1.000000	1.13842e-21	1.000000
rad73	7.86869e-22	1.000000	7.86869e-22	1.000000
rad11	4.83622e-22	1.000000	4.83622e-22	1.000000
rad3	1.30461e-22	1.000000	1.30461e-22	1.000000
rad4	6.97232e-23	1.000000	6.97232e-23	1.000000
rad71	1.54146e-23	1.000000	1.54146e-23	1.000000
rad13	9.94499e-24	1.000000	9.94499e-24	1.000000
rad15	9.48376e-24	1.000000	9.48376e-24	1.000000
rad33	1.95762e-26	1.000000	1.95762e-26	1.000000
rad14	1.37562e-26	1.000000	1.37562e-26	1.000000
rad27	1.30388e-26	1.000000	1.30388e-26	1.000000
rad23	1.03795e-26	1.000000	1.03795e-26	1.000000
rad25	6.81317e-27	1.000000	6.81317e-27	1.000000
rad47	3.77720e-27	1.000000	3.77720e-27	1.000000
rad31	1.07521e-27	1.000000	1.07521e-27	1.000000
rad12	1.31593e-28	1.000000	1.31593e-28	1.000000
rad45	1.13542e-28	1.000000	1.13542e-28	1.000000
rad19syn	1.62279e-29	1.000000	1.62279e-29	1.000000
rad36	7.52794e-30	1.000000	7.52794e-30	1.000000
rad22	4.25347e-30	1.000000	4.25347e-30	1.000000
rad5	3.50616e-31	1.000000	3.50616e-31	1.000000
rad20	2.93460e-31	1.000000	2.93460e-31	1.000000
rad21	2.34573e-31	1.000000	2.34573e-31	1.000000
rad18	1.83801e-33	1.000000	1.83801e-33	1.000000
rad24	2.02310e-36	1.000000	2.02310e-36	1.000000
rad8	1.69330e-56	1.000000	1.69330e-56	1.000000

0.100000000E-01 Pa, 400.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.29463e-13 (1.00)	1.29463e-13 (1.00)
Formation of rad19	1.28526e-13 (0.993)	1.28526e-13 (0.993)
H-abstraction to cyc2enyl	9.19357e-16 (0.00710)	9.19357e-16 (0.00710)
H-abstraction to cyclenyl	1.69485e-17 (0.000131)	1.69485e-17 (0.000131)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.991683	0.991683	0.991683	0.991683
Benzene+cycloprop-2-enylidene	0.00710133	0.998784	0.00710133	0.998784
PhCHCCH2+H	0.00100585	0.999790	0.00100585	0.999790
Benzene+cycloprop-1-enylidene	0.000130914	0.999921	0.000130914	0.999921
C2H2+PhCH2	2.22462e-05	0.999943	2.22462e-05	0.999943
PhCCH+CH3	1.95095e-05	0.999963	1.95095e-05	0.999963
Ph+MeAc	1.45178e-05	0.999977	1.45178e-05	0.999977
PhCCCH3+H	1.31951e-05	0.999990	1.31951e-05	0.999990
rad67	4.22165e-06	0.999994	4.22165e-06	0.999994
Ph+Allene	2.97365e-06	0.999997	2.97365e-06	0.999997
rad35	1.68908e-06	0.999999	1.68908e-06	0.999999
PhCH2CCH+H	6.92990e-07	1.000000	6.92990e-07	1.000000
PAH7+H	2.89732e-07	1.000000	2.89732e-07	1.000000
rad37	8.82199e-08	1.000000	8.82199e-08	1.000000
rad39	7.05126e-08	1.000000	7.05126e-08	1.000000
rad30	3.41243e-08	1.000000	3.41243e-08	1.000000
PAH9+H	5.67036e-09	1.000000	5.67036e-09	1.000000
PhcycC3H3_A+H	4.88900e-09	1.000000	4.88900e-09	1.000000
rad38	3.07423e-09	1.000000	3.07423e-09	1.000000
PAH10+CH3	1.94149e-09	1.000000	1.94149e-09	1.000000
PAH3+H	5.34444e-10	1.000000	5.34444e-10	1.000000
PhcycC3H3_B+H	4.15151e-10	1.000000	4.15151e-10	1.000000
rad60syn	3.79126e-10	1.000000	3.79126e-10	1.000000
rad46	2.31276e-10	1.000000	2.31276e-10	1.000000
Phenyl+cycC3H4	2.22328e-10	1.000000	0.000000	1.000000
rad60anti	2.01848e-10	1.000000	2.01848e-10	1.000000
rad59	8.49292e-11	1.000000	8.49292e-11	1.000000
rad54	6.39645e-11	1.000000	6.39645e-11	1.000000
rad43	3.46931e-11	1.000000	3.46931e-11	1.000000

rad50	8.28626e-12	1.00000	8.28626e-12	1.00000
rad62	7.28442e-12	1.00000	7.28442e-12	1.00000
rad70	3.85302e-12	1.00000	3.85302e-12	1.00000
PAH1+H	3.60985e-12	1.00000	3.60985e-12	1.00000
rad55	1.60041e-12	1.00000	1.60041e-12	1.00000
rad34	2.43938e-13	1.00000	2.43938e-13	1.00000
rad52	1.72568e-13	1.00000	1.72568e-13	1.00000
rad58	1.69180e-13	1.00000	1.69180e-13	1.00000
rad51	1.42859e-13	1.00000	1.42859e-13	1.00000
rad41	6.83261e-14	1.00000	6.83261e-14	1.00000
rad42	2.71727e-14	1.00000	2.71727e-14	1.00000
rad9	2.61173e-14	1.00000	2.61173e-14	1.00000
rad6	1.28607e-14	1.00000	1.28607e-14	1.00000
rad53	6.87992e-15	1.00000	6.87992e-15	1.00000
rad19anti	4.76813e-15	1.00000	4.76813e-15	1.00000
rad65	4.39158e-15	1.00000	4.39158e-15	1.00000
rad61	3.43040e-15	1.00000	3.43040e-15	1.00000
rad64	3.05822e-15	1.00000	3.05822e-15	1.00000
rad56	5.30916e-16	1.00000	5.30916e-16	1.00000
rad2	3.58982e-16	1.00000	3.58982e-16	1.00000
rad68syn	7.48236e-17	1.00000	7.48236e-17	1.00000
rad68anti	5.24829e-17	1.00000	5.24829e-17	1.00000
rad1	3.34082e-17	1.00000	3.34082e-17	1.00000
rad23	2.73546e-17	1.00000	2.73546e-17	1.00000
rad26	2.27390e-17	1.00000	2.27390e-17	1.00000
rad10	2.04289e-17	1.00000	2.04289e-17	1.00000
rad15	1.61590e-17	1.00000	1.61590e-17	1.00000
rad28	7.91793e-18	1.00000	7.91793e-18	1.00000
rad40syn	6.39134e-18	1.00000	6.39134e-18	1.00000
PAH8+H	5.94556e-18	1.00000	5.94556e-18	1.00000
rad40anti	4.74375e-18	1.00000	4.74375e-18	1.00000
rad3	2.47713e-18	1.00000	2.47713e-18	1.00000
rad4	1.30459e-18	1.00000	1.30459e-18	1.00000
rad7	1.23418e-18	1.00000	1.23418e-18	1.00000
rad45	1.08318e-18	1.00000	1.08318e-18	1.00000
rad73	4.85704e-19	1.00000	4.85704e-19	1.00000
rad11	3.13944e-19	1.00000	3.13944e-19	1.00000
rad71	4.97401e-20	1.00000	4.97401e-20	1.00000
rad36	4.15553e-20	1.00000	4.15553e-20	1.00000
rad19syn	2.04434e-20	1.00000	2.04434e-20	1.00000
rad22	7.51789e-21	1.00000	7.51789e-21	1.00000
rad13	7.35120e-21	1.00000	7.35120e-21	1.00000
rad31	5.03912e-21	1.00000	5.03912e-21	1.00000
rad12	4.44611e-22	1.00000	4.44611e-22	1.00000
rad27	2.79894e-22	1.00000	2.79894e-22	1.00000
rad14	1.66912e-22	1.00000	1.66912e-22	1.00000
rad33	1.93160e-23	1.00000	1.93160e-23	1.00000
rad25	6.73943e-24	1.00000	6.73943e-24	1.00000
rad47	7.65130e-25	1.00000	7.65130e-25	1.00000
rad72	7.35617e-25	1.00000	7.35617e-25	1.00000
rad21	2.16599e-26	1.00000	2.16599e-26	1.00000
rad20	1.95533e-26	1.00000	1.95533e-26	1.00000
rad5	1.53994e-26	1.00000	1.53994e-26	1.00000
rad24	8.03432e-27	1.00000	8.03432e-27	1.00000
rad18	4.79642e-28	1.00000	4.79642e-28	1.00000
rad8	6.65445e-40	1.00000	6.65445e-40	1.00000

0.100000000E-01 Pa, 500.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.52837e-13 (1.00)	2.52837e-13 (1.00)
Formation of rad19	2.47941e-13 (0.981)	2.47941e-13 (0.981)
H-abstraction to cyc2enyl	4.69058e-15 (0.0186)	4.69058e-15 (0.0186)
H-abstraction to cyc1enyl	2.05381e-16 (0.000812)	2.05381e-16 (0.000812)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.978428	0.978428	0.978428	0.978428
Benzene+cycloprop-2-enylidene	0.0185518	0.996979	0.0185518	0.996979
PhCHCCH2+H	0.00202476	0.999004	0.00202476	0.999004
Benzene+cycloprop-1-enylidene	0.000812306	0.999816	0.000812306	0.999816
C2H2+PhCH2	5.13360e-05	0.999868	5.13360e-05	0.999868
PhCCH+CH3	3.71181e-05	0.999905	3.71181e-05	0.999905
Ph+MeAc	3.63101e-05	0.999941	3.63101e-05	0.999941
PhCCCH3+H	2.84449e-05	0.999970	2.84449e-05	0.999970
Ph+Allene	1.09467e-05	0.999981	1.09467e-05	0.999981
rad67	1.05822e-05	0.999991	1.05822e-05	0.999991
rad35	4.10935e-06	0.999995	4.10935e-06	0.999995
PhCH2CCH+H	2.95386e-06	0.999998	2.95386e-06	0.999998

PAH7+H	8.51544e-07	0.999999	8.51544e-07	0.999999
rad37	2.86678e-07	0.999999	2.86678e-07	0.999999
rad39	2.02113e-07	1.000000	2.02113e-07	1.000000
rad30	8.94922e-08	1.000000	8.94922e-08	1.000000
PhcycC3H3_A+H	5.02850e-08	1.000000	5.02850e-08	1.000000
PAH9+H	2.06877e-08	1.000000	2.06877e-08	1.000000
PAH10+CH3	1.44052e-08	1.000000	1.44052e-08	1.000000
rad38	1.31833e-08	1.000000	1.31833e-08	1.000000
PhcycC3H3_B+H	7.81108e-09	1.000000	7.81108e-09	1.000000
Phenyl+cycC3H4	3.55660e-09	1.000000	0.00000	1.000000
PAH3+H	2.97650e-09	1.000000	2.97650e-09	1.000000
rad60syn	1.43183e-09	1.000000	1.43183e-09	1.000000
rad46	1.04912e-09	1.000000	1.04912e-09	1.000000
rad60anti	7.84373e-10	1.000000	7.84373e-10	1.000000
rad54	4.68681e-10	1.000000	4.68681e-10	1.000000
rad59	4.42103e-10	1.000000	4.42103e-10	1.000000
rad43	1.96279e-10	1.000000	1.96279e-10	1.000000
rad50	6.65686e-11	1.000000	6.65686e-11	1.000000
PAH1+H	4.68907e-11	1.000000	4.68907e-11	1.000000
rad62	3.77643e-11	1.000000	3.77643e-11	1.000000
rad70	3.76449e-11	1.000000	3.76449e-11	1.000000
rad55	1.50992e-11	1.000000	1.50992e-11	1.000000
rad34	3.22089e-12	1.000000	3.22089e-12	1.000000
rad9	3.00470e-12	1.000000	3.00470e-12	1.000000
rad51	2.08201e-12	1.000000	2.08201e-12	1.000000
rad58	2.05093e-12	1.000000	2.05093e-12	1.000000
rad52	1.88541e-12	1.000000	1.88541e-12	1.000000
rad41	8.63976e-13	1.000000	8.63976e-13	1.000000
rad19anti	6.68082e-13	1.000000	6.68082e-13	1.000000
rad6	3.04778e-13	1.000000	3.04778e-13	1.000000
rad42	2.74849e-13	1.000000	2.74849e-13	1.000000
rad53	1.70506e-13	1.000000	1.70506e-13	1.000000
rad61	1.40670e-13	1.000000	1.40670e-13	1.000000
rad64	7.73130e-14	1.000000	7.73130e-14	1.000000
rad65	6.64236e-14	1.000000	6.64236e-14	1.000000
rad2	3.51562e-14	1.000000	3.51562e-14	1.000000
rad23	3.51205e-14	1.000000	3.51205e-14	1.000000
rad56	2.62116e-14	1.000000	2.62116e-14	1.000000
rad1	4.20400e-15	1.000000	4.20400e-15	1.000000
rad45	4.07693e-15	1.000000	4.07693e-15	1.000000
rad68syn	3.88263e-15	1.000000	3.88263e-15	1.000000
rad68anti	2.67416e-15	1.000000	2.67416e-15	1.000000
rad15	2.00658e-15	1.000000	2.00658e-15	1.000000
rad10	1.67553e-15	1.000000	1.67553e-15	1.000000
rad26	8.60644e-16	1.000000	8.60644e-16	1.000000
PAH8+H	8.47655e-16	1.000000	8.47655e-16	1.000000
rad40syn	5.55808e-16	1.000000	5.55808e-16	1.000000
rad40anti	4.06591e-16	1.000000	4.06591e-16	1.000000
rad3	3.71082e-16	1.000000	3.71082e-16	1.000000
rad4	2.10180e-16	1.000000	2.10180e-16	1.000000
rad36	2.06240e-16	1.000000	2.06240e-16	1.000000
rad19syn	1.45990e-16	1.000000	1.45990e-16	1.000000
rad28	1.27950e-16	1.000000	1.27950e-16	1.000000
rad73	6.84594e-17	1.000000	6.84594e-17	1.000000
rad7	3.11273e-17	1.000000	3.11273e-17	1.000000
rad71	1.36592e-17	1.000000	1.36592e-17	1.000000
rad11	8.19784e-18	1.000000	8.19784e-18	1.000000
rad22	6.44782e-18	1.000000	6.44782e-18	1.000000
rad31	1.77661e-18	1.000000	1.77661e-18	1.000000
rad13	2.07310e-19	1.000000	2.07310e-19	1.000000
rad12	1.48468e-19	1.000000	1.48468e-19	1.000000
rad27	2.23879e-20	1.000000	2.23879e-20	1.000000
rad14	1.11031e-20	1.000000	1.11031e-20	1.000000
rad72	3.02855e-21	1.000000	3.02855e-21	1.000000
rad33	6.40438e-22	1.000000	6.40438e-22	1.000000
rad25	1.79105e-22	1.000000	1.79105e-22	1.000000
rad47	5.02579e-23	1.000000	5.02579e-23	1.000000
rad24	1.14169e-23	1.000000	1.14169e-23	1.000000
rad21	4.17186e-24	1.000000	4.17186e-24	1.000000
rad20	3.80400e-24	1.000000	3.80400e-24	1.000000
rad18	7.73302e-26	1.000000	7.73302e-26	1.000000
rad5	1.18964e-26	1.000000	1.18964e-26	1.000000
rad8	1.56356e-35	1.000000	1.56356e-35	1.000000

0.100000000E-01 Pa, 600.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.35570e-13 (1.00)	4.35570e-13 (1.00)
Formation of rad19	4.18892e-13 (0.962)	4.18892e-13 (0.962)

H-abstraction to cyc2enyl | 1.54751e-14 (0.0355) 1.54751e-14 (0.0355)
H-abstraction to cyc1enyl | 1.20343e-15 (0.00276) 1.20343e-15 (0.00276)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.957276	0.957276	0.957276	0.957276
Benzene+cycloprop-2-enylidene	0.0355285	0.992805	0.0355285	0.992805
PhCHCCH2+H	0.00402172	0.996826	0.00402172	0.996826
Benzene+cycloprop-1-enylidene	0.00276289	0.999589	0.00276289	0.999589
C2H2+PhCH2	0.000111945	0.999701	0.000111945	0.999701
Ph+MeAc	8.57421e-05	0.999787	8.57421e-05	0.999787
PhCCH+CH3	6.75064e-05	0.999854	6.75064e-05	0.999854
PhCCCH3+H	5.90383e-05	0.999913	5.90383e-05	0.999913
Ph+Allene	3.56627e-05	0.999949	3.56627e-05	0.999949
rad67	2.54030e-05	0.999975	2.54030e-05	0.999975
PhCH2CCH+H	1.09199e-05	0.999985	1.09199e-05	0.999985
rad35	9.63305e-06	0.999995	9.63305e-06	0.999995
PAH7+H	2.26705e-06	0.999997	2.26705e-06	0.999997
rad37	8.64906e-07	0.999998	8.64906e-07	0.999998
rad39	5.20246e-07	0.999999	5.20246e-07	0.999999
PhcycC3H3_A+H	3.56531e-07	0.999999	3.56531e-07	0.999999
rad30	2.27441e-07	0.999999	2.27441e-07	0.999999
PAH10+CH3	8.50925e-08	0.999999	8.50925e-08	0.999999
PhcycC3H3_B+H	8.43911e-08	0.999999	8.43911e-08	0.999999
PAH9+H	7.13072e-08	1.000000	7.13072e-08	1.000000
rad38	5.21312e-08	1.000000	5.21312e-08	1.000000
Phenyl+cycC3H4	3.58023e-08	1.000000	0.000000	1.000000
PAH3+H	1.45692e-08	1.000000	1.45692e-08	1.000000
rad60syn	5.03974e-09	1.000000	5.03974e-09	1.000000
rad46	4.37625e-09	1.000000	4.37625e-09	1.000000
rad60anti	2.82887e-09	1.000000	2.82887e-09	1.000000
rad54	2.63022e-09	1.000000	2.63022e-09	1.000000
rad59	2.03127e-09	1.000000	2.03127e-09	1.000000
rad43	9.14306e-10	1.000000	9.14306e-10	1.000000
rad50	4.49098e-10	1.000000	4.49098e-10	1.000000
PAH1+H	4.05908e-10	1.000000	4.05908e-10	1.000000
rad70	2.63827e-10	1.000000	2.63827e-10	1.000000
rad62	1.58022e-10	1.000000	1.58022e-10	1.000000
rad55	1.01573e-10	1.000000	1.01573e-10	1.000000
rad34	2.81350e-11	1.000000	2.81350e-11	1.000000
rad51	2.21682e-11	1.000000	2.21682e-11	1.000000
rad58	1.79747e-11	1.000000	1.79747e-11	1.000000
rad9	1.64017e-11	1.000000	1.64017e-11	1.000000
rad52	1.61067e-11	1.000000	1.61067e-11	1.000000
rad41	7.27836e-12	1.000000	7.27836e-12	1.000000
rad19anti	4.93458e-12	1.000000	4.93458e-12	1.000000
rad61	2.69102e-12	1.000000	2.69102e-12	1.000000
rad6	2.57210e-12	1.000000	2.57210e-12	1.000000
rad53	2.26530e-12	1.000000	2.26530e-12	1.000000
rad42	1.88132e-12	1.000000	1.88132e-12	1.000000
rad23	1.25211e-12	1.000000	1.25211e-12	1.000000
rad64	9.96196e-13	1.000000	9.96196e-13	1.000000
rad2	7.23283e-13	1.000000	7.23283e-13	1.000000
rad65	7.15469e-13	1.000000	7.15469e-13	1.000000
rad56	5.47671e-13	1.000000	5.47671e-13	1.000000
rad45	1.80622e-13	1.000000	1.80622e-13	1.000000
rad1	1.12367e-13	1.000000	1.12367e-13	1.000000
rad68syn	8.54822e-14	1.000000	8.54822e-14	1.000000
rad68anti	5.81460e-14	1.000000	5.81460e-14	1.000000
PAH8+H	3.69707e-14	1.000000	3.69707e-14	1.000000
rad10	2.14652e-14	1.000000	2.14652e-14	1.000000
rad40syn	1.73361e-14	1.000000	1.73361e-14	1.000000
rad36	1.66446e-14	1.000000	1.66447e-14	1.000000
rad19syn	1.52297e-14	1.000000	1.52297e-14	1.000000
rad40anti	1.26477e-14	1.000000	1.26477e-14	1.000000
rad15	1.07401e-14	1.000000	1.07401e-14	1.000000
rad3	9.10972e-15	1.000000	9.10972e-15	1.000000
rad26	8.14989e-15	1.000000	8.14989e-15	1.000000
rad4	5.99254e-15	1.000000	5.99254e-15	1.000000
rad73	3.46179e-15	1.000000	3.46179e-15	1.000000
rad71	1.15115e-15	1.000000	1.15115e-15	1.000000
rad28	8.92172e-16	1.000000	8.92172e-16	1.000000
rad7	2.90263e-16	1.000000	2.90263e-16	1.000000
rad22	2.04798e-16	1.000000	2.04798e-16	1.000000
rad12	1.41506e-16	1.000000	1.41506e-16	1.000000
rad11	8.09453e-17	1.000000	8.09453e-17	1.000000
rad31	3.24829e-17	1.000000	3.24829e-17	1.000000
rad72	3.71440e-18	1.000000	3.71440e-18	1.000000
rad13	2.32989e-18	1.000000	2.32989e-18	1.000000
rad27	3.04589e-19	1.000000	3.04589e-19	1.000000

rad14	1.37826e-19	1.000000	1.37826e-19	1.000000
rad33	9.65248e-21	1.000000	9.65248e-21	1.000000
rad25	1.90745e-21	1.000000	1.90745e-21	1.000000
rad47	1.30368e-21	1.000000	1.30368e-21	1.000000
rad24	6.92418e-22	1.000000	6.92418e-22	1.000000
rad21	3.12778e-22	1.000000	3.12778e-22	1.000000
rad20	2.12278e-22	1.000000	2.12278e-22	1.000000
rad18	3.11646e-24	1.000000	3.11646e-24	1.000000
rad5	1.49707e-26	1.000000	1.49707e-26	1.000000
rad8	2.39430e-30	1.000000	2.39430e-30	1.000000

0.100000000E-01 Pa, 700.000000 K

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Rate constant          | True (fraction)          Effective (fraction)
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Total                  | 6.91694e-13 (1.00      ) 6.91694e-13 (1.00      )
Formation of rad19    | 6.47922e-13 (0.937    ) 6.47922e-13 (0.937    )
H-abstraction to cyc2enyl | 3.91858e-14 (0.0567   ) 3.91858e-14 (0.0567   )
H-abstraction to cyclenyl | 4.58543e-15 (0.00663  ) 4.58542e-15 (0.00663  )

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species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.928261	0.928261	0.928261	0.928261
Benzene+cycloprop-2-enylidene	0.0566520	0.984913	0.0566520	0.984913
PhCHCCH2+H	0.00759852	0.992512	0.00759852	0.992512
Benzene+cycloprop-1-enylidene	0.00662927	0.999141	0.00662927	0.999141
C2H2+PhCH2	0.000223368	0.999364	0.000223368	0.999364
Ph+MeAc	0.000184763	0.999549	0.000184763	0.999549
PhCCH+CH3	0.000114475	0.999663	0.000114475	0.999663
PhCCCH3+H	0.000114174	0.999778	0.000114175	0.999778
Ph+Allene	9.86533e-05	0.999876	9.86533e-05	0.999876
rad67	5.61619e-05	0.999932	5.61619e-05	0.999932
PhCH2CCH+H	3.37386e-05	0.999966	3.37386e-05	0.999966
rad35	2.09202e-05	0.999987	2.09202e-05	0.999987
PAH7+H	5.25053e-06	0.999992	5.25053e-06	0.999992
rad37	2.31771e-06	0.999995	2.31771e-06	0.999995
PhcycC3H3_A+H	1.84669e-06	0.999997	1.84669e-06	0.999997
rad39	1.15814e-06	0.999998	1.15814e-06	0.999998
PhcycC3H3_B+H	5.97905e-07	0.999998	5.97905e-07	0.999998
rad30	5.35179e-07	0.999999	5.35179e-07	0.999999
PAH10+CH3	3.93629e-07	0.999999	3.93629e-07	0.999999
Phenyl+cycC3H4	2.47273e-07	0.999999	0.00000	0.999999
PAH9+H	2.20561e-07	1.000000	2.20561e-07	0.999999
rad38	1.79350e-07	1.000000	1.79350e-07	1.000000
PAH3+H	5.98822e-08	1.000000	5.98822e-08	1.000000
rad46	1.59386e-08	1.000000	1.59386e-08	1.000000
rad60syn	1.57199e-08	1.000000	1.57199e-08	1.000000
rad54	1.11960e-08	1.000000	1.11960e-08	1.000000
rad60anti	9.00508e-09	1.000000	9.00509e-09	1.000000
rad59	7.88068e-09	1.000000	7.88068e-09	1.000000
rad43	3.45956e-09	1.000000	3.45956e-09	1.000000
PAH1+H	2.45999e-09	1.000000	2.45999e-09	1.000000
rad50	2.44590e-09	1.000000	2.44590e-09	1.000000
rad70	1.34940e-09	1.000000	1.34940e-09	1.000000
rad62	5.31173e-10	1.000000	5.31173e-10	1.000000
rad55	4.95205e-10	1.000000	4.95205e-10	1.000000
rad9	2.62749e-10	1.000000	2.62750e-10	1.000000
rad51	1.72724e-10	1.000000	1.72724e-10	1.000000
rad34	1.70514e-10	1.000000	1.70514e-10	1.000000
rad58	1.15485e-10	1.000000	1.15485e-10	1.000000
rad52	1.05464e-10	1.000000	1.05464e-10	1.000000
rad41	4.33857e-11	1.000000	4.33857e-11	1.000000
rad61	2.93854e-11	1.000000	2.93854e-11	1.000000
rad53	1.83954e-11	1.000000	1.83954e-11	1.000000
rad42	9.22828e-12	1.000000	9.22829e-12	1.000000
rad64	7.69008e-12	1.000000	7.69009e-12	1.000000
rad19anti	6.95738e-12	1.000000	6.95738e-12	1.000000
rad56	6.14058e-12	1.000000	6.14058e-12	1.000000
rad6	6.13718e-12	1.000000	6.13717e-12	1.000000
rad65	5.56392e-12	1.000000	5.56393e-12	1.000000
rad23	5.27072e-12	1.000000	5.27072e-12	1.000000
rad2	2.49244e-12	1.000000	2.49244e-12	1.000000
rad68syn	1.01774e-12	1.000000	1.01774e-12	1.000000
rad45	7.48030e-13	1.000000	7.48030e-13	1.000000
PAH8+H	7.28057e-13	1.000000	7.28057e-13	1.000000
rad68anti	6.85979e-13	1.000000	6.85979e-13	1.000000
rad1	5.46448e-13	1.000000	5.46448e-13	1.000000
rad40syn	2.68017e-13	1.000000	2.68017e-13	1.000000
rad40anti	1.96479e-13	1.000000	1.96479e-13	1.000000
rad15	1.20866e-13	1.000000	1.20866e-13	1.000000

rad12	1.18063e-13	1.00000	1.18063e-13	1.000000
rad36	9.38555e-14	1.00000	9.38555e-14	1.000000
rad19syn	8.87889e-14	1.00000	8.87889e-14	1.000000
rad73	8.20021e-14	1.00000	8.20021e-14	1.000000
rad10	5.88478e-14	1.00000	5.88478e-14	1.000000
rad71	3.64894e-14	1.00000	3.64894e-14	1.000000
rad3	3.05884e-14	1.00000	3.05884e-14	1.000000
rad4	2.36277e-14	1.00000	2.36277e-14	1.000000
rad26	2.00355e-14	1.00000	2.00355e-14	1.000000
rad28	2.09473e-15	1.00000	2.09473e-15	1.000000
rad22	8.97348e-16	1.00000	8.97347e-16	1.000000
rad7	8.07353e-16	1.00000	8.07353e-16	1.000000
rad11	2.46451e-16	1.00000	2.46451e-16	1.000000
rad72	1.27130e-16	1.00000	1.27130e-16	1.000000
rad31	9.71087e-17	1.00000	9.71087e-17	1.000000
rad13	8.98096e-18	1.00000	8.98097e-18	1.000000
rad27	9.60202e-19	1.00000	9.60202e-19	1.000000
rad14	4.06915e-19	1.00000	4.06915e-19	1.000000
rad24	2.04524e-19	1.00000	2.04524e-19	1.000000
rad33	6.59028e-20	1.00000	6.59028e-20	1.000000
rad21	3.76867e-20	1.00000	3.76867e-20	1.000000
rad47	1.29173e-20	1.00000	1.29173e-20	1.000000
rad20	9.38564e-21	1.00000	9.38564e-21	1.000000
rad25	7.06554e-21	1.00000	7.06554e-21	1.000000
rad18	3.94468e-23	1.00000	3.94469e-23	1.000000
rad8	5.34142e-25	1.00000	5.34142e-25	1.000000
rad5	3.00127e-26	1.00000	3.00127e-26	1.000000

0.100000000E-01 Pa, 800.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.03759e-12 (1.00)	1.03758e-12 (1.00)
Formation of rad19	9.41065e-13 (0.907)	9.41063e-13 (0.907)
H-abstraction to cyc2enyl	8.32953e-14 (0.0803)	8.32953e-14 (0.0803)
H-abstraction to cyclenyl	1.32261e-14 (0.0127)	1.32261e-14 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.891851	0.891851	0.891852	0.891852
Benzene+cycloprop-2-enylidene	0.0802780	0.972129	0.0802781	0.972130
PhCHCCH2+H	0.0134623	0.985592	0.0134623	0.985592
Benzene+cycloprop-1-enylidene	0.0127470	0.998339	0.0127470	0.998339
C2H2+PhCH2	0.000407099	0.998746	0.000407100	0.998747
Ph+MeAc	0.000361139	0.999107	0.000361140	0.999108
Ph+Allene	0.000232339	0.999339	0.000232340	0.999340
PhCCCH3+H	0.000203972	0.999543	0.000203972	0.999544
PhCCH+CH3	0.000180553	0.999724	0.000180553	0.999725
rad67	0.000113174	0.999837	0.000113175	0.999838
PhCH2CCH+H	8.77939e-05	0.999925	8.77940e-05	0.999925
rad35	4.16131e-05	0.999966	4.16132e-05	0.999967
PAH7+H	1.05801e-05	0.999977	1.05801e-05	0.999978
PhcycC3H3_A+H	7.41213e-06	0.999984	7.41213e-06	0.999985
rad37	5.46667e-06	0.999990	5.46667e-06	0.999991
PhcycC3H3_B+H	3.06128e-06	0.999993	3.06128e-06	0.999994
rad39	2.23428e-06	0.999995	2.23429e-06	0.999996
PAH10+CH3	1.45375e-06	0.999996	1.45375e-06	0.999997
Phenyl+cycC3H4	1.26413e-06	0.999998	0.00000	0.999997
rad30	1.14934e-06	0.999999	1.14934e-06	0.999998
PAH9+H	6.06294e-07	0.999999	6.06295e-07	0.999999
rad38	5.31264e-07	1.000000	5.31265e-07	1.000000
PAH3+H	2.06539e-07	1.00000	2.06539e-07	1.000000
rad46	5.03854e-08	1.00000	5.03855e-08	1.000000
rad60syn	4.30118e-08	1.00000	4.30119e-08	1.000000
rad54	3.72621e-08	1.00000	3.72621e-08	1.000000
rad59	2.58009e-08	1.00000	2.58009e-08	1.000000
rad60anti	2.50615e-08	1.00000	2.50615e-08	1.000000
PAH1+H	1.11106e-08	1.00000	1.11106e-08	1.00000
rad50	1.08542e-08	1.00000	1.08542e-08	1.00000
rad43	1.08257e-08	1.00000	1.08257e-08	1.00000
rad9	7.58907e-09	1.00000	7.58908e-09	1.00000
rad70	5.27776e-09	1.00000	5.27777e-09	1.00000
rad55	1.83178e-09	1.00000	1.83178e-09	1.00000
rad62	1.46957e-09	1.00000	1.46958e-09	1.00000
rad51	1.02172e-09	1.00000	1.02172e-09	1.00000
rad34	7.64080e-10	1.00000	7.64081e-10	1.00000
rad58	5.66096e-10	1.00000	5.66097e-10	1.00000
rad52	5.41866e-10	1.00000	5.41867e-10	1.00000
rad61	2.09094e-10	1.00000	2.09095e-10	1.00000
rad41	1.94602e-10	1.00000	1.94602e-10	1.00000

rad53	1.01506e-10	1.00000	1.01506e-10	1.00000
rad56	4.31970e-11	1.00000	4.31970e-11	1.00000
rad64	4.01381e-11	1.00000	4.01382e-11	1.00000
rad42	3.44821e-11	1.00000	3.44822e-11	1.00000
rad65	3.26116e-11	1.00000	3.26116e-11	1.00000
rad23	8.41082e-12	1.00000	8.41083e-12	1.00000
PAH8+H	8.11872e-12	1.00000	8.11874e-12	1.00000
rad68syn	7.66949e-12	1.00000	7.66951e-12	1.00000
rad6	6.66429e-12	1.00000	6.66430e-12	1.00000
rad12	6.62665e-12	1.00000	6.62666e-12	1.00000
rad19anti	6.02838e-12	1.00000	6.02839e-12	1.00000
rad68anti	5.13296e-12	1.00000	5.13297e-12	1.00000
rad2	3.17114e-12	1.00000	3.17115e-12	1.00000
rad40syn	2.48703e-12	1.00000	2.48704e-12	1.00000
rad15	2.21643e-12	1.00000	2.21643e-12	1.00000
rad40anti	1.83946e-12	1.00000	1.83946e-12	1.00000
rad45	1.48096e-12	1.00000	1.48096e-12	1.00000
rad73	1.12045e-12	1.00000	1.12046e-12	1.00000
rad1	8.46541e-13	1.00000	8.46542e-13	1.00000
rad71	6.17060e-13	1.00000	6.17060e-13	1.00000
rad36	1.73583e-13	1.00000	1.73584e-13	1.00000
rad19syn	1.44428e-13	1.00000	1.44428e-13	1.00000
rad10	7.84092e-14	1.00000	7.84093e-14	1.00000
rad3	3.60880e-14	1.00000	3.60880e-14	1.00000
rad4	2.90438e-14	1.00000	2.90438e-14	1.00000
rad26	2.28722e-14	1.00000	2.28723e-14	1.00000
rad28	2.37886e-15	1.00000	2.37886e-15	1.00000
rad72	2.31071e-15	1.00000	2.31071e-15	1.00000
rad22	1.52841e-15	1.00000	1.52841e-15	1.00000
rad7	1.10655e-15	1.00000	1.10655e-15	1.00000
rad11	3.86468e-16	1.00000	3.86469e-16	1.00000
rad31	1.51028e-16	1.00000	1.51029e-16	1.00000
rad24	4.04561e-17	1.00000	4.04561e-17	1.00000
rad13	2.10649e-17	1.00000	2.10650e-17	1.00000
rad21	1.35243e-17	1.00000	1.35244e-17	1.00000
rad33	2.54875e-18	1.00000	2.54875e-18	1.00000
rad20	2.22238e-18	1.00000	2.22239e-18	1.00000
rad27	1.48141e-18	1.00000	1.48141e-18	1.00000
rad14	5.78034e-19	1.00000	5.78035e-19	1.00000
rad47	8.54228e-20	1.00000	8.54230e-20	1.00000
rad25	4.85382e-20	1.00000	4.85383e-20	1.00000
rad8	2.39871e-20	1.00000	2.39871e-20	1.00000
rad18	4.98687e-22	1.00000	4.98687e-22	1.00000
rad5	8.28838e-26	1.00000	8.28840e-26	1.00000

0.100000000E-01 Pa, 900.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.49199e-12 (1.00)	1.49199e-12 (1.00)
Formation of rad19	1.30395e-12 (0.874)	1.30394e-12 (0.874)
H-abstraction to cyc2enyl	1.56554e-13 (0.105)	1.56554e-13 (0.105)
H-abstraction to cyc1enyl	3.14892e-14 (0.0211)	3.14890e-14 (0.0211)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.848699	0.848699	0.848703	0.848703
Benzene+cycloprop-2-enylidene	0.104929	0.953628	0.104930	0.953633
PhCHCCH2+H	0.0222942	0.975922	0.0222943	0.975927
Benzene+cycloprop-1-enylidene	0.0211054	0.997028	0.0211054	0.997032
C2H2+PhCH2	0.000683872	0.997712	0.000683876	0.997716
Ph+MeAc	0.000643408	0.998355	0.000643411	0.998360
Ph+Allene	0.000474189	0.998829	0.000474191	0.998834
PhCCCH3+H	0.000337157	0.999166	0.000337159	0.999171
PhCCH+CH3	0.000266834	0.999433	0.000266835	0.999438
rad67	0.000208254	0.999642	0.000208254	0.999646
PhCH2CCH+H	0.000196565	0.999838	0.000196566	0.999843
rad35	7.58735e-05	0.999914	7.58739e-05	0.999919
PhcycC3H3_A+H	2.42105e-05	0.999938	2.42107e-05	0.999943
PAH7+H	1.88376e-05	0.999957	1.88377e-05	0.999962
PhcycC3H3_B+H	1.21562e-05	0.999969	1.21563e-05	0.999974
rad37	1.14051e-05	0.999981	1.14052e-05	0.999985
Phenyl+cycC3H4	5.07995e-06	0.999986	0.00000	0.999985
PAH10+CH3	4.40481e-06	0.999990	4.40483e-06	0.999990
rad39	3.79887e-06	0.999994	3.79890e-06	0.999993
rad30	2.25166e-06	0.999996	2.25167e-06	0.999996
PAH9+H	1.48869e-06	0.999998	1.48870e-06	0.999997
rad38	1.36509e-06	0.999999	1.36510e-06	0.999998
PAH3+H	6.06220e-07	1.000000	6.06223e-07	0.999999
rad46	1.39491e-07	1.000000	1.39492e-07	0.999999

rad60syn	1.03786e-07	1.000000	1.03787e-07	0.999999
rad54	1.00669e-07	1.000000	1.00669e-07	0.999999
rad59	7.22603e-08	1.000000	7.22607e-08	0.999999
rad60anti	6.13440e-08	1.000000	6.13443e-08	1.000000
rad50	4.00864e-08	1.000000	4.00867e-08	1.000000
PAH1+H	3.94766e-08	1.000000	3.94768e-08	1.000000
rad9	3.89504e-08	1.000000	3.89505e-08	1.000000
rad43	2.87041e-08	1.000000	2.87042e-08	1.000000
rad70	1.65416e-08	1.000000	1.65417e-08	1.000000
rad55	5.38716e-09	1.000000	5.38719e-09	1.000000
rad51	4.77352e-09	1.000000	4.77354e-09	1.000000
rad62	3.44643e-09	1.000000	3.44644e-09	1.000000
rad34	2.67914e-09	1.000000	2.67916e-09	1.000000
rad52	2.25302e-09	1.000000	2.25304e-09	1.000000
rad58	2.20490e-09	1.000000	2.20492e-09	1.000000
rad61	1.06284e-09	1.000000	1.06285e-09	1.000000
rad41	6.91255e-10	1.000000	6.91258e-10	1.000000
rad53	4.12706e-10	1.000000	4.12709e-10	1.000000
rad56	2.12410e-10	1.000000	2.12412e-10	1.000000
rad64	1.54874e-10	1.000000	1.54875e-10	1.000000
rad65	1.50381e-10	1.000000	1.50381e-10	1.000000
rad42	1.03381e-10	1.000000	1.03382e-10	1.000000
PAH8+H	5.91857e-11	1.000000	5.91860e-11	1.000000
rad68syn	4.07276e-11	1.000000	4.07278e-11	1.000000
rad12	4.04628e-11	1.000000	4.04631e-11	1.000000
rad68anti	2.71039e-11	1.000000	2.71041e-11	1.000000
rad40syn	1.56841e-11	1.000000	1.56842e-11	1.000000
rad40anti	1.17245e-11	1.000000	1.17245e-11	1.000000
rad73	1.02166e-11	1.000000	1.02166e-11	1.000000
rad15	9.37127e-12	1.000000	9.37135e-12	1.000000
rad23	9.03383e-12	1.000000	9.03382e-12	1.000000
rad71	6.81937e-12	1.000000	6.81941e-12	1.000000
rad19anti	4.57502e-12	1.000000	4.57505e-12	1.000000
rad6	4.54131e-12	1.000000	4.54134e-12	1.000000
rad2	2.75768e-12	1.000000	2.75770e-12	1.000000
rad45	1.95902e-12	1.000000	1.95904e-12	1.000000
rad1	7.81484e-13	1.000000	7.81489e-13	1.000000
rad36	2.14336e-13	1.000000	2.14337e-13	1.000000
rad19syn	1.51735e-13	1.000000	1.51736e-13	1.000000
rad10	7.60267e-14	1.000000	7.60271e-14	1.000000
rad72	4.04627e-14	1.000000	4.04630e-14	1.000000
rad3	2.89148e-14	1.000000	2.89149e-14	1.000000
rad4	2.36782e-14	1.000000	2.36784e-14	1.000000
rad26	1.68050e-14	1.000000	1.68050e-14	1.000000
rad22	1.77839e-15	1.000000	1.77840e-15	1.000000
rad28	1.72608e-15	1.000000	1.72609e-15	1.000000
rad21	1.24379e-15	1.000000	1.24380e-15	1.000000
rad7	1.06001e-15	1.000000	1.06001e-15	1.000000
rad24	8.13244e-16	1.000000	8.13248e-16	1.000000
rad11	4.40325e-16	1.000000	4.40328e-16	1.000000
rad20	2.40230e-16	1.000000	2.40232e-16	1.000000
rad31	1.88478e-16	1.000000	1.88478e-16	1.000000
rad33	1.64681e-16	1.000000	1.64682e-16	1.000000
rad13	7.19187e-17	1.000000	7.19191e-17	1.000000
rad8	5.47294e-17	1.000000	5.47297e-17	1.000000
rad27	3.55988e-18	1.000000	3.55990e-18	1.000000
rad25	2.47551e-18	1.000000	2.47552e-18	1.000000
rad14	6.79663e-19	1.000000	6.79666e-19	1.000000
rad47	4.17783e-19	1.000000	4.17785e-19	1.000000
rad18	2.11976e-20	1.000000	2.11977e-20	1.000000
rad5	3.07367e-25	1.000000	3.07369e-25	1.000000

0.100000000E-01 Pa, 1000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.07591e-12 (1.00)	2.07587e-12 (1.00)
Formation of rad19	1.74189e-12 (0.839)	1.74186e-12 (0.839)
H-abstraction to cyc2enyl	2.68753e-13 (0.129)	2.68753e-13 (0.129)
H-abstraction to cyclenyl	6.52627e-14 (0.0314)	6.52614e-14 (0.0314)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.799582	0.799582	0.799596	0.799596
Benzene+cycloprop-2-enylidene	0.129463	0.929045	0.129465	0.929061
PhCHCCH2+H	0.0345729	0.963618	0.0345735	0.963635
Benzene+cycloprop-1-enylidene	0.0314382	0.995056	0.0314381	0.995073
C2H2+PhCH2	0.00107013	0.996126	0.00107015	0.996143
Ph+MeAc	0.00105356	0.997180	0.00105358	0.997197
Ph+Allene	0.000856132	0.998036	0.000856147	0.998053

PhCCCH3+H	0.000518390	0.998555	0.000518399	0.998571
PhCH2CCH+H	0.000387335	0.998942	0.000387341	0.998959
PhCCH+CH3	0.000373414	0.999315	0.000373421	0.999332
rad67	0.000352156	0.999667	0.000352163	0.999684
rad35	0.000127507	0.999795	0.000127509	0.999812
PhcycC3H3_A+H	6.68792e-05	0.999862	6.68804e-05	0.999879
PhcycC3H3_B+H	3.94292e-05	0.999901	3.94298e-05	0.999918
PAH7+H	3.02071e-05	0.999932	3.02076e-05	0.999948
rad37	2.12566e-05	0.999953	2.12570e-05	0.999970
Phenyl+cycC3H4	1.68078e-05	0.999970	0.000000	0.999970
PAH10+CH3	1.12450e-05	0.999981	1.12452e-05	0.999981
rad39	5.81026e-06	0.999987	5.81037e-06	0.999987
rad30	4.04410e-06	0.999991	4.04418e-06	0.999991
PAH9+H	3.29373e-06	0.999994	3.29379e-06	0.999994
rad38	3.08270e-06	0.999997	3.08276e-06	0.999997
PAH3+H	1.54079e-06	0.999999	1.54081e-06	0.999999
rad46	3.42258e-07	0.999999	3.42264e-07	0.999999
rad54	2.28524e-07	0.999999	2.28528e-07	0.999999
rad60syn	2.23174e-07	0.999999	2.23179e-07	0.999999
rad59	1.76077e-07	1.000000	1.76080e-07	1.000000
rad60anti	1.33522e-07	1.000000	1.33524e-07	1.000000
rad50	1.25846e-07	1.000000	1.25849e-07	1.000000
PAH1+H	1.15152e-07	1.000000	1.15153e-07	1.000000
rad43	6.59895e-08	1.000000	6.59906e-08	1.000000
rad9	5.51021e-08	1.000000	5.51031e-08	1.000000
rad70	4.32155e-08	1.000000	4.32162e-08	1.000000
rad51	1.82111e-08	1.000000	1.82115e-08	1.000000
rad55	1.31140e-08	1.000000	1.31142e-08	1.000000
rad52	7.79464e-09	1.000000	7.79478e-09	1.000000
rad34	7.69275e-09	1.000000	7.69289e-09	1.000000
rad58	7.06750e-09	1.000000	7.06763e-09	1.000000
rad62	7.03952e-09	1.000000	7.03964e-09	1.000000
rad61	4.12351e-09	1.000000	4.12358e-09	1.000000
rad41	2.02463e-09	1.000000	2.02466e-09	1.000000
rad53	1.31442e-09	1.000000	1.31444e-09	1.000000
rad56	7.88535e-10	1.000000	7.88549e-10	1.000000
rad65	5.65276e-10	1.000000	5.65287e-10	1.000000
rad64	4.71892e-10	1.000000	4.71900e-10	1.000000
PAH8+H	3.09983e-10	1.000000	3.09989e-10	1.000000
rad42	2.59232e-10	1.000000	2.59236e-10	1.000000
rad68syn	1.64280e-10	1.000000	1.64283e-10	1.000000
rad68anti	1.08821e-10	1.000000	1.08823e-10	1.000000
rad40syn	7.30968e-11	1.000000	7.30981e-11	1.000000
rad12	7.27811e-11	1.000000	7.27823e-11	1.000000
rad73	6.67694e-11	1.000000	6.67705e-11	1.000000
rad40anti	5.52465e-11	1.000000	5.52475e-11	1.000000
rad71	5.21260e-11	1.000000	5.21269e-11	1.000000
rad15	1.43462e-11	1.000000	1.43465e-11	1.000000
rad23	8.83311e-12	1.000000	8.83325e-12	1.000000
rad19anti	3.42049e-12	1.000000	3.42054e-12	1.000000
rad6	2.83022e-12	1.000000	2.83027e-12	1.000000
rad45	2.20074e-12	1.000000	2.20078e-12	1.000000
rad2	2.19214e-12	1.000000	2.19217e-12	1.000000
rad1	6.33095e-13	1.000000	6.33107e-13	1.000000
rad72	4.55313e-13	1.000000	4.55321e-13	1.000000
rad36	2.30860e-13	1.000000	2.30865e-13	1.000000
rad19syn	1.42443e-13	1.000000	1.42446e-13	1.000000
rad10	7.27952e-14	1.000000	7.27965e-14	1.000000
rad3	2.15369e-14	1.000000	2.15373e-14	1.000000
rad21	2.11623e-14	1.000000	2.11627e-14	1.000000
rad4	1.76731e-14	1.000000	1.76734e-14	1.000000
rad26	1.17837e-14	1.000000	1.17839e-14	1.000000
rad8	6.27722e-15	1.000000	6.27733e-15	1.000000
rad20	4.94003e-15	1.000000	4.94011e-15	1.000000
rad24	3.61523e-15	1.000000	3.61530e-15	1.000000
rad33	2.31491e-15	1.000000	2.31496e-15	1.000000
rad13	2.25739e-15	1.000000	2.25743e-15	1.000000
rad22	1.95228e-15	1.000000	1.95232e-15	1.000000
rad28	1.17520e-15	1.000000	1.17521e-15	1.000000
rad7	1.04832e-15	1.000000	1.04833e-15	1.000000
rad11	6.23447e-16	1.000000	6.23458e-16	1.000000
rad31	2.18571e-16	1.000000	2.18575e-16	1.000000
rad25	7.69438e-17	1.000000	7.69451e-17	1.000000
rad27	5.73474e-17	1.000000	5.73484e-17	1.000000
rad14	4.42401e-18	1.000000	4.42409e-18	1.000000
rad47	1.62980e-18	1.000000	1.62983e-18	1.000000
rad18	8.23752e-19	1.000000	8.23765e-19	1.000000
rad5	2.41003e-24	1.000000	2.41007e-24	1.000000

0.100000000E-01 Pa, 1100.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.81236e-12 (1.00)	2.81222e-12 (1.00)
Formation of rad19	2.25993e-12 (0.804)	2.25980e-12 (0.804)
H-abstraction to cyc2enyl	4.30538e-13 (0.153)	4.30538e-13 (0.153)
H-abstraction to cyclenyl	1.21896e-13 (0.0433)	1.21889e-13 (0.0433)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.745454	0.745454	0.745492	0.745492
Benzene+cycloprop-2-enylidene	0.153088	0.898542	0.153095	0.898587
PhCHCCH2+H	0.0504086	0.948951	0.0504111	0.948998
Benzene+cycloprop-1-enylidene	0.0433429	0.992294	0.0433425	0.992341
Ph+MeAc	0.00159990	0.993894	0.00159998	0.993941
C2H2+PhCH2	0.00157394	0.995468	0.00157402	0.995515
Ph+Allene	0.00139378	0.996861	0.00139384	0.996909
PhCCCH3+H	0.000746148	0.997607	0.000746185	0.997655
PhCH2CCH+H	0.000685304	0.998293	0.000685339	0.998340
rad67	0.000551511	0.998844	0.000551539	0.998892
PhCCH+CH3	0.000499929	0.999344	0.000499953	0.999392
rad35	0.000198905	0.999543	0.000198915	0.999591
PhcycC3H3_A+H	0.000160986	0.999704	0.000160994	0.999752
PhcycC3H3_B+H	0.000108569	0.999813	0.000108575	0.999860
Phenyl+cycC3H4	4.74535e-05	0.999860	0.000000	0.999860
PAH7+H	4.44307e-05	0.999905	4.44330e-05	0.999905
rad37	3.57977e-05	0.999940	3.57996e-05	0.999941
PAH10+CH3	2.47744e-05	0.999965	2.47757e-05	0.999965
rad39	8.15502e-06	0.999973	8.15543e-06	0.999973
rad30	6.70507e-06	0.999980	6.70540e-06	0.999980
PAH9+H	6.62681e-06	0.999987	6.62715e-06	0.999987
rad38	6.20650e-06	0.999993	6.20681e-06	0.999993
PAH3+H	3.44997e-06	0.999996	3.45014e-06	0.999996
rad46	7.53052e-07	0.999997	7.53090e-07	0.999997
rad54	4.48846e-07	0.999997	4.48868e-07	0.999998
rad60syn	4.32693e-07	0.999998	4.32715e-07	0.999998
rad59	3.79568e-07	0.999998	3.79587e-07	0.999998
rad50	3.42363e-07	0.999999	3.42380e-07	0.999999
PAH1+H	2.85118e-07	0.999999	2.85132e-07	0.999999
rad60anti	2.61580e-07	0.999999	2.61592e-07	0.999999
rad43	1.34199e-07	0.999999	1.34206e-07	0.999999
rad70	9.71331e-08	0.999999	9.71386e-08	1.000000
rad51	5.83538e-08	0.999999	5.83568e-08	1.000000
rad9	4.55179e-08	0.999999	4.55202e-08	1.000000
rad55	2.73131e-08	1.000000	2.73144e-08	1.000000
rad52	2.29855e-08	1.000000	2.29865e-08	1.000000
rad58	1.92035e-08	1.000000	1.92044e-08	1.000000
rad34	1.87457e-08	1.000000	1.87466e-08	1.000000
rad61	1.28399e-08	1.000000	1.28405e-08	1.000000
rad62	1.28156e-08	1.000000	1.28162e-08	1.000000
rad41	5.04831e-09	1.000000	5.04856e-09	1.000000
rad53	3.43675e-09	1.000000	3.43692e-09	1.000000
rad56	2.33978e-09	1.000000	2.33989e-09	1.000000
rad65	1.78405e-09	1.000000	1.78414e-09	1.000000
PAH8+H	1.25008e-09	1.000000	1.25014e-09	1.000000
rad64	1.19315e-09	1.000000	1.19321e-09	1.000000
rad42	5.61788e-10	1.000000	5.61816e-10	1.000000
rad68syn	5.31826e-10	1.000000	5.31854e-10	1.000000
rad68anti	3.50921e-10	1.000000	3.50939e-10	1.000000
rad73	3.33118e-10	1.000000	3.33134e-10	1.000000
rad71	2.96441e-10	1.000000	2.96456e-10	1.000000
rad40syn	2.67700e-10	1.000000	2.67713e-10	1.000000
rad40anti	2.04489e-10	1.000000	2.04499e-10	1.000000
rad12	7.93767e-11	1.000000	7.93806e-11	1.000000
rad15	1.48561e-11	1.000000	1.48568e-11	1.000000
rad23	8.27926e-12	1.000000	8.27966e-12	1.000000
rad72	3.57712e-12	1.000000	3.57731e-12	1.000000
rad19anti	2.56277e-12	1.000000	2.56290e-12	1.000000
rad45	2.25821e-12	1.000000	2.25832e-12	1.000000
rad6	1.90012e-12	1.000000	1.90022e-12	1.000000
rad2	1.69809e-12	1.000000	1.69817e-12	1.000000
rad1	4.88868e-13	1.000000	4.88892e-13	1.000000
rad36	2.32786e-13	1.000000	2.32798e-13	1.000000
rad19syn	1.28391e-13	1.000000	1.28398e-13	1.000000
rad21	9.63849e-14	1.000000	9.63897e-14	1.000000
rad8	7.65089e-14	1.000000	7.65127e-14	1.000000
rad10	7.07552e-14	1.000000	7.07587e-14	1.000000
rad13	3.16163e-14	1.000000	3.16178e-14	1.000000
rad20	2.48848e-14	1.000000	2.48860e-14	1.000000
rad3	1.55442e-14	1.000000	1.55451e-14	1.000000

rad4	1.27130e-14	1.000000	1.27136e-14	1.000000
rad26	8.80142e-15	1.000000	8.80190e-15	1.000000
rad33	8.69084e-15	1.000000	8.69125e-15	1.000000
rad24	7.72327e-15	1.000000	7.72365e-15	1.000000
rad11	6.61716e-15	1.000000	6.61749e-15	1.000000
rad22	2.15104e-15	1.000000	2.15115e-15	1.000000
rad7	1.37082e-15	1.000000	1.37089e-15	1.000000
rad28	8.49686e-16	1.000000	8.49735e-16	1.000000
rad25	7.88136e-16	1.000000	7.88175e-16	1.000000
rad27	4.74042e-16	1.000000	4.74066e-16	1.000000
rad31	2.41068e-16	1.000000	2.41080e-16	1.000000
rad18	5.23449e-17	1.000000	5.23476e-17	1.000000
rad14	3.76803e-17	1.000000	3.76822e-17	1.000000
rad47	5.24311e-18	1.000000	5.24336e-18	1.000000
rad5	4.18566e-23	1.000000	4.18587e-23	1.000000

0.100000000E-01 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.72623e-12 (1.00)	3.72576e-12 (1.00)
Formation of rad19	2.86288e-12 (0.768)	2.86245e-12 (0.768)
H-abstraction to cyc2enyl	6.53266e-13 (0.175)	6.53266e-13 (0.175)
H-abstraction to cyclenyl	2.10085e-13 (0.0564)	2.10053e-13 (0.0564)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.687506	0.687506	0.687593	0.687593
Benzene+cycloprop-2-enylidene	0.175315	0.862821	0.175337	0.862930
PhCHCCH2+H	0.0694471	0.932268	0.0694558	0.932386
Benzene+cycloprop-1-enylidene	0.0563801	0.988648	0.0563786	0.988764
Ph+MeAc	0.00227272	0.990921	0.00227301	0.991037
C2H2+PhCH2	0.00219121	0.993112	0.00219148	0.993229
Ph+Allene	0.00207914	0.995192	0.00208021	0.995309
PhCH2CCH+H	0.00110692	0.996299	0.00110706	0.996416
PhCCCH3+H	0.00101200	0.997311	0.00101213	0.997428
rad67	0.000806305	0.998117	0.000806414	0.998235
PhCCH+CH3	0.000645718	0.998763	0.000645799	0.998881
PhcycC3H3_A+H	0.000345598	0.999109	0.000345642	0.999226
rad35	0.000290170	0.999399	0.000290207	0.999516
PhcycC3H3_B+H	0.000261273	0.999660	0.000261306	0.999778
Phenyl+cycC3H4	0.000117514	0.999778	0.000000	0.999778
PAH7+H	6.09152e-05	0.999839	6.09229e-05	0.999839
rad37	5.50994e-05	0.999894	5.51063e-05	0.999894
PAH10+CH3	4.81024e-05	0.999942	4.81085e-05	0.999942
PAH9+H	1.22286e-05	0.999954	1.22301e-05	0.999954
rad38	1.12958e-05	0.999965	1.12972e-05	0.999965
rad39	1.06983e-05	0.999976	1.06996e-05	0.999976
rad30	1.03391e-05	0.999986	1.03404e-05	0.999986
PAH3+H	6.91385e-06	0.999993	6.91473e-06	0.999993
rad46	1.50177e-06	0.999995	1.50196e-06	0.999995
rad50	8.20657e-07	0.999996	8.20758e-07	0.999996
rad54	7.81497e-07	0.999996	7.81598e-07	0.999996
rad60syn	7.65106e-07	0.999997	7.65203e-07	0.999997
rad59	7.35024e-07	0.999998	7.35117e-07	0.999998
PAH1+H	6.15266e-07	0.999998	6.15343e-07	0.999999
rad60anti	4.66713e-07	0.999999	4.66772e-07	0.999999
rad43	2.45552e-07	0.999999	2.45583e-07	0.999999
rad70	1.92606e-07	0.999999	1.92630e-07	0.999999
rad51	1.60726e-07	1.000000	1.60747e-07	1.000000
rad52	5.89524e-08	1.000000	5.89598e-08	1.000000
rad55	4.99977e-08	1.000000	5.00040e-08	1.000000
rad58	4.53339e-08	1.000000	4.53397e-08	1.000000
rad34	3.98659e-08	1.000000	3.98709e-08	1.000000
rad61	3.33586e-08	1.000000	3.33628e-08	1.000000
rad9	3.18605e-08	1.000000	3.18645e-08	1.000000
rad62	2.11968e-08	1.000000	2.11995e-08	1.000000
rad41	1.09918e-08	1.000000	1.09932e-08	1.000000
rad53	7.65067e-09	1.000000	7.65163e-09	1.000000
rad56	5.79410e-09	1.000000	5.79483e-09	1.000000
rad65	4.84130e-09	1.000000	4.84190e-09	1.000000
PAH8+H	4.08184e-09	1.000000	4.08236e-09	1.000000
rad64	2.59997e-09	1.000000	2.60030e-09	1.000000
rad68syn	1.43969e-09	1.000000	1.43987e-09	1.000000
rad73	1.32848e-09	1.000000	1.32864e-09	1.000000
rad71	1.32098e-09	1.000000	1.32115e-09	1.000000
rad42	1.07986e-09	1.000000	1.08000e-09	1.000000
rad68anti	9.46828e-10	1.000000	9.46949e-10	1.000000
rad40syn	8.05990e-10	1.000000	8.06091e-10	1.000000
rad40anti	6.21794e-10	1.000000	6.21872e-10	1.000000

rad12	7.13614e-11	1.000000	7.13704e-11	1.000000
rad72	2.08696e-11	1.000000	2.08723e-11	1.000000
rad15	1.36903e-11	1.000000	1.36921e-11	1.000000
rad23	7.63171e-12	1.000000	7.63267e-12	1.000000
rad45	2.20115e-12	1.000000	2.20143e-12	1.000000
rad19anti	1.93812e-12	1.000000	1.93836e-12	1.000000
rad6	1.57858e-12	1.000000	1.57878e-12	1.000000
rad2	1.28394e-12	1.000000	1.28411e-12	1.000000
rad1	3.69319e-13	1.000000	3.69366e-13	1.000000
rad8	2.53543e-13	1.000000	2.53575e-13	1.000000
rad36	2.26137e-13	1.000000	2.26166e-13	1.000000
rad21	2.06298e-13	1.000000	2.06323e-13	1.000000
rad13	1.26266e-13	1.000000	1.26282e-13	1.000000
rad19syn	1.13955e-13	1.000000	1.13970e-13	1.000000
rad11	1.03347e-13	1.000000	1.03360e-13	1.000000
rad10	6.90012e-14	1.000000	6.90099e-14	1.000000
rad20	5.30687e-14	1.000000	5.30754e-14	1.000000
rad33	1.49701e-14	1.000000	1.49720e-14	1.000000
rad24	1.18501e-14	1.000000	1.18516e-14	1.000000
rad3	1.10251e-14	1.000000	1.10265e-14	1.000000
rad4	8.98033e-15	1.000000	8.98147e-15	1.000000
rad7	8.80485e-15	1.000000	8.80600e-15	1.000000
rad26	6.94813e-15	1.000000	6.94901e-15	1.000000
rad25	2.92616e-15	1.000000	2.92653e-15	1.000000
rad22	2.41766e-15	1.000000	2.41796e-15	1.000000
rad18	1.66200e-15	1.000000	1.66221e-15	1.000000
rad27	1.52436e-15	1.000000	1.52456e-15	1.000000
rad28	6.88414e-16	1.000000	6.88501e-16	1.000000
rad31	2.55729e-16	1.000000	2.55762e-16	1.000000
rad14	1.33043e-16	1.000000	1.33060e-16	1.000000
rad47	1.43385e-17	1.000000	1.43403e-17	1.000000
rad5	1.27725e-21	1.000000	1.27742e-21	1.000000

0.100000000E-01 Pa, 1300.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.84401e-12 (1.00)	4.84262e-12 (1.00)
Formation of rad19	3.55537e-12 (0.734)	3.55411e-12 (0.734)
H-abstraction to cyc2enyl	9.48893e-13 (0.196)	9.48893e-13 (0.196)
H-abstraction to cyc1enyl	3.39740e-13 (0.0701)	3.39620e-13 (0.0701)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.627161	0.627161	0.627340	0.627340
Benzene+cycloprop-2-enylidene	0.195890	0.823051	0.195946	0.823286
PhCHCCH2+H	0.0908777	0.913928	0.0909037	0.914190
Benzene+cycloprop-1-enylidene	0.0701362	0.984065	0.0701313	0.984321
Ph+MeAc	0.00304441	0.987109	0.00304528	0.987366
C2H2+PhCH2	0.00290372	0.990013	0.00290455	0.990271
Ph+Allene	0.00288470	0.992898	0.00288553	0.993157
PhCH2CCH+H	0.00165448	0.994552	0.00165495	0.994812
PhCCCH3+H	0.00130153	0.995854	0.00130190	0.996113
rad67	0.00110884	0.996962	0.00110915	0.997223
PhCCH+CH3	0.000809522	0.997772	0.000809751	0.998032
PhcycC3H3_A+H	0.000673391	0.998445	0.000673584	0.998706
PhcycC3H3_B+H	0.000561394	0.999007	0.000561554	0.999267
rad35	0.000398725	0.999405	0.000398838	0.999666
Phenyl+cycC3H4	0.000260506	0.999666	0.000000	0.999666
PAH10+CH3	8.38007e-05	0.999750	8.38250e-05	0.999750
PAH7+H	7.89117e-05	0.999829	7.89341e-05	0.999829
rad37	7.83568e-05	0.999907	7.83793e-05	0.999907
PAH9+H	2.08511e-05	0.999928	2.08571e-05	0.999928
rad38	1.88167e-05	0.999947	1.88221e-05	0.999947
rad30	1.49360e-05	0.999962	1.49402e-05	0.999962
rad39	1.33374e-05	0.999975	1.33412e-05	0.999975
PAH3+H	1.25733e-05	0.999987	1.25768e-05	0.999988
rad46	2.73966e-06	0.999990	2.74044e-06	0.999991
rad50	1.75696e-06	0.999992	1.75747e-06	0.999992
rad59	1.29584e-06	0.999993	1.29621e-06	0.999994
rad60syn	1.24693e-06	0.999995	1.24728e-06	0.999995
rad54	1.23055e-06	0.999996	1.23091e-06	0.999996
PAH1+H	1.18164e-06	0.999997	1.18197e-06	0.999997
rad60anti	7.66606e-07	0.999998	7.66824e-07	0.999998
rad43	4.10006e-07	0.999998	4.10124e-07	0.999999
rad51	3.87410e-07	0.999998	3.87521e-07	0.999999
rad70	3.43678e-07	0.999999	3.43777e-07	0.999999
rad52	1.33629e-07	0.999999	1.33667e-07	0.999999
rad58	9.48441e-08	0.999999	9.48712e-08	1.000000
rad55	8.22139e-08	0.999999	8.22375e-08	1.000000

rad34	7.56235e-08	0.999999	7.56454e-08	1.000000
rad61	7.45093e-08	0.999999	7.45306e-08	1.000000
rad62	3.23565e-08	0.999999	3.23658e-08	1.000000
rad41	2.13213e-08	0.999999	2.13274e-08	1.000000
rad9	2.08206e-08	0.999999	2.08266e-08	1.000000
rad53	1.49188e-08	0.999999	1.49231e-08	1.000000
rad56	1.23747e-08	0.999999	1.23783e-08	1.000000
rad65	1.15037e-08	0.999999	1.15070e-08	1.000000
PAH8+H	1.11833e-08	0.999999	1.11865e-08	1.000000
rad64	5.02552e-09	0.999999	5.02696e-09	1.000000
rad71	4.76269e-09	0.999999	4.76405e-09	1.000000
rad73	4.36525e-09	0.999999	4.36649e-09	1.000000
rad68syn	3.35948e-09	0.999999	3.36043e-09	1.000000
rad68anti	2.20312e-09	0.999999	2.20375e-09	1.000000
rad40syn	2.06134e-09	0.999999	2.06192e-09	1.000000
rad42	1.87919e-09	0.999999	1.87972e-09	1.000000
rad40anti	1.60446e-09	0.999999	1.60491e-09	1.000000
rad72	9.34671e-11	0.999999	9.34937e-11	1.000000
rad12	5.89859e-11	0.999999	5.90028e-11	1.000000
rad15	1.73161e-11	0.999999	1.73210e-11	1.000000
rad23	7.03975e-12	0.999999	7.04175e-12	1.000000
rad45	2.07908e-12	0.999999	2.07967e-12	1.000000
rad6	1.76082e-12	0.999999	1.76133e-12	1.000000
rad19anti	1.48394e-12	0.999999	1.48437e-12	1.000000
rad2	9.56052e-13	0.999999	9.56330e-13	1.000000
rad11	5.90217e-13	0.999999	5.90386e-13	1.000000
rad8	4.42250e-13	0.999999	4.42376e-13	1.000000
rad21	3.03547e-13	0.999999	3.03634e-13	1.000000
rad1	2.76550e-13	0.999999	2.76629e-13	1.000000
rad13	2.24608e-13	0.999999	2.24671e-13	1.000000
rad36	2.14288e-13	0.999999	2.14349e-13	1.000000
rad10	1.08228e-13	0.999999	1.08259e-13	1.000000
rad19syn	1.00706e-13	0.999999	1.00735e-13	1.000000
rad7	8.80878e-14	0.999999	8.81125e-14	1.000000
rad20	7.38370e-14	0.999999	7.38583e-14	1.000000
rad33	1.76734e-14	0.999999	1.76785e-14	1.000000
rad18	1.54474e-14	0.999999	1.54518e-14	1.000000
rad24	1.53474e-14	0.999999	1.53518e-14	1.000000
rad3	7.76463e-15	0.999999	7.76681e-15	1.000000
rad4	6.29456e-15	0.999999	6.29635e-15	1.000000
rad26	5.95014e-15	0.999999	5.95184e-15	1.000000
rad25	5.66816e-15	0.999999	5.66977e-15	1.000000
rad22	2.73264e-15	0.999999	2.73341e-15	1.000000
rad27	2.70903e-15	0.999999	2.70980e-15	1.000000
rad28	6.71874e-16	0.999999	6.72066e-16	1.000000
rad31	2.62744e-16	0.999999	2.62819e-16	1.000000
rad14	2.41081e-16	0.999999	2.41150e-16	1.000000
rad47	3.40952e-17	0.999999	3.41049e-17	1.000000
rad5	4.93867e-20	0.999999	4.94008e-20	1.000000

0.100000000E-01 Pa, 1400.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.19360e-12 (1.00)	6.18997e-12 (1.00)
Formation of rad19	4.34185e-12 (0.701)	4.33861e-12 (0.701)
H-abstraction to cyc2enyl	1.32990e-12 (0.215)	1.32990e-12 (0.215)
H-abstraction to cyclenyl	5.21850e-13 (0.0843)	5.21461e-13 (0.0842)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.566028	0.566028	0.566360	0.566360
Benzene+cycloprop-2-enylidene	0.214721	0.780749	0.214847	0.781207
PhCHCCH2+H	0.113526	0.894275	0.113593	0.894800
Benzene+cycloprop-1-enylidene	0.0842564	0.978532	0.0842429	0.979043
Ph+MeAc	0.00387284	0.982405	0.00387511	0.982918
Ph+Allene	0.00376036	0.986165	0.00376257	0.986680
C2H2+PhCH2	0.00367929	0.989844	0.00368145	0.990362
PhCH2CCH+H	0.00231297	0.992157	0.00231433	0.992676
PhCCCH3+H	0.00159640	0.993754	0.00159734	0.994274
rad67	0.00144410	0.995198	0.00144494	0.995719
PhcycC3H3_A+H	0.00120489	0.996403	0.00120559	0.996924
PhcycC3H3_B+H	0.00109183	0.997495	0.00109247	0.998017
PhCCH+CH3	0.000988680	0.998483	0.000989264	0.999006
Phenyl+cycC3H4	0.000523345	0.999007	0.000000	0.999006
rad35	0.000519418	0.999526	0.000519722	0.999526
PAH10+CH3	0.000132940	0.999659	0.000133019	0.999659
rad37	0.000103969	0.999763	0.000104030	0.999763
PAH7+H	9.76629e-05	0.999861	9.77202e-05	0.999860
PAH9+H	3.30452e-05	0.999894	3.30646e-05	0.999893

rad38	2.89869e-05	0.999923	2.90039e-05	0.999922
PAH3+H	2.09773e-05	0.999944	2.09896e-05	0.999943
rad30	2.03484e-05	0.999964	2.03603e-05	0.999964
rad39	1.60326e-05	0.999980	1.60420e-05	0.999980
rad46	4.60489e-06	0.999985	4.60759e-06	0.999984
rad50	3.39256e-06	0.999988	3.39456e-06	0.999988
rad59	2.10237e-06	0.999990	2.10360e-06	0.999990
PAH1+H	2.05214e-06	0.999992	2.05334e-06	0.999992
rad60syn	1.88965e-06	0.999994	1.89076e-06	0.999994
rad54	1.78086e-06	0.999996	1.78190e-06	0.999996
rad60anti	1.16973e-06	0.999997	1.17042e-06	0.999997
rad51	8.27129e-07	0.999998	8.27620e-07	0.999998
rad43	6.31782e-07	0.999998	6.32153e-07	0.999998
rad70	5.60218e-07	0.999999	5.60546e-07	0.999999
rad52	2.70714e-07	0.999999	2.70873e-07	0.999999
rad58	1.78428e-07	0.999999	1.78532e-07	0.999999
rad61	1.46278e-07	1.000000	1.46364e-07	0.999999
rad34	1.30056e-07	1.000000	1.30132e-07	1.000000
rad55	1.23571e-07	1.000000	1.23644e-07	1.000000
rad62	4.61529e-08	1.000000	4.61800e-08	1.000000
rad41	3.74002e-08	1.000000	3.74222e-08	1.000000
PAH8+H	2.63150e-08	1.000000	2.63304e-08	1.000000
rad53	2.60384e-08	1.000000	2.60537e-08	1.000000
rad65	2.42341e-08	1.000000	2.42483e-08	1.000000
rad56	2.33522e-08	1.000000	2.33660e-08	1.000000
rad71	1.41524e-08	1.000000	1.41607e-08	1.000000
rad9	1.32226e-08	1.000000	1.32304e-08	1.000000
rad73	1.20323e-08	1.000000	1.20394e-08	1.000000
rad64	8.79755e-09	1.000000	8.80273e-09	1.000000
rad68syn	6.90098e-09	1.000000	6.90504e-09	1.000000
rad40syn	4.57746e-09	1.000000	4.58014e-09	1.000000
rad68anti	4.51465e-09	1.000000	4.51730e-09	1.000000
rad40anti	3.59046e-09	1.000000	3.59257e-09	1.000000
rad42	3.00667e-09	1.000000	3.00843e-09	1.000000
rad72	3.28510e-10	1.000000	3.28702e-10	1.000000
rad12	4.68960e-11	1.000000	4.69235e-11	1.000000
rad15	4.14383e-11	1.000000	4.14626e-11	1.000000
rad23	6.53061e-12	1.000000	6.53444e-12	1.000000
rad6	2.21215e-12	1.000000	2.21345e-12	1.000000
rad45	1.92108e-12	1.000000	1.92221e-12	1.000000
rad11	1.47984e-12	1.000000	1.48071e-12	1.000000
rad19anti	1.15118e-12	1.000000	1.15186e-12	1.000000
rad2	7.07514e-13	1.000000	7.07926e-13	1.000000
rad8	5.66688e-13	1.000000	5.67021e-13	1.000000
rad21	3.67070e-13	1.000000	3.67285e-13	1.000000
rad7	3.62005e-13	1.000000	3.62218e-13	1.000000
rad10	2.84529e-13	1.000000	2.84696e-13	1.000000
rad13	2.61059e-13	1.000000	2.61212e-13	1.000000
rad1	2.06712e-13	1.000000	2.06833e-13	1.000000
rad36	1.99178e-13	1.000000	1.99295e-13	1.000000
rad19syn	8.90593e-14	1.000000	8.91116e-14	1.000000
rad20	8.29001e-14	1.000000	8.29485e-14	1.000000
rad18	5.39737e-14	1.000000	5.40053e-14	1.000000
rad24	1.80314e-14	1.000000	1.80420e-14	1.000000
rad33	1.72626e-14	1.000000	1.72727e-14	1.000000
rad26	8.25293e-15	1.000000	8.25777e-15	1.000000
rad25	7.72660e-15	1.000000	7.73118e-15	1.000000
rad3	5.46706e-15	1.000000	5.47027e-15	1.000000
rad4	4.40428e-15	1.000000	4.40686e-15	1.000000
rad27	3.50766e-15	1.000000	3.50972e-15	1.000000
rad22	3.01883e-15	1.000000	3.02060e-15	1.000000
rad28	7.85264e-16	1.000000	7.85720e-16	1.000000
rad14	3.02748e-16	1.000000	3.02926e-16	1.000000
rad31	2.62635e-16	1.000000	2.62789e-16	1.000000
rad47	7.15120e-17	1.000000	7.15538e-17	1.000000
rad5	1.69321e-18	1.000000	1.69421e-18	1.000000

0.100000000E-01 Pa, 1500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.80417e-12 (1.00)	7.79561e-12 (1.00)
Formation of rad19	5.22661e-12 (0.670)	5.21915e-12 (0.669)
H-abstraction to cyc2enyl	1.80920e-12 (0.232)	1.80920e-12 (0.232)
H-abstraction to cyc1enyl	7.68359e-13 (0.0985)	7.67262e-13 (0.0984)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.505870	0.505870	0.506425	0.506425
Benzene+cycloprop-2-enylidene	0.231825	0.737695	0.232079	0.738505

PhCHCCH2+H	0.135967	0.873662	0.136116	0.874621
Benzene+cycloprop-1-enylidene	0.0984549	0.972117	0.0984223	0.973043
Ph+MeAc	0.00470570	0.976823	0.00471086	0.977754
Ph+Allene	0.00464760	0.981470	0.00465271	0.982407
C2H2+PhCH2	0.00447301	0.985943	0.00447792	0.986885
PhCH2CCH+H	0.00304820	0.988991	0.00305154	0.989936
PhcycC3H3_A+H	0.00198976	0.990981	0.00199195	0.991928
PhcycC3H3_B+H	0.00193280	0.992914	0.00193492	0.993863
PhCCCH3+H	0.00187667	0.994791	0.00187873	0.995742
rad67	0.00179097	0.996582	0.00179294	0.997535
PhCCH+CH3	0.00117783	0.997759	0.00117912	0.998714
Phenyl+cycC3H4	0.000956146	0.998716	0.000000	0.998714
rad35	0.000644848	0.999360	0.000645556	0.999360
PAH10+CH3	0.000194191	0.999555	0.000194404	0.999554
rad37	0.000129807	0.999684	0.000129949	0.999684
PAH7+H	0.000116417	0.999801	0.000116546	0.999800
PAH9+H	4.88535e-05	0.999850	4.89072e-05	0.999849
rad38	4.16011e-05	0.999891	4.16467e-05	0.999891
PAH3+H	3.23374e-05	0.999924	3.23729e-05	0.999923
rad30	2.62808e-05	0.999950	2.63097e-05	0.999950
rad39	1.87895e-05	0.999969	1.88102e-05	0.999969
rad46	7.16199e-06	0.999976	7.16986e-06	0.999976
rad50	5.93797e-06	0.999982	5.94450e-06	0.999982
PAH1+H	3.25723e-06	0.999985	3.26081e-06	0.999985
rad59	3.16156e-06	0.999988	3.16503e-06	0.999988
rad60syn	2.67968e-06	0.999991	2.68262e-06	0.999991
rad54	2.39838e-06	0.999993	2.40102e-06	0.999993
rad60anti	1.66867e-06	0.999995	1.67050e-06	0.999995
rad51	1.57342e-06	0.999997	1.57515e-06	0.999996
rad43	9.05576e-07	0.999997	9.06568e-07	0.999997
rad70	8.42763e-07	0.999998	8.43688e-07	0.999998
rad52	4.92950e-07	0.999999	4.93491e-07	0.999999
rad58	3.04448e-07	0.999999	3.04782e-07	0.999999
rad61	2.56145e-07	0.999999	2.56426e-07	0.999999
rad34	2.04934e-07	1.000000	2.05160e-07	0.999999
rad55	1.72012e-07	1.000000	1.72201e-07	1.000000
rad62	6.20586e-08	1.000000	6.21267e-08	1.000000
rad41	5.99063e-08	1.000000	5.99721e-08	1.000000
PAH8+H	5.38671e-08	1.000000	5.39263e-08	1.000000
rad65	4.55485e-08	1.000000	4.55985e-08	1.000000
rad53	4.12866e-08	1.000000	4.13319e-08	1.000000
rad56	3.95671e-08	1.000000	3.96106e-08	1.000000
rad71	3.49994e-08	1.000000	3.50379e-08	1.000000
rad73	2.80691e-08	1.000000	2.80999e-08	1.000000
rad64	1.41255e-08	1.000000	1.41409e-08	1.000000
rad68syn	1.26336e-08	1.000000	1.26475e-08	1.000000
rad40syn	8.93588e-09	1.000000	8.94564e-09	1.000000
rad9	8.34351e-09	1.000000	8.35266e-09	1.000000
rad68anti	8.24821e-09	1.000000	8.25726e-09	1.000000
rad40anti	7.05383e-09	1.000000	7.06160e-09	1.000000
rad42	4.46777e-09	1.000000	4.47268e-09	1.000000
rad72	9.20557e-10	1.000000	9.21571e-10	1.000000
rad15	7.77391e-11	1.000000	7.78245e-11	1.000000
rad12	3.66372e-11	1.000000	3.66775e-11	1.000000
rad23	6.04656e-12	1.000000	6.05320e-12	1.000000
rad6	2.79578e-12	1.000000	2.79885e-12	1.000000
rad11	2.23593e-12	1.000000	2.23838e-12	1.000000
rad45	1.74470e-12	1.000000	1.74661e-12	1.000000
rad19anti	9.04725e-13	1.000000	9.05717e-13	1.000000
rad7	7.20565e-13	1.000000	7.21351e-13	1.000000
rad8	6.24615e-13	1.000000	6.25301e-13	1.000000
rad10	5.69402e-13	1.000000	5.70027e-13	1.000000
rad2	5.23240e-13	1.000000	5.23814e-13	1.000000
rad21	3.97620e-13	1.000000	3.98057e-13	1.000000
rad13	2.43564e-13	1.000000	2.43831e-13	1.000000
rad36	1.82111e-13	1.000000	1.82310e-13	1.000000
rad1	1.54790e-13	1.000000	1.54961e-13	1.000000
rad18	1.01612e-13	1.000000	1.01724e-13	1.000000
rad20	8.29790e-14	1.000000	8.30700e-14	1.000000
rad19syn	7.89908e-14	1.000000	7.90771e-14	1.000000
rad26	3.62221e-14	1.000000	3.62618e-14	1.000000
rad24	1.99082e-14	1.000000	1.99301e-14	1.000000
rad33	1.52243e-14	1.000000	1.52411e-14	1.000000
rad25	8.67529e-15	1.000000	8.68480e-15	1.000000
rad3	3.86475e-15	1.000000	3.86899e-15	1.000000
rad27	3.81201e-15	1.000000	3.81619e-15	1.000000
rad22	3.46941e-15	1.000000	3.47322e-15	1.000000
rad4	3.08730e-15	1.000000	3.09069e-15	1.000000
rad28	1.45694e-15	1.000000	1.45854e-15	1.000000
rad14	3.12828e-16	1.000000	3.13172e-16	1.000000

rad31	2.56266e-16	1.00000	2.56547e-16	1.000000
rad47	1.33181e-16	1.00000	1.33327e-16	1.000000
rad5	3.72549e-17	1.00000	3.72958e-17	1.000000

0.100000000E-02 Pa, 20.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.24541e-22 (1.00)	1.24541e-22 (1.00)
Formation of rad19	1.24541e-22 (1.00)	1.24541e-22 (1.00)
H-abstraction to cyc2enyl	3.84323e-68 (3.09e-46)	3.84323e-68 (3.09e-46)
H-abstraction to cyc1enyl	6.26313e-106 (5.03e-84)	6.26313e-106 (5.03e-84)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999772	0.999772	0.999772	0.999772
PhCHCCH2+H	0.000217172	0.999989	0.000217172	0.999989
PhCCH+CH3	3.74878e-06	0.999993	3.74878e-06	0.999993
C2H2+PhCH2	2.65833e-06	0.999996	2.65833e-06	0.999996
PhCCCH3+H	2.10725e-06	0.999998	2.10725e-06	0.999998
Ph+MeAc	1.55499e-06	0.999999	1.55499e-06	0.999999
rad67	4.71966e-07	1.000000	4.71966e-07	1.000000
rad35	2.09037e-07	1.000000	2.09037e-07	1.000000
Ph+Allene	1.34165e-07	1.000000	1.34165e-07	1.000000
PAH7+H	1.77837e-08	1.000000	1.77837e-08	1.000000
PhCH2CCH+H	1.62906e-08	1.000000	1.62906e-08	1.000000
rad39	5.01485e-09	1.000000	5.01485e-09	1.000000
rad37	4.62554e-09	1.000000	4.62554e-09	1.000000
rad30	3.90687e-09	1.000000	3.90687e-09	1.000000
PAH9+H	2.53423e-10	1.000000	2.53423e-10	1.000000
rad38	1.06722e-10	1.000000	1.06722e-10	1.000000
rad60syn	1.69251e-11	1.000000	1.69251e-11	1.000000
rad60anti	8.26215e-12	1.000000	8.26215e-12	1.000000
PAH3+H	6.71771e-12	1.000000	6.71771e-12	1.000000
rad46	6.40767e-12	1.000000	6.40767e-12	1.000000
PAH10+CH3	5.52551e-12	1.000000	5.52551e-12	1.000000
rad59	1.39391e-12	1.000000	1.39391e-12	1.000000
PhcycC3H3_A+H	4.13603e-13	1.000000	4.13603e-13	1.000000
rad43	2.58612e-13	1.000000	2.58612e-13	1.000000
rad54	2.04091e-13	1.000000	2.04091e-13	1.000000
rad62	5.53139e-14	1.000000	5.53139e-14	1.000000
rad50	4.21351e-14	1.000000	4.21351e-14	1.000000
rad6	6.13621e-15	1.000000	6.13621e-15	1.000000
rad70	3.11525e-15	1.000000	3.11525e-15	1.000000
rad55	1.36378e-15	1.000000	1.36378e-15	1.000000
PAH1+H	5.54098e-16	1.000000	5.54098e-16	1.000000
rad52	2.66282e-16	1.000000	2.66282e-16	1.000000
rad58	7.49480e-17	1.000000	7.49480e-17	1.000000
rad51	6.45274e-17	1.000000	6.45274e-17	1.000000
rad34	2.87766e-17	1.000000	2.87766e-17	1.000000
Phenyl+cycC3H4	2.77347e-17	1.000000	0.000000	1.000000
rad28	5.43927e-18	1.000000	5.43927e-18	1.000000
rad2	4.39285e-18	1.000000	4.39285e-18	1.000000
rad42	3.03585e-18	1.000000	3.03585e-18	1.000000
rad41	2.75984e-18	1.000000	2.75984e-18	1.000000
rad65	1.26789e-18	1.000000	1.26789e-18	1.000000
rad26	7.50290e-19	1.000000	7.50290e-19	1.000000
rad7	5.34893e-19	1.000000	5.34893e-19	1.000000
rad1	2.77482e-19	1.000000	2.77482e-19	1.000000
rad10	2.40843e-19	1.000000	2.40843e-19	1.000000
rad11	1.36002e-19	1.000000	1.36002e-19	1.000000
rad3	2.91280e-20	1.000000	2.91280e-20	1.000000
rad4	1.47118e-20	1.000000	1.47118e-20	1.000000
rad13	2.45401e-21	1.000000	2.45401e-21	1.000000
rad33	4.59219e-24	1.000000	4.59219e-24	1.000000
rad23	3.86232e-24	1.000000	3.86232e-24	1.000000
rad14	2.73545e-24	1.000000	2.73545e-24	1.000000
rad9	2.72422e-24	1.000000	2.72422e-24	1.000000
rad27	2.45124e-24	1.000000	2.45124e-24	1.000000
rad25	1.65169e-24	1.000000	1.65169e-24	1.000000
rad45	4.33889e-26	1.000000	4.33889e-26	1.000000
PhcycC3H3_B+H	2.48703e-26	1.000000	2.48703e-26	1.000000
rad36	2.66119e-27	1.000000	2.66119e-27	1.000000
rad22	1.81262e-27	1.000000	1.81262e-27	1.000000
rad15	1.20138e-27	1.000000	1.20138e-27	1.000000
rad53	1.18336e-27	1.000000	1.18336e-27	1.000000
rad47	5.43528e-28	1.000000	5.43528e-28	1.000000
rad31	7.88376e-29	1.000000	7.88376e-29	1.000000
rad20	1.16603e-29	1.000000	1.16603e-29	1.000000
rad21	8.52526e-30	1.000000	8.52526e-30	1.000000

rad5	6.45693e-30	1.00000	6.45693e-30	1.00000
rad64	5.31987e-30	1.00000	5.31987e-30	1.00000
rad18	1.25650e-31	1.00000	1.25650e-31	1.00000
rad19anti	1.95894e-32	1.00000	1.95894e-32	1.00000
rad12	1.27851e-32	1.00000	1.27851e-32	1.00000
rad24	5.44819e-34	1.00000	5.44819e-34	1.00000
rad61	5.14992e-37	1.00000	5.14992e-37	1.00000
rad56	3.96499e-39	1.00000	3.96499e-39	1.00000
rad68syn	3.00707e-41	1.00000	3.00707e-41	1.00000
rad68anti	2.57285e-41	1.00000	2.57285e-41	1.00000
rad19syn	1.37416e-42	1.00000	1.37416e-42	1.00000
Benzene+cycloprop-2-enylidene	3.08591e-46	1.00000	3.08591e-46	1.00000
rad73	2.47738e-49	1.00000	2.47738e-49	1.00000
rad40syn	3.10636e-50	1.00000	3.10636e-50	1.00000
rad40anti	2.55698e-50	1.00000	2.55698e-50	1.00000
PAH8+H	1.21081e-54	1.00000	1.21081e-54	1.00000
rad71	4.20515e-58	1.00000	4.20515e-58	1.00000
rad8	2.41530e-62	1.00000	2.41530e-62	1.00000
Benzene+cycloprop-1-enylidene	5.02895e-84	1.00000	5.02895e-84	1.00000

0.100000000E-02 Pa, 30.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.13009e-20 (1.00)	8.13009e-20 (1.00)
Formation of rad19	8.13009e-20 (1.00)	8.13009e-20 (1.00)
H-abstraction to cyc2enyl	1.08880e-49 (1.34e-30)	1.08880e-49 (1.34e-30)
H-abstraction to cyclenyl	7.55172e-75 (9.29e-56)	7.55172e-75 (9.29e-56)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999770	0.999770	0.999770	0.999770
PhCHCCH2+H	0.000218731	0.999989	0.000218731	0.999989
PhCCH+CH3	3.77865e-06	0.999993	3.77865e-06	0.999993
C2H2+PhCH2	2.68422e-06	0.999995	2.68422e-06	0.999995
PhCCCH3+H	2.12534e-06	0.999997	2.12534e-06	0.999997
Ph+MeAc	1.57133e-06	0.999999	1.57133e-06	0.999999
rad67	4.76635e-07	0.999999	4.76635e-07	0.999999
rad35	2.11020e-07	1.000000	2.11020e-07	1.000000
Ph+Allene	1.36262e-07	1.000000	1.36262e-07	1.000000
PAH7+H	1.80222e-08	1.000000	1.80222e-08	1.000000
PhCH2CCH+H	1.65870e-08	1.000000	1.65870e-08	1.000000
rad39	5.08244e-09	1.000000	5.08244e-09	1.000000
rad37	4.68442e-09	1.000000	4.68442e-09	1.000000
rad30	3.94492e-09	1.000000	3.94492e-09	1.000000
PAH9+H	2.56840e-10	1.000000	2.56840e-10	1.000000
rad38	1.08276e-10	1.000000	1.08276e-10	1.000000
rad60syn	1.71554e-11	1.000000	1.71554e-11	1.000000
rad60anti	8.37741e-12	1.000000	8.37741e-12	1.000000
PAH3+H	6.84133e-12	1.000000	6.84133e-12	1.000000
rad46	6.51046e-12	1.000000	6.51046e-12	1.000000
PAH10+CH3	5.66954e-12	1.000000	5.66954e-12	1.000000
rad59	1.41858e-12	1.000000	1.41858e-12	1.000000
PhcycC3H3_A+H	4.42384e-13	1.000000	4.42384e-13	1.000000
rad43	2.64643e-13	1.000000	2.64643e-13	1.000000
rad54	2.10145e-13	1.000000	2.10145e-13	1.000000
rad62	5.66915e-14	1.000000	5.66915e-14	1.000000
rad50	4.31270e-14	1.000000	4.31270e-14	1.000000
rad70	3.23375e-15	1.000000	3.23375e-15	1.000000
rad55	1.41771e-15	1.000000	1.41771e-15	1.000000
PAH1+H	5.82533e-16	1.000000	5.82533e-16	1.000000
rad52	2.74043e-16	1.000000	2.74043e-16	1.000000
rad6	1.57356e-16	1.000000	1.57356e-16	1.000000
rad58	7.77546e-17	1.000000	7.77546e-17	1.000000
rad51	6.68430e-17	1.000000	6.68430e-17	1.000000
Phenyl+cycC3H4	5.25631e-17	1.000000	0.000000	1.000000
rad34	3.04033e-17	1.000000	3.04033e-17	1.000000
rad42	3.20214e-18	1.000000	3.20214e-18	1.000000
rad41	2.95967e-18	1.000000	2.95967e-18	1.000000
rad65	1.31777e-18	1.000000	1.31777e-18	1.000000
rad28	1.38000e-19	1.000000	1.38000e-19	1.000000
rad2	1.03092e-19	1.000000	1.03092e-19	1.000000
rad26	1.84849e-20	1.000000	1.84849e-20	1.000000
rad7	1.29945e-20	1.000000	1.29945e-20	1.000000
rad1	6.51545e-21	1.000000	6.51545e-21	1.000000
rad10	5.51627e-21	1.000000	5.51627e-21	1.000000
rad11	3.26444e-21	1.000000	3.26444e-21	1.000000
rad3	6.69390e-22	1.000000	6.69390e-22	1.000000
rad4	3.38127e-22	1.000000	3.38127e-22	1.000000
rad13	6.28408e-23	1.000000	6.28408e-23	1.000000

rad33	1.17822e-25	1.000000	1.17822e-25	1.000000
rad9	9.83563e-26	1.000000	9.83563e-26	1.000000
rad14	6.68045e-26	1.000000	6.68045e-26	1.000000
rad27	5.78618e-26	1.000000	5.78618e-26	1.000000
rad25	4.23668e-26	1.000000	4.23668e-26	1.000000
PhcycC3H3_B+H	1.87751e-26	1.000000	1.87751e-26	1.000000
rad23	1.40740e-26	1.000000	1.40740e-26	1.000000
rad53	8.52992e-28	1.000000	8.52992e-28	1.000000
rad47	2.67971e-28	1.000000	2.67971e-28	1.000000
rad45	1.44730e-28	1.000000	1.44730e-28	1.000000
rad15	4.28399e-29	1.000000	4.28399e-29	1.000000
rad36	8.87521e-30	1.000000	8.87521e-30	1.000000
rad22	6.32814e-30	1.000000	6.32814e-30	1.000000
rad64	3.81181e-30	1.000000	3.81181e-30	1.000000
rad31	1.85359e-30	1.000000	1.85359e-30	1.000000
Benzene+cycloprop-2-enylidene	1.33923e-30	1.000000	1.33923e-30	1.000000
rad5	8.36757e-31	1.000000	8.36757e-31	1.000000
rad20	2.92354e-31	1.000000	2.92354e-31	1.000000
rad21	2.14505e-31	1.000000	2.14505e-31	1.000000
rad19anti	9.55737e-33	1.000000	9.55737e-33	1.000000
rad18	2.14652e-33	1.000000	2.14652e-33	1.000000
rad12	4.62091e-34	1.000000	4.62091e-34	1.000000
rad24	1.99719e-36	1.000000	1.99719e-36	1.000000
rad61	4.03804e-37	1.000000	4.03804e-37	1.000000
rad56	2.83564e-39	1.000000	2.83564e-39	1.000000
rad68syn	2.16145e-41	1.000000	2.16145e-41	1.000000
rad68anti	1.84911e-41	1.000000	1.84911e-41	1.000000
rad19syn	8.38610e-43	1.000000	8.38610e-43	1.000000
rad73	1.81981e-49	1.000000	1.81981e-49	1.000000
rad40syn	2.63748e-50	1.000000	2.63748e-50	1.000000
rad40anti	2.17214e-50	1.000000	2.17214e-50	1.000000
PAH8+H	1.04058e-54	1.000000	1.04058e-54	1.000000
Benzene+cycloprop-1-enylidene	9.28861e-56	1.000000	9.28861e-56	1.000000
rad71	3.23483e-58	1.000000	3.23483e-58	1.000000
rad8	1.27010e-62	1.000000	1.27010e-62	1.000000

0.100000000E-02 Pa, 40.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.24819e-18 (1.00)	2.24819e-18 (1.00)
Formation of rad19	2.24819e-18 (1.00)	2.24819e-18 (1.00)
H-abstraction to cyc2enyl	1.72361e-40 (7.67e-23)	1.72361e-40 (7.67e-23)
H-abstraction to cyclenyl	2.48792e-59 (1.11e-41)	2.48792e-59 (1.11e-41)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999767	0.999767	0.999767	0.999767
PhCHCCH2+H	0.000221741	0.999989	0.000221741	0.999989
PhCCH+CH3	3.83566e-06	0.999993	3.83566e-06	0.999993
C2H2+PhCH2	2.73258e-06	0.999995	2.73258e-06	0.999995
PhCCCH3+H	2.16031e-06	0.999997	2.16031e-06	0.999997
Ph+MeAc	1.60287e-06	0.999999	1.60287e-06	0.999999
rad67	4.85680e-07	1.000000	4.85680e-07	1.000000
rad35	2.14860e-07	1.000000	2.14860e-07	1.000000
Ph+Allene	1.39977e-07	1.000000	1.39977e-07	1.000000
PAH7+H	1.84439e-08	1.000000	1.84439e-08	1.000000
PhCH2CCH+H	1.71120e-08	1.000000	1.71120e-08	1.000000
rad39	5.20178e-09	1.000000	5.20178e-09	1.000000
rad37	4.79848e-09	1.000000	4.79848e-09	1.000000
rad30	4.01821e-09	1.000000	4.01821e-09	1.000000
PAH9+H	2.63074e-10	1.000000	2.63074e-10	1.000000
rad38	1.11142e-10	1.000000	1.11142e-10	1.000000
rad60syn	1.76003e-11	1.000000	1.76003e-11	1.000000
rad60anti	8.60018e-12	1.000000	8.60018e-12	1.000000
PAH3+H	7.08150e-12	1.000000	7.08150e-12	1.000000
rad46	6.69684e-12	1.000000	6.69684e-12	1.000000
PAH10+CH3	5.95289e-12	1.000000	5.95289e-12	1.000000
rad59	1.46645e-12	1.000000	1.46645e-12	1.000000
PhcycC3H3_A+H	5.01367e-13	1.000000	5.01367e-13	1.000000
rad43	2.76411e-13	1.000000	2.76411e-13	1.000000
rad54	2.20766e-13	1.000000	2.20766e-13	1.000000
rad62	5.93226e-14	1.000000	5.93226e-14	1.000000
rad50	4.49257e-14	1.000000	4.49257e-14	1.000000
rad70	3.44791e-15	1.000000	3.44791e-15	1.000000
rad55	1.51377e-15	1.000000	1.51377e-15	1.000000
PAH1+H	6.36768e-16	1.000000	6.36768e-16	1.000000
rad52	2.88212e-16	1.000000	2.88212e-16	1.000000
Phenyl+cycC3H4	1.15738e-16	1.000000	0.00000	1.000000
rad58	8.33388e-17	1.000000	8.33388e-17	1.000000

rad51	7.11183e-17	1.000000	7.11183e-17	1.000000
rad34	3.33987e-17	1.000000	3.33987e-17	1.000000
rad6	2.09618e-17	1.000000	2.09618e-17	1.000000
rad42	3.54991e-18	1.000000	3.54991e-18	1.000000
rad41	3.38557e-18	1.000000	3.38557e-18	1.000000
rad65	1.41042e-18	1.000000	1.41042e-18	1.000000
rad28	1.84059e-20	1.000000	1.84059e-20	1.000000
rad2	1.30875e-20	1.000000	1.30875e-20	1.000000
rad26	2.41778e-21	1.000000	2.41778e-21	1.000000
rad7	1.68687e-21	1.000000	1.68687e-21	1.000000
rad1	8.28060e-22	1.000000	8.28060e-22	1.000000
rad10	6.92039e-22	1.000000	6.92039e-22	1.000000
rad11	4.21775e-22	1.000000	4.21775e-22	1.000000
rad3	8.42199e-23	1.000000	8.42199e-23	1.000000
Benzene+cycloprop-2-enylidene	7.66665e-23	1.000000	7.66665e-23	1.000000
rad4	4.25516e-23	1.000000	4.25516e-23	1.000000
rad13	8.37426e-24	1.000000	8.37426e-24	1.000000
PhcycC3H3_B+H	8.59744e-25	1.000000	8.59744e-25	1.000000
rad9	1.73417e-26	1.000000	1.73417e-26	1.000000
rad33	1.57161e-26	1.000000	1.57161e-26	1.000000
rad14	8.73001e-27	1.000000	8.73001e-27	1.000000
rad27	7.39372e-27	1.000000	7.39372e-27	1.000000
rad25	5.65655e-27	1.000000	5.65655e-27	1.000000
rad53	1.27643e-27	1.000000	1.27643e-27	1.000000
rad23	6.30265e-28	1.000000	6.30265e-28	1.000000
rad47	1.80567e-28	1.000000	1.80567e-28	1.000000
rad15	7.52782e-30	1.000000	7.52782e-30	1.000000
rad45	6.19103e-30	1.000000	6.19103e-30	1.000000
rad64	5.66702e-30	1.000000	5.66702e-30	1.000000
rad36	3.79522e-31	1.000000	3.79522e-31	1.000000
rad22	2.85654e-31	1.000000	2.85654e-31	1.000000
rad5	2.76761e-31	1.000000	2.76761e-31	1.000000
rad31	2.36892e-31	1.000000	2.36892e-31	1.000000
rad20	3.93781e-32	1.000000	3.93781e-32	1.000000
rad21	2.89428e-32	1.000000	2.89428e-32	1.000000
rad19anti	7.61547e-33	1.000000	7.61547e-33	1.000000
rad18	2.47353e-34	1.000000	2.47353e-34	1.000000
rad12	8.16587e-35	1.000000	8.16587e-35	1.000000
rad61	6.84423e-37	1.000000	6.84423e-37	1.000000
rad24	9.07218e-38	1.000000	9.07218e-38	1.000000
rad56	4.50383e-39	1.000000	4.50383e-39	1.000000
rad68syn	3.49003e-41	1.000000	3.49003e-41	1.000000
rad68anti	2.98417e-41	1.000000	2.98417e-41	1.000000
Benzene+cycloprop-1-enylidene	1.10663e-41	1.000000	1.10663e-41	1.000000
rad19syn	8.61360e-43	1.000000	8.61360e-43	1.000000
rad73	3.11591e-49	1.000000	3.11591e-49	1.000000
rad40syn	5.49105e-50	1.000000	5.49105e-50	1.000000
rad40anti	4.52148e-50	1.000000	4.52148e-50	1.000000
PAH8+H	2.27645e-54	1.000000	2.27645e-54	1.000000
rad71	6.18540e-58	1.000000	6.18540e-58	1.000000
rad8	9.77103e-63	1.000000	9.77103e-63	1.000000

0.100000000E-02 Pa, 50.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.72707e-17 (1.00)	1.72707e-17 (1.00)
Formation of rad19	1.72707e-17 (1.00)	1.72707e-17 (1.00)
H-abstraction to cyc2enyl	5.49905e-35 (3.18e-18)	5.49905e-35 (3.18e-18)
H-abstraction to cyclenyl	4.93090e-50 (2.86e-33)	4.93090e-50 (2.86e-33)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999763	0.999763	0.999763	0.999763
PhCHCCH2+H	0.000225653	0.999989	0.000225653	0.999989
PhCCH+CH3	3.90964e-06	0.999993	3.90964e-06	0.999993
C2H2+PhCH2	2.79542e-06	0.999995	2.79542e-06	0.999995
PhCCCH3+H	2.20587e-06	0.999998	2.20587e-06	0.999998
Ph+MeAc	1.64408e-06	0.999999	1.64408e-06	0.999999
rad67	4.97501e-07	1.000000	4.97501e-07	1.000000
rad35	2.19873e-07	1.000000	2.19873e-07	1.000000
Ph+Allene	1.44817e-07	1.000000	1.44817e-07	1.000000
PAH7+H	1.89908e-08	1.000000	1.89908e-08	1.000000
PhCH2CCH+H	1.77990e-08	1.000000	1.77990e-08	1.000000
rad39	5.35657e-09	1.000000	5.35657e-09	1.000000
rad37	4.94837e-09	1.000000	4.94837e-09	1.000000
rad30	4.11394e-09	1.000000	4.11394e-09	1.000000
PAH9+H	2.71211e-10	1.000000	2.71211e-10	1.000000
rad38	1.14897e-10	1.000000	1.14897e-10	1.000000
rad60syn	1.81862e-11	1.000000	1.81862e-11	1.000000

rad60anti	8.89374e-12	1.00000	8.89374e-12	1.00000
PAH3+H	7.40101e-12	1.00000	7.40101e-12	1.00000
rad46	6.94097e-12	1.00000	6.94097e-12	1.00000
PAH10+CH3	6.33573e-12	1.00000	6.33573e-12	1.00000
rad59	1.53004e-12	1.00000	1.53004e-12	1.00000
PhcycC3H3_A+H	5.85915e-13	1.00000	5.85915e-13	1.00000
rad43	2.92198e-13	1.00000	2.92198e-13	1.00000
rad54	2.34899e-13	1.00000	2.34899e-13	1.00000
rad62	6.28466e-14	1.00000	6.28466e-14	1.00000
rad50	4.73134e-14	1.00000	4.73134e-14	1.00000
rad70	3.73853e-15	1.00000	3.73853e-15	1.00000
rad55	1.64356e-15	1.00000	1.64356e-15	1.00000
PAH1+H	7.12643e-16	1.00000	7.12643e-16	1.00000
rad52	3.07223e-16	1.00000	3.07223e-16	1.00000
Phenyl+cycC3H4	2.36668e-16	1.00000	0.00000	1.00000
rad58	9.10482e-17	1.00000	9.10482e-17	1.00000
rad51	7.69324e-17	1.00000	7.69324e-17	1.00000
rad34	3.75169e-17	1.00000	3.75169e-17	1.00000
rad6	5.23562e-18	1.00000	5.23562e-18	1.00000
rad42	4.07015e-18	1.00000	4.07015e-18	1.00000
rad41	4.02244e-18	1.00000	4.02244e-18	1.00000
Benzene+cycloprop-2-enylidene	3.18404e-18	1.00000	3.18404e-18	1.00000
rad65	1.53722e-18	1.00000	1.53722e-18	1.00000
rad28	4.61767e-21	1.00000	4.61767e-21	1.00000
rad2	3.16484e-21	1.00000	3.16484e-21	1.00000
rad26	5.98128e-22	1.00000	5.98128e-22	1.00000
rad7	4.14732e-22	1.00000	4.14732e-22	1.00000
PhcycC3H3_B+H	2.98351e-22	1.00000	2.98351e-22	1.00000
rad1	2.00568e-22	1.00000	2.00568e-22	1.00000
rad10	1.66131e-22	1.00000	1.66131e-22	1.00000
rad11	1.03441e-22	1.00000	1.03441e-22	1.00000
rad3	2.02626e-23	1.00000	2.02626e-23	1.00000
rad4	1.02410e-23	1.00000	1.02410e-23	1.00000
rad13	2.09394e-24	1.00000	2.09394e-24	1.00000
rad53	1.10604e-26	1.00000	1.10604e-26	1.00000
rad9	5.62657e-27	1.00000	5.62657e-27	1.00000
rad33	3.93300e-27	1.00000	3.93300e-27	1.00000
rad14	2.16039e-27	1.00000	2.16039e-27	1.00000
rad27	1.79961e-27	1.00000	1.79961e-27	1.00000
rad25	1.41714e-27	1.00000	1.41714e-27	1.00000
rad47	1.37896e-28	1.00000	1.37896e-28	1.00000
rad23	7.52734e-29	1.00000	7.52734e-29	1.00000
rad64	1.95935e-29	1.00000	1.95935e-29	1.00000
rad15	2.44006e-30	1.00000	2.44006e-30	1.00000
rad45	7.17541e-31	1.00000	7.17541e-31	1.00000
rad5	1.30040e-31	1.00000	1.30040e-31	1.00000
rad31	5.78847e-32	1.00000	5.78847e-32	1.00000
rad36	4.39683e-32	1.00000	4.39683e-32	1.00000
rad22	3.50353e-32	1.00000	3.50353e-32	1.00000
rad20	1.00910e-32	1.00000	1.00910e-32	1.00000
rad19anti	7.59013e-33	1.00000	7.59013e-33	1.00000
rad21	7.42812e-33	1.00000	7.42812e-33	1.00000
Benzene+cycloprop-1-enylidene	2.85507e-33	1.00000	2.85507e-33	1.00000
rad18	5.82108e-35	1.00000	5.82108e-35	1.00000
rad12	2.65811e-35	1.00000	2.65811e-35	1.00000
rad61	1.95884e-36	1.00000	1.95884e-36	1.00000
rad56	1.22418e-38	1.00000	1.22418e-38	1.00000
rad24	1.10660e-38	1.00000	1.10660e-38	1.00000
rad68syn	9.71912e-41	1.00000	9.71912e-41	1.00000
rad68anti	8.30395e-41	1.00000	8.30395e-41	1.00000
rad19syn	1.15714e-42	1.00000	1.15714e-42	1.00000
rad73	9.47783e-49	1.00000	9.47783e-49	1.00000
rad40syn	2.13195e-49	1.00000	2.13195e-49	1.00000
rad40anti	1.75420e-49	1.00000	1.75420e-49	1.00000
PAH8+H	9.60348e-54	1.00000	9.60348e-54	1.00000
rad71	2.23031e-57	1.00000	2.23031e-57	1.00000
rad8	9.05773e-63	1.00000	9.05773e-63	1.00000

0.100000000E-02 Pa, 60.000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	6.93738e-17 (1.00)	6.93738e-17 (1.00)		
Formation of rad19	6.93738e-17 (1.000)	6.93738e-17 (1.000)		
H-abstraction to cyc2enyl	2.50609e-31 (3.61e-15)	2.50609e-31 (3.61e-15)		
H-abstraction to cyclenyl	7.62015e-44 (1.10e-27)	7.62015e-44 (1.10e-27)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999758	0.999758	0.999758	0.999758

PhCHCCH2+H	0.000230117	0.999988	0.000230117	0.999988
PhCCH+CH3	3.99403e-06	0.999992	3.99403e-06	0.999992
C2H2+PhCH2	2.86746e-06	0.999995	2.86746e-06	0.999995
PhCCCH3+H	2.25802e-06	0.999997	2.25802e-06	0.999997
Ph+MeAc	1.69150e-06	0.999999	1.69150e-06	0.999999
rad67	5.11087e-07	0.999999	5.11087e-07	0.999999
rad35	2.25629e-07	1.000000	2.25629e-07	1.000000
Ph+Allene	1.50427e-07	1.000000	1.50427e-07	1.000000
PAH7+H	1.96212e-08	1.000000	1.96212e-08	1.000000
PhCH2CCH+H	1.86000e-08	1.000000	1.86000e-08	1.000000
rad39	5.53491e-09	1.000000	5.53491e-09	1.000000
rad37	5.12200e-09	1.000000	5.12200e-09	1.000000
rad30	4.22398e-09	1.000000	4.22398e-09	1.000000
PAH9+H	2.80622e-10	1.000000	2.80622e-10	1.000000
rad38	1.19259e-10	1.000000	1.19259e-10	1.000000
rad60syn	1.88670e-11	1.000000	1.88670e-11	1.000000
rad60anti	9.23515e-12	1.000000	9.23515e-12	1.000000
PAH3+H	7.77720e-12	1.000000	7.77720e-12	1.000000
rad46	7.22504e-12	1.000000	7.22504e-12	1.000000
PAH10+CH3	6.79534e-12	1.000000	6.79534e-12	1.000000
rad59	1.60476e-12	1.000000	1.60476e-12	1.000000
PhcycC3H3_A+H	6.95696e-13	1.000000	6.95696e-13	1.000000
rad43	3.10982e-13	1.000000	3.10982e-13	1.000000
rad54	2.51783e-13	1.000000	2.51783e-13	1.000000
rad62	6.70429e-14	1.000000	6.70429e-14	1.000000
rad50	5.01433e-14	1.000000	5.01433e-14	1.000000
rad70	4.09342e-15	1.000000	4.09342e-15	1.000000
Benzene+cycloprop-2-enylidene	3.61245e-15	1.000000	3.61245e-15	1.000000
rad55	1.80161e-15	1.000000	1.80161e-15	1.000000
PAH1+H	8.08338e-16	1.000000	8.08338e-16	1.000000
Phenyl+cycC3H4	4.45921e-16	1.000000	0.000000	1.000000
rad52	3.30065e-16	1.000000	3.30065e-16	1.000000
rad58	1.00568e-16	1.000000	1.00568e-16	1.000000
rad51	8.40360e-17	1.000000	8.40360e-17	1.000000
rad34	4.26702e-17	1.000000	4.26702e-17	1.000000
rad41	4.86891e-18	1.000000	4.86891e-18	1.000000
rad42	4.76046e-18	1.000000	4.76046e-18	1.000000
rad6	1.82352e-18	1.000000	1.82352e-18	1.000000
rad65	1.69339e-18	1.000000	1.69339e-18	1.000000
PhcycC3H3_B+H	1.47019e-20	1.000000	1.47019e-20	1.000000
rad28	1.61727e-21	1.000000	1.61727e-21	1.000000
rad2	1.07618e-21	1.000000	1.07618e-21	1.000000
rad26	2.07306e-22	1.000000	2.07306e-22	1.000000
rad7	1.42902e-22	1.000000	1.42902e-22	1.000000
rad1	6.83389e-23	1.000000	6.83389e-23	1.000000
rad10	5.62094e-23	1.000000	5.62094e-23	1.000000
rad11	3.55895e-23	1.000000	3.55895e-23	1.000000
rad3	6.86757e-24	1.000000	6.86757e-24	1.000000
rad4	3.47249e-24	1.000000	3.47249e-24	1.000000
rad13	7.30419e-25	1.000000	7.30419e-25	1.000000
rad53	3.81911e-25	1.000000	3.81911e-25	1.000000
rad9	2.53548e-27	1.000000	2.53548e-27	1.000000
rad33	1.37309e-27	1.000000	1.37309e-27	1.000000
Benzene+cycloprop-1-enylidene	1.09842e-27	1.000000	1.09842e-27	1.000000
rad64	9.75018e-28	1.000000	9.75018e-28	1.000000
rad14	7.49055e-28	1.000000	7.49055e-28	1.000000
rad27	6.15838e-28	1.000000	6.15838e-28	1.000000
rad25	4.95308e-28	1.000000	4.95308e-28	1.000000
rad47	1.12920e-28	1.000000	1.12920e-28	1.000000
rad23	1.51724e-29	1.000000	1.51724e-29	1.000000
rad15	1.09960e-30	1.000000	1.09960e-30	1.000000
rad45	1.41504e-31	1.000000	1.41504e-31	1.000000
rad5	7.36192e-32	1.000000	7.36192e-32	1.000000
rad31	1.99500e-32	1.000000	1.99500e-32	1.000000
rad19anti	8.81947e-33	1.000000	8.81947e-33	1.000000
rad36	8.66738e-33	1.000000	8.66738e-33	1.000000
rad22	7.31478e-33	1.000000	7.31478e-33	1.000000
rad20	3.63811e-33	1.000000	3.63811e-33	1.000000
rad21	2.68218e-33	1.000000	2.68218e-33	1.000000
rad61	5.83707e-35	1.000000	5.83707e-35	1.000000
rad18	1.98941e-35	1.000000	1.98941e-35	1.000000
rad12	1.20265e-35	1.000000	1.20265e-35	1.000000
rad56	6.23636e-38	1.000000	6.23636e-38	1.000000
rad24	2.29487e-39	1.000000	2.29487e-39	1.000000
rad68syn	5.08547e-40	1.000000	5.08547e-40	1.000000
rad68anti	4.34104e-40	1.000000	4.34104e-40	1.000000
rad19syn	1.80508e-42	1.000000	1.80508e-42	1.000000
rad73	5.49680e-48	1.000000	5.49680e-48	1.000000
rad40syn	1.55236e-48	1.000000	1.55236e-48	1.000000
rad40anti	1.27541e-48	1.000000	1.27541e-48	1.000000

PAH8+H	7.84604e-53	1.000000	7.84604e-53	1.000000
rad71	1.59509e-56	1.000000	1.59509e-56	1.000000
rad8	9.44471e-63	1.000000	9.44471e-63	1.000000

0.100000000E-02 Pa, 70.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.91520e-16 (1.00)	1.91520e-16 (1.00)
Formation of rad19	1.91520e-16 (1.000)	1.91520e-16 (1.000)
H-abstraction to cyc2enyl	1.01125e-28 (5.28e-13)	1.01125e-28 (5.28e-13)
H-abstraction to cyc1enyl	1.97822e-39 (1.03e-23)	1.97822e-39 (1.03e-23)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999753	0.999753	0.999753	0.999753
PhCHCCH2+H	0.000235003	0.999988	0.000235003	0.999988
PhCCH+CH3	4.08638e-06	0.999992	4.08638e-06	0.999992
C2H2+PhCH2	2.94679e-06	0.999995	2.94679e-06	0.999995
PhCCCH3+H	2.31529e-06	0.999997	2.31529e-06	0.999997
Ph+MeAc	1.74388e-06	0.999999	1.74388e-06	0.999999
rad67	5.26080e-07	1.000000	5.26080e-07	1.000000
rad35	2.31974e-07	1.000000	2.31974e-07	1.000000
Ph+Allene	1.56692e-07	1.000000	1.56692e-07	1.000000
PAH7+H	2.03206e-08	1.000000	2.03206e-08	1.000000
PhCH2CCH+H	1.95010e-08	1.000000	1.95010e-08	1.000000
rad39	5.73278e-09	1.000000	5.73278e-09	1.000000
rad37	5.31535e-09	1.000000	5.31535e-09	1.000000
rad30	4.34545e-09	1.000000	4.34545e-09	1.000000
PAH9+H	2.91102e-10	1.000000	2.91102e-10	1.000000
rad38	1.24138e-10	1.000000	1.24138e-10	1.000000
rad60syn	1.96277e-11	1.000000	1.96277e-11	1.000000
rad60anti	9.61711e-12	1.000000	9.61711e-12	1.000000
PAH3+H	8.20404e-12	1.000000	8.20404e-12	1.000000
rad46	7.54360e-12	1.000000	7.54360e-12	1.000000
PAH10+CH3	7.32846e-12	1.000000	7.32846e-12	1.000000
rad59	1.68933e-12	1.000000	1.68933e-12	1.000000
PhcycC3H3_A+H	8.34908e-13	1.000000	8.34908e-13	1.000000
Benzene+cycloprop-2-enylidene	5.28015e-13	1.000000	5.28015e-13	1.000000
rad43	3.32553e-13	1.000000	3.32553e-13	1.000000
rad54	2.71320e-13	1.000000	2.71320e-13	1.000000
rad62	7.18673e-14	1.000000	7.18673e-14	1.000000
rad50	5.33849e-14	1.000000	5.33849e-14	1.000000
rad70	4.51393e-15	1.000000	4.51393e-15	1.000000
rad55	1.98858e-15	1.000000	1.98858e-15	1.000000
PAH1+H	9.25755e-16	1.000000	9.25755e-16	1.000000
Phenyl+cycC3H4	7.87809e-16	1.000000	0.000000	1.000000
rad52	3.56646e-16	1.000000	3.56646e-16	1.000000
rad58	1.11974e-16	1.000000	1.11974e-16	1.000000
rad51	9.24593e-17	1.000000	9.24593e-17	1.000000
rad34	4.89840e-17	1.000000	4.89840e-17	1.000000
rad41	5.95288e-18	1.000000	5.95288e-18	1.000000
rad42	5.63955e-18	1.000000	5.63955e-18	1.000000
rad65	1.88024e-18	1.000000	1.88024e-18	1.000000
rad6	7.79884e-19	1.000000	7.79884e-19	1.000000
PhcycC3H3_B+H	2.38335e-19	1.000000	2.38335e-19	1.000000
rad28	6.95813e-22	1.000000	6.95813e-22	1.000000
rad2	4.51682e-22	1.000000	4.51682e-22	1.000000
rad26	8.84905e-23	1.000000	8.84905e-23	1.000000
rad7	6.06417e-23	1.000000	6.06417e-23	1.000000
rad1	2.87495e-23	1.000000	2.87495e-23	1.000000
rad10	2.35061e-23	1.000000	2.35061e-23	1.000000
rad11	1.50886e-23	1.000000	1.50886e-23	1.000000
Benzene+cycloprop-1-enylidene	1.03290e-23	1.000000	1.03290e-23	1.000000
rad53	5.59114e-24	1.000000	5.59114e-24	1.000000
rad3	2.87589e-24	1.000000	2.87589e-24	1.000000
rad4	1.45491e-24	1.000000	1.45491e-24	1.000000
rad13	3.12958e-25	1.000000	3.12958e-25	1.000000
rad64	3.41889e-26	1.000000	3.41889e-26	1.000000
rad9	1.40495e-27	1.000000	1.40495e-27	1.000000
rad33	5.88847e-28	1.000000	5.88847e-28	1.000000
rad14	3.19782e-28	1.000000	3.19782e-28	1.000000
rad27	2.60077e-28	1.000000	2.60077e-28	1.000000
rad25	2.12644e-28	1.000000	2.12644e-28	1.000000
rad47	9.67598e-29	1.000000	9.67598e-29	1.000000
rad23	4.23058e-30	1.000000	4.23058e-30	1.000000
rad15	6.09639e-31	1.000000	6.09639e-31	1.000000
rad61	5.69538e-32	1.000000	5.69538e-32	1.000000
rad5	4.67832e-32	1.000000	4.67832e-32	1.000000
rad45	3.87939e-32	1.000000	3.87939e-32	1.000000

rad19anti	1.15193e-32	1.00000	1.15193e-32	1.00000
rad31	8.50942e-33	1.00000	8.50942e-33	1.00000
rad36	2.37545e-33	1.00000	2.37545e-33	1.00000
rad22	2.12155e-33	1.00000	2.12155e-33	1.00000
rad20	1.62048e-33	1.00000	1.62048e-33	1.00000
rad21	1.19663e-33	1.00000	1.19663e-33	1.00000
rad56	2.42296e-35	1.00000	2.42296e-35	1.00000
rad18	8.54372e-36	1.00000	8.54372e-36	1.00000
rad12	6.69502e-36	1.00000	6.69502e-36	1.00000
rad68syn	8.42595e-39	1.00000	8.42595e-39	1.00000
rad68anti	7.18704e-39	1.00000	7.18704e-39	1.00000
rad24	6.63776e-40	1.00000	6.63776e-40	1.00000
rad19syn	3.07655e-42	1.00000	3.07655e-42	1.00000
rad73	9.79983e-47	1.00000	9.79983e-47	1.00000
rad40syn	2.86892e-47	1.00000	2.86892e-47	1.00000
rad40anti	2.35086e-47	1.00000	2.35086e-47	1.00000
PAH8+H	1.67586e-51	1.00000	1.67586e-51	1.00000
rad71	3.39149e-55	1.00000	3.39149e-55	1.00000
rad8	1.06882e-62	1.00000	1.06882e-62	1.00000

0.100000000E-02 Pa, 80.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.17084e-16 (1.00)	4.17084e-16 (1.00)
Formation of rad19	4.17084e-16 (1.000)	4.17084e-16 (1.000)
H-abstraction to cyc2enyl	8.98751e-27 (2.15e-11)	8.98751e-27 (2.15e-11)
H-abstraction to cyclenyl	4.00120e-36 (9.59e-21)	4.00120e-36 (9.59e-21)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999747	0.999747	0.999747	0.999747
PhCHCCH2+H	0.000240275	0.999987	0.000240275	0.999987
PhCCH+CH3	4.18601e-06	0.999991	4.18601e-06	0.999991
C2H2+PhCH2	3.03297e-06	0.999994	3.03297e-06	0.999994
PhCCCH3+H	2.37730e-06	0.999997	2.37730e-06	0.999997
Ph+MeAc	1.80096e-06	0.999999	1.80096e-06	0.999999
rad67	5.42400e-07	0.999999	5.42400e-07	0.999999
rad35	2.38871e-07	0.999999	2.38871e-07	0.999999
Ph+Allene	1.63607e-07	1.000000	1.63607e-07	1.000000
PAH7+H	2.10872e-08	1.000000	2.10872e-08	1.000000
PhCH2CCH+H	2.05029e-08	1.000000	2.05029e-08	1.000000
rad39	5.94960e-09	1.000000	5.94960e-09	1.000000
rad37	5.52787e-09	1.000000	5.52787e-09	1.000000
rad30	4.47771e-09	1.000000	4.47771e-09	1.000000
PAH9+H	3.02627e-10	1.000000	3.02627e-10	1.000000
rad38	1.29531e-10	1.000000	1.29531e-10	1.000000
Benzene+cycloprop-2-enylidene	2.15484e-11	1.000000	2.15484e-11	1.000000
rad60syn	2.04673e-11	1.000000	2.04673e-11	1.000000
rad60anti	1.00391e-11	1.000000	1.00391e-11	1.000000
PAH3+H	8.68289e-12	1.000000	8.68289e-12	1.000000
PAH10+CH3	7.94091e-12	1.000000	7.94091e-12	1.000000
rad46	7.89668e-12	1.000000	7.89668e-12	1.000000
rad59	1.78396e-12	1.000000	1.78396e-12	1.000000
PhcycC3H3_A+H	1.01059e-12	1.000000	1.01059e-12	1.000000
rad43	3.57061e-13	1.000000	3.57061e-13	1.000000
rad54	2.93729e-13	1.000000	2.93729e-13	1.000000
rad62	7.73563e-14	1.000000	7.73563e-14	1.000000
rad50	5.70619e-14	1.000000	5.70619e-14	1.000000
rad70	5.00850e-15	1.000000	5.00850e-15	1.000000
rad55	2.20831e-15	1.000000	2.20831e-15	1.000000
Phenyl+cycC3H4	1.32430e-15	1.000000	0.00000	1.000000
PAH1+H	1.06910e-15	1.000000	1.06910e-15	1.000000
rad52	3.87316e-16	1.000000	3.87316e-16	1.000000
rad58	1.25544e-16	1.000000	1.25544e-16	1.000000
rad51	1.02379e-16	1.000000	1.02379e-16	1.000000
rad34	5.67026e-17	1.000000	5.67026e-17	1.000000
rad41	7.32879e-18	1.000000	7.32879e-18	1.000000
rad42	6.74493e-18	1.000000	6.74493e-18	1.000000
rad65	2.10239e-18	1.000000	2.10239e-18	1.000000
PhcycC3H3_B+H	1.96138e-18	1.000000	1.96138e-18	1.000000
rad6	3.83225e-19	1.000000	3.83225e-19	1.000000
Benzene+cycloprop-1-enylidene	9.59328e-21	1.000000	9.59328e-21	1.000000
rad28	3.43996e-22	1.000000	3.43996e-22	1.000000
rad2	2.18572e-22	1.000000	2.18572e-22	1.000000
rad26	4.34908e-23	1.000000	4.34908e-23	1.000000
rad53	4.19184e-23	1.000000	4.19184e-23	1.000000
rad7	2.96244e-23	1.000000	2.96244e-23	1.000000
rad1	1.39488e-23	1.000000	1.39488e-23	1.000000
rad10	1.13440e-23	1.000000	1.13440e-23	1.000000

rad11	7.36651e-24	1.000000	7.36651e-24	1.000000
rad3	1.38944e-24	1.000000	1.38944e-24	1.000000
rad4	7.03345e-25	1.000000	7.03345e-25	1.000000
rad64	5.09754e-25	1.000000	5.09754e-25	1.000000
rad13	1.54100e-25	1.000000	1.54100e-25	1.000000
rad9	8.97903e-28	1.000000	8.97903e-28	1.000000
rad33	2.90222e-28	1.000000	2.90222e-28	1.000000
rad14	1.57130e-28	1.000000	1.57130e-28	1.000000
rad27	1.26617e-28	1.000000	1.26617e-28	1.000000
rad25	1.04917e-28	1.000000	1.04917e-28	1.000000
rad47	8.56448e-29	1.000000	8.56448e-29	1.000000
rad61	8.42146e-30	1.000000	8.42146e-30	1.000000
rad23	1.47011e-30	1.000000	1.47011e-30	1.000000
rad15	3.89956e-31	1.000000	3.89956e-31	1.000000
rad5	3.21501e-32	1.000000	3.21501e-32	1.000000
rad19anti	1.65425e-32	1.000000	1.65425e-32	1.000000
rad45	1.32983e-32	1.000000	1.32983e-32	1.000000
rad56	1.32187e-32	1.000000	1.32187e-32	1.000000
rad31	4.19526e-33	1.000000	4.19526e-33	1.000000
rad20	8.33094e-34	1.000000	8.33094e-34	1.000000
rad36	8.14131e-34	1.000000	8.14131e-34	1.000000
rad22	7.68334e-34	1.000000	7.68334e-34	1.000000
rad21	6.16247e-34	1.000000	6.16247e-34	1.000000
rad68syn	1.87541e-34	1.000000	1.87541e-34	1.000000
rad68anti	1.57941e-34	1.000000	1.57941e-34	1.000000
rad12	4.30087e-36	1.000000	4.30087e-36	1.000000
rad18	4.27809e-36	1.000000	4.27809e-36	1.000000
rad24	2.41469e-40	1.000000	2.41469e-40	1.000000
rad19syn	5.56519e-42	1.000000	5.56519e-42	1.000000
rad73	1.03864e-44	1.000000	1.03864e-44	1.000000
rad40syn	2.29317e-45	1.000000	2.29317e-45	1.000000
rad40anti	1.87123e-45	1.000000	1.87123e-45	1.000000
PAH8+H	1.56390e-49	1.000000	1.56390e-49	1.000000
rad71	3.90410e-53	1.000000	3.90410e-53	1.000000
rad8	1.28527e-62	1.000000	1.28527e-62	1.000000

0.100000000E-02 Pa, 90.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.74016e-16 (1.00)	7.74016e-16 (1.00)
Formation of rad19	7.74016e-16 (1.000)	7.74016e-16 (1.000)
H-abstraction to cyc2enyl	2.91736e-25 (3.77e-10)	2.91736e-25 (3.77e-10)
H-abstraction to cyclenyl	1.47814e-33 (1.91e-18)	1.47814e-33 (1.91e-18)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999741	0.999741	0.999741	0.999741
PhCHCCH2+H	0.000245930	0.999987	0.000245930	0.999987
PhCCH+CH3	4.29286e-06	0.999991	4.29286e-06	0.999991
C2H2+PhCH2	3.12610e-06	0.999994	3.12610e-06	0.999994
PhCCCH3+H	2.44408e-06	0.999997	2.44408e-06	0.999997
Ph+MeAc	1.86284e-06	0.999999	1.86284e-06	0.999999
rad67	5.60070e-07	0.999999	5.60070e-07	0.999999
rad35	2.46329e-07	0.999999	2.46329e-07	0.999999
Ph+Allene	1.71209e-07	1.000000	1.71209e-07	1.000000
PAH7+H	2.19237e-08	1.000000	2.19237e-08	1.000000
PhCH2CCH+H	2.16133e-08	1.000000	2.16133e-08	1.000000
rad39	6.18612e-09	1.000000	6.18612e-09	1.000000
rad37	5.76039e-09	1.000000	5.76039e-09	1.000000
rad30	4.62099e-09	1.000000	4.62099e-09	1.000000
Benzene+cycloprop-2-enylidene	3.76912e-10	1.000000	3.76912e-10	1.000000
PAH9+H	3.15249e-10	1.000000	3.15249e-10	1.000000
rad38	1.35469e-10	1.000000	1.35469e-10	1.000000
rad60syn	2.13899e-11	1.000000	2.13899e-11	1.000000
rad60anti	1.05034e-11	1.000000	1.05034e-11	1.000000
PAH3+H	9.21838e-12	1.000000	9.21838e-12	1.000000
PAH10+CH3	8.64324e-12	1.000000	8.64324e-12	1.000000
rad46	8.28658e-12	1.000000	8.28658e-12	1.000000
rad59	1.88949e-12	1.000000	1.88949e-12	1.000000
PhcycC3H3_A+H	1.23242e-12	1.000000	1.23242e-12	1.000000
rad43	3.84835e-13	1.000000	3.84835e-13	1.000000
rad54	3.19395e-13	1.000000	3.19395e-13	1.000000
rad62	8.35853e-14	1.000000	8.35853e-14	1.000000
rad50	6.12244e-14	1.000000	6.12244e-14	1.000000
rad70	5.59013e-15	1.000000	5.59013e-15	1.000000
rad55	2.46665e-15	1.000000	2.46665e-15	1.000000
Phenyl+cycC3H4	2.14284e-15	1.000000	0.00000	1.000000
PAH1+H	1.24448e-15	1.000000	1.24448e-15	1.000000
rad52	4.22676e-16	1.000000	4.22676e-16	1.000000

rad58	1.41698e-16	1.000000	1.41698e-16	1.000000
rad51	1.14066e-16	1.000000	1.14066e-16	1.000000
rad34	6.61673e-17	1.000000	6.61673e-17	1.000000
PhcycC3H3_B+H	1.04002e-17	1.000000	1.04002e-17	1.000000
rad41	9.07842e-18	1.000000	9.07842e-18	1.000000
rad42	8.13252e-18	1.000000	8.13252e-18	1.000000
rad65	2.36675e-18	1.000000	2.36675e-18	1.000000
Benzene+cycloprop-1-enylidene	1.90970e-18	1.000000	1.90970e-18	1.000000
rad6	2.08085e-19	1.000000	2.08085e-19	1.000000
rad53	2.02223e-22	1.000000	2.02223e-22	1.000000
rad28	1.87915e-22	1.000000	1.87915e-22	1.000000
rad2	1.17168e-22	1.000000	1.17168e-22	1.000000
rad26	2.36574e-23	1.000000	2.36574e-23	1.000000
rad7	1.60132e-23	1.000000	1.60132e-23	1.000000
rad1	7.49936e-24	1.000000	7.49936e-24	1.000000
rad10	6.06860e-24	1.000000	6.06860e-24	1.000000
rad64	4.24427e-24	1.000000	4.24427e-24	1.000000
rad11	3.98034e-24	1.000000	3.98034e-24	1.000000
rad3	7.43967e-25	1.000000	7.43967e-25	1.000000
rad4	3.76864e-25	1.000000	3.76864e-25	1.000000
rad13	8.38615e-26	1.000000	8.38615e-26	1.000000
rad9	6.37419e-28	1.000000	6.37419e-28	1.000000
rad61	4.05769e-28	1.000000	4.05769e-28	1.000000
rad33	1.58098e-28	1.000000	1.58098e-28	1.000000
rad14	8.54212e-29	1.000000	8.54212e-29	1.000000
rad47	7.77162e-29	1.000000	7.77162e-29	1.000000
rad27	6.82793e-29	1.000000	6.82793e-29	1.000000
rad25	5.72135e-29	1.000000	5.72135e-29	1.000000
rad56	1.28662e-30	1.000000	1.28662e-30	1.000000
rad23	5.98781e-31	1.000000	5.98781e-31	1.000000
rad15	2.77126e-31	1.000000	2.77126e-31	1.000000
rad68syn	2.85522e-32	1.000000	2.85522e-32	1.000000
rad19anti	2.57604e-32	1.000000	2.57604e-32	1.000000
rad68anti	2.36978e-32	1.000000	2.36978e-32	1.000000
rad5	2.33734e-32	1.000000	2.33734e-32	1.000000
rad45	5.35571e-33	1.000000	5.35571e-33	1.000000
rad31	2.29699e-33	1.000000	2.29699e-33	1.000000
rad20	4.74998e-34	1.000000	4.74998e-34	1.000000
rad21	3.52000e-34	1.000000	3.52000e-34	1.000000
rad36	3.27866e-34	1.000000	3.27866e-34	1.000000
rad22	3.26353e-34	1.000000	3.26353e-34	1.000000
rad12	3.07034e-36	1.000000	3.07034e-36	1.000000
rad18	2.39118e-36	1.000000	2.39118e-36	1.000000
rad73	1.45545e-39	1.000000	1.45545e-39	1.000000
rad24	1.04002e-40	1.000000	1.04002e-40	1.000000
rad19syn	1.05530e-41	1.000000	1.05530e-41	1.000000
rad40syn	5.28792e-43	1.000000	5.28792e-43	1.000000
rad40anti	4.29486e-43	1.000000	4.29486e-43	1.000000
PAH8+H	4.16439e-47	1.000000	4.16439e-47	1.000000
rad71	1.29590e-50	1.000000	1.29590e-50	1.000000
rad8	1.62088e-62	1.000000	1.62088e-62	1.000000

0.100000000E-02 Pa, 100.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.28255e-15 (1.00)	1.28255e-15 (1.00)
Formation of rad19	1.28255e-15 (1.00)	1.28255e-15 (1.00)
H-abstraction to cyc2enyl	4.68359e-24 (3.65e-09)	4.68359e-24 (3.65e-09)
H-abstraction to cyclenyl	1.66242e-31 (1.30e-16)	1.66242e-31 (1.30e-16)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999735	0.999735	0.999735	0.999735
PhCHCCH2+H	0.000251986	0.999987	0.000251986	0.999987
PhCCH+CH3	4.40722e-06	0.999991	4.40722e-06	0.999991
C2H2+PhCH2	3.22659e-06	0.999995	3.22659e-06	0.999995
PhCCCH3+H	2.51586e-06	0.999997	2.51586e-06	0.999997
Ph+MeAc	1.92983e-06	0.999999	1.92983e-06	0.999999
rad67	5.79174e-07	1.000000	5.79174e-07	1.000000
rad35	2.54380e-07	1.000000	2.54380e-07	1.000000
Ph+Allene	1.79562e-07	1.000000	1.79562e-07	1.000000
PhCH2CCH+H	2.28438e-08	1.000000	2.28438e-08	1.000000
PAH7+H	2.28355e-08	1.000000	2.28355e-08	1.000000
rad39	6.44388e-09	1.000000	6.44388e-09	1.000000
rad37	6.01455e-09	1.000000	6.01455e-09	1.000000
rad30	4.77598e-09	1.000000	4.77598e-09	1.000000
Benzene+cycloprop-2-enylidene	3.65179e-09	1.000000	3.65179e-09	1.000000
PAH9+H	3.29061e-10	1.000000	3.29061e-10	1.000000
rad38	1.42003e-10	1.000000	1.42003e-10	1.000000

rad60syn	2.24029e-11	1.00000	2.24029e-11	1.00000
rad60anti	1.10139e-11	1.00000	1.10139e-11	1.00000
PAH3+H	9.81743e-12	1.00000	9.81743e-12	1.00000
PAH10+CH3	9.45002e-12	1.00000	9.45002e-12	1.00000
rad46	8.71705e-12	1.00000	8.71705e-12	1.00000
rad59	2.00718e-12	1.00000	2.00718e-12	1.00000
PhcycC3H3_A+H	1.51346e-12	1.00000	1.51346e-12	1.00000
rad43	4.16336e-13	1.00000	4.16336e-13	1.00000
rad54	3.48849e-13	1.00000	3.48849e-13	1.00000
rad62	9.06598e-14	1.00000	9.06598e-14	1.00000
rad50	6.59429e-14	1.00000	6.59429e-14	1.00000
rad70	6.27639e-15	1.00000	6.27639e-15	1.00000
Phenyl+cycC3H4	3.36905e-15	1.00000	0.00000	1.00000
rad55	2.77146e-15	1.00000	2.77146e-15	1.00000
PAH1+H	1.46020e-15	1.00000	1.46020e-15	1.00000
rad52	4.63545e-16	1.00000	4.63545e-16	1.00000
rad58	1.61003e-16	1.00000	1.61003e-16	1.00000
Benzene+cycloprop-1-enylidene	1.29619e-16	1.00000	1.29619e-16	1.00000
rad51	1.27890e-16	1.00000	1.27890e-16	1.00000
rad34	7.78385e-17	1.00000	7.78385e-17	1.00000
PhcycC3H3_B+H	4.09123e-17	1.00000	4.09123e-17	1.00000
rad41	1.13170e-17	1.00000	1.13170e-17	1.00000
rad42	9.87999e-18	1.00000	9.87999e-18	1.00000
rad65	2.68274e-18	1.00000	2.68274e-18	1.00000
rad6	1.21802e-19	1.00000	1.21802e-19	1.00000
rad53	7.24199e-22	1.00000	7.24199e-22	1.00000
rad28	1.10649e-22	1.00000	1.10649e-22	1.00000
rad2	6.78386e-23	1.00000	6.78386e-23	1.00000
rad64	2.36867e-23	1.00000	2.36867e-23	1.00000
rad26	1.38917e-23	1.00000	1.38917e-23	1.00000
rad7	9.34039e-24	1.00000	9.34039e-24	1.00000
rad1	4.35603e-24	1.00000	4.35603e-24	1.00000
rad10	3.50813e-24	1.00000	3.50813e-24	1.00000
rad11	2.32115e-24	1.00000	2.32115e-24	1.00000
rad3	4.30387e-25	1.00000	4.30387e-25	1.00000
rad4	2.18187e-25	1.00000	2.18187e-25	1.00000
rad13	4.92057e-26	1.00000	4.92057e-26	1.00000
rad61	9.04338e-27	1.00000	9.04338e-27	1.00000
rad9	4.90823e-28	1.00000	4.90823e-28	1.00000
rad33	9.28628e-29	1.00000	9.28628e-29	1.00000
rad47	7.19605e-29	1.00000	7.19605e-29	1.00000
rad56	5.01139e-29	1.00000	5.01139e-29	1.00000
rad14	5.01085e-29	1.00000	5.01085e-29	1.00000
rad27	3.97650e-29	1.00000	3.97650e-29	1.00000
rad25	3.36411e-29	1.00000	3.36411e-29	1.00000
rad68syn	1.54815e-30	1.00000	1.54815e-30	1.00000
rad68anti	1.27124e-30	1.00000	1.27124e-30	1.00000
rad23	2.74957e-31	1.00000	2.74957e-31	1.00000
rad15	2.13653e-31	1.00000	2.13653e-31	1.00000
rad19anti	4.31162e-32	1.00000	4.31162e-32	1.00000
rad5	1.77270e-32	1.00000	1.77270e-32	1.00000
rad45	2.43604e-33	1.00000	2.43604e-33	1.00000
rad31	1.36204e-33	1.00000	1.36204e-33	1.00000
rad20	2.92855e-34	1.00000	2.92855e-34	1.00000
rad21	2.17441e-34	1.00000	2.17441e-34	1.00000
rad22	1.56252e-34	1.00000	1.56252e-34	1.00000
rad36	1.49147e-34	1.00000	1.49147e-34	1.00000
rad12	2.37853e-36	1.00000	2.37853e-36	1.00000
rad40syn	1.99137e-36	1.00000	1.99137e-36	1.00000
rad40anti	1.51578e-36	1.00000	1.51578e-36	1.00000
rad18	1.45153e-36	1.00000	1.45153e-36	1.00000
rad73	7.53021e-37	1.00000	7.53021e-37	1.00000
rad24	5.10523e-41	1.00000	5.10523e-41	1.00000
rad19syn	2.08907e-41	1.00000	2.08907e-41	1.00000
PAH8+H	2.22320e-44	1.00000	2.22320e-44	1.00000
rad71	9.00447e-48	1.00000	9.00447e-48	1.00000
rad8	2.12557e-62	1.00000	2.12557e-62	1.00000

0.100000000E-02 Pa, 110.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.95524e-15 (1.00)	1.95524e-15 (1.00)
Formation of rad19	1.95524e-15 (1.000)	1.95524e-15 (1.000)
H-abstraction to cyc2enyl	4.50936e-23 (2.31e-08)	4.50936e-23 (2.31e-08)
H-abstraction to cyclenyl	7.87782e-30 (4.03e-15)	7.87782e-30 (4.03e-15)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999728	0.999728	0.999728	0.999728

PhCHCCH2+H	0.000258468	0.999986	0.000258468	0.999986
PhCCH+CH3	4.52960e-06	0.999991	4.52960e-06	0.999991
C2H2+PhCH2	3.33506e-06	0.999994	3.33506e-06	0.999994
PhCCCH3+H	2.59302e-06	0.999997	2.59302e-06	0.999997
Ph+MeAc	2.00237e-06	0.999999	2.00237e-06	0.999999
rad67	5.99835e-07	1.000000	5.99835e-07	1.000000
rad35	2.63074e-07	1.000000	2.63074e-07	1.000000
Ph+Allene	1.88753e-07	1.000000	1.88753e-07	1.000000
PhCH2CCH+H	2.42101e-08	1.000000	2.42101e-08	1.000000
PAH7+H	2.38305e-08	1.000000	2.38305e-08	1.000000
Benzene+cycloprop-2-enylidene	2.30629e-08	1.000000	2.30629e-08	1.000000
rad39	6.72506e-09	1.000000	6.72506e-09	1.000000
rad37	6.29263e-09	1.000000	6.29263e-09	1.000000
rad30	4.94370e-09	1.000000	4.94370e-09	1.000000
PAH9+H	3.44195e-10	1.000000	3.44195e-10	1.000000
rad38	1.49207e-10	1.000000	1.49207e-10	1.000000
rad60syn	2.35168e-11	1.000000	2.35168e-11	1.000000
rad60anti	1.15761e-11	1.000000	1.15761e-11	1.000000
PAH3+H	1.04892e-11	1.000000	1.04892e-11	1.000000
PAH10+CH3	1.03803e-11	1.000000	1.03803e-11	1.000000
rad46	9.19314e-12	1.000000	9.19314e-12	1.000000
rad59	2.13875e-12	1.000000	2.13875e-12	1.000000
PhcycC3H3_A+H	1.87146e-12	1.000000	1.87146e-12	1.000000
rad43	4.52170e-13	1.000000	4.52170e-13	1.000000
rad54	3.82782e-13	1.000000	3.82782e-13	1.000000
rad62	9.87174e-14	1.000000	9.87174e-14	1.000000
rad50	7.13100e-14	1.000000	7.13100e-14	1.000000
rad70	7.09049e-15	1.000000	7.09049e-15	1.000000
Phenyl+cycC3H4	5.18630e-15	1.000000	0.000000	1.000000
Benzene+cycloprop-1-enylidene	4.02908e-15	1.000000	4.02908e-15	1.000000
rad55	3.13312e-15	1.000000	3.13312e-15	1.000000
PAH1+H	1.72745e-15	1.000000	1.72745e-15	1.000000
rad52	5.11004e-16	1.000000	5.11004e-16	1.000000
rad58	1.84215e-16	1.000000	1.84215e-16	1.000000
rad51	1.44342e-16	1.000000	1.44342e-16	1.000000
PhcycC3H3_B+H	1.30407e-16	1.000000	1.30407e-16	1.000000
rad34	9.23387e-17	1.000000	9.23387e-17	1.000000
rad41	1.42045e-17	1.000000	1.42045e-17	1.000000
rad42	1.20933e-17	1.000000	1.20933e-17	1.000000
rad65	3.06295e-18	1.000000	3.06295e-18	1.000000
rad6	7.55936e-20	1.000000	7.55936e-20	1.000000
rad53	2.10945e-21	1.000000	2.10945e-21	1.000000
rad64	9.95842e-23	1.000000	9.95842e-23	1.000000
rad28	6.90693e-23	1.000000	6.90693e-23	1.000000
rad2	4.17076e-23	1.000000	4.17076e-23	1.000000
rad26	8.65976e-24	1.000000	8.65976e-24	1.000000
rad7	5.78096e-24	1.000000	5.78096e-24	1.000000
rad1	2.68760e-24	1.000000	2.68760e-24	1.000000
rad10	2.15428e-24	1.000000	2.15428e-24	1.000000
rad11	1.43642e-24	1.000000	1.43642e-24	1.000000
rad3	2.64450e-25	1.000000	2.64450e-25	1.000000
rad4	1.34182e-25	1.000000	1.34182e-25	1.000000
rad61	1.15970e-25	1.000000	1.15970e-25	1.000000
rad13	3.06160e-26	1.000000	3.06160e-26	1.000000
rad56	1.00954e-27	1.000000	1.00954e-27	1.000000
rad9	4.03512e-28	1.000000	4.03512e-28	1.000000
rad47	6.77856e-29	1.000000	6.77856e-29	1.000000
rad33	5.78446e-29	1.000000	5.78446e-29	1.000000
rad68syn	4.04761e-29	1.000000	4.04761e-29	1.000000
rad68anti	3.29728e-29	1.000000	3.29728e-29	1.000000
rad14	3.11902e-29	1.000000	3.11902e-29	1.000000
rad27	2.45901e-29	1.000000	2.45901e-29	1.000000
rad25	2.09775e-29	1.000000	2.09775e-29	1.000000
rad15	1.75883e-31	1.000000	1.75883e-31	1.000000
rad23	1.38679e-31	1.000000	1.38679e-31	1.000000
rad19anti	7.71212e-32	1.000000	7.71212e-32	1.000000
rad5	1.38941e-32	1.000000	1.38941e-32	1.000000
rad45	1.21871e-33	1.000000	1.21871e-33	1.000000
rad31	8.60466e-34	1.000000	8.60466e-34	1.000000
rad40syn	3.23202e-34	1.000000	3.23202e-34	1.000000
rad40anti	2.54379e-34	1.000000	2.54379e-34	1.000000
rad20	1.91964e-34	1.000000	1.91964e-34	1.000000
rad21	1.42821e-34	1.000000	1.42821e-34	1.000000
rad22	8.21095e-35	1.000000	8.21095e-35	1.000000
rad36	7.46388e-35	1.000000	7.46388e-35	1.000000
rad73	5.48387e-35	1.000000	5.48387e-35	1.000000
rad12	1.96808e-36	1.000000	1.96808e-36	1.000000
rad18	9.39610e-37	1.000000	9.39610e-37	1.000000
rad19syn	4.31564e-41	1.000000	4.31564e-41	1.000000
rad24	2.78438e-41	1.000000	2.78438e-41	1.000000

PAH8+H	1.08848e-41	1.00000	1.08848e-41	1.00000
rad71	5.50168e-45	1.00000	5.50168e-45	1.00000
rad8	2.88199e-62	1.00000	2.88199e-62	1.00000

0.100000000E-02 Pa, 120.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.79817e-15 (1.00)	2.79817e-15 (1.00)
Formation of rad19	2.79817e-15 (1.000)	2.79817e-15 (1.000)
H-abstraction to cyc2enyl	2.96039e-22 (1.06e-07)	2.96039e-22 (1.06e-07)
H-abstraction to cyc1enyl	1.95323e-28 (6.98e-14)	1.95323e-28 (6.98e-14)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999721	0.999721	0.999721	0.999721
PhCHCCH2+H	0.000265416	0.999986	0.000265416	0.999986
PhCCH+CH3	4.66071e-06	0.999991	4.66071e-06	0.999991
C2H2+PhCH2	3.45232e-06	0.999994	3.45232e-06	0.999994
PhCCCH3+H	2.67607e-06	0.999997	2.67607e-06	0.999997
Ph+MeAc	2.08106e-06	0.999999	2.08106e-06	0.999999
rad67	6.22219e-07	1.000000	6.22219e-07	1.000000
rad35	2.72479e-07	1.000000	2.72479e-07	1.000000
Ph+Allene	1.98894e-07	1.000000	1.98894e-07	1.000000
Benzene+cycloprop-2-enylidene	1.05797e-07	1.000000	1.05797e-07	1.000000
PhCH2CCH+H	2.57320e-08	1.000000	2.57320e-08	1.000000
PAH7+H	2.49187e-08	1.000000	2.49187e-08	1.000000
rad39	7.03247e-09	1.000000	7.03247e-09	1.000000
rad37	6.59760e-09	1.000000	6.59760e-09	1.000000
rad30	5.12555e-09	1.000000	5.12555e-09	1.000000
PAH9+H	3.60819e-10	1.000000	3.60819e-10	1.000000
rad38	1.57171e-10	1.000000	1.57171e-10	1.000000
rad60syn	2.47450e-11	1.000000	2.47450e-11	1.000000
rad60anti	1.21967e-11	1.000000	1.21967e-11	1.000000
PAH10+CH3	1.14587e-11	1.000000	1.14587e-11	1.000000
PAH3+H	1.12455e-11	1.000000	1.12455e-11	1.000000
rad46	9.72136e-12	1.000000	9.72136e-12	1.000000
PhcycC3H3_A+H	2.33053e-12	1.000000	2.33053e-12	1.000000
rad59	2.28635e-12	1.000000	2.28635e-12	1.000000
rad43	4.93108e-13	1.000000	4.93108e-13	1.000000
rad54	4.22087e-13	1.000000	4.22087e-13	1.000000
rad62	1.07934e-13	1.000000	1.07934e-13	1.000000
rad50	7.74450e-14	1.000000	7.74450e-14	1.000000
Benzene+cycloprop-1-enylidene	6.98038e-14	1.000000	6.98038e-14	1.000000
rad70	8.06292e-15	1.000000	8.06292e-15	1.000000
Phenyl+cycC3H4	7.86468e-15	1.000000	0.000000	1.000000
rad55	3.56521e-15	1.000000	3.56521e-15	1.000000
PAH1+H	2.06145e-15	1.000000	2.06145e-15	1.000000
rad52	5.66460e-16	1.000000	5.66460e-16	1.000000
PhcycC3H3_B+H	3.56809e-16	1.000000	3.56809e-16	1.000000
rad58	2.12339e-16	1.000000	2.12339e-16	1.000000
rad51	1.64076e-16	1.000000	1.64076e-16	1.000000
rad34	1.10512e-16	1.000000	1.10512e-16	1.000000
rad41	1.79621e-17	1.000000	1.79621e-17	1.000000
rad42	1.49164e-17	1.000000	1.49164e-17	1.000000
rad65	3.52421e-18	1.000000	3.52421e-18	1.000000
rad6	4.91678e-20	1.000000	4.91678e-20	1.000000
rad53	5.30965e-21	1.000000	5.30965e-21	1.000000
rad64	3.40786e-22	1.000000	3.40786e-22	1.000000
rad28	4.51767e-23	1.000000	4.51767e-23	1.000000
rad2	2.69063e-23	1.000000	2.69063e-23	1.000000
rad26	5.66453e-24	1.000000	5.66453e-24	1.000000
rad7	3.75199e-24	1.000000	3.75199e-24	1.000000
rad1	1.74052e-24	1.000000	1.74052e-24	1.000000
rad10	1.38857e-24	1.000000	1.38857e-24	1.000000
rad61	9.89192e-25	1.000000	9.89192e-25	1.000000
rad11	9.32239e-25	1.000000	9.32239e-25	1.000000
rad3	1.70533e-25	1.000000	1.70533e-25	1.000000
rad4	8.66124e-26	1.000000	8.66124e-26	1.000000
rad13	1.99666e-26	1.000000	1.99666e-26	1.000000
rad56	1.24718e-26	1.000000	1.24718e-26	1.000000
rad68syn	6.16976e-28	1.000000	6.16976e-28	1.000000
rad68anti	4.99419e-28	1.000000	4.99419e-28	1.000000
rad9	3.50325e-28	1.000000	3.50325e-28	1.000000
rad47	6.48299e-29	1.000000	6.48299e-29	1.000000
rad33	3.77688e-29	1.000000	3.77688e-29	1.000000
rad14	2.03612e-29	1.000000	2.03612e-29	1.000000
rad27	1.59554e-29	1.000000	1.59554e-29	1.000000
rad25	1.37121e-29	1.000000	1.37121e-29	1.000000
rad15	1.52920e-31	1.000000	1.52920e-31	1.000000

rad19anti	1.46854e-31	1.00000	1.46854e-31	1.00000
rad23	7.54390e-32	1.00000	7.54390e-32	1.00000
rad40syn	1.64572e-32	1.00000	1.64572e-32	1.00000
rad40anti	1.29414e-32	1.00000	1.29414e-32	1.00000
rad5	1.11793e-32	1.00000	1.11793e-32	1.00000
rad73	1.92320e-33	1.00000	1.92320e-33	1.00000
rad45	6.58328e-34	1.00000	6.58328e-34	1.00000
rad31	5.73086e-34	1.00000	5.73086e-34	1.00000
rad20	1.32203e-34	1.00000	1.32203e-34	1.00000
rad21	9.85708e-35	1.00000	9.85708e-35	1.00000
rad22	4.64837e-35	1.00000	4.64837e-35	1.00000
PAH8+H	4.13569e-35	1.00000	4.13569e-35	1.00000
rad36	4.03385e-35	1.00000	4.03385e-35	1.00000
rad12	1.72046e-36	1.00000	1.72046e-36	1.00000
rad18	6.40388e-37	1.00000	6.40388e-37	1.00000
rad71	1.32206e-38	1.00000	1.32206e-38	1.00000
rad19syn	9.31466e-41	1.00000	9.31466e-41	1.00000
rad24	1.65741e-41	1.00000	1.65741e-41	1.00000
rad8	4.02439e-62	1.00000	4.02439e-62	1.00000

0.100000000E-02 Pa, 130.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.81236e-15 (1.00)	3.81236e-15 (1.00)
Formation of rad19	3.81236e-15 (1.000)	3.81236e-15 (1.000)
H-abstraction to cyc2enyl	1.44825e-21 (3.80e-07)	1.44825e-21 (3.80e-07)
H-abstraction to cyclenyl	2.94348e-27 (7.72e-13)	2.94348e-27 (7.72e-13)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999713	0.999713	0.999713	0.999713
PhCHCCH2+H	0.000272880	0.999986	0.000272880	0.999986
PhCCH+CH3	4.80144e-06	0.999990	4.80144e-06	0.999990
C2H2+PhCH2	3.57941e-06	0.999994	3.57941e-06	0.999994
PhCCCH3+H	2.76566e-06	0.999997	2.76566e-06	0.999997
Ph+MeAc	2.16666e-06	0.999999	2.16666e-06	0.999999
rad67	6.46532e-07	0.999999	6.46532e-07	0.999999
Benzene+cycloprop-2-enylidene	3.79882e-07	1.000000	3.79882e-07	1.000000
rad35	2.82677e-07	1.000000	2.82677e-07	1.000000
Ph+Allene	2.10124e-07	1.000000	2.10124e-07	1.000000
PhCH2CCH+H	2.74344e-08	1.000000	2.74344e-08	1.000000
PAH7+H	2.61124e-08	1.000000	2.61124e-08	1.000000
rad39	7.36957e-09	1.000000	7.36957e-09	1.000000
rad37	6.93313e-09	1.000000	6.93313e-09	1.000000
rad30	5.32324e-09	1.000000	5.32324e-09	1.000000
PAH9+H	3.79144e-10	1.000000	3.79144e-10	1.000000
rad38	1.66010e-10	1.000000	1.66010e-10	1.000000
rad60syn	2.61039e-11	1.000000	2.61039e-11	1.000000
rad60anti	1.28846e-11	1.000000	1.28846e-11	1.000000
PAH10+CH3	1.27166e-11	1.000000	1.27166e-11	1.000000
PAH3+H	1.21009e-11	1.000000	1.21009e-11	1.000000
rad46	1.03098e-11	1.000000	1.03098e-11	1.000000
PhcycC3H3_A+H	2.92359e-12	1.000000	2.92359e-12	1.000000
rad59	2.45271e-12	1.000000	2.45271e-12	1.000000
Benzene+cycloprop-1-enylidene	7.72089e-13	1.000000	7.72089e-13	1.000000
rad43	5.40121e-13	1.000000	5.40121e-13	1.000000
rad54	4.67899e-13	1.000000	4.67899e-13	1.000000
rad62	1.18529e-13	1.000000	1.18529e-13	1.000000
rad50	8.44992e-14	1.000000	8.44992e-14	1.000000
Phenyl+cycC3H4	1.18041e-14	1.000000	0.000000	1.000000
rad70	9.23356e-15	1.000000	9.23356e-15	1.000000
rad55	4.08547e-15	1.000000	4.08547e-15	1.000000
PAH1+H	2.48280e-15	1.000000	2.48280e-15	1.000000
PhcycC3H3_B+H	8.71415e-16	1.000000	8.71415e-16	1.000000
rad52	6.31731e-16	1.000000	6.31731e-16	1.000000
rad58	2.46704e-16	1.000000	2.46704e-16	1.000000
rad51	1.87955e-16	1.000000	1.87955e-16	1.000000
rad34	1.33508e-16	1.000000	1.33508e-16	1.000000
rad41	2.28968e-17	1.000000	2.28968e-17	1.000000
rad42	1.85451e-17	1.000000	1.85451e-17	1.000000
rad65	4.08901e-18	1.000000	4.08901e-18	1.000000
rad6	3.32340e-20	1.000000	3.32340e-20	1.000000
rad53	1.20353e-20	1.000000	1.20353e-20	1.000000
rad64	1.00095e-21	1.000000	1.00095e-21	1.000000
rad28	3.07021e-23	1.000000	3.07021e-23	1.000000
rad2	1.80578e-23	1.000000	1.80578e-23	1.000000
rad61	6.20127e-24	1.000000	6.20127e-24	1.000000
rad26	3.85588e-24	1.000000	3.85588e-24	1.000000
rad7	2.53188e-24	1.000000	2.53188e-24	1.000000

rad1	1.17306e-24	1.00000	1.17306e-24	1.00000
rad10	9.31364e-25	1.00000	9.31364e-25	1.00000
rad11	6.29105e-25	1.00000	6.29105e-25	1.00000
rad3	1.14421e-25	1.00000	1.14421e-25	1.00000
rad56	1.06300e-25	1.00000	1.06300e-25	1.00000
rad4	5.81762e-26	1.00000	5.81762e-26	1.00000
rad13	1.35339e-26	1.00000	1.35339e-26	1.00000
rad68syn	6.24402e-27	1.00000	6.24402e-27	1.00000
rad68anti	5.02676e-27	1.00000	5.02676e-27	1.00000
rad9	3.18733e-28	1.00000	3.18733e-28	1.00000
rad47	6.28684e-29	1.00000	6.28684e-29	1.00000
rad33	2.56327e-29	1.00000	2.56327e-29	1.00000
rad14	1.38231e-29	1.00000	1.38231e-29	1.00000
rad27	1.07703e-29	1.00000	1.07703e-29	1.00000
rad25	9.31697e-30	1.00000	9.31697e-30	1.00000
rad40syn	4.43597e-31	1.00000	4.43597e-31	1.00000
rad40anti	3.49253e-31	1.00000	3.49253e-31	1.00000
rad19anti	2.96901e-31	1.00000	2.96901e-31	1.00000
rad15	1.39343e-31	1.00000	1.39343e-31	1.00000
rad23	4.36839e-32	1.00000	4.36839e-32	1.00000
rad73	3.97373e-32	1.00000	3.97373e-32	1.00000
rad5	9.18893e-33	1.00000	9.18893e-33	1.00000
PAH8+H	2.25810e-33	1.00000	2.25810e-33	1.00000
rad31	4.00270e-34	1.00000	4.00270e-34	1.00000
rad45	3.78900e-34	1.00000	3.78900e-34	1.00000
rad20	9.48417e-35	1.00000	9.48417e-35	1.00000
rad21	7.08753e-35	1.00000	7.08753e-35	1.00000
rad22	2.79701e-35	1.00000	2.79701e-35	1.00000
rad36	2.32331e-35	1.00000	2.32331e-35	1.00000
rad12	1.57678e-36	1.00000	1.57678e-36	1.00000
rad71	1.12261e-36	1.00000	1.12261e-36	1.00000
rad18	4.55331e-37	1.00000	4.55331e-37	1.00000
rad19syn	2.10397e-40	1.00000	2.10397e-40	1.00000
rad24	1.06282e-41	1.00000	1.06282e-41	1.00000
rad8	5.77159e-62	1.00000	5.77159e-62	1.00000

0.100000000E-02 Pa, 140.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.99515e-15 (1.00)	4.99515e-15 (1.00)
Formation of rad19	4.99514e-15 (1.000)	4.99514e-15 (1.000)
H-abstraction to cyc2enyl	5.62488e-21 (1.13e-06)	5.62488e-21 (1.13e-06)
H-abstraction to cyclenyl	3.00047e-26 (6.01e-12)	3.00047e-26 (6.01e-12)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999703	0.999703	0.999703	0.999703
PhCHCCH2+H	0.000280916	0.999984	0.000280916	0.999984
PhCCH+CH3	4.95283e-06	0.999989	4.95283e-06	0.999989
C2H2+PhCH2	3.71755e-06	0.999992	3.71755e-06	0.999992
PhCCCH3+H	2.86257e-06	0.999995	2.86257e-06	0.999995
Ph+MeAc	2.26003e-06	0.999998	2.26003e-06	0.999998
Benzene+cycloprop-2-enylidene	1.12607e-06	0.999999	1.12607e-06	0.999999
rad67	6.73018e-07	0.999999	6.73018e-07	0.999999
rad35	2.93768e-07	1.000000	2.93768e-07	1.000000
Ph+Allene	2.22609e-07	1.000000	2.22609e-07	1.000000
PhCH2CCH+H	2.93473e-08	1.000000	2.93473e-08	1.000000
PAH7+H	2.74267e-08	1.000000	2.74267e-08	1.000000
rad39	7.74052e-09	1.000000	7.74052e-09	1.000000
rad37	7.30363e-09	1.000000	7.30363e-09	1.000000
rad30	5.53879e-09	1.000000	5.53879e-09	1.000000
PAH9+H	3.99424e-10	1.000000	3.99424e-10	1.000000
rad38	1.75863e-10	1.000000	1.75863e-10	1.000000
rad60syn	2.76137e-11	1.000000	2.76137e-11	1.000000
PAH10+CH3	1.41936e-11	1.000000	1.41936e-11	1.000000
rad60anti	1.36500e-11	1.000000	1.36500e-11	1.000000
PAH3+H	1.30737e-11	1.000000	1.30737e-11	1.000000
rad46	1.09682e-11	1.000000	1.09682e-11	1.000000
Benzene+cycloprop-1-enylidene	6.00677e-12	1.000000	6.00677e-12	1.000000
PhcycC3H3_A+H	3.69541e-12	1.000000	3.69541e-12	1.000000
rad59	2.64115e-12	1.000000	2.64115e-12	1.000000
rad43	5.94418e-13	1.000000	5.94418e-13	1.000000
rad54	5.21659e-13	1.000000	5.21659e-13	1.000000
rad62	1.30776e-13	1.000000	1.30776e-13	1.000000
rad50	9.26626e-14	1.000000	9.26626e-14	1.000000
Phenyl+cycC3H4	1.75978e-14	1.000000	0.000000	1.000000
rad70	1.06545e-14	1.000000	1.06545e-14	1.000000
rad55	4.71703e-15	1.000000	4.71703e-15	1.000000
PAH1+H	3.01953e-15	1.000000	3.01953e-15	1.000000

PhcycC3H3_B+H	1.95210e-15	1.000000	1.95210e-15	1.000000
rad52	7.09155e-16	1.000000	7.09155e-16	1.000000
rad58	2.89078e-16	1.000000	2.89078e-16	1.000000
rad51	2.17121e-16	1.000000	2.17121e-16	1.000000
rad34	1.62893e-16	1.000000	1.62893e-16	1.000000
rad41	2.94343e-17	1.000000	2.94343e-17	1.000000
rad42	2.32454e-17	1.000000	2.32454e-17	1.000000
rad65	4.78738e-18	1.000000	4.78738e-18	1.000000
rad53	2.52777e-20	1.000000	2.52777e-20	1.000000
rad6	2.32001e-20	1.000000	2.32001e-20	1.000000
rad64	2.61932e-21	1.000000	2.61932e-21	1.000000
rad61	3.06683e-23	1.000000	3.06683e-23	1.000000
rad28	2.15445e-23	1.000000	2.15445e-23	1.000000
rad2	1.25286e-23	1.000000	1.25286e-23	1.000000
rad26	2.71521e-24	1.000000	2.71521e-24	1.000000
rad7	1.76525e-24	1.000000	1.76525e-24	1.000000
rad1	8.17624e-25	1.000000	8.17624e-25	1.000000
rad56	6.79942e-25	1.000000	6.79942e-25	1.000000
rad10	6.45944e-25	1.000000	6.45944e-25	1.000000
rad11	4.38659e-25	1.000000	4.38659e-25	1.000000
rad3	7.93738e-26	1.000000	7.93738e-26	1.000000
rad68syn	4.60221e-26	1.000000	4.60221e-26	1.000000
rad4	4.04046e-26	1.000000	4.04046e-26	1.000000
rad68anti	3.68618e-26	1.000000	3.68618e-26	1.000000
rad13	9.47543e-27	1.000000	9.47543e-27	1.000000
rad9	3.02276e-28	1.000000	3.02276e-28	1.000000
rad47	6.17640e-29	1.000000	6.17640e-29	1.000000
rad33	1.79700e-29	1.000000	1.79700e-29	1.000000
rad14	9.69958e-30	1.000000	9.69958e-30	1.000000
rad40syn	7.53646e-30	1.000000	7.53646e-30	1.000000
rad27	7.51611e-30	1.000000	7.51611e-30	1.000000
rad25	6.53999e-30	1.000000	6.53999e-30	1.000000
rad40anti	5.95179e-30	1.000000	5.95179e-30	1.000000
rad19anti	6.36015e-31	1.000000	6.36015e-31	1.000000
rad73	5.47734e-31	1.000000	5.47734e-31	1.000000
rad15	1.32360e-31	1.000000	1.32360e-31	1.000000
PAH8+H	6.68131e-32	1.000000	6.68131e-32	1.000000
rad23	2.66696e-32	1.000000	2.66696e-32	1.000000
rad5	7.68732e-33	1.000000	7.68732e-33	1.000000
rad31	2.93658e-34	1.000000	2.93658e-34	1.000000
rad45	2.30102e-34	1.000000	2.30102e-34	1.000000
rad20	7.04304e-35	1.000000	7.04304e-35	1.000000
rad21	5.27591e-35	1.000000	5.27591e-35	1.000000
rad71	4.16913e-35	1.000000	4.16913e-35	1.000000
rad22	1.77114e-35	1.000000	1.77114e-35	1.000000
rad36	1.41224e-35	1.000000	1.41224e-35	1.000000
rad12	1.50698e-36	1.000000	1.50698e-36	1.000000
rad18	3.35482e-37	1.000000	3.35482e-37	1.000000
rad19syn	4.98180e-40	1.000000	4.98180e-40	1.000000
rad24	7.27050e-42	1.000000	7.27050e-42	1.000000
rad8	8.48437e-62	1.000000	8.48437e-62	1.000000

0.100000000E-02 Pa, 150.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.34137e-15 (1.00)	6.34137e-15 (1.00)
Formation of rad19	6.34135e-15 (1.000)	6.34135e-15 (1.000)
H-abstraction to cyc2enyl	1.81685e-20 (2.87e-06)	1.81685e-20 (2.87e-06)
H-abstraction to cyclenyl	2.23765e-25 (3.53e-11)	2.23765e-25 (3.53e-11)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999692	0.999692	0.999692	0.999692
PhCHCCH2+H	0.000289591	0.999982	0.000289591	0.999982
PhCCH+CH3	5.11613e-06	0.999987	5.11613e-06	0.999987
C2H2+PhCH2	3.86813e-06	0.999991	3.86813e-06	0.999991
PhCCCH3+H	2.96767e-06	0.999994	2.96767e-06	0.999994
Benzene+cycloprop-2-enylidene	2.86508e-06	0.999997	2.86508e-06	0.999997
Ph+MeAc	2.36221e-06	0.999999	2.36221e-06	0.999999
rad67	7.01963e-07	1.000000	7.01963e-07	1.000000
rad35	3.05866e-07	1.000000	3.05866e-07	1.000000
Ph+Allene	2.36549e-07	1.000000	2.36549e-07	1.000000
PhCH2CCH+H	3.15070e-08	1.000000	3.15070e-08	1.000000
PAH7+H	2.88788e-08	1.000000	2.88788e-08	1.000000
rad39	8.15023e-09	1.000000	8.15023e-09	1.000000
rad37	7.71432e-09	1.000000	7.71432e-09	1.000000
rad30	5.77461e-09	1.000000	5.77461e-09	1.000000
PAH9+H	4.21956e-10	1.000000	4.21956e-10	1.000000
rad38	1.86897e-10	1.000000	1.86897e-10	1.000000

Benzene+cycloprop-1-enylidene	3.52865e-11	1.00000	3.52865e-11	1.00000
rad60syn	2.92981e-11	1.00000	2.92981e-11	1.00000
PAH10+CH3	1.59400e-11	1.00000	1.59400e-11	1.00000
rad60anti	1.45055e-11	1.00000	1.45055e-11	1.00000
PAH3+H	1.41861e-11	1.00000	1.41861e-11	1.00000
rad46	1.17086e-11	1.00000	1.17086e-11	1.00000
PhcycC3H3_A+H	4.70692e-12	1.00000	4.70692e-12	1.00000
rad59	2.85573e-12	1.00000	2.85573e-12	1.00000
rad43	6.57492e-13	1.00000	6.57492e-13	1.00000
rad54	5.85185e-13	1.00000	5.85185e-13	1.00000
rad62	1.45014e-13	1.00000	1.45014e-13	1.00000
rad50	1.02173e-13	1.00000	1.02173e-13	1.00000
Phenyl+cycC3H4	2.61242e-14	1.00000	0.00000	1.00000
rad70	1.23938e-14	1.00000	1.23938e-14	1.00000
rad55	5.49004e-15	1.00000	5.49004e-15	1.00000
PhcycC3H3_B+H	4.08980e-15	1.00000	4.08980e-15	1.00000
PAH1+H	3.70976e-15	1.00000	3.70976e-15	1.00000
rad52	8.01737e-16	1.00000	8.01737e-16	1.00000
rad58	3.41803e-16	1.00000	3.41803e-16	1.00000
rad51	2.53088e-16	1.00000	2.53088e-16	1.00000
rad34	2.00804e-16	1.00000	2.00804e-16	1.00000
rad41	3.81659e-17	1.00000	3.81659e-17	1.00000
rad42	2.93783e-17	1.00000	2.93783e-17	1.00000
rad65	5.65957e-18	1.00000	5.65957e-18	1.00000
rad53	5.01851e-20	1.00000	5.01851e-20	1.00000
rad6	1.66494e-20	1.00000	1.66494e-20	1.00000
rad64	6.27232e-21	1.00000	6.27232e-21	1.00000
rad61	1.25961e-22	1.00000	1.25961e-22	1.00000
rad28	1.55381e-23	1.00000	1.55381e-23	1.00000
rad2	8.94445e-24	1.00000	8.94445e-24	1.00000
rad56	3.47105e-24	1.00000	3.47105e-24	1.00000
rad26	1.96971e-24	1.00000	1.96971e-24	1.00000
rad7	1.26567e-24	1.00000	1.26567e-24	1.00000
rad1	5.86655e-25	1.00000	5.86655e-25	1.00000
rad10	4.61079e-25	1.00000	4.61079e-25	1.00000
rad11	3.14559e-25	1.00000	3.14559e-25	1.00000
rad68syn	2.64314e-25	1.00000	2.64314e-25	1.00000
rad68anti	2.10625e-25	1.00000	2.10625e-25	1.00000
rad3	5.66613e-26	1.00000	5.66613e-26	1.00000
rad4	2.88807e-26	1.00000	2.88807e-26	1.00000
rad13	6.82072e-27	1.00000	6.82072e-27	1.00000
rad9	2.97822e-28	1.00000	2.97822e-28	1.00000
rad40syn	8.88006e-29	1.00000	8.88006e-29	1.00000
rad40anti	7.03992e-29	1.00000	7.03992e-29	1.00000
rad47	6.14414e-29	1.00000	6.14414e-29	1.00000
rad33	1.29534e-29	1.00000	1.29534e-29	1.00000
rad14	7.00327e-30	1.00000	7.00327e-30	1.00000
rad73	5.47693e-30	1.00000	5.47693e-30	1.00000
rad27	5.39766e-30	1.00000	5.39766e-30	1.00000
rad25	4.72091e-30	1.00000	4.72091e-30	1.00000
rad19anti	1.44121e-30	1.00000	1.44121e-30	1.00000
PAH8+H	1.26386e-30	1.00000	1.26386e-30	1.00000
rad15	1.30630e-31	1.00000	1.30630e-31	1.00000
rad23	1.70463e-32	1.00000	1.70463e-32	1.00000
rad5	6.52673e-33	1.00000	6.52673e-33	1.00000
rad71	9.41810e-34	1.00000	9.41810e-34	1.00000
rad31	2.29568e-34	1.00000	2.29568e-34	1.00000
rad45	1.46397e-34	1.00000	1.46397e-34	1.00000
rad20	5.38891e-35	1.00000	5.38891e-35	1.00000
rad21	4.04705e-35	1.00000	4.04705e-35	1.00000
rad22	1.17154e-35	1.00000	1.17154e-35	1.00000
rad36	8.99561e-36	1.00000	8.99561e-36	1.00000
rad12	1.49701e-36	1.00000	1.49701e-36	1.00000
rad18	2.54857e-37	1.00000	2.54857e-37	1.00000
rad19syn	1.23836e-39	1.00000	1.23836e-39	1.00000
rad24	5.26595e-42	1.00000	5.26595e-42	1.00000
rad8	1.27662e-61	1.00000	1.27662e-61	1.00000

0.100000000E-02 Pa, 160.000000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	7.84423e-15 (1.00)	7.84423e-15 (1.00)		
Formation of rad19	7.84418e-15 (1.000)	7.84418e-15 (1.000)		
H-abstraction to cyc2enyl	5.05321e-20 (6.44e-06)	5.05321e-20 (6.44e-06)		
H-abstraction to cyclenyl	1.29479e-24 (1.65e-10)	1.29479e-24 (1.65e-10)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999679	0.999679	0.999679	0.999679

PhCHCCH2+H	0.000298980	0.999978	0.000298980	0.999978
Benzene+cycloprop-2-enylidene	6.44194e-06	0.999984	6.44194e-06	0.999984
PhCCH+CH3	5.29266e-06	0.999989	5.29266e-06	0.999989
C2H2+PhCH2	4.03278e-06	0.999993	4.03278e-06	0.999993
PhCCCH3+H	3.08197e-06	0.999996	3.08197e-06	0.999996
Ph+MeAc	2.47437e-06	0.999999	2.47437e-06	0.999999
rad67	7.33692e-07	1.000000	7.33692e-07	1.000000
rad35	3.19104e-07	1.000000	3.19104e-07	1.000000
Ph+Allene	2.52179e-07	1.000000	2.52179e-07	1.000000
PhCH2CCH+H	3.39570e-08	1.000000	3.39570e-08	1.000000
PAH7+H	3.04893e-08	1.000000	3.04893e-08	1.000000
rad39	8.60430e-09	1.000000	8.60430e-09	1.000000
rad37	8.17124e-09	1.000000	8.17124e-09	1.000000
rad30	6.03343e-09	1.000000	6.03343e-09	1.000000
PAH9+H	4.47093e-10	1.000000	4.47093e-10	1.000000
rad38	1.99310e-10	1.000000	1.99310e-10	1.000000
Benzene+cycloprop-1-enylidene	1.65062e-10	1.000000	1.65062e-10	1.000000
rad60syn	3.11852e-11	1.000000	3.11852e-11	1.000000
PAH10+CH3	1.80187e-11	1.000000	1.80187e-11	1.000000
rad60anti	1.54656e-11	1.000000	1.54656e-11	1.000000
PAH3+H	1.54648e-11	1.000000	1.54648e-11	1.000000
rad46	1.25447e-11	1.000000	1.25447e-11	1.000000
PhcycC3H3_A+H	6.04091e-12	1.000000	6.04091e-12	1.000000
rad59	3.10136e-12	1.000000	3.10136e-12	1.000000
rad43	7.31176e-13	1.000000	7.31176e-13	1.000000
rad54	6.60760e-13	1.000000	6.60760e-13	1.000000
rad62	1.61655e-13	1.000000	1.61655e-13	1.000000
rad50	1.13324e-13	1.000000	1.13324e-13	1.000000
Phenyl+cycC3H4	3.86829e-14	1.000000	0.000000	1.000000
rad70	1.45398e-14	1.000000	1.45398e-14	1.000000
PhcycC3H3_B+H	8.12740e-15	1.000000	8.12740e-15	1.000000
rad55	6.44369e-15	1.000000	6.44369e-15	1.000000
PAH1+H	4.60544e-15	1.000000	4.60544e-15	1.000000
rad52	9.13328e-16	1.000000	9.13328e-16	1.000000
rad58	4.07987e-16	1.000000	4.07987e-16	1.000000
rad51	2.97864e-16	1.000000	2.97864e-16	1.000000
rad34	2.50166e-16	1.000000	2.50166e-16	1.000000
rad41	4.99133e-17	1.000000	4.99133e-17	1.000000
rad42	3.74343e-17	1.000000	3.74343e-17	1.000000
rad65	6.75947e-18	1.000000	6.75947e-18	1.000000
rad53	9.55101e-20	1.000000	9.55101e-20	1.000000
rad64	1.40150e-20	1.000000	1.40150e-20	1.000000
rad6	1.22417e-20	1.000000	1.22417e-20	1.000000
rad61	4.46322e-22	1.000000	4.46322e-22	1.000000
rad56	1.48061e-23	1.000000	1.48061e-23	1.000000
rad28	1.14781e-23	1.000000	1.14781e-23	1.000000
rad2	6.54937e-24	1.000000	6.54937e-24	1.000000
rad26	1.46831e-24	1.000000	1.46831e-24	1.000000
rad68syn	1.24401e-24	1.000000	1.24401e-24	1.000000
rad68anti	9.86010e-25	1.000000	9.86010e-25	1.000000
rad7	9.30039e-25	1.000000	9.30039e-25	1.000000
rad1	4.31915e-25	1.000000	4.31915e-25	1.000000
rad10	3.37620e-25	1.000000	3.37620e-25	1.000000
rad11	2.31190e-25	1.000000	2.31190e-25	1.000000
rad3	4.14852e-26	1.000000	4.14852e-26	1.000000
rad4	2.11758e-26	1.000000	2.11758e-26	1.000000
rad13	5.03104e-27	1.000000	5.03104e-27	1.000000
rad40syn	7.79808e-28	1.000000	7.79808e-28	1.000000
rad40anti	6.20616e-28	1.000000	6.20616e-28	1.000000
rad9	3.04527e-28	1.000000	3.04527e-28	1.000000
rad47	6.18722e-29	1.000000	6.18722e-29	1.000000
rad73	4.23052e-29	1.000000	4.23052e-29	1.000000
PAH8+H	1.68144e-29	1.000000	1.68144e-29	1.000000
rad33	9.56861e-30	1.000000	9.56861e-30	1.000000
rad14	5.18692e-30	1.000000	5.18692e-30	1.000000
rad27	3.97623e-30	1.000000	3.97623e-30	1.000000
rad25	3.49287e-30	1.000000	3.49287e-30	1.000000
rad19anti	3.44918e-30	1.000000	3.44918e-30	1.000000
rad15	1.33804e-31	1.000000	1.33804e-31	1.000000
rad71	1.46136e-32	1.000000	1.46136e-32	1.000000
rad23	1.13498e-32	1.000000	1.13498e-32	1.000000
rad5	5.61094e-33	1.000000	5.61094e-33	1.000000
rad31	1.98754e-34	1.000000	1.98754e-34	1.000000
rad45	9.70852e-35	1.000000	9.70852e-35	1.000000
rad20	4.23409e-35	1.000000	4.23409e-35	1.000000
rad21	3.18828e-35	1.000000	3.18828e-35	1.000000
rad22	8.05059e-36	1.000000	8.05059e-36	1.000000
rad36	5.97426e-36	1.000000	5.97426e-36	1.000000
rad12	1.54407e-36	1.000000	1.54407e-36	1.000000
rad18	1.98903e-37	1.000000	1.98903e-37	1.000000

rad19syn	3.23538e-39	1.00000	3.23538e-39	1.00000
rad24	4.01518e-42	1.00000	4.01518e-42	1.00000
rad8	1.96416e-61	1.00000	1.96416e-61	1.00000

0.100000000E-02 Pa, 170.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.49598e-15 (1.00)	9.49598e-15 (1.00)
Formation of rad19	9.49586e-15 (1.000)	9.49586e-15 (1.000)
H-abstraction to cyc2enyl	1.24279e-19 (1.31e-05)	1.24279e-19 (1.31e-05)
H-abstraction to cyc1enyl	6.08025e-24 (6.40e-10)	6.08025e-24 (6.40e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999661	0.999661	0.999661	0.999661
PhCHCCH2+H	0.000309166	0.999970	0.000309166	0.999970
Benzene+cycloprop-2-enylidene	1.30875e-05	0.999983	1.30875e-05	0.999983
PhCCH+CH3	5.48390e-06	0.999989	5.48390e-06	0.999989
C2H2+PhCH2	4.21328e-06	0.999993	4.21328e-06	0.999993
PhCCCH3+H	3.20657e-06	0.999996	3.20657e-06	0.999996
Ph+MeAc	2.59785e-06	0.999999	2.59785e-06	0.999999
rad67	7.68570e-07	0.999999	7.68570e-07	0.999999
rad35	3.33629e-07	1.000000	3.33629e-07	1.000000
Ph+Allene	2.69770e-07	1.000000	2.69770e-07	1.000000
PhCH2CCH+H	3.67483e-08	1.000000	3.67483e-08	1.000000
PAH7+H	3.22812e-08	1.000000	3.22812e-08	1.000000
rad39	9.10922e-09	1.000000	9.10922e-09	1.000000
rad37	8.68140e-09	1.000000	8.68140e-09	1.000000
rad30	6.31832e-09	1.000000	6.31832e-09	1.000000
Benzene+cycloprop-1-enylidene	6.40297e-10	1.000000	6.40297e-10	1.000000
PAH9+H	4.75245e-10	1.000000	4.75245e-10	1.000000
rad38	2.13331e-10	1.000000	2.13331e-10	1.000000
rad60syn	3.33079e-11	1.000000	3.33079e-11	1.000000
PAH10+CH3	2.05088e-11	1.000000	2.05088e-11	1.000000
PAH3+H	1.69426e-11	1.000000	1.69426e-11	1.000000
rad60anti	1.65476e-11	1.000000	1.65476e-11	1.000000
rad46	1.34934e-11	1.000000	1.34934e-11	1.000000
PhcycC3H3_A+H	7.80971e-12	1.000000	7.80971e-12	1.000000
rad59	3.38391e-12	1.000000	3.38391e-12	1.000000
rad43	8.17716e-13	1.000000	8.17716e-13	1.000000
rad54	7.51251e-13	1.000000	7.51251e-13	1.000000
rad62	1.81204e-13	1.000000	1.81204e-13	1.000000
rad50	1.26486e-13	1.000000	1.26486e-13	1.000000
Phenyl+cycC3H4	5.71891e-14	1.000000	0.000000	1.000000
rad70	1.72081e-14	1.000000	1.72081e-14	1.000000
PhcycC3H3_B+H	1.54798e-14	1.000000	1.54798e-14	1.000000
rad55	7.62903e-15	1.000000	7.62903e-15	1.000000
PAH1+H	5.77739e-15	1.000000	5.77739e-15	1.000000
rad52	1.04888e-15	1.000000	1.04888e-15	1.000000
rad58	4.91762e-16	1.000000	4.91762e-16	1.000000
rad51	3.54112e-16	1.000000	3.54112e-16	1.000000
rad34	3.14980e-16	1.000000	3.14980e-16	1.000000
rad41	6.58173e-17	1.000000	6.58173e-17	1.000000
rad42	4.80779e-17	1.000000	4.80779e-17	1.000000
rad65	8.15947e-18	1.000000	8.15947e-18	1.000000
rad53	1.75970e-19	1.000000	1.75970e-19	1.000000
rad64	2.96417e-20	1.000000	2.96417e-20	1.000000
rad6	9.20130e-21	1.000000	9.20130e-21	1.000000
rad61	1.40404e-21	1.000000	1.40404e-21	1.000000
rad56	5.46424e-23	1.000000	5.46424e-23	1.000000
rad28	8.66452e-24	1.000000	8.66452e-24	1.000000
rad68syn	4.98549e-24	1.000000	4.98549e-24	1.000000
rad2	4.90869e-24	1.000000	4.90869e-24	1.000000
rad68anti	3.92882e-24	1.000000	3.92882e-24	1.000000
rad26	1.12365e-24	1.000000	1.12365e-24	1.000000
rad7	6.98806e-25	1.000000	6.98806e-25	1.000000
rad1	3.25646e-25	1.000000	3.25646e-25	1.000000
rad10	2.53089e-25	1.000000	2.53089e-25	1.000000
rad11	1.73750e-25	1.000000	1.73750e-25	1.000000
rad3	3.10875e-26	1.000000	3.10875e-26	1.000000
rad4	1.58934e-26	1.000000	1.58934e-26	1.000000
rad40syn	5.38952e-27	1.000000	5.38952e-27	1.000000
rad40anti	4.30385e-27	1.000000	4.30385e-27	1.000000
rad13	3.79402e-27	1.000000	3.79402e-27	1.000000
rad9	3.23880e-28	1.000000	3.23880e-28	1.000000
rad73	2.64760e-28	1.000000	2.64760e-28	1.000000
PAH8+H	1.67786e-28	1.000000	1.67786e-28	1.000000
rad47	6.30689e-29	1.000000	6.30689e-29	1.000000
rad19anti	8.70447e-30	1.000000	8.70447e-30	1.000000

rad33	7.22710e-30	1.00000	7.22710e-30	1.00000
rad14	3.93370e-30	1.00000	3.93370e-30	1.00000
rad27	2.99881e-30	1.00000	2.99881e-30	1.00000
rad25	2.64298e-30	1.00000	2.64298e-30	1.00000
rad71	1.66929e-31	1.00000	1.66929e-31	1.00000
rad15	1.42567e-31	1.00000	1.42567e-31	1.00000
rad23	7.84688e-33	1.00000	7.84688e-33	1.00000
rad5	4.87525e-33	1.00000	4.87525e-33	1.00000
rad31	2.04775e-34	1.00000	2.04775e-34	1.00000
rad45	6.68913e-35	1.00000	6.68913e-35	1.00000
rad20	3.40848e-35	1.00000	3.40848e-35	1.00000
rad21	2.57384e-35	1.00000	2.57384e-35	1.00000
rad22	5.72536e-36	1.00000	5.72536e-36	1.00000
rad36	4.12345e-36	1.00000	4.12345e-36	1.00000
rad12	1.65739e-36	1.00000	1.65739e-36	1.00000
rad18	1.59084e-37	1.00000	1.59084e-37	1.00000
rad19syn	8.89196e-39	1.00000	8.89196e-39	1.00000
rad24	3.20946e-42	1.00000	3.20946e-42	1.00000
rad8	3.08796e-61	1.00000	3.08796e-61	1.00000

0.100000000E-02 Pa, 180.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.12884e-14 (1.00)	1.12884e-14 (1.00)
Formation of rad19	1.12881e-14 (1.000)	1.12881e-14 (1.000)
H-abstraction to cyc2enyl	2.75916e-19 (2.44e-05)	2.75916e-19 (2.44e-05)
H-abstraction to cyclenyl	2.39955e-23 (2.13e-09)	2.39955e-23 (2.13e-09)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999638	0.999638	0.999638	0.999638
PhCHCCH2+H	0.000320237	0.999958	0.000320237	0.999958
Benzene+cycloprop-2-enylidene	2.44424e-05	0.999982	2.44424e-05	0.999982
PhCCH+CH3	5.69143e-06	0.999988	5.69143e-06	0.999988
C2H2+PhCH2	4.41165e-06	0.999992	4.41165e-06	0.999992
PhCCCH3+H	3.34270e-06	0.999996	3.34270e-06	0.999996
Ph+MeAc	2.73409e-06	0.999998	2.73409e-06	0.999998
rad67	8.07006e-07	0.999999	8.07006e-07	0.999999
rad35	3.49601e-07	1.000000	3.49601e-07	1.000000
Ph+Allene	2.89641e-07	1.000000	2.89641e-07	1.000000
PhCH2CCH+H	3.99416e-08	1.000000	3.99416e-08	1.000000
PAH7+H	3.42810e-08	1.000000	3.42810e-08	1.000000
rad39	9.67233e-09	1.000000	9.67233e-09	1.000000
rad37	9.25278e-09	1.000000	9.25278e-09	1.000000
rad30	6.63273e-09	1.000000	6.63273e-09	1.000000
Benzene+cycloprop-1-enylidene	2.12567e-09	1.000000	2.12567e-09	1.000000
PAH9+H	5.06881e-10	1.000000	5.06881e-10	1.000000
rad38	2.29236e-10	1.000000	2.29236e-10	1.000000
rad60syn	3.57039e-11	1.000000	3.57039e-11	1.000000
PAH10+CH3	2.35096e-11	1.000000	2.35096e-11	1.000000
PAH3+H	1.86587e-11	1.000000	1.86587e-11	1.000000
rad60anti	1.77715e-11	1.000000	1.77715e-11	1.000000
rad46	1.45742e-11	1.000000	1.45742e-11	1.000000
PhcycC3H3_A+H	1.01654e-11	1.000000	1.01654e-11	1.000000
rad59	3.71043e-12	1.000000	3.71043e-12	1.000000
rad43	9.19854e-13	1.000000	9.19854e-13	1.000000
rad54	8.60254e-13	1.000000	8.60254e-13	1.000000
rad62	2.04274e-13	1.000000	2.04274e-13	1.000000
rad50	1.42114e-13	1.000000	1.42114e-13	1.000000
Phenyl+cycC3H4	8.44565e-14	1.000000	0.000000	1.000000
PhcycC3H3_B+H	2.84776e-14	1.000000	2.84776e-14	1.000000
rad70	2.05492e-14	1.000000	2.05492e-14	1.000000
rad55	9.11251e-15	1.000000	9.11251e-15	1.000000
PAH1+H	7.32220e-15	1.000000	7.32220e-15	1.000000
rad52	1.21472e-15	1.000000	1.21472e-15	1.000000
rad58	5.98614e-16	1.000000	5.98614e-16	1.000000
rad51	4.25382e-16	1.000000	4.25382e-16	1.000000
rad34	4.00722e-16	1.000000	4.00722e-16	1.000000
rad41	8.74610e-17	1.000000	8.74610e-17	1.000000
rad42	6.22087e-17	1.000000	6.22087e-17	1.000000
rad65	9.95702e-18	1.000000	9.95702e-18	1.000000
rad53	3.16048e-19	1.000000	3.16048e-19	1.000000
rad64	5.99750e-20	1.000000	5.99750e-20	1.000000
rad6	7.06158e-21	1.000000	7.06158e-21	1.000000
rad61	4.00796e-21	1.000000	4.00796e-21	1.000000
rad56	1.79198e-22	1.000000	1.79198e-22	1.000000
rad68syn	1.75219e-23	1.000000	1.75219e-23	1.000000
rad68anti	1.37230e-23	1.000000	1.37230e-23	1.000000
rad28	6.67491e-24	1.000000	6.67491e-24	1.000000

rad2	3.76326e-24	1.000000	3.76326e-24	1.000000
rad26	8.83545e-25	1.000000	8.83545e-25	1.000000
rad7	5.36242e-25	1.000000	5.36242e-25	1.000000
rad1	2.51277e-25	1.000000	2.51277e-25	1.000000
rad10	1.94097e-25	1.000000	1.94097e-25	1.000000
rad11	1.33367e-25	1.000000	1.33367e-25	1.000000
rad40syn	3.05799e-26	1.000000	3.05799e-26	1.000000
rad40anti	2.44830e-26	1.000000	2.44830e-26	1.000000
rad3	2.38235e-26	1.000000	2.38235e-26	1.000000
rad4	1.22009e-26	1.000000	1.22009e-26	1.000000
rad13	2.92177e-27	1.000000	2.92177e-27	1.000000
rad73	1.39304e-27	1.000000	1.39304e-27	1.000000
PAH8+H	1.32186e-27	1.000000	1.32186e-27	1.000000
rad9	3.61203e-28	1.000000	3.61203e-28	1.000000
rad47	6.50834e-29	1.000000	6.50834e-29	1.000000
rad19anti	2.31232e-29	1.000000	2.31232e-29	1.000000
rad33	5.57469e-30	1.000000	5.57469e-30	1.000000
rad14	3.05358e-30	1.000000	3.05358e-30	1.000000
rad27	2.31420e-30	1.000000	2.31420e-30	1.000000
rad25	2.04302e-30	1.000000	2.04302e-30	1.000000
rad71	1.48893e-30	1.000000	1.48893e-30	1.000000
rad15	1.59296e-31	1.000000	1.59296e-31	1.000000
rad23	5.62562e-33	1.000000	5.62562e-33	1.000000
rad5	4.27491e-33	1.000000	4.27491e-33	1.000000
rad31	2.71031e-34	1.000000	2.71031e-34	1.000000
rad45	4.78162e-35	1.000000	4.78162e-35	1.000000
rad20	2.80804e-35	1.000000	2.80804e-35	1.000000
rad21	2.12675e-35	1.000000	2.12675e-35	1.000000
rad22	4.20430e-36	1.000000	4.20430e-36	1.000000
rad36	2.95371e-36	1.000000	2.95371e-36	1.000000
rad12	1.86649e-36	1.000000	1.86649e-36	1.000000
rad18	1.30222e-37	1.000000	1.30222e-37	1.000000
rad19syn	2.57212e-38	1.000000	2.57212e-38	1.000000
rad24	2.68244e-42	1.000000	2.68244e-42	1.000000
rad8	4.95850e-61	1.000000	4.95850e-61	1.000000

0.100000000E-02 Pa, 190.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.32132e-14 (1.00)	1.32132e-14 (1.00)
Formation of rad19	1.32126e-14 (1.000)	1.32126e-14 (1.000)
H-abstraction to cyc2enyl	5.62053e-19 (4.25e-05)	5.62053e-19 (4.25e-05)
H-abstraction to cyclenyl	8.18073e-23 (6.19e-09)	8.18073e-23 (6.19e-09)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999606	0.999606	0.999606	0.999606
PhCHCCH2+H	0.000332292	0.999939	0.000332292	0.999939
Benzene+cycloprop-2-enylidene	4.25373e-05	0.999981	4.25373e-05	0.999981
PhCCH+CH3	5.91699e-06	0.999987	5.91699e-06	0.999987
C2H2+PhCH2	4.63006e-06	0.999992	4.63006e-06	0.999992
PhCCCH3+H	3.49166e-06	0.999995	3.49166e-06	0.999995
Ph+MeAc	2.88477e-06	0.999998	2.88477e-06	0.999998
rad67	8.49453e-07	0.999999	8.49453e-07	0.999999
rad35	3.67206e-07	0.999999	3.67206e-07	0.999999
Ph+Allene	3.12155e-07	1.000000	3.12155e-07	1.000000
PhCH2CCH+H	4.36082e-08	1.000000	4.36082e-08	1.000000
PAH7+H	3.65187e-08	1.000000	3.65187e-08	1.000000
rad39	1.03020e-08	1.000000	1.03020e-08	1.000000
rad37	9.89453e-09	1.000000	9.89453e-09	1.000000
rad30	6.98051e-09	1.000000	6.98051e-09	1.000000
Benzene+cycloprop-1-enylidene	6.19133e-09	1.000000	6.19133e-09	1.000000
PAH9+H	5.42544e-10	1.000000	5.42544e-10	1.000000
rad38	2.47340e-10	1.000000	2.47340e-10	1.000000
rad60syn	3.84177e-11	1.000000	3.84177e-11	1.000000
PAH10+CH3	2.71453e-11	1.000000	2.71453e-11	1.000000
PAH3+H	2.06605e-11	1.000000	2.06605e-11	1.000000
rad60anti	1.91604e-11	1.000000	1.91604e-11	1.000000
rad46	1.58102e-11	1.000000	1.58102e-11	1.000000
PhcycC3H3_A+H	1.33135e-11	1.000000	1.33135e-11	1.000000
rad59	4.08937e-12	1.000000	4.08937e-12	1.000000
rad43	1.04093e-12	1.000000	1.04093e-12	1.000000
rad54	9.92277e-13	1.000000	9.92277e-13	1.000000
rad62	2.31614e-13	1.000000	2.31614e-13	1.000000
rad50	1.60774e-13	1.000000	1.60774e-13	1.000000
Phenyl+cycC3H4	1.24603e-13	1.000000	0.000000	1.000000
PhcycC3H3_B+H	5.08976e-14	1.000000	5.08976e-14	1.000000
rad70	2.47591e-14	1.000000	2.47591e-14	1.000000
rad55	1.09805e-14	1.000000	1.09805e-14	1.000000

PAH1+H	9.37165e-15	1.000000	9.37165e-15	1.000000
rad52	1.41903e-15	1.000000	1.41903e-15	1.000000
rad58	7.35850e-16	1.000000	7.35850e-16	1.000000
rad51	5.16403e-16	1.000000	5.16403e-16	1.000000
rad34	5.14899e-16	1.000000	5.14899e-16	1.000000
rad41	1.17037e-16	1.000000	1.17037e-16	1.000000
rad42	8.10423e-17	1.000000	8.10423e-17	1.000000
rad65	1.22835e-17	1.000000	1.22835e-17	1.000000
rad53	5.56066e-19	1.000000	5.56066e-19	1.000000
rad64	1.17013e-19	1.000000	1.17013e-19	1.000000
rad61	1.05586e-20	1.000000	1.05586e-20	1.000000
rad6	5.53375e-21	1.000000	5.53375e-21	1.000000
rad56	5.33155e-22	1.000000	5.33155e-22	1.000000
rad68syn	5.52611e-23	1.000000	5.52611e-23	1.000000
rad68anti	4.29972e-23	1.000000	4.29972e-23	1.000000
rad28	5.24687e-24	1.000000	5.24687e-24	1.000000
rad2	2.95425e-24	1.000000	2.95425e-24	1.000000
rad26	7.16193e-25	1.000000	7.16193e-25	1.000000
rad7	4.20264e-25	1.000000	4.20264e-25	1.000000
rad1	1.98651e-25	1.000000	1.98651e-25	1.000000
rad10	1.52445e-25	1.000000	1.52445e-25	1.000000
rad40syn	1.47211e-25	1.000000	1.47211e-25	1.000000
rad40anti	1.18053e-25	1.000000	1.18053e-25	1.000000
rad11	1.04555e-25	1.000000	1.04555e-25	1.000000
rad3	1.86852e-26	1.000000	1.86852e-26	1.000000
rad4	9.58753e-27	1.000000	9.58753e-27	1.000000
PAH8+H	8.53874e-27	1.000000	8.53874e-27	1.000000
rad73	6.34219e-27	1.000000	6.34219e-27	1.000000
rad13	2.29783e-27	1.000000	2.29783e-27	1.000000
rad9	4.30384e-28	1.000000	4.30384e-28	1.000000
rad47	6.80097e-29	1.000000	6.80097e-29	1.000000
rad19anti	6.45302e-29	1.000000	6.45302e-29	1.000000
rad71	1.07843e-29	1.000000	1.07843e-29	1.000000
rad33	4.39180e-30	1.000000	4.39180e-30	1.000000
rad14	2.42964e-30	1.000000	2.42964e-30	1.000000
rad27	1.82959e-30	1.000000	1.82959e-30	1.000000
rad25	1.61349e-30	1.000000	1.61349e-30	1.000000
rad15	1.90177e-31	1.000000	1.90177e-31	1.000000
rad23	4.18665e-33	1.000000	4.18665e-33	1.000000
rad5	3.77821e-33	1.000000	3.77821e-33	1.000000
rad31	4.64642e-34	1.000000	4.64642e-34	1.000000
rad45	3.54994e-35	1.000000	3.54994e-35	1.000000
rad20	2.36772e-35	1.000000	2.36772e-35	1.000000
rad21	1.79890e-35	1.000000	1.79890e-35	1.000000
rad22	3.18631e-36	1.000000	3.18631e-36	1.000000
rad12	2.24706e-36	1.000000	2.24706e-36	1.000000
rad36	2.19821e-36	1.000000	2.19821e-36	1.000000
rad18	1.09090e-37	1.000000	1.09090e-37	1.000000
rad19syn	7.83212e-38	1.000000	7.83212e-38	1.000000
rad24	2.34257e-42	1.000000	2.34257e-42	1.000000
rad8	8.13021e-61	1.000000	8.13021e-61	1.000000

0.100000000E-02 Pa, 200.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.52621e-14 (1.00)	1.52621e-14 (1.00)
Formation of rad19	1.52610e-14 (1.000)	1.52610e-14 (1.000)
H-abstraction to cyc2enyl	1.06427e-18 (6.97e-05)	1.06427e-18 (6.97e-05)
H-abstraction to cyclenyl	2.46309e-22 (1.61e-08)	2.46309e-22 (1.61e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999565	0.999565	0.999565	0.999565
PhCHCCH2+H	0.000345432	0.999911	0.000345432	0.999911
Benzene+cycloprop-2-enylidene	6.97330e-05	0.999980	6.97330e-05	0.999980
PhCCH+CH3	6.16236e-06	0.999987	6.16236e-06	0.999987
C2H2+PhCH2	4.87094e-06	0.999991	4.87094e-06	0.999991
PhCCCH3+H	3.65491e-06	0.999995	3.65491e-06	0.999995
Ph+MeAc	3.05167e-06	0.999998	3.05167e-06	0.999998
rad67	8.96409e-07	0.999999	8.96409e-07	0.999999
rad35	3.86640e-07	0.999999	3.86640e-07	0.999999
Ph+Allene	3.37735e-07	1.000000	3.37735e-07	1.000000
PhCH2CCH+H	4.78321e-08	1.000000	4.78321e-08	1.000000
PAH7+H	3.90282e-08	1.000000	3.90282e-08	1.000000
Benzene+cycloprop-1-enylidene	1.61386e-08	1.000000	1.61386e-08	1.000000
rad39	1.10073e-08	1.000000	1.10073e-08	1.000000
rad37	1.06171e-08	1.000000	1.06171e-08	1.000000
rad30	7.36596e-09	1.000000	7.36596e-09	1.000000
PAH9+H	5.82858e-10	1.000000	5.82858e-10	1.000000

rad38	2.68017e-10	1.000000	2.68017e-10	1.000000
rad60syn	4.14998e-11	1.000000	4.14998e-11	1.000000
PAH10+CH3	3.15718e-11	1.000000	3.15718e-11	1.000000
PAH3+H	2.30050e-11	1.000000	2.30050e-11	1.000000
rad60anti	2.07412e-11	1.000000	2.07412e-11	1.000000
PhcycC3H3_A+H	1.75313e-11	1.000000	1.75313e-11	1.000000
rad46	1.72283e-11	1.000000	1.72283e-11	1.000000
rad59	4.53079e-12	1.000000	4.53079e-12	1.000000
rad43	1.18502e-12	1.000000	1.18502e-12	1.000000
rad54	1.15297e-12	1.000000	1.15297e-12	1.000000
rad62	2.64126e-13	1.000000	2.64126e-13	1.000000
Phenyl+cycC3H4	1.83626e-13	1.000000	0.000000	1.000000
rad50	1.83171e-13	1.000000	1.83171e-13	1.000000
PhcycC3H3_B+H	8.87690e-14	1.000000	8.87690e-14	1.000000
rad70	3.00938e-14	1.000000	3.00938e-14	1.000000
rad55	1.33459e-14	1.000000	1.33459e-14	1.000000
PAH1+H	1.21055e-14	1.000000	1.21055e-14	1.000000
rad52	1.67230e-15	1.000000	1.67230e-15	1.000000
rad58	9.13194e-16	1.000000	9.13194e-16	1.000000
rad34	6.67791e-16	1.000000	6.67791e-16	1.000000
rad51	6.33500e-16	1.000000	6.33500e-16	1.000000
rad41	1.57580e-16	1.000000	1.57580e-16	1.000000
rad42	1.06218e-16	1.000000	1.06218e-16	1.000000
rad65	1.53164e-17	1.000000	1.53164e-17	1.000000
rad53	9.61748e-19	1.000000	9.61748e-19	1.000000
rad64	2.21447e-19	1.000000	2.21447e-19	1.000000
rad61	2.60100e-20	1.000000	2.60100e-20	1.000000
rad6	4.43501e-21	1.000000	4.43501e-21	1.000000
rad56	1.46261e-21	1.000000	1.46261e-21	1.000000
rad68syn	1.59246e-22	1.000000	1.59246e-22	1.000000
rad68anti	1.23063e-22	1.000000	1.23063e-22	1.000000
rad28	4.21353e-24	1.000000	4.21353e-24	1.000000
rad2	2.38290e-24	1.000000	2.38290e-24	1.000000
rad40syn	6.17070e-25	1.000000	6.17070e-25	1.000000
rad26	6.02257e-25	1.000000	6.02257e-25	1.000000
rad40anti	4.95186e-25	1.000000	4.95186e-25	1.000000
rad7	3.36918e-25	1.000000	3.36918e-25	1.000000
rad1	1.61462e-25	1.000000	1.61462e-25	1.000000
rad10	1.23040e-25	1.000000	1.23040e-25	1.000000
rad11	8.38481e-26	1.000000	8.38481e-26	1.000000
PAH8+H	4.65846e-26	1.000000	4.65846e-26	1.000000
rad73	2.55570e-26	1.000000	2.55570e-26	1.000000
rad3	1.50436e-26	1.000000	1.50436e-26	1.000000
rad4	7.73504e-27	1.000000	7.73504e-27	1.000000
rad13	1.84845e-27	1.000000	1.84845e-27	1.000000
rad9	5.67545e-28	1.000000	5.67545e-28	1.000000
rad19anti	1.88743e-28	1.000000	1.88743e-28	1.000000
rad47	7.19915e-29	1.000000	7.19915e-29	1.000000
rad71	6.53595e-29	1.000000	6.53595e-29	1.000000
rad33	3.53935e-30	1.000000	3.53935e-30	1.000000
rad14	1.98915e-30	1.000000	1.98915e-30	1.000000
rad27	1.48736e-30	1.000000	1.48736e-30	1.000000
rad25	1.30400e-30	1.000000	1.30400e-30	1.000000
rad15	2.51292e-31	1.000000	2.51292e-31	1.000000
rad5	3.36226e-33	1.000000	3.36226e-33	1.000000
rad23	3.25097e-33	1.000000	3.25097e-33	1.000000
rad31	9.63480e-34	1.000000	9.63480e-34	1.000000
rad45	2.75120e-35	1.000000	2.75120e-35	1.000000
rad20	2.04671e-35	1.000000	2.04671e-35	1.000000
rad21	1.56019e-35	1.000000	1.56019e-35	1.000000
rad12	2.99576e-36	1.000000	2.99576e-36	1.000000
rad22	2.49723e-36	1.000000	2.49723e-36	1.000000
rad36	1.70842e-36	1.000000	1.70842e-36	1.000000
rad19syn	2.51002e-37	1.000000	2.51002e-37	1.000000
rad18	9.36684e-38	1.000000	9.36684e-38	1.000000
rad24	2.14128e-42	1.000000	2.14128e-42	1.000000
rad8	1.36111e-60	1.000000	1.36111e-60	1.000000

0.100000000E-02 Pa, 210.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.74272e-14 (1.00)	1.74272e-14 (1.00)
Formation of rad19	1.74253e-14 (1.000)	1.74253e-14 (1.000)
H-abstraction to cyc2enyl	1.89310e-18 (0.000109)	1.89310e-18 (0.000109)
H-abstraction to cyclenyl	6.66714e-22 (3.83e-08)	6.66714e-22 (3.83e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999511	0.999511	0.999511	0.999511

PhCHCCH2+H	0.000359770	0.999871	0.000359770	0.999871
Benzene+cycloprop-2-enylidene	0.000108629	0.999980	0.000108629	0.999980
PhCCH+CH3	6.42947e-06	0.999986	6.42947e-06	0.999986
C2H2+PhCH2	5.13690e-06	0.999991	5.13690e-06	0.999991
PhCCCH3+H	3.83396e-06	0.999995	3.83396e-06	0.999995
Ph+MeAc	3.23679e-06	0.999998	3.23679e-06	0.999998
rad67	9.48429e-07	0.999999	9.48429e-07	0.999999
rad35	4.08121e-07	1.000000	4.08121e-07	1.000000
Ph+Allene	3.66868e-07	1.000000	3.66868e-07	1.000000
PhCH2CCH+H	5.27115e-08	1.000000	5.27115e-08	1.000000
PAH7+H	4.18476e-08	1.000000	4.18476e-08	1.000000
Benzene+cycloprop-1-enylidene	3.82571e-08	1.000000	3.82571e-08	1.000000
rad39	1.17992e-08	1.000000	1.17992e-08	1.000000
rad37	1.14321e-08	1.000000	1.14321e-08	1.000000
rad30	7.79379e-09	1.000000	7.79379e-09	1.000000
PAH9+H	6.28539e-10	1.000000	6.28539e-10	1.000000
rad38	2.91700e-10	1.000000	2.91700e-10	1.000000
rad60syn	4.50091e-11	1.000000	4.50091e-11	1.000000
PAH10+CH3	3.69842e-11	1.000000	3.69842e-11	1.000000
PAH3+H	2.57608e-11	1.000000	2.57608e-11	1.000000
PhcycC3H3_A+H	2.31914e-11	1.000000	2.31914e-11	1.000000
rad60anti	2.25451e-11	1.000000	2.25451e-11	1.000000
rad46	1.88604e-11	1.000000	1.88604e-11	1.000000
rad59	5.04678e-12	1.000000	5.04678e-12	1.000000
rad43	1.35706e-12	1.000000	1.35706e-12	1.000000
rad54	1.34940e-12	1.000000	1.34940e-12	1.000000
rad62	3.02904e-13	1.000000	3.02904e-13	1.000000
Phenyl+cycC3H4	2.70226e-13	1.000000	0.000000	1.000000
rad50	2.10183e-13	1.000000	2.10183e-13	1.000000
PhcycC3H3_B+H	1.51586e-13	1.000000	1.51586e-13	1.000000
rad70	3.68870e-14	1.000000	3.68870e-14	1.000000
rad55	1.63548e-14	1.000000	1.63548e-14	1.000000
PAH1+H	1.57688e-14	1.000000	1.57688e-14	1.000000
rad52	1.98808e-15	1.000000	1.98808e-15	1.000000
rad58	1.14361e-15	1.000000	1.14361e-15	1.000000
rad34	8.73476e-16	1.000000	8.73476e-16	1.000000
rad51	7.85141e-16	1.000000	7.85141e-16	1.000000
rad41	2.13275e-16	1.000000	2.13275e-16	1.000000
rad42	1.39937e-16	1.000000	1.39937e-16	1.000000
rad65	1.92959e-17	1.000000	1.92959e-17	1.000000
rad53	1.63917e-18	1.000000	1.63917e-18	1.000000
rad64	4.08337e-19	1.000000	4.08337e-19	1.000000
rad61	6.05357e-20	1.000000	6.05357e-20	1.000000
rad56	3.74704e-21	1.000000	3.74704e-21	1.000000
rad6	3.64852e-21	1.000000	3.64852e-21	1.000000
rad68syn	4.25331e-22	1.000000	4.25331e-22	1.000000
rad68anti	3.26414e-22	1.000000	3.26414e-22	1.000000
rad28	3.46763e-24	1.000000	3.46763e-24	1.000000
rad40syn	2.29905e-24	1.000000	2.29905e-24	1.000000
rad2	1.98874e-24	1.000000	1.98874e-24	1.000000
rad40anti	1.84460e-24	1.000000	1.84460e-24	1.000000
rad26	5.30711e-25	1.000000	5.30711e-25	1.000000
rad7	2.77301e-25	1.000000	2.77301e-25	1.000000
PAH8+H	2.19675e-25	1.000000	2.19675e-25	1.000000
rad1	1.35877e-25	1.000000	1.35877e-25	1.000000
rad10	1.02767e-25	1.000000	1.02767e-25	1.000000
rad73	9.27864e-26	1.000000	9.27864e-26	1.000000
rad11	6.90374e-26	1.000000	6.90374e-26	1.000000
rad3	1.25097e-26	1.000000	1.25097e-26	1.000000
rad4	6.44682e-27	1.000000	6.44682e-27	1.000000
rad13	1.52654e-27	1.000000	1.52654e-27	1.000000
rad9	8.71177e-28	1.000000	8.71177e-28	1.000000
rad19anti	5.77015e-28	1.000000	5.77015e-28	1.000000
rad71	3.39162e-28	1.000000	3.39162e-28	1.000000
rad47	7.72341e-29	1.000000	7.72341e-29	1.000000
rad33	2.92861e-30	1.000000	2.92861e-30	1.000000
rad14	1.68795e-30	1.000000	1.68795e-30	1.000000
rad27	1.25242e-30	1.000000	1.25242e-30	1.000000
rad25	1.08238e-30	1.000000	1.08238e-30	1.000000
rad15	3.86538e-31	1.000000	3.86538e-31	1.000000
rad5	3.01015e-33	1.000000	3.01015e-33	1.000000
rad23	2.67044e-33	1.000000	2.67044e-33	1.000000
rad31	2.24325e-33	1.000000	2.24325e-33	1.000000
rad45	2.25663e-35	1.000000	2.25663e-35	1.000000
rad20	1.82055e-35	1.000000	1.82055e-35	1.000000
rad21	1.39267e-35	1.000000	1.39267e-35	1.000000
rad12	4.65183e-36	1.000000	4.65183e-36	1.000000
rad22	2.03687e-36	1.000000	2.03687e-36	1.000000
rad36	1.40586e-36	1.000000	1.40586e-36	1.000000
rad19syn	8.46110e-37	1.000000	8.46110e-37	1.000000

rad18	8.27317e-38	1.00000	8.27317e-38	1.00000
rad24	2.05965e-42	1.00000	2.05965e-42	1.00000
rad8	2.32668e-60	1.00000	2.32668e-60	1.00000

0.100000000E-02 Pa, 220.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.97009e-14 (1.00)	1.97009e-14 (1.00)
Formation of rad19	1.96977e-14 (1.000)	1.96977e-14 (1.000)
H-abstraction to cyc2enyl	3.19064e-18 (0.000162)	3.19064e-18 (0.000162)
H-abstraction to cyc1enyl	1.64627e-21 (8.36e-08)	1.64627e-21 (8.36e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999441	0.999441	0.999441	0.999441
PhCHCCH2+H	0.000375423	0.999816	0.000375423	0.999816
Benzene+cycloprop-2-enylidene	0.000161954	0.999978	0.000161954	0.999978
PhCCH+CH3	6.72033e-06	0.999985	6.72033e-06	0.999985
C2H2+PhCH2	5.43084e-06	0.999991	5.43084e-06	0.999991
PhCCCH3+H	4.03051e-06	0.999995	4.03051e-06	0.999995
Ph+MeAc	3.44234e-06	0.999998	3.44234e-06	0.999998
rad67	1.00612e-06	0.999999	1.00612e-06	0.999999
rad35	4.31890e-07	0.999999	4.31890e-07	0.999999
Ph+Allene	4.00112e-07	1.000000	4.00112e-07	1.000000
Benzene+cycloprop-1-enylidene	8.35632e-08	1.000000	8.35632e-08	1.000000
PhCH2CCH+H	5.83619e-08	1.000000	5.83619e-08	1.000000
PAH7+H	4.50199e-08	1.000000	4.50199e-08	1.000000
rad39	1.26891e-08	1.000000	1.26891e-08	1.000000
rad37	1.23531e-08	1.000000	1.23531e-08	1.000000
rad30	8.26927e-09	1.000000	8.26927e-09	1.000000
PAH9+H	6.80406e-10	1.000000	6.80406e-10	1.000000
rad38	3.18894e-10	1.000000	3.18894e-10	1.000000
rad60syn	4.90135e-11	1.000000	4.90135e-11	1.000000
PAH10+CH3	4.36269e-11	1.000000	4.36269e-11	1.000000
PhcycC3H3_A+H	3.07931e-11	1.000000	3.07931e-11	1.000000
PAH3+H	2.90106e-11	1.000000	2.90106e-11	1.000000
rad60anti	2.46082e-11	1.000000	2.46082e-11	1.000000
rad46	2.07435e-11	1.000000	2.07435e-11	1.000000
rad59	5.65170e-12	1.000000	5.65170e-12	1.000000
rad54	1.59045e-12	1.000000	1.59045e-12	1.000000
rad43	1.56308e-12	1.000000	1.56308e-12	1.000000
Phenyl+cycC3H4	3.96956e-13	1.000000	0.000000	1.000000
rad62	3.49271e-13	1.000000	3.49271e-13	1.000000
PhcycC3H3_B+H	2.54101e-13	1.000000	2.54101e-13	1.000000
rad50	2.42901e-13	1.000000	2.42901e-13	1.000000
rad70	4.55735e-14	1.000000	4.55735e-14	1.000000
PAH1+H	2.06951e-14	1.000000	2.06951e-14	1.000000
rad55	2.01982e-14	1.000000	2.01982e-14	1.000000
rad52	2.38388e-15	1.000000	2.38388e-15	1.000000
rad58	1.44435e-15	1.000000	1.44435e-15	1.000000
rad34	1.15121e-15	1.000000	1.15121e-15	1.000000
rad51	9.82678e-16	1.000000	9.82678e-16	1.000000
rad41	2.89882e-16	1.000000	2.89882e-16	1.000000
rad42	1.85155e-16	1.000000	1.85155e-16	1.000000
rad65	2.45471e-17	1.000000	2.45471e-17	1.000000
rad53	2.75783e-18	1.000000	2.75783e-18	1.000000
rad64	7.36125e-19	1.000000	7.36125e-19	1.000000
rad61	1.34203e-19	1.000000	1.34203e-19	1.000000
rad56	9.05503e-21	1.000000	9.05503e-21	1.000000
rad6	3.10096e-21	1.000000	3.10096e-21	1.000000
rad68syn	1.06488e-21	1.000000	1.06488e-21	1.000000
rad68anti	8.11584e-22	1.000000	8.11584e-22	1.000000
rad40syn	7.73811e-24	1.000000	7.73811e-24	1.000000
rad40anti	6.20294e-24	1.000000	6.20294e-24	1.000000
rad28	2.94107e-24	1.000000	2.94107e-24	1.000000
rad2	1.73811e-24	1.000000	1.73811e-24	1.000000
PAH8+H	9.11861e-25	1.000000	9.11861e-25	1.000000
rad26	4.96850e-25	1.000000	4.96850e-25	1.000000
rad73	3.07711e-25	1.000000	3.07711e-25	1.000000
rad7	2.35835e-25	1.000000	2.35835e-25	1.000000
rad1	1.19826e-25	1.000000	1.19826e-25	1.000000
rad10	8.98955e-26	1.000000	8.98955e-26	1.000000
rad11	5.87379e-26	1.000000	5.87379e-26	1.000000
rad3	1.08605e-26	1.000000	1.08605e-26	1.000000
rad4	5.61079e-27	1.000000	5.61079e-27	1.000000
rad19anti	1.83797e-27	1.000000	1.83797e-27	1.000000
rad9	1.62378e-27	1.000000	1.62378e-27	1.000000
rad71	1.53448e-27	1.000000	1.53448e-27	1.000000
rad13	1.30266e-27	1.000000	1.30266e-27	1.000000

rad47	8.40233e-29	1.00000	8.40233e-29	1.00000
rad33	2.50419e-30	1.00000	2.50419e-30	1.00000
rad14	1.50236e-30	1.00000	1.50236e-30	1.00000
rad27	1.10592e-30	1.00000	1.10592e-30	1.00000
rad25	9.28583e-31	1.00000	9.28583e-31	1.00000
rad15	7.22023e-31	1.00000	7.22023e-31	1.00000
rad31	5.61198e-33	1.00000	5.61198e-33	1.00000
rad5	2.70926e-33	1.00000	2.70926e-33	1.00000
rad23	2.40109e-33	1.00000	2.40109e-33	1.00000
rad45	2.02713e-35	1.00000	2.02713e-35	1.00000
rad20	1.67729e-35	1.00000	1.67729e-35	1.00000
rad21	1.28786e-35	1.00000	1.28786e-35	1.00000
rad12	8.77671e-36	1.00000	8.77671e-36	1.00000
rad19syn	2.99699e-36	1.00000	2.99699e-36	1.00000
rad22	1.75617e-36	1.00000	1.75617e-36	1.00000
rad36	1.26755e-36	1.00000	1.26755e-36	1.00000
rad18	7.56513e-38	1.00000	7.56513e-38	1.00000
rad24	2.10767e-42	1.00000	2.10767e-42	1.00000
rad8	4.06177e-60	1.00000	4.06177e-60	1.00000

0.100000000E-02 Pa, 230.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.20761e-14 (1.00)	2.20761e-14 (1.00)
Formation of rad19	2.20710e-14 (1.000)	2.20710e-14 (1.000)
H-abstraction to cyc2enyl	5.13155e-18 (0.000232)	5.13155e-18 (0.000232)
H-abstraction to cyclenyl	3.75316e-21 (1.70e-07)	3.75316e-21 (1.70e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999352	0.999352	0.999352	0.999352
PhCHCCH2+H	0.000392519	0.999745	0.000392519	0.999745
Benzene+cycloprop-2-enylidene	0.000232448	0.999977	0.000232448	0.999977
PhCCH+CH3	7.03706e-06	0.999984	7.03706e-06	0.999984
C2H2+PhCH2	5.75587e-06	0.999990	5.75587e-06	0.999990
PhCCCH3+H	4.24632e-06	0.999994	4.24632e-06	0.999994
Ph+MeAc	3.67072e-06	0.999998	3.67072e-06	0.999998
rad67	1.07013e-06	0.999999	1.07013e-06	0.999999
rad35	4.58207e-07	1.000000	4.58207e-07	1.000000
Ph+Allene	4.38111e-07	1.000000	4.38111e-07	1.000000
Benzene+cycloprop-1-enylidene	1.70010e-07	1.000000	1.70010e-07	1.000000
PhCH2CCH+H	6.49190e-08	1.000000	6.49190e-08	1.000000
PAH7+H	4.85935e-08	1.000000	4.85935e-08	1.000000
rad39	1.36905e-08	1.000000	1.36905e-08	1.000000
rad37	1.33952e-08	1.000000	1.33952e-08	1.000000
rad30	8.79818e-09	1.000000	8.79818e-09	1.000000
PAH9+H	7.39402e-10	1.000000	7.39402e-10	1.000000
rad38	3.50192e-10	1.000000	3.50192e-10	1.000000
rad60syn	5.35909e-11	1.000000	5.35909e-11	1.000000
PAH10+CH3	5.18063e-11	1.000000	5.18063e-11	1.000000
PhcycC3H3_A+H	4.10037e-11	1.000000	4.10037e-11	1.000000
PAH3+H	3.28540e-11	1.000000	3.28540e-11	1.000000
rad60anti	2.69722e-11	1.000000	2.69722e-11	1.000000
rad46	2.29216e-11	1.000000	2.29216e-11	1.000000
rad59	6.36279e-12	1.000000	6.36279e-12	1.000000
rad54	1.88722e-12	1.000000	1.88722e-12	1.000000
rad43	1.81037e-12	1.000000	1.81037e-12	1.000000
Phenyl+cycC3H4	5.81829e-13	1.000000	0.000000	1.000000
PhcycC3H3_B+H	4.18958e-13	1.000000	4.18958e-13	1.000000
rad62	4.04824e-13	1.000000	4.04824e-13	1.000000
rad50	2.82685e-13	1.000000	2.82685e-13	1.000000
rad70	5.67199e-14	1.000000	5.67199e-14	1.000000
PAH1+H	2.73381e-14	1.000000	2.73381e-14	1.000000
rad55	2.51238e-14	1.000000	2.51238e-14	1.000000
rad52	2.88230e-15	1.000000	2.88230e-15	1.000000
rad58	1.83839e-15	1.000000	1.83839e-15	1.000000
rad34	1.52728e-15	1.000000	1.52728e-15	1.000000
rad51	1.24135e-15	1.000000	1.24135e-15	1.000000
rad41	3.95301e-16	1.000000	3.95301e-16	1.000000
rad42	2.45818e-16	1.000000	2.45818e-16	1.000000
rad65	3.15109e-17	1.000000	3.15109e-17	1.000000
rad53	4.58586e-18	1.000000	4.58586e-18	1.000000
rad64	1.30071e-18	1.000000	1.30071e-18	1.000000
rad61	2.85227e-19	1.000000	2.85227e-19	1.000000
rad56	2.08041e-20	1.000000	2.08041e-20	1.000000
rad6	2.75029e-21	1.000000	2.75029e-21	1.000000
rad68syn	2.52150e-21	1.000000	2.52150e-21	1.000000
rad68anti	1.90876e-21	1.000000	1.90876e-21	1.000000
rad40syn	2.38313e-23	1.000000	2.38313e-23	1.000000

rad40anti	1.90760e-23	1.00000	1.90760e-23	1.00000
PAH8+H	3.38038e-24	1.00000	3.38038e-24	1.00000
rad28	2.59359e-24	1.00000	2.59359e-24	1.00000
rad2	1.62000e-24	1.00000	1.62000e-24	1.00000
rad73	9.42023e-25	1.00000	9.42023e-25	1.00000
rad26	5.01912e-25	1.00000	5.01912e-25	1.00000
rad7	2.09332e-25	1.00000	2.09332e-25	1.00000
rad1	1.12779e-25	1.00000	1.12779e-25	1.00000
rad10	8.38737e-26	1.00000	8.38737e-26	1.00000
rad11	5.21604e-26	1.00000	5.21604e-26	1.00000
rad3	1.00077e-26	1.00000	1.00077e-26	1.00000
rad71	6.14176e-27	1.00000	6.14176e-27	1.00000
rad19anti	6.07793e-27	1.00000	6.07793e-27	1.00000
rad4	5.18417e-27	1.00000	5.18417e-27	1.00000
rad9	3.67241e-27	1.00000	3.67241e-27	1.00000
rad13	1.16019e-27	1.00000	1.16019e-27	1.00000
rad47	9.27534e-29	1.00000	9.27534e-29	1.00000
rad33	2.23512e-30	1.00000	2.23512e-30	1.00000
rad15	1.63660e-30	1.00000	1.63660e-30	1.00000
rad14	1.42647e-30	1.00000	1.42647e-30	1.00000
rad27	1.04299e-30	1.00000	1.04299e-30	1.00000
rad25	8.31345e-31	1.00000	8.31345e-31	1.00000
rad31	1.47799e-32	1.00000	1.47799e-32	1.00000
rad23	2.55310e-33	1.00000	2.55310e-33	1.00000
rad5	2.44997e-33	1.00000	2.44997e-33	1.00000
rad45	2.15475e-35	1.00000	2.15475e-35	1.00000
rad12	2.01069e-35	1.00000	2.01069e-35	1.00000
rad20	1.61680e-35	1.00000	1.61680e-35	1.00000
rad21	1.24630e-35	1.00000	1.24630e-35	1.00000
rad19syn	1.11381e-35	1.00000	1.11381e-35	1.00000
rad22	1.66055e-36	1.00000	1.66055e-36	1.00000
rad36	1.35301e-36	1.00000	1.35301e-36	1.00000
rad18	7.23378e-38	1.00000	7.23378e-38	1.00000
rad24	2.34164e-42	1.00000	2.34164e-42	1.00000
rad8	7.24343e-60	1.00000	7.24343e-60	1.00000

0.100000000E-02 Pa, 240.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.45462e-14 (1.00)	2.45462e-14 (1.00)
Formation of rad19	2.45383e-14 (1.000)	2.45383e-14 (1.000)
H-abstraction to cyc2enyl	7.92234e-18 (0.000323)	7.92234e-18 (0.000323)
H-abstraction to cyclenyl	7.97958e-21 (3.25e-07)	7.97958e-21 (3.25e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999241	0.999241	0.999241	0.999241
PhCHCCH2+H	0.000411191	0.999652	0.000411191	0.999652
Benzene+cycloprop-2-enylidene	0.000322752	0.999975	0.000322752	0.999975
PhCCH+CH3	7.38188e-06	0.999982	7.38188e-06	0.999982
C2H2+PhCH2	6.11540e-06	0.999989	6.11540e-06	0.999989
PhCCCH3+H	4.48333e-06	0.999993	4.48333e-06	0.999993
Ph+MeAc	3.92457e-06	0.999997	3.92457e-06	0.999997
rad67	1.14121e-06	0.999998	1.14121e-06	0.999998
rad35	4.87361e-07	0.999999	4.87361e-07	0.999999
Ph+Allene	4.81603e-07	0.999999	4.81603e-07	0.999999
Benzene+cycloprop-1-enylidene	3.25084e-07	0.999999	3.25084e-07	0.999999
PhCH2CCH+H	7.25414e-08	0.999999	7.25414e-08	0.999999
PAH7+H	5.26226e-08	0.999999	5.26226e-08	0.999999
rad39	1.48181e-08	0.999999	1.48181e-08	0.999999
rad37	1.45756e-08	1.000000	1.45756e-08	1.000000
rad30	9.38696e-09	1.000000	9.38696e-09	1.000000
PAH9+H	8.06607e-10	1.000000	8.06607e-10	1.000000
rad38	3.86280e-10	1.000000	3.86280e-10	1.000000
PAH10+CH3	6.19057e-11	1.000000	6.19057e-11	1.000000
rad60syn	5.88318e-11	1.000000	5.88318e-11	1.000000
PhcycC3H3_A+H	5.47108e-11	1.000000	5.47108e-11	1.000000
PAH3+H	3.74108e-11	1.000000	3.74108e-11	1.000000
rad60anti	2.96854e-11	1.000000	2.96854e-11	1.000000
rad46	2.54458e-11	1.000000	2.54458e-11	1.000000
rad59	7.20059e-12	1.000000	7.20059e-12	1.000000
rad54	2.25359e-12	1.000000	2.25359e-12	1.000000
rad43	2.10780e-12	1.000000	2.10780e-12	1.000000
Phenyl+cycC3H4	8.50545e-13	1.000000	0.000000	1.000000
PhcycC3H3_B+H	6.80482e-13	1.000000	6.80482e-13	1.000000
rad62	4.71486e-13	1.000000	4.71486e-13	1.000000
rad50	3.31236e-13	1.000000	3.31236e-13	1.000000
rad70	7.10632e-14	1.000000	7.10632e-14	1.000000
PAH1+H	3.63128e-14	1.000000	3.63128e-14	1.000000

rad55	3.14530e-14	1.000000	3.14530e-14	1.000000
rad52	3.51254e-15	1.000000	3.51254e-15	1.000000
rad58	2.35633e-15	1.000000	2.35633e-15	1.000000
rad34	2.03751e-15	1.000000	2.03751e-15	1.000000
rad51	1.58161e-15	1.000000	1.58161e-15	1.000000
rad41	5.40323e-16	1.000000	5.40323e-16	1.000000
rad42	3.27175e-16	1.000000	3.27175e-16	1.000000
rad65	4.07841e-17	1.000000	4.07841e-17	1.000000
rad53	7.54293e-18	1.000000	7.54293e-18	1.000000
rad64	2.25702e-18	1.000000	2.25702e-18	1.000000
rad61	5.84084e-19	1.000000	5.84084e-19	1.000000
rad56	4.57198e-20	1.000000	4.57198e-20	1.000000
rad68syn	5.68604e-21	1.000000	5.68604e-21	1.000000
rad68anti	4.27641e-21	1.000000	4.27641e-21	1.000000
rad6	2.58080e-21	1.000000	2.58080e-21	1.000000
rad40syn	6.78309e-23	1.000000	6.78309e-23	1.000000
rad40anti	5.41984e-23	1.000000	5.41984e-23	1.000000
PAH8+H	1.13223e-23	1.000000	1.13223e-23	1.000000
rad73	2.68338e-24	1.000000	2.68338e-24	1.000000
rad28	2.40765e-24	1.000000	2.40765e-24	1.000000
rad2	1.64850e-24	1.000000	1.64850e-24	1.000000
rad26	5.54260e-25	1.000000	5.54260e-25	1.000000
rad7	1.96618e-25	1.000000	1.96618e-25	1.000000
rad1	1.15980e-25	1.000000	1.15980e-25	1.000000
rad10	8.54463e-26	1.000000	8.54463e-26	1.000000
rad11	4.90158e-26	1.000000	4.90158e-26	1.000000
rad71	2.20092e-26	1.000000	2.20092e-26	1.000000
rad19anti	2.07806e-26	1.000000	2.07806e-26	1.000000
rad3	1.00047e-26	1.000000	1.00047e-26	1.000000
rad9	9.65275e-27	1.000000	9.65275e-27	1.000000
rad4	5.19788e-27	1.000000	5.19788e-27	1.000000
rad13	1.09343e-27	1.000000	1.09343e-27	1.000000
rad47	1.03968e-28	1.000000	1.03968e-28	1.000000
rad15	4.31166e-30	1.000000	4.31166e-30	1.000000
rad33	2.11131e-30	1.000000	2.11131e-30	1.000000
rad14	1.47411e-30	1.000000	1.47411e-30	1.000000
rad27	1.07467e-30	1.000000	1.07467e-30	1.000000
rad25	7.87000e-31	1.000000	7.87000e-31	1.000000
rad31	4.05943e-32	1.000000	4.05943e-32	1.000000
rad23	3.63917e-33	1.000000	3.63917e-33	1.000000
rad5	2.22485e-33	1.000000	2.22485e-33	1.000000
rad12	5.35772e-35	1.000000	5.35772e-35	1.000000
rad19syn	4.33470e-35	1.000000	4.33470e-35	1.000000
rad45	3.07280e-35	1.000000	3.07280e-35	1.000000
rad20	1.65335e-35	1.000000	1.65335e-35	1.000000
rad21	1.27978e-35	1.000000	1.27978e-35	1.000000
rad36	1.93856e-36	1.000000	1.93856e-36	1.000000
rad22	1.86589e-36	1.000000	1.86589e-36	1.000000
rad18	7.33328e-38	1.000000	7.33328e-38	1.000000
rad24	2.92730e-42	1.000000	2.92730e-42	1.000000
rad8	1.32002e-59	1.000000	1.32002e-59	1.000000

0.100000000E-02 Pa, 250.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.71048e-14 (1.00)	2.71048e-14 (1.00)
Formation of rad19	2.70930e-14 (1.000)	2.70930e-14 (1.000)
H-abstraction to cyc2enyl	1.17991e-17 (0.000435)	1.17991e-17 (0.000435)
H-abstraction to cyclenyl	1.59554e-20 (5.89e-07)	1.59554e-20 (5.89e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999107	0.999107	0.999107	0.999107
Benzene+cycloprop-2-enylidene	0.000435312	0.999543	0.000435312	0.999543
PhCHCCH2+H	0.000431583	0.999974	0.000431583	0.999974
PhCCH+CH3	7.75713e-06	0.999982	7.75713e-06	0.999982
C2H2+PhCH2	6.51313e-06	0.999988	6.51313e-06	0.999988
PhCCCH3+H	4.74359e-06	0.999993	4.74359e-06	0.999993
Ph+MeAc	4.20680e-06	0.999997	4.20680e-06	0.999997
rad67	1.22016e-06	0.999999	1.22016e-06	0.999999
Benzene+cycloprop-1-enylidene	5.88656e-07	0.999999	5.88656e-07	0.999999
Ph+Allene	5.31436e-07	1.000000	5.31436e-07	1.000000
rad35	5.19663e-07	1.000000	5.19663e-07	1.000000
PhCH2CCH+H	8.14150e-08	1.000000	8.14150e-08	1.000000
PAH7+H	5.71680e-08	1.000000	5.71680e-08	1.000000
rad39	1.60884e-08	1.000000	1.60884e-08	1.000000
rad37	1.59137e-08	1.000000	1.59137e-08	1.000000
rad30	1.00426e-08	1.000000	1.00426e-08	1.000000
PAH9+H	8.83261e-10	1.000000	8.83261e-10	1.000000

rad38	4.27967e-10	1.00000	4.27967e-10	1.00000
PAH10+CH3	7.44041e-11	1.00000	7.44041e-11	1.00000
PhcycC3H3_A+H	7.30899e-11	1.00000	7.30899e-11	1.00000
rad60syn	6.48400e-11	1.00000	6.48400e-11	1.00000
PAH3+H	4.28254e-11	1.00000	4.28254e-11	1.00000
rad60anti	3.28037e-11	1.00000	3.28037e-11	1.00000
rad46	2.83765e-11	1.00000	2.83765e-11	1.00000
rad59	8.18965e-12	1.00000	8.18965e-12	1.00000
rad54	2.70693e-12	1.00000	2.70693e-12	1.00000
rad43	2.46608e-12	1.00000	2.46608e-12	1.00000
Phenyl+cycC3H4	1.23952e-12	1.00000	0.00000	1.00000
PhcycC3H3_B+H	1.09005e-12	1.00000	1.09005e-12	1.00000
rad62	5.51565e-13	1.00000	5.51565e-13	1.00000
rad50	3.90669e-13	1.00000	3.90669e-13	1.00000
rad70	8.95605e-14	1.00000	8.95605e-14	1.00000
PAH1+H	4.84505e-14	1.00000	4.84505e-14	1.00000
rad55	3.96026e-14	1.00000	3.96026e-14	1.00000
rad52	4.31242e-15	1.00000	4.31242e-15	1.00000
rad58	3.03877e-15	1.00000	3.03877e-15	1.00000
rad34	2.73055e-15	1.00000	2.73055e-15	1.00000
rad51	2.03089e-15	1.00000	2.03089e-15	1.00000
rad41	7.39629e-16	1.00000	7.39629e-16	1.00000
rad42	4.36185e-16	1.00000	4.36185e-16	1.00000
rad65	5.31749e-17	1.00000	5.31749e-17	1.00000
rad53	1.22784e-17	1.00000	1.22784e-17	1.00000
rad64	3.85149e-18	1.00000	3.85149e-18	1.00000
rad61	1.15688e-18	1.00000	1.15688e-18	1.00000
rad56	9.65492e-20	1.00000	9.65492e-20	1.00000
rad68syn	1.22754e-20	1.00000	1.22754e-20	1.00000
rad68anti	9.17582e-21	1.00000	9.17582e-21	1.00000
rad6	2.60436e-21	1.00000	2.60436e-21	1.00000
rad40syn	1.79830e-22	1.00000	1.79830e-22	1.00000
rad40anti	1.43401e-22	1.00000	1.43401e-22	1.00000
PAH8+H	3.45927e-23	1.00000	3.45927e-23	1.00000
rad73	7.15463e-24	1.00000	7.15463e-24	1.00000
rad28	2.38838e-24	1.00000	2.38838e-24	1.00000
rad2	1.87387e-24	1.00000	1.87387e-24	1.00000
rad26	6.72711e-25	1.00000	6.72711e-25	1.00000
rad7	1.98632e-25	1.00000	1.98632e-25	1.00000
rad1	1.33346e-25	1.00000	1.33346e-25	1.00000
rad10	9.72509e-26	1.00000	9.72509e-26	1.00000
rad19anti	7.31259e-26	1.00000	7.31259e-26	1.00000
rad71	7.13344e-26	1.00000	7.13344e-26	1.00000
rad11	4.95430e-26	1.00000	4.95430e-26	1.00000
rad9	2.80203e-26	1.00000	2.80203e-26	1.00000
rad3	1.11013e-26	1.00000	1.11013e-26	1.00000
rad4	5.78604e-27	1.00000	5.78604e-27	1.00000
rad13	1.10841e-27	1.00000	1.10841e-27	1.00000
rad47	1.18423e-28	1.00000	1.18423e-28	1.00000
rad15	1.25458e-29	1.00000	1.25458e-29	1.00000
rad33	2.14541e-30	1.00000	2.14541e-30	1.00000
rad14	1.68734e-30	1.00000	1.68734e-30	1.00000
rad27	1.23549e-30	1.00000	1.23549e-30	1.00000
rad25	8.00056e-31	1.00000	8.00056e-31	1.00000
rad31	1.15674e-31	1.00000	1.15674e-31	1.00000
rad23	7.51627e-33	1.00000	7.51627e-33	1.00000
rad5	2.02814e-33	1.00000	2.02814e-33	1.00000
rad19syn	1.76219e-34	1.00000	1.76219e-34	1.00000
rad12	1.57803e-34	1.00000	1.57803e-34	1.00000
rad45	6.35521e-35	1.00000	6.35521e-35	1.00000
rad20	1.82320e-35	1.00000	1.82320e-35	1.00000
rad21	1.41746e-35	1.00000	1.41746e-35	1.00000
rad36	4.03050e-36	1.00000	4.03050e-36	1.00000
rad22	2.82198e-36	1.00000	2.82198e-36	1.00000
rad18	8.01107e-38	1.00000	8.01107e-38	1.00000
rad24	4.35459e-42	1.00000	4.35459e-42	1.00000
rad8	2.45935e-59	1.00000	2.45935e-59	1.00000

0.100000000E-02 Pa, 260.00000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	2.97464e-14 (1.00)	2.97464e-14 (1.00)		
Formation of rad19	2.97293e-14 (0.999)	2.97293e-14 (0.999)		
H-abstraction to cyc2enyl	1.70236e-17 (0.000572)	1.70236e-17 (0.000572)		
H-abstraction to cyclenyl	3.02186e-20 (1.02e-06)	3.02186e-20 (1.02e-06)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998946	0.998946	0.998946	0.998946

Benzene+cycloprop-2-enylidene	0.000572291	0.999518	0.000572291	0.999518
PhCHCCH2+H	0.000453847	0.999972	0.000453847	0.999972
PhCCH+CH3	8.16524e-06	0.999980	8.16524e-06	0.999980
C2H2+PhCH2	6.95309e-06	0.999987	6.95309e-06	0.999987
PhCCCH3+H	5.02931e-06	0.999992	5.02931e-06	0.999992
Ph+MeAc	4.52057e-06	0.999997	4.52057e-06	0.999997
rad67	1.30785e-06	0.999998	1.30785e-06	0.999998
Benzene+cycloprop-1-enylidene	1.01588e-06	0.999999	1.01588e-06	0.999999
Ph+Allene	5.88581e-07	1.000000	5.88581e-07	1.000000
rad35	5.55456e-07	1.000000	5.55456e-07	1.000000
PhCH2CCH+H	9.17572e-08	1.000000	9.17572e-08	1.000000
PAH7+H	6.22980e-08	1.000000	6.22980e-08	1.000000
rad39	1.75199e-08	1.000000	1.75199e-08	1.000000
rad37	1.74316e-08	1.000000	1.74316e-08	1.000000
rad30	1.07731e-08	1.000000	1.07731e-08	1.000000
PAH9+H	9.70783e-10	1.000000	9.70783e-10	1.000000
rad38	4.76193e-10	1.000000	4.76193e-10	1.000000
PhcycC3H3_A+H	9.76899e-11	1.000000	9.76899e-11	1.000000
PAH10+CH3	8.98988e-11	1.000000	8.98988e-11	1.000000
rad60syn	7.17355e-11	1.000000	7.17355e-11	1.000000
PAH3+H	4.92714e-11	1.000000	4.92714e-11	1.000000
rad60anti	3.63915e-11	1.000000	3.63915e-11	1.000000
rad46	3.17846e-11	1.000000	3.17846e-11	1.000000
rad59	9.35924e-12	1.000000	9.35924e-12	1.000000
rad54	3.26885e-12	1.000000	3.26885e-12	1.000000
rad43	2.89819e-12	1.000000	2.89819e-12	1.000000
Phenyl+cycC3H4	1.79997e-12	1.000000	0.000000	1.000000
PhcycC3H3_B+H	1.72357e-12	1.000000	1.72357e-12	1.000000
rad62	6.47837e-13	1.000000	6.47837e-13	1.000000
rad50	4.63624e-13	1.000000	4.63624e-13	1.000000
rad70	1.13451e-13	1.000000	1.13451e-13	1.000000
PAH1+H	6.48701e-14	1.000000	6.48701e-14	1.000000
rad55	5.01103e-14	1.000000	5.01103e-14	1.000000
rad52	5.33069e-15	1.000000	5.33069e-15	1.000000
rad58	3.93949e-15	1.000000	3.93949e-15	1.000000
rad34	3.67217e-15	1.000000	3.67217e-15	1.000000
rad51	2.62595e-15	1.000000	2.62595e-15	1.000000
rad41	1.01307e-15	1.000000	1.01307e-15	1.000000
rad42	5.82012e-16	1.000000	5.82012e-16	1.000000
rad65	6.97740e-17	1.000000	6.97740e-17	1.000000
rad53	1.97843e-17	1.000000	1.97843e-17	1.000000
rad64	6.46943e-18	1.000000	6.46943e-18	1.000000
rad61	2.22251e-18	1.000000	2.22251e-18	1.000000
rad56	1.96572e-19	1.000000	1.96572e-19	1.000000
rad68syn	2.54693e-20	1.000000	2.54693e-20	1.000000
rad68anti	1.89304e-20	1.000000	1.89304e-20	1.000000
rad6	2.86985e-21	1.000000	2.86985e-21	1.000000
rad40syn	4.46794e-22	1.000000	4.46794e-22	1.000000
rad40anti	3.55553e-22	1.000000	3.55553e-22	1.000000
PAH8+H	9.71812e-23	1.000000	9.71812e-23	1.000000
rad73	1.79363e-23	1.000000	1.79363e-23	1.000000
rad28	2.56928e-24	1.000000	2.56928e-24	1.000000
rad2	2.40984e-24	1.000000	2.40984e-24	1.000000
rad26	8.93398e-25	1.000000	8.93398e-25	1.000000
rad19anti	2.63520e-25	1.000000	2.63520e-25	1.000000
rad7	2.19151e-25	1.000000	2.19151e-25	1.000000
rad71	2.10954e-25	1.000000	2.10954e-25	1.000000
rad1	1.73603e-25	1.000000	1.73603e-25	1.000000
rad10	1.25237e-25	1.000000	1.25237e-25	1.000000
rad9	8.65752e-26	1.000000	8.65752e-26	1.000000
rad11	5.46908e-26	1.000000	5.46908e-26	1.000000
rad3	1.38804e-26	1.000000	1.38804e-26	1.000000
rad4	7.25960e-27	1.000000	7.25960e-27	1.000000
rad13	1.22715e-27	1.000000	1.22715e-27	1.000000
rad47	1.37171e-28	1.000000	1.37171e-28	1.000000
rad15	3.88587e-29	1.000000	3.88587e-29	1.000000
rad33	2.38133e-30	1.000000	2.38133e-30	1.000000
rad14	2.15556e-30	1.000000	2.15556e-30	1.000000
rad27	1.60087e-30	1.000000	1.60087e-30	1.000000
rad25	8.86225e-31	1.000000	8.86225e-31	1.000000
rad31	3.40610e-31	1.000000	3.40610e-31	1.000000
rad23	2.09828e-32	1.000000	2.09828e-32	1.000000
rad5	1.85526e-33	1.000000	1.85526e-33	1.000000
rad19syn	7.46104e-34	1.000000	7.46104e-34	1.000000
rad12	4.95176e-34	1.000000	4.95176e-34	1.000000
rad45	1.77827e-34	1.000000	1.77827e-34	1.000000
rad20	2.20156e-35	1.000000	2.20156e-35	1.000000
rad21	1.71955e-35	1.000000	1.71955e-35	1.000000
rad36	1.13439e-35	1.000000	1.13439e-35	1.000000
rad22	6.16023e-36	1.000000	6.16023e-36	1.000000

rad18	9.57589e-38	1.00000	9.57589e-38	1.00000
rad24	8.21121e-42	1.00000	8.21121e-42	1.00000
rad8	4.68687e-59	1.00000	4.68687e-59	1.00000

0.100000000E-02 Pa, 270.000000 K

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Rate constant      | True (fraction)      Effective (fraction)
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Total              | 3.24655e-14 (1.00   ) 3.24655e-14 (1.00   )
Formation of rad19| 3.24415e-14 (0.999   ) 3.24415e-14 (0.999   )
H-abstraction to cyc2enyl| 2.38790e-17 (0.000736) 2.38790e-17 (0.000736)
H-abstraction to cyc1enyl| 5.45397e-20 (1.68e-06) 5.45397e-20 (1.68e-06)

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species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998755	0.998755	0.998755	0.998755
Benzene+cycloprop-2-enylidene	0.000735519	0.999491	0.000735519	0.999491
PhCCH2+H	0.000478145	0.999969	0.000478145	0.999969
PhCCH+CH3	8.60875e-06	0.999977	8.60875e-06	0.999977
C2H2+PhCH2	7.43962e-06	0.999985	7.43962e-06	0.999985
PhCCCH3+H	5.34285e-06	0.999990	5.34285e-06	0.999990
Ph+MeAc	4.86936e-06	0.999995	4.86936e-06	0.999995
Benzene+cycloprop-1-enylidene	1.67993e-06	0.999997	1.67993e-06	0.999997
rad67	1.40524e-06	0.999998	1.40524e-06	0.999998
Ph+Allene	6.54150e-07	0.999999	6.54150e-07	0.999999
rad35	5.95115e-07	0.999999	5.95115e-07	0.999999
PhCH2CCH+H	1.03821e-07	1.000000	1.03821e-07	1.000000
PAH7+H	6.80889e-08	1.000000	6.80889e-08	1.000000
rad37	1.91541e-08	1.000000	1.91541e-08	1.000000
rad39	1.91333e-08	1.000000	1.91333e-08	1.000000
rad30	1.15871e-08	1.000000	1.15871e-08	1.000000
PAH9+H	1.07080e-09	1.000000	1.07080e-09	1.000000
rad38	5.32052e-10	1.000000	5.32052e-10	1.000000
PhcycC3H3_A+H	1.30538e-10	1.000000	1.30538e-10	1.000000
PAH10+CH3	1.09133e-10	1.000000	1.09133e-10	1.000000
rad60syn	7.96560e-11	1.000000	7.96560e-11	1.000000
PAH3+H	5.69574e-11	1.000000	5.69574e-11	1.000000
rad60anti	4.05235e-11	1.000000	4.05235e-11	1.000000
rad46	3.57527e-11	1.000000	3.57527e-11	1.000000
rad59	1.07443e-11	1.000000	1.07443e-11	1.000000
rad54	3.96627e-12	1.000000	3.96627e-12	1.000000
rad43	3.41973e-12	1.000000	3.41973e-12	1.000000
PhcycC3H3_B+H	2.69151e-12	1.000000	2.69151e-12	1.000000
Phenyl+cycC3H4	2.60320e-12	1.000000	0.000000	1.000000
rad62	7.63612e-13	1.000000	7.63612e-13	1.000000
rad50	5.53386e-13	1.000000	5.53386e-13	1.000000
rad70	1.44331e-13	1.000000	1.44331e-13	1.000000
PAH1+H	8.70688e-14	1.000000	8.70688e-14	1.000000
rad55	6.36675e-14	1.000000	6.36675e-14	1.000000
rad52	6.63022e-15	1.000000	6.63022e-15	1.000000
rad58	5.12939e-15	1.000000	5.12939e-15	1.000000
rad34	4.95078e-15	1.000000	4.95078e-15	1.000000
rad51	3.41583e-15	1.000000	3.41583e-15	1.000000
rad41	1.38731e-15	1.000000	1.38731e-15	1.000000
rad42	7.76655e-16	1.000000	7.76655e-16	1.000000
rad65	9.20478e-17	1.000000	9.20478e-17	1.000000
rad53	3.15525e-17	1.000000	3.15525e-17	1.000000
rad64	1.07022e-17	1.000000	1.07022e-17	1.000000
rad61	4.14940e-18	1.000000	4.14940e-18	1.000000
rad56	3.86740e-19	1.000000	3.86740e-19	1.000000
rad68syn	5.09260e-20	1.000000	5.09260e-20	1.000000
rad68anti	3.76559e-20	1.000000	3.76559e-20	1.000000
rad6	3.48552e-21	1.000000	3.48552e-21	1.000000
rad40syn	1.04541e-21	1.000000	1.04541e-21	1.000000
rad40anti	8.30240e-22	1.000000	8.30240e-22	1.000000
PAH8+H	2.52770e-22	1.000000	2.52770e-22	1.000000
rad73	4.24299e-23	1.000000	4.24299e-23	1.000000
rad2	3.49244e-24	1.000000	3.49244e-24	1.000000
rad28	3.02647e-24	1.000000	3.02647e-24	1.000000
rad26	1.28306e-24	1.000000	1.28306e-24	1.000000
rad19anti	9.67192e-25	1.000000	9.67192e-25	1.000000
rad71	5.73640e-25	1.000000	5.73640e-25	1.000000
rad9	2.78468e-25	1.000000	2.78468e-25	1.000000
rad7	2.66531e-25	1.000000	2.66531e-25	1.000000
rad1	2.54941e-25	1.000000	2.54941e-25	1.000000
rad10	1.81768e-25	1.000000	1.81768e-25	1.000000
rad11	6.65536e-26	1.000000	6.65536e-26	1.000000
rad3	1.95589e-26	1.000000	1.95589e-26	1.000000
rad4	1.02677e-26	1.000000	1.02677e-26	1.000000
rad13	1.49772e-27	1.000000	1.49772e-27	1.000000

rad47	1.61703e-28	1.000000	1.61703e-28	1.000000
rad15	1.25307e-28	1.000000	1.25307e-28	1.000000
rad14	3.05497e-30	1.000000	3.05497e-30	1.000000
rad33	2.91426e-30	1.000000	2.91426e-30	1.000000
rad27	2.32429e-30	1.000000	2.32429e-30	1.000000
rad25	1.07940e-30	1.000000	1.07940e-30	1.000000
rad31	1.03251e-30	1.000000	1.03251e-30	1.000000
rad23	7.00618e-32	1.000000	7.00618e-32	1.000000
rad19syn	3.27847e-33	1.000000	3.27847e-33	1.000000
rad5	1.70256e-33	1.000000	1.70256e-33	1.000000
rad12	1.61921e-33	1.000000	1.61921e-33	1.000000
rad45	5.95801e-34	1.000000	5.95801e-34	1.000000
rad36	3.82529e-35	1.000000	3.82529e-35	1.000000
rad20	2.93841e-35	1.000000	2.93841e-35	1.000000
rad21	2.30627e-35	1.000000	2.30627e-35	1.000000
rad22	1.80050e-35	1.000000	1.80050e-35	1.000000
rad18	1.26419e-37	1.000000	1.26419e-37	1.000000
rad24	2.01562e-41	1.000000	2.01562e-41	1.000000
rad8	9.14155e-59	1.000000	9.14155e-59	1.000000

0.100000000E-02 Pa, 280.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.52572e-14 (1.00)	3.52572e-14 (1.00)
Formation of rad19	3.52244e-14 (0.999)	3.52244e-14 (0.999)
H-abstraction to cyc2enyl	3.26639e-17 (0.000926)	3.26639e-17 (0.000926)
H-abstraction to cyclenyl	9.42926e-20 (2.67e-06)	9.42926e-20 (2.67e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998535	0.998535	0.998535	0.998535
Benzene+cycloprop-2-enylidene	0.000926445	0.999462	0.000926445	0.999462
PhCHCCH2+H	0.000504653	0.999966	0.000504653	0.999966
PhCCH+CH3	9.09033e-06	0.999976	9.09033e-06	0.999976
C2H2+PhCH2	7.97744e-06	0.999984	7.97744e-06	0.999984
PhCCCH3+H	5.68675e-06	0.999989	5.68675e-06	0.999989
Ph+MeAc	5.25695e-06	0.999994	5.25695e-06	0.999994
Benzene+cycloprop-1-enylidene	2.67442e-06	0.999997	2.67442e-06	0.999997
rad67	1.51340e-06	0.999999	1.51340e-06	0.999999
Ph+Allene	7.29411e-07	0.999999	7.29411e-07	0.999999
rad35	6.39045e-07	1.00000	6.39045e-07	1.00000
PhCH2CCH+H	1.17902e-07	1.00000	1.17902e-07	1.00000
PAH7+H	7.46256e-08	1.00000	7.46256e-08	1.00000
rad37	2.11093e-08	1.00000	2.11093e-08	1.00000
rad39	2.09513e-08	1.00000	2.09513e-08	1.00000
rad30	1.24940e-08	1.00000	1.24940e-08	1.00000
PAH9+H	1.18518e-09	1.00000	1.18518e-09	1.00000
rad38	5.96820e-10	1.00000	5.96820e-10	1.00000
PhcycC3H3_A+H	1.74264e-10	1.00000	1.74264e-10	1.00000
PAH10+CH3	1.33028e-10	1.00000	1.33028e-10	1.00000
rad60syn	8.87600e-11	1.00000	8.87600e-11	1.00000
PAH3+H	6.61329e-11	1.00000	6.61329e-11	1.00000
rad60anti	4.52854e-11	1.00000	4.52854e-11	1.00000
rad46	4.03779e-11	1.00000	4.03779e-11	1.00000
rad59	1.23861e-11	1.00000	1.23861e-11	1.00000
rad54	4.83243e-12	1.00000	4.83243e-12	1.00000
PhcycC3H3_B+H	4.15199e-12	1.00000	4.15199e-12	1.00000
rad43	4.04943e-12	1.00000	4.04943e-12	1.00000
Phenyl+cycC3H4	3.74742e-12	1.00000	0.00000	1.00000
rad62	9.02830e-13	1.00000	9.02830e-13	1.00000
rad50	6.64025e-13	1.00000	6.64025e-13	1.00000
rad70	1.84245e-13	1.00000	1.84245e-13	1.00000
PAH1+H	1.17033e-13	1.00000	1.17033e-13	1.00000
rad55	8.11580e-14	1.00000	8.11580e-14	1.00000
rad52	8.29152e-15	1.00000	8.29152e-15	1.00000
rad58	6.70130e-15	1.00000	6.70130e-15	1.00000
rad34	6.68419e-15	1.00000	6.68419e-15	1.00000
rad51	4.46552e-15	1.00000	4.46552e-15	1.00000
rad41	1.89782e-15	1.00000	1.89782e-15	1.00000
rad42	1.03569e-15	1.00000	1.03569e-15	1.00000
rad65	1.21954e-16	1.00000	1.21954e-16	1.00000
rad53	4.97887e-17	1.00000	4.97887e-17	1.00000
rad64	1.74385e-17	1.00000	1.74385e-17	1.00000
rad61	7.53769e-18	1.00000	7.53769e-18	1.00000
rad56	7.36353e-19	1.00000	7.36353e-19	1.00000
rad68syn	9.83137e-20	1.00000	9.83137e-20	1.00000
rad68anti	7.23571e-20	1.00000	7.23571e-20	1.00000
rad6	4.66569e-21	1.00000	4.66569e-21	1.00000
rad40syn	2.31283e-21	1.00000	2.31283e-21	1.00000

rad40anti	1.83329e-21	1.00000	1.83329e-21	1.00000
PAH8+H	6.12415e-22	1.00000	6.12415e-22	1.00000
rad73	9.49986e-23	1.00000	9.49986e-23	1.00000
rad2	5.60637e-24	1.00000	5.60637e-24	1.00000
rad28	3.90760e-24	1.00000	3.90760e-24	1.00000
rad19anti	3.59422e-24	1.00000	3.59422e-24	1.00000
rad26	1.96448e-24	1.00000	1.96448e-24	1.00000
rad71	1.44432e-24	1.00000	1.44432e-24	1.00000
rad9	9.19993e-25	1.00000	9.19993e-25	1.00000
rad1	4.15096e-25	1.00000	4.15096e-25	1.00000
rad7	3.57318e-25	1.00000	3.57318e-25	1.00000
rad10	2.92254e-25	1.00000	2.92254e-25	1.00000
rad11	8.92781e-26	1.00000	8.92781e-26	1.00000
rad3	3.06273e-26	1.00000	3.06273e-26	1.00000
rad4	1.61430e-26	1.00000	1.61430e-26	1.00000
rad13	2.01506e-27	1.00000	2.01506e-27	1.00000
rad15	4.15070e-28	1.00000	4.15070e-28	1.00000
rad47	1.94145e-28	1.00000	1.94145e-28	1.00000
rad14	4.72815e-30	1.00000	4.72815e-30	1.00000
rad33	3.93220e-30	1.00000	3.93220e-30	1.00000
rad27	3.71523e-30	1.00000	3.71523e-30	1.00000
rad31	3.20921e-30	1.00000	3.20921e-30	1.00000
rad25	1.44604e-30	1.00000	1.44604e-30	1.00000
rad23	2.58985e-31	1.00000	2.58985e-31	1.00000
rad19syn	1.48909e-32	1.00000	1.48909e-32	1.00000
rad12	5.44428e-33	1.00000	5.44428e-33	1.00000
rad45	2.21308e-33	1.00000	2.21308e-33	1.00000
rad5	1.56713e-33	1.00000	1.56713e-33	1.00000
rad36	1.43097e-34	1.00000	1.43097e-34	1.00000
rad22	6.24061e-35	1.00000	6.24061e-35	1.00000
rad20	4.33525e-35	1.00000	4.33525e-35	1.00000
rad21	3.42007e-35	1.00000	3.42007e-35	1.00000
rad18	1.84327e-37	1.00000	1.84327e-37	1.00000
rad24	6.19902e-41	1.00000	6.19902e-41	1.00000
rad8	1.82602e-58	1.00000	1.82602e-58	1.00000

0.100000000E-02 Pa, 290.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.81171e-14 (1.00)	3.81171e-14 (1.00)
Formation of rad19	3.80733e-14 (0.999)	3.80733e-14 (0.999)
H-abstraction to cyc2enyl	4.36868e-17 (0.00115)	4.36868e-17 (0.00115)
H-abstraction to cyclenyl	1.56861e-19 (4.12e-06)	1.56861e-19 (4.12e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998282	0.998282	0.998282	0.998282
Benzene+cycloprop-2-enylidene	0.00114612	0.999429	0.00114612	0.999429
PhCHCCH2+H	0.000533551	0.999962	0.000533551	0.999962
PhCCH+CH3	9.61272e-06	0.999972	9.61272e-06	0.999972
C2H2+PhCH2	8.57162e-06	0.999980	8.57162e-06	0.999980
PhCCCH3+H	6.06369e-06	0.999986	6.06369e-06	0.999986
Ph+MeAc	5.68747e-06	0.999992	5.68747e-06	0.999992
Benzene+cycloprop-1-enylidene	4.11523e-06	0.999996	4.11523e-06	0.999996
rad67	1.63346e-06	0.999998	1.63346e-06	0.999998
Ph+Allene	8.15803e-07	0.999999	8.15803e-07	0.999999
rad35	6.87688e-07	0.999999	6.87688e-07	0.999999
PhCH2CCH+H	1.34342e-07	0.999999	1.34342e-07	0.999999
PAH7+H	8.20027e-08	0.999999	8.20027e-08	0.999999
rad37	2.33284e-08	1.000000	2.33284e-08	1.000000
rad39	2.29991e-08	1.000000	2.29991e-08	1.000000
rad30	1.35042e-08	1.000000	1.35042e-08	1.000000
PAH9+H	1.31603e-09	1.000000	1.31603e-09	1.000000
rad38	6.71971e-10	1.000000	6.71971e-10	1.000000
PhcycC3H3_A+H	2.32248e-10	1.000000	2.32248e-10	1.000000
PAH10+CH3	1.62716e-10	1.000000	1.62716e-10	1.000000
rad60syn	9.92279e-11	1.000000	9.92279e-11	1.000000
PAH3+H	7.70950e-11	1.000000	7.70950e-11	1.000000
rad60anti	5.07755e-11	1.000000	5.07755e-11	1.000000
rad46	4.57732e-11	1.000000	4.57732e-11	1.000000
rad59	1.43337e-11	1.000000	1.43337e-11	1.000000
PhcycC3H3_B+H	6.32701e-12	1.000000	6.32701e-12	1.000000
rad54	5.90816e-12	1.000000	5.90816e-12	1.000000
Phenyl+cycC3H4	5.36584e-12	1.000000	0.000000	1.000000
rad43	4.80965e-12	1.000000	4.80965e-12	1.000000
rad62	1.07015e-12	1.000000	1.07015e-12	1.000000
rad50	8.00559e-13	1.000000	8.00559e-13	1.000000
rad70	2.35793e-13	1.000000	2.35793e-13	1.000000
PAH1+H	1.57370e-13	1.000000	1.57370e-13	1.000000

rad55	1.03701e-13	1.000000	1.03701e-13	1.000000
rad52	1.04171e-14	1.000000	1.04171e-14	1.000000
rad34	9.02771e-15	1.000000	9.02771e-15	1.000000
rad58	8.77570e-15	1.000000	8.77570e-15	1.000000
rad51	5.86043e-15	1.000000	5.86043e-15	1.000000
rad41	2.59125e-15	1.000000	2.59125e-15	1.000000
rad42	1.37910e-15	1.000000	1.37910e-15	1.000000
rad65	1.62080e-16	1.000000	1.62080e-16	1.000000
rad53	7.76832e-17	1.000000	7.76832e-17	1.000000
rad64	2.79822e-17	1.000000	2.79822e-17	1.000000
rad61	1.33318e-17	1.000000	1.33318e-17	1.000000
rad56	1.35810e-18	1.000000	1.35810e-18	1.000000
rad68syn	1.83478e-19	1.000000	1.83478e-19	1.000000
rad68anti	1.34477e-19	1.000000	1.34477e-19	1.000000
rad6	6.82478e-21	1.000000	6.82478e-21	1.000000
rad40syn	4.85491e-21	1.000000	4.85491e-21	1.000000
rad40anti	3.84147e-21	1.000000	3.84147e-21	1.000000
PAH8+H	1.38964e-21	1.000000	1.38964e-21	1.000000
rad73	2.01859e-22	1.000000	2.01859e-22	1.000000
rad19anti	1.34383e-23	1.000000	1.34383e-23	1.000000
rad2	9.75731e-24	1.000000	9.75731e-24	1.000000
rad28	5.48667e-24	1.000000	5.48667e-24	1.000000
rad71	3.38820e-24	1.000000	3.38820e-24	1.000000
rad26	3.16527e-24	1.000000	3.16527e-24	1.000000
rad9	3.09337e-24	1.000000	3.09337e-24	1.000000
rad1	7.33484e-25	1.000000	7.33484e-25	1.000000
rad7	5.23530e-25	1.000000	5.23530e-25	1.000000
rad10	5.09508e-25	1.000000	5.09508e-25	1.000000
rad11	1.30892e-25	1.000000	1.30892e-25	1.000000
rad3	5.22266e-26	1.000000	5.22266e-26	1.000000
rad4	2.76467e-26	1.000000	2.76467e-26	1.000000
rad13	2.96321e-27	1.000000	2.96321e-27	1.000000
rad15	1.39941e-27	1.000000	1.39941e-27	1.000000
rad47	2.37574e-28	1.000000	2.37574e-28	1.000000
rad31	1.01834e-29	1.000000	1.01834e-29	1.000000
rad14	7.84491e-30	1.000000	7.84491e-30	1.000000
rad27	6.40369e-30	1.000000	6.40369e-30	1.000000
rad33	5.80006e-30	1.000000	5.80006e-30	1.000000
rad25	2.11365e-30	1.000000	2.11365e-30	1.000000
rad23	1.02240e-30	1.000000	1.02240e-30	1.000000
rad19syn	6.95957e-32	1.000000	6.95957e-32	1.000000
rad12	1.86517e-32	1.000000	1.86517e-32	1.000000
rad45	8.79568e-33	1.000000	8.79568e-33	1.000000
rad5	1.44656e-33	1.000000	1.44656e-33	1.000000
rad36	5.73124e-34	1.000000	5.73124e-34	1.000000
rad22	2.37695e-34	1.000000	2.37695e-34	1.000000
rad20	7.01069e-35	1.000000	7.01069e-35	1.000000
rad21	5.56061e-35	1.000000	5.56061e-35	1.000000
rad18	2.94307e-37	1.000000	2.94307e-37	1.000000
rad24	2.22794e-40	1.000000	2.22794e-40	1.000000
rad8	3.73798e-58	1.000000	3.73798e-58	1.000000

0.100000000E-02 Pa, 300.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.34809e-14 (1.00)	5.34809e-14 (1.00)
Formation of rad19	5.34010e-14 (0.999)	5.34010e-14 (0.999)
H-abstraction to cyc2enyl	7.95823e-17 (0.00149)	7.95823e-17 (0.00149)
H-abstraction to cyclenyl	3.44981e-19 (6.45e-06)	3.44981e-19 (6.45e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997939	0.997939	0.997939	0.997939
Benzene+cycloprop-2-enylidene	0.00148805	0.999427	0.00148805	0.999427
PhCHCCH2+H	0.000529814	0.999957	0.000529814	0.999957
PhCCH+CH3	1.04614e-05	0.999968	1.04614e-05	0.999968
C2H2+PhCH2	9.96256e-06	0.999978	9.96256e-06	0.999978
Benzene+cycloprop-1-enylidene	6.45054e-06	0.999984	6.45054e-06	0.999984
PhCCCH3+H	6.36714e-06	0.999990	6.36714e-06	0.999990
Ph+MeAc	5.99825e-06	0.999996	5.99825e-06	0.999996
rad67	1.76909e-06	0.999998	1.76909e-06	0.999998
Ph+Allene	8.18970e-07	0.999999	8.18970e-07	0.999999
rad35	7.31806e-07	1.000000	7.31806e-07	1.000000
PhCH2CCH+H	1.62464e-07	1.000000	1.62464e-07	1.000000
PAH7+H	1.00664e-07	1.000000	1.00664e-07	1.000000
rad37	2.83205e-08	1.000000	2.83205e-08	1.000000
rad39	2.48344e-08	1.000000	2.48344e-08	1.000000
rad30	1.39397e-08	1.000000	1.39397e-08	1.000000
PAH9+H	1.67894e-09	1.000000	1.67894e-09	1.000000

rad38	7.72639e-10	1.00000	7.72639e-10	1.00000
PhcycC3H3_A+H	3.25290e-10	1.00000	3.25290e-10	1.00000
PAH10+CH3	2.37265e-10	1.00000	2.37265e-10	1.00000
rad60syn	1.06834e-10	1.00000	1.06834e-10	1.00000
PAH3+H	9.84711e-11	1.00000	9.84711e-11	1.00000
rad60anti	5.51570e-11	1.00000	5.51570e-11	1.00000
rad46	5.45631e-11	1.00000	5.45631e-11	1.00000
rad59	1.67258e-11	1.00000	1.67258e-11	1.00000
PhcycC3H3_B+H	1.05896e-11	1.00000	1.05896e-11	1.00000
Phenyl+cycC3H4	8.20984e-12	1.00000	0.00000	1.00000
rad54	7.66753e-12	1.00000	7.66753e-12	1.00000
rad43	5.65556e-12	1.00000	5.65556e-12	1.00000
rad62	1.25274e-12	1.00000	1.25274e-12	1.00000
rad50	1.03313e-12	1.00000	1.03313e-12	1.00000
rad70	3.13383e-13	1.00000	3.13383e-13	1.00000
PAH1+H	1.93775e-13	1.00000	1.93775e-13	1.00000
rad55	1.33838e-13	1.00000	1.33838e-13	1.00000
rad52	1.45717e-14	1.00000	1.45717e-14	1.00000
rad34	1.28518e-14	1.00000	1.28518e-14	1.00000
rad58	1.11204e-14	1.00000	1.11204e-14	1.00000
rad51	8.23935e-15	1.00000	8.23935e-15	1.00000
rad41	3.58184e-15	1.00000	3.58184e-15	1.00000
rad42	1.81925e-15	1.00000	1.81925e-15	1.00000
rad65	2.32644e-16	1.00000	2.32644e-16	1.00000
rad53	1.29480e-16	1.00000	1.29480e-16	1.00000
rad64	4.98969e-17	1.00000	4.98969e-17	1.00000
rad61	2.74863e-17	1.00000	2.74863e-17	1.00000
rad6	4.44039e-18	1.00000	4.44039e-18	1.00000
rad56	3.01521e-18	1.00000	3.01521e-18	1.00000
rad68syn	3.96643e-19	1.00000	3.96643e-19	1.00000
rad68anti	2.85688e-19	1.00000	2.85688e-19	1.00000
rad19anti	1.46854e-19	1.00000	1.46854e-19	1.00000
rad9	3.08352e-20	1.00000	3.08352e-20	1.00000
rad2	2.61393e-20	1.00000	2.61393e-20	1.00000
rad40syn	1.34589e-20	1.00000	1.34589e-20	1.00000
rad40anti	1.02810e-20	1.00000	1.02810e-20	1.00000
PAH8+H	5.53974e-21	1.00000	5.53974e-21	1.00000
rad28	3.69648e-21	1.00000	3.69648e-21	1.00000
rad26	3.44490e-21	1.00000	3.44490e-21	1.00000
rad1	1.96970e-21	1.00000	1.96970e-21	1.00000
rad10	1.49182e-21	1.00000	1.49182e-21	1.00000
rad73	6.54847e-22	1.00000	6.54847e-22	1.00000
rad7	3.92564e-22	1.00000	3.92564e-22	1.00000
rad3	1.57449e-22	1.00000	1.57449e-22	1.00000
rad11	9.59876e-23	1.00000	9.59876e-23	1.00000
rad4	7.83002e-23	1.00000	7.83002e-23	1.00000
rad71	2.13408e-23	1.00000	2.13408e-23	1.00000
rad15	1.83049e-23	1.00000	1.83049e-23	1.00000
rad23	9.84046e-24	1.00000	9.84046e-24	1.00000
rad13	2.27203e-24	1.00000	2.27203e-24	1.00000
rad45	1.27128e-25	1.00000	1.27128e-25	1.00000
rad31	9.66606e-26	1.00000	9.66606e-26	1.00000
rad27	1.90500e-26	1.00000	1.90500e-26	1.00000
rad14	1.60072e-26	1.00000	1.60072e-26	1.00000
rad19syn	1.12386e-26	1.00000	1.12386e-26	1.00000
rad25	5.83235e-27	1.00000	5.83235e-27	1.00000
rad33	5.47156e-27	1.00000	5.47156e-27	1.00000
rad36	4.33287e-27	1.00000	4.33287e-27	1.00000
rad22	2.35149e-27	1.00000	2.35149e-27	1.00000
rad47	1.77279e-27	1.00000	1.77279e-27	1.00000
rad12	4.20152e-28	1.00000	4.20152e-28	1.00000
rad5	2.95036e-28	1.00000	2.95036e-28	1.00000
rad72	4.67185e-30	1.00000	4.67185e-30	1.00000
rad21	2.74520e-30	1.00000	2.74520e-30	1.00000
rad20	2.21523e-30	1.00000	2.21523e-30	1.00000
rad18	5.18175e-32	1.00000	5.18175e-32	1.00000
rad24	2.60163e-33	1.00000	2.60163e-33	1.00000
rad8	3.04207e-44	1.00000	3.04207e-44	1.00000

0.100000000E-02 Pa, 310.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.92544e-14 (1.00)	5.92544e-14 (1.00)
Formation of rad19	5.91462e-14 (0.998)	5.91462e-14 (0.998)
H-abstraction to cyc2enyl	1.07628e-16 (0.00182)	1.07628e-16 (0.00182)
H-abstraction to cyclenyl	5.62537e-19 (9.49e-06)	5.62537e-19 (9.49e-06)

species	PYtrue	Cumul	PYeffective	Cumul
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Indene+H	0.997536	0.997536	0.997536	0.997536
Benzene+cycloprop-2-enylidene	0.00181637	0.999353	0.00181637	0.999353
PhCHCCH2+H	0.000599212	0.999952	0.000599212	0.999952
PhCCH+CH3	1.07899e-05	0.999963	1.07899e-05	0.999963
C2H2+PhCH2	9.94963e-06	0.999973	9.94963e-06	0.999973
Benzene+cycloprop-1-enylidene	9.49359e-06	0.999982	9.49359e-06	0.999982
PhCCCH3+H	6.92724e-06	0.999989	6.92724e-06	0.999989
Ph+MeAc	6.69434e-06	0.999996	6.69434e-06	0.999996
rad67	1.91404e-06	0.999998	1.91404e-06	0.999998
Ph+Allene	1.02850e-06	0.999999	1.02850e-06	0.999999
rad35	8.00937e-07	0.999999	8.00937e-07	0.999999
PhCH2CCH+H	1.75890e-07	1.000000	1.75890e-07	1.000000
PAH7+H	9.96885e-08	1.000000	9.96885e-08	1.000000
rad37	2.86984e-08	1.000000	2.86984e-08	1.000000
rad39	2.78936e-08	1.000000	2.78936e-08	1.000000
rad30	1.58793e-08	1.000000	1.58793e-08	1.000000
PAH9+H	1.63681e-09	1.000000	1.63681e-09	1.000000
rad38	8.60319e-10	1.000000	8.60319e-10	1.000000
PhcycC3H3_A+H	4.09102e-10	1.000000	4.09102e-10	1.000000
PAH10+CH3	2.45220e-10	1.000000	2.45220e-10	1.000000
rad60syn	1.25085e-10	1.000000	1.25085e-10	1.000000
PAH3+H	1.05827e-10	1.000000	1.05827e-10	1.000000
rad60anti	6.43934e-11	1.000000	6.43934e-11	1.000000
rad46	5.94051e-11	1.000000	5.94051e-11	1.000000
rad59	1.93816e-11	1.000000	1.93816e-11	1.000000
PhcycC3H3_B+H	1.41415e-11	1.000000	1.41415e-11	1.000000
Phenyl+cycC3H4	1.07882e-11	1.000000	0.000000	1.000000
rad54	8.89556e-12	1.000000	8.89556e-12	1.000000
rad43	6.83072e-12	1.000000	6.83072e-12	1.000000
rad62	1.51158e-12	1.000000	1.51158e-12	1.000000
rad50	1.17691e-12	1.000000	1.17691e-12	1.000000
rad70	3.87545e-13	1.000000	3.87545e-13	1.000000
PAH1+H	2.83528e-13	1.000000	2.83528e-13	1.000000
rad55	1.69848e-13	1.000000	1.69848e-13	1.000000
rad52	1.66054e-14	1.000000	1.66054e-14	1.000000
rad34	1.64051e-14	1.000000	1.64051e-14	1.000000
rad58	1.50871e-14	1.000000	1.50871e-14	1.000000
rad51	1.01579e-14	1.000000	1.01579e-14	1.000000
rad41	4.78438e-15	1.000000	4.78438e-15	1.000000
rad42	2.42631e-15	1.000000	2.42631e-15	1.000000
rad65	2.87399e-16	1.000000	2.87399e-16	1.000000
rad53	1.82128e-16	1.000000	1.82128e-16	1.000000
rad64	6.86525e-17	1.000000	6.86525e-17	1.000000
rad61	3.85256e-17	1.000000	3.85256e-17	1.000000
rad56	4.20797e-18	1.000000	4.20797e-18	1.000000
rad68syn	5.79170e-19	1.000000	5.79170e-19	1.000000
rad68anti	4.21593e-19	1.000000	4.21593e-19	1.000000
rad40syn	1.84908e-20	1.000000	1.84908e-20	1.000000
rad6	1.80400e-20	1.000000	1.80400e-20	1.000000
rad40anti	1.45861e-20	1.000000	1.45861e-20	1.000000
PAH8+H	5.99115e-21	1.000000	5.99115e-21	1.000000
rad73	7.86964e-22	1.000000	7.86964e-22	1.000000
rad19anti	1.86204e-22	1.000000	1.86204e-22	1.000000
rad9	3.58272e-23	1.000000	3.58272e-23	1.000000
rad2	3.50707e-23	1.000000	3.50707e-23	1.000000
rad71	1.54163e-23	1.000000	1.54163e-23	1.000000
rad28	1.31647e-23	1.000000	1.31647e-23	1.000000
rad26	9.20986e-24	1.000000	9.20986e-24	1.000000
rad1	2.72606e-24	1.000000	2.72606e-24	1.000000
rad10	1.83815e-24	1.000000	1.83815e-24	1.000000
rad7	1.38896e-24	1.000000	1.38896e-24	1.000000
rad11	3.47751e-25	1.000000	3.47751e-25	1.000000
rad3	1.82240e-25	1.000000	1.82240e-25	1.000000
rad4	9.73956e-26	1.000000	9.73956e-26	1.000000
rad15	1.63004e-26	1.000000	1.63004e-26	1.000000
rad13	7.92147e-27	1.000000	7.92147e-27	1.000000
rad47	3.77556e-28	1.000000	3.77556e-28	1.000000
rad31	1.07056e-28	1.000000	1.07056e-28	1.000000
rad14	2.50126e-29	1.000000	2.50126e-29	1.000000
rad27	2.22897e-29	1.000000	2.22897e-29	1.000000
rad23	1.82214e-29	1.000000	1.82214e-29	1.000000
rad33	1.56080e-29	1.000000	1.56080e-29	1.000000
rad25	5.55504e-30	1.000000	5.55504e-30	1.000000
rad19syn	1.62279e-30	1.000000	1.62279e-30	1.000000
rad12	2.25130e-31	1.000000	2.25130e-31	1.000000
rad45	1.60235e-31	1.000000	1.60235e-31	1.000000
rad36	1.06238e-32	1.000000	1.06238e-32	1.000000
rad22	4.03260e-33	1.000000	4.03260e-33	1.000000
rad5	1.24239e-33	1.000000	1.24239e-33	1.000000
rad20	2.28637e-34	1.000000	2.28637e-34	1.000000

rad21	1.83478e-34	1.000000	1.83478e-34	1.000000
rad18	9.32685e-37	1.000000	9.32685e-37	1.000000
rad24	3.71880e-39	1.000000	3.71880e-39	1.000000
rad8	1.69061e-57	1.000000	1.69061e-57	1.000000

0.100000000E-02 Pa, 400.000000 K

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Rate constant      | True (fraction)      Effective (fraction)
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Total              | 1.29463e-13 (1.00   ) 1.29463e-13 (1.00   )
Formation of rad19 | 1.28526e-13 (0.993  ) 1.28526e-13 (0.993  )
H-abstraction to cyc2enyl | 9.19357e-16 (0.00710) 9.19357e-16 (0.00710)
H-abstraction to cyclenyl | 1.69485e-17 (0.000131) 1.69485e-17 (0.000131)
=====
species            | PYtrue      Cumul      | PYeffective  Cumul
-----
Indene+H           | 0.991683    0.991683    | 0.991683    0.991683
Benzene+cycloprop-2-enylidene | 0.00710133  0.998784    | 0.00710133  0.998784
PhCHCCH2+H        | 0.00100586  0.999790    | 0.00100586  0.999790
Benzene+cycloprop-1-enylidene | 0.000130914 0.999921    | 0.000130914 0.999921
C2H2+PhCH2        | 2.22468e-05 0.999943    | 2.22468e-05 0.999943
PhCCH+CH3         | 1.95098e-05 0.999963    | 1.95098e-05 0.999963
Ph+MeAc           | 1.45179e-05 0.999977    | 1.45179e-05 0.999977
PhCCCH3+H         | 1.31952e-05 0.999990    | 1.31952e-05 0.999990
rad67             | 4.22167e-06 0.999994    | 4.22167e-06 0.999994
Ph+Allene         | 2.97389e-06 0.999997    | 2.97389e-06 0.999997
rad35             | 1.68909e-06 0.999999    | 1.68909e-06 0.999999
PhCH2CCH+H       | 6.93042e-07 1.000000    | 6.93042e-07 1.000000
PAH7+H            | 2.89755e-07 1.000000    | 2.89755e-07 1.000000
rad37             | 8.82204e-08 1.000000    | 8.82204e-08 1.000000
rad39             | 7.05182e-08 1.000000    | 7.05182e-08 1.000000
rad30             | 3.41245e-08 1.000000    | 3.41245e-08 1.000000
PAH9+H            | 5.67066e-09 1.000000    | 5.67066e-09 1.000000
PhcycC3H3_A+H    | 4.88900e-09 1.000000    | 4.88900e-09 1.000000
rad38             | 3.07434e-09 1.000000    | 3.07434e-09 1.000000
PAH10+CH3        | 1.94150e-09 1.000000    | 1.94150e-09 1.000000
PAH3+H            | 5.34448e-10 1.000000    | 5.34448e-10 1.000000
PhcycC3H3_B+H    | 4.15151e-10 1.000000    | 4.15151e-10 1.000000
rad60syn          | 3.79130e-10 1.000000    | 3.79130e-10 1.000000
rad46             | 2.31289e-10 1.000000    | 2.31289e-10 1.000000
Phenyl+cycC3H4   | 2.22328e-10 1.000000    | 0.000000    1.000000
rad60anti         | 2.01850e-10 1.000000    | 2.01850e-10 1.000000
rad59             | 8.49298e-11 1.000000    | 8.49298e-11 1.000000
rad54             | 6.39700e-11 1.000000    | 6.39700e-11 1.000000
rad43             | 3.46932e-11 1.000000    | 3.46932e-11 1.000000
rad50             | 8.28667e-12 1.000000    | 8.28667e-12 1.000000
rad62             | 7.28464e-12 1.000000    | 7.28464e-12 1.000000
rad70             | 3.85326e-12 1.000000    | 3.85326e-12 1.000000
PAH1+H           | 3.61001e-12 1.000000    | 3.61001e-12 1.000000
rad55             | 1.60053e-12 1.000000    | 1.60053e-12 1.000000
rad34             | 2.43950e-13 1.000000    | 2.43950e-13 1.000000
rad52             | 1.72575e-13 1.000000    | 1.72575e-13 1.000000
rad58             | 1.69180e-13 1.000000    | 1.69180e-13 1.000000
rad51             | 1.42864e-13 1.000000    | 1.42864e-13 1.000000
rad41             | 6.83260e-14 1.000000    | 6.83260e-14 1.000000
rad42             | 2.71733e-14 1.000000    | 2.71733e-14 1.000000
rad53             | 6.88016e-15 1.000000    | 6.88016e-15 1.000000
rad65             | 4.39172e-15 1.000000    | 4.39172e-15 1.000000
rad61             | 3.43038e-15 1.000000    | 3.43038e-15 1.000000
rad64             | 3.05833e-15 1.000000    | 3.05833e-15 1.000000
rad56             | 5.30923e-16 1.000000    | 5.30923e-16 1.000000
rad19anti         | 4.76708e-16 1.000000    | 4.76708e-16 1.000000
rad6              | 1.93691e-16 1.000000    | 1.93691e-16 1.000000
rad9              | 1.17021e-16 1.000000    | 1.17021e-16 1.000000
rad68syn          | 7.48243e-17 1.000000    | 7.48243e-17 1.000000
rad68anti         | 5.24834e-17 1.000000    | 5.24834e-17 1.000000
rad2              | 9.77910e-18 1.000000    | 9.77910e-18 1.000000
rad40syn          | 6.39130e-18 1.000000    | 6.39130e-18 1.000000
PAH8+H           | 5.94551e-18 1.000000    | 5.94551e-18 1.000000
rad40anti         | 4.74371e-18 1.000000    | 4.74371e-18 1.000000
rad23             | 9.83141e-19 1.000000    | 9.83141e-19 1.000000
rad1              | 9.10085e-19 1.000000    | 9.10085e-19 1.000000
rad10             | 5.67954e-19 1.000000    | 5.67954e-19 1.000000
rad73             | 4.85679e-19 1.000000    | 4.85679e-19 1.000000
rad26             | 2.96854e-19 1.000000    | 2.96854e-19 1.000000
rad28             | 8.34495e-20 1.000000    | 8.34495e-20 1.000000
rad3              | 7.68191e-20 1.000000    | 7.68191e-20 1.000000
rad15             | 7.37540e-20 1.000000    | 7.37540e-20 1.000000
rad71             | 4.97341e-20 1.000000    | 4.97341e-20 1.000000
rad45             | 4.88378e-20 1.000000    | 4.88378e-20 1.000000

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rad4	4.04594e-20	1.00000	4.04594e-20	1.00000
rad7	1.80011e-20	1.00000	1.80011e-20	1.00000
rad11	4.49110e-21	1.00000	4.49110e-21	1.00000
rad19syn	2.04434e-21	1.00000	2.04434e-21	1.00000
rad36	1.87692e-21	1.00000	1.87692e-21	1.00000
rad31	5.03701e-22	1.00000	5.03701e-22	1.00000
rad22	1.48152e-22	1.00000	1.48152e-22	1.00000
rad13	1.10554e-22	1.00000	1.10554e-22	1.00000
rad27	4.28744e-24	1.00000	4.28744e-24	1.00000
rad12	2.22583e-24	1.00000	2.22583e-24	1.00000
rad14	1.91829e-24	1.00000	1.91829e-24	1.00000
rad72	7.32496e-25	1.00000	7.32496e-25	1.00000
rad33	2.89653e-25	1.00000	2.89653e-25	1.00000
rad25	9.86123e-26	1.00000	9.86123e-26	1.00000
rad47	7.65187e-26	1.00000	7.65187e-26	1.00000
rad21	3.39272e-28	1.00000	3.39272e-28	1.00000
rad20	2.85972e-28	1.00000	2.85972e-28	1.00000
rad5	2.00925e-28	1.00000	2.00925e-28	1.00000
rad24	1.52785e-28	1.00000	1.52785e-28	1.00000
rad18	5.39304e-30	1.00000	5.39304e-30	1.00000
rad8	6.65052e-41	1.00000	6.65052e-41	1.00000

0.100000000E-02 Pa, 500.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.52837e-13 (1.00)	2.52837e-13 (1.00)
Formation of rad19	2.47941e-13 (0.981)	2.47941e-13 (0.981)
H-abstraction to cyc2enyl	4.69058e-15 (0.0186)	4.69058e-15 (0.0186)
H-abstraction to cyclenyl	2.05381e-16 (0.000812)	2.05381e-16 (0.000812)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.978428	0.978428	0.978428	0.978428
Benzene+cycloprop-2-enylidene	0.0185518	0.996979	0.0185518	0.996979
PhCHCCH2+H	0.00202477	0.999004	0.00202477	0.999004
Benzene+cycloprop-1-enylidene	0.000812306	0.999816	0.000812306	0.999816
C2H2+PhCH2	5.13362e-05	0.999868	5.13362e-05	0.999868
PhCCH+CH3	3.71182e-05	0.999905	3.71182e-05	0.999905
Ph+MeAc	3.63101e-05	0.999941	3.63101e-05	0.999941
PhCCCH3+H	2.84449e-05	0.999970	2.84449e-05	0.999970
Ph+Allene	1.09469e-05	0.999981	1.09469e-05	0.999981
rad67	1.05822e-05	0.999991	1.05822e-05	0.999991
rad35	4.10935e-06	0.999995	4.10935e-06	0.999995
PhCH2CCH+H	2.95392e-06	0.999998	2.95392e-06	0.999998
PAH7+H	8.51562e-07	0.999999	8.51562e-07	0.999999
rad37	2.86678e-07	0.999999	2.86678e-07	0.999999
rad39	2.02117e-07	1.000000	2.02117e-07	1.000000
rad30	8.94923e-08	1.000000	8.94923e-08	1.000000
PhcycC3H3_A+H	5.02850e-08	1.000000	5.02850e-08	1.000000
PAH9+H	2.06879e-08	1.000000	2.06879e-08	1.000000
PAH10+CH3	1.44052e-08	1.000000	1.44052e-08	1.000000
rad38	1.31834e-08	1.000000	1.31834e-08	1.000000
PhcycC3H3_B+H	7.81107e-09	1.000000	7.81107e-09	1.000000
Phenyl+cycC3H4	3.55660e-09	1.000000	0.000000	1.000000
PAH3+H	2.97649e-09	1.000000	2.97649e-09	1.000000
rad60syn	1.43183e-09	1.000000	1.43183e-09	1.000000
rad46	1.04913e-09	1.000000	1.04913e-09	1.000000
rad60anti	7.84373e-10	1.000000	7.84373e-10	1.000000
rad54	4.68690e-10	1.000000	4.68690e-10	1.000000
rad59	4.42102e-10	1.000000	4.42102e-10	1.000000
rad43	1.96278e-10	1.000000	1.96278e-10	1.000000
rad50	6.65687e-11	1.000000	6.65687e-11	1.000000
PAH1+H	4.68911e-11	1.000000	4.68911e-11	1.000000
rad62	3.77646e-11	1.000000	3.77646e-11	1.000000
rad70	3.76453e-11	1.000000	3.76453e-11	1.000000
rad55	1.50994e-11	1.000000	1.50994e-11	1.000000
rad34	3.22092e-12	1.000000	3.22092e-12	1.000000
rad51	2.08197e-12	1.000000	2.08197e-12	1.000000
rad58	2.05092e-12	1.000000	2.05092e-12	1.000000
rad52	1.88540e-12	1.000000	1.88540e-12	1.000000
rad41	8.63972e-13	1.000000	8.63972e-13	1.000000
rad42	2.74849e-13	1.000000	2.74849e-13	1.000000
rad53	1.70507e-13	1.000000	1.70507e-13	1.000000
rad61	1.40668e-13	1.000000	1.40668e-13	1.000000
rad64	7.73135e-14	1.000000	7.73135e-14	1.000000
rad19anti	6.68024e-14	1.000000	6.68024e-14	1.000000
rad65	6.64225e-14	1.000000	6.64225e-14	1.000000
rad56	2.62115e-14	1.000000	2.62115e-14	1.000000
rad9	1.86161e-14	1.000000	1.86161e-14	1.000000

rad6	1.16329e-14	1.000000	1.16329e-14	1.000000
rad68syn	3.88259e-15	1.000000	3.88259e-15	1.000000
rad68anti	2.67414e-15	1.000000	2.67414e-15	1.000000
rad23	2.23909e-15	1.000000	2.23909e-15	1.000000
rad2	1.86640e-15	1.000000	1.86640e-15	1.000000
PAH8+H	8.47569e-16	1.000000	8.47569e-16	1.000000
rad40syn	5.55786e-16	1.000000	5.55786e-16	1.000000
rad40anti	4.06575e-16	1.000000	4.06575e-16	1.000000
rad45	2.96312e-16	1.000000	2.96312e-16	1.000000
rad1	2.23544e-16	1.000000	2.23544e-16	1.000000
rad10	8.92807e-17	1.000000	8.92807e-17	1.000000
rad73	6.83642e-17	1.000000	6.83642e-17	1.000000
rad3	2.26871e-17	1.000000	2.26871e-17	1.000000
rad26	1.87433e-17	1.000000	1.87433e-17	1.000000
rad36	1.55397e-17	1.000000	1.55397e-17	1.000000
rad19syn	1.45990e-17	1.000000	1.45990e-17	1.000000
rad71	1.35822e-17	1.000000	1.35822e-17	1.000000
rad4	1.29061e-17	1.000000	1.29061e-17	1.000000
rad15	1.26565e-17	1.000000	1.26565e-17	1.000000
rad28	3.17792e-18	1.000000	3.17792e-18	1.000000
rad7	1.16065e-18	1.000000	1.16065e-18	1.000000
rad11	2.99679e-19	1.000000	2.99679e-19	1.000000
rad22	2.10062e-19	1.000000	2.10062e-19	1.000000
rad31	1.77647e-19	1.000000	1.77647e-19	1.000000
rad13	7.89440e-21	1.000000	7.89440e-21	1.000000
rad12	2.74486e-21	1.000000	2.74486e-21	1.000000
rad72	2.09561e-21	1.000000	2.09561e-21	1.000000
rad27	5.10409e-22	1.000000	5.10409e-22	1.000000
rad14	1.57110e-22	1.000000	1.57110e-22	1.000000
rad33	2.40700e-23	1.000000	2.40700e-23	1.000000
rad47	5.02582e-24	1.000000	5.02582e-24	1.000000
rad25	4.95483e-24	1.000000	4.95483e-24	1.000000
rad24	2.54247e-25	1.000000	2.54247e-25	1.000000
rad21	1.13938e-25	1.000000	1.13938e-25	1.000000
rad20	9.20504e-26	1.000000	9.20504e-26	1.000000
rad18	1.41499e-27	1.000000	1.41499e-27	1.000000
rad5	1.76578e-28	1.000000	1.76578e-28	1.000000
rad8	1.56293e-36	1.000000	1.56293e-36	1.000000

0.100000000E-02 Pa, 600.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.35570e-13 (1.00)	4.35570e-13 (1.00)
Formation of rad19	4.18892e-13 (0.962)	4.18892e-13 (0.962)
H-abstraction to cyc2enyl	1.54751e-14 (0.0355)	1.54751e-14 (0.0355)
H-abstraction to cyc1enyl	1.20343e-15 (0.00276)	1.20343e-15 (0.00276)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.957276	0.957276	0.957276	0.957276
Benzene+cycloprop-2-enylidene	0.0355285	0.992805	0.0355285	0.992805
PhCHCCH2+H	0.00402172	0.996826	0.00402172	0.996826
Benzene+cycloprop-1-enylidene	0.00276289	0.999589	0.00276289	0.999589
C2H2+PhCH2	0.000111945	0.999701	0.000111945	0.999701
Ph+MeAc	8.57420e-05	0.999787	8.57420e-05	0.999787
PhCCH+CH3	6.75064e-05	0.999854	6.75064e-05	0.999854
PhCCCH3+H	5.90383e-05	0.999913	5.90383e-05	0.999913
Ph+Allene	3.56628e-05	0.999949	3.56628e-05	0.999949
rad67	2.54029e-05	0.999975	2.54029e-05	0.999975
PhCH2CCH+H	1.09199e-05	0.999985	1.09199e-05	0.999985
rad35	9.63305e-06	0.999995	9.63305e-06	0.999995
PAH7+H	2.26706e-06	0.999997	2.26706e-06	0.999997
rad37	8.64905e-07	0.999998	8.64905e-07	0.999998
rad39	5.20249e-07	0.999999	5.20249e-07	0.999999
PhcycC3H3_A+H	3.56529e-07	0.999999	3.56529e-07	0.999999
rad30	2.27441e-07	0.999999	2.27441e-07	0.999999
PAH10+CH3	8.50920e-08	0.999999	8.50920e-08	0.999999
PhcycC3H3_B+H	8.43896e-08	0.999999	8.43896e-08	0.999999
PAH9+H	7.13070e-08	1.000000	7.13070e-08	1.000000
rad38	5.21311e-08	1.000000	5.21311e-08	1.000000
Phenyl+cycC3H4	3.58023e-08	1.000000	0.000000	1.000000
PAH3+H	1.45691e-08	1.000000	1.45691e-08	1.000000
rad60syn	5.03972e-09	1.000000	5.03972e-09	1.000000
rad46	4.37622e-09	1.000000	4.37622e-09	1.000000
rad60anti	2.82886e-09	1.000000	2.82886e-09	1.000000
rad54	2.63022e-09	1.000000	2.63022e-09	1.000000
rad59	2.03126e-09	1.000000	2.03126e-09	1.000000
rad43	9.14302e-10	1.000000	9.14302e-10	1.000000
rad50	4.49076e-10	1.000000	4.49076e-10	1.000000

PAH1+H	4.05905e-10	1.000000	4.05905e-10	1.000000
rad70	2.63826e-10	1.000000	2.63826e-10	1.000000
rad62	1.58022e-10	1.000000	1.58022e-10	1.000000
rad55	1.01573e-10	1.000000	1.01573e-10	1.000000
rad34	2.81348e-11	1.000000	2.81348e-11	1.000000
rad51	2.21635e-11	1.000000	2.21635e-11	1.000000
rad58	1.79744e-11	1.000000	1.79744e-11	1.000000
rad52	1.61051e-11	1.000000	1.61051e-11	1.000000
rad41	7.27828e-12	1.000000	7.27828e-12	1.000000
rad61	2.69082e-12	1.000000	2.69082e-12	1.000000
rad53	2.26526e-12	1.000000	2.26526e-12	1.000000
rad42	1.88131e-12	1.000000	1.88131e-12	1.000000
rad64	9.96176e-13	1.000000	9.96176e-13	1.000000
rad65	7.15337e-13	1.000000	7.15337e-13	1.000000
rad56	5.47642e-13	1.000000	5.47642e-13	1.000000
rad19anti	4.93442e-13	1.000000	4.93443e-13	1.000000
rad9	1.78934e-13	1.000000	1.78934e-13	1.000000
rad6	1.49103e-13	1.000000	1.49103e-13	1.000000
rad23	9.77654e-14	1.000000	9.77654e-14	1.000000
rad68syn	8.54725e-14	1.000000	8.54725e-14	1.000000
rad68anti	5.81396e-14	1.000000	5.81396e-14	1.000000
rad2	5.38242e-14	1.000000	5.38242e-14	1.000000
PAH8+H	3.69287e-14	1.000000	3.69287e-14	1.000000
rad40syn	1.73292e-14	1.000000	1.73292e-14	1.000000
rad45	1.51125e-14	1.000000	1.51125e-14	1.000000
rad40anti	1.26422e-14	1.000000	1.26422e-14	1.000000
rad1	8.56509e-15	1.000000	8.56509e-15	1.000000
rad73	3.38669e-15	1.000000	3.38669e-15	1.000000
rad10	1.60722e-15	1.000000	1.60722e-15	1.000000
rad19syn	1.52297e-15	1.000000	1.52297e-15	1.000000
rad36	1.51785e-15	1.000000	1.51785e-15	1.000000
rad71	1.05512e-15	1.000000	1.05512e-15	1.000000
rad3	7.37769e-16	1.000000	7.37769e-16	1.000000
rad4	4.96137e-16	1.000000	4.96137e-16	1.000000
rad26	2.37157e-16	1.000000	2.37157e-16	1.000000
rad15	1.18926e-16	1.000000	1.18926e-16	1.000000
rad28	3.31103e-17	1.000000	3.31103e-17	1.000000
rad7	1.65218e-17	1.000000	1.65218e-17	1.000000
rad12	1.38850e-17	1.000000	1.38850e-17	1.000000
rad22	8.17321e-18	1.000000	8.17321e-18	1.000000
rad11	4.52346e-18	1.000000	4.52346e-18	1.000000
rad31	3.24821e-18	1.000000	3.24821e-18	1.000000
rad72	9.50689e-19	1.000000	9.50689e-19	1.000000
rad13	1.34684e-19	1.000000	1.34684e-19	1.000000
rad27	8.58756e-21	1.000000	8.58756e-21	1.000000
rad14	2.27129e-21	1.000000	2.27129e-21	1.000000
rad33	5.32484e-22	1.000000	5.32484e-22	1.000000
rad47	1.30363e-22	1.000000	1.30363e-22	1.000000
rad25	6.89914e-23	1.000000	6.89914e-23	1.000000
rad24	2.21416e-23	1.000000	2.21416e-23	1.000000
rad21	1.39534e-23	1.000000	1.39534e-23	1.000000
rad20	8.07036e-24	1.000000	8.07036e-24	1.000000
rad18	8.12602e-26	1.000000	8.12602e-26	1.000000
rad5	2.19448e-28	1.000000	2.19448e-28	1.000000
rad8	2.39372e-31	1.000000	2.39372e-31	1.000000

0.100000000E-02 Pa, 700.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.91694e-13 (1.00)	6.91694e-13 (1.00)
Formation of rad19	6.47922e-13 (0.937)	6.47922e-13 (0.937)
H-abstraction to cyc2enyl	3.91858e-14 (0.0567)	3.91858e-14 (0.0567)
H-abstraction to cyclenyl	4.58543e-15 (0.00663)	4.58542e-15 (0.00663)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.928261	0.928261	0.928261	0.928261
Benzene+cycloprop-2-enylidene	0.0566520	0.984913	0.0566520	0.984913
PhCHCCH2+H	0.00759851	0.992512	0.00759851	0.992512
Benzene+cycloprop-1-enylidene	0.00662927	0.999141	0.00662927	0.999141
C2H2+PhCH2	0.000223367	0.999364	0.000223367	0.999364
Ph+MeAc	0.000184762	0.999549	0.000184762	0.999549
PhCCH+CH3	0.000114475	0.999663	0.000114475	0.999663
PhCCCH3+H	0.000114174	0.999778	0.000114174	0.999778
Ph+Allene	9.86533e-05	0.999876	9.86533e-05	0.999876
rad67	5.61618e-05	0.999932	5.61618e-05	0.999932
PhCH2CCH+H	3.37385e-05	0.999966	3.37385e-05	0.999966
rad35	2.09202e-05	0.999987	2.09202e-05	0.999987
PAH7+H	5.25052e-06	0.999992	5.25052e-06	0.999992

rad37	2.31770e-06	0.999995	2.31770e-06	0.999995
PhcycC3H3_A+H	1.84668e-06	0.999997	1.84668e-06	0.999997
rad39	1.15814e-06	0.999998	1.15814e-06	0.999998
PhcycC3H3_B+H	5.97891e-07	0.999998	5.97891e-07	0.999998
rad30	5.35177e-07	0.999999	5.35177e-07	0.999999
PAH10+CH3	3.93625e-07	0.999999	3.93625e-07	0.999999
Phenyl+cycC3H4	2.47273e-07	0.999999	0.00000	0.999999
PAH9+H	2.20558e-07	1.000000	2.20558e-07	0.999999
rad38	1.79348e-07	1.000000	1.79348e-07	1.000000
PAH3+H	5.98816e-08	1.000000	5.98816e-08	1.000000
rad46	1.59383e-08	1.000000	1.59383e-08	1.000000
rad60syn	1.57198e-08	1.000000	1.57199e-08	1.000000
rad54	1.11959e-08	1.000000	1.11959e-08	1.000000
rad60anti	9.00503e-09	1.000000	9.00503e-09	1.000000
rad59	7.88061e-09	1.000000	7.88061e-09	1.000000
rad43	3.45953e-09	1.000000	3.45953e-09	1.000000
PAH1+H	2.45995e-09	1.000000	2.45995e-09	1.000000
rad50	2.44566e-09	1.000000	2.44566e-09	1.000000
rad70	1.34939e-09	1.000000	1.34939e-09	1.000000
rad62	5.31171e-10	1.000000	5.31171e-10	1.000000
rad55	4.95201e-10	1.000000	4.95201e-10	1.000000
rad51	1.72661e-10	1.000000	1.72661e-10	1.000000
rad34	1.70512e-10	1.000000	1.70512e-10	1.000000
rad58	1.15482e-10	1.000000	1.15482e-10	1.000000
rad52	1.05445e-10	1.000000	1.05445e-10	1.000000
rad41	4.33849e-11	1.000000	4.33849e-11	1.000000
rad61	2.93834e-11	1.000000	2.93834e-11	1.000000
rad53	1.83949e-11	1.000000	1.83949e-11	1.000000
rad9	1.21406e-11	1.000000	1.21406e-11	1.000000
rad42	9.22819e-12	1.000000	9.22819e-12	1.000000
rad64	7.68989e-12	1.000000	7.68989e-12	1.000000
rad56	6.14026e-12	1.000000	6.14026e-12	1.000000
rad65	5.56219e-12	1.000000	5.56219e-12	1.000000
rad68syn	1.01763e-12	1.000000	1.01764e-12	1.000000
PAH8+H	7.27526e-13	1.000000	7.27526e-13	1.000000
rad19anti	6.95730e-13	1.000000	6.95730e-13	1.000000
rad68anti	6.85906e-13	1.000000	6.85907e-13	1.000000
rad23	4.43856e-13	1.000000	4.43856e-13	1.000000
rad6	4.17611e-13	1.000000	4.17611e-13	1.000000
rad40syn	2.67932e-13	1.000000	2.67932e-13	1.000000
rad2	2.09984e-13	1.000000	2.09984e-13	1.000000
rad40anti	1.96411e-13	1.000000	1.96411e-13	1.000000
rad73	8.05577e-14	1.000000	8.05578e-14	1.000000
rad45	6.74453e-14	1.000000	6.74453e-14	1.000000
rad1	4.88149e-14	1.000000	4.88149e-14	1.000000
rad71	3.45139e-14	1.000000	3.45139e-14	1.000000
rad12	1.17968e-14	1.000000	1.17968e-14	1.000000
rad36	9.04286e-15	1.000000	9.04287e-15	1.000000
rad19syn	8.87889e-15	1.000000	8.87889e-15	1.000000
rad15	5.63591e-15	1.000000	5.63591e-15	1.000000
rad10	5.14146e-15	1.000000	5.14146e-15	1.000000
rad3	2.76281e-15	1.000000	2.76281e-15	1.000000
rad4	2.18492e-15	1.000000	2.18492e-15	1.000000
rad26	6.79663e-16	1.000000	6.79663e-16	1.000000
rad28	9.28102e-17	1.000000	9.28103e-17	1.000000
rad72	6.32527e-17	1.000000	6.32527e-17	1.000000
rad7	5.37985e-17	1.000000	5.37986e-17	1.000000
rad22	3.91409e-17	1.000000	3.91409e-17	1.000000
rad11	1.60874e-17	1.000000	1.60874e-17	1.000000
rad31	9.71078e-18	1.000000	9.71078e-18	1.000000
rad13	6.04087e-19	1.000000	6.04087e-19	1.000000
rad27	2.84899e-20	1.000000	2.84899e-20	1.000000
rad24	2.01115e-20	1.000000	2.01115e-20	1.000000
rad14	7.23096e-21	1.000000	7.23097e-21	1.000000
rad33	4.16331e-21	1.000000	4.16331e-21	1.000000
rad21	3.31373e-21	1.000000	3.31373e-21	1.000000
rad47	1.29144e-21	1.000000	1.29144e-21	1.000000
rad20	6.54965e-22	1.000000	6.54965e-22	1.000000
rad25	2.91688e-22	1.000000	2.91688e-22	1.000000
rad18	1.42894e-24	1.000000	1.42894e-24	1.000000
rad8	5.34071e-26	1.000000	5.34071e-26	1.000000
rad5	4.24455e-28	1.000000	4.24456e-28	1.000000

0.100000000E-02 Pa, 800.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.03759e-12 (1.00)	1.03758e-12 (1.00)
Formation of rad19	9.41065e-13 (0.907)	9.41063e-13 (0.907)
H-abstraction to cyc2enyl	8.32953e-14 (0.0803)	8.32953e-14 (0.0803)

H-abstraction to cyclenyl | 1.32261e-14 (0.0127) 1.32261e-14 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.891851	0.891851	0.891852	0.891852
Benzene+cycloprop-2-enylidene	0.0802780	0.972129	0.0802781	0.972130
PhCHCCH2+H	0.0134622	0.985591	0.0134623	0.985592
Benzene+cycloprop-1-enylidene	0.0127470	0.998338	0.0127470	0.998339
C2H2+PhCH2	0.000407098	0.998746	0.000407098	0.998747
Ph+MeAc	0.000361138	0.999107	0.000361138	0.999108
Ph+Allene	0.000232338	0.999339	0.000232338	0.999340
PhCCCH3+H	0.000203971	0.999543	0.000203971	0.999544
PhCCH+CH3	0.000180552	0.999724	0.000180553	0.999725
rad67	0.000113174	0.999837	0.000113174	0.999838
PhCH2CCH+H	8.77931e-05	0.999924	8.77933e-05	0.999925
rad35	4.16129e-05	0.999966	4.16129e-05	0.999967
PAH7+H	1.05800e-05	0.999977	1.05800e-05	0.999978
PhcycC3H3_A+H	7.41209e-06	0.999984	7.41210e-06	0.999985
rad37	5.46662e-06	0.999990	5.46663e-06	0.999991
PhcycC3H3_B+H	3.06124e-06	0.999993	3.06124e-06	0.999994
rad39	2.23427e-06	0.999995	2.23428e-06	0.999996
PAH10+CH3	1.45373e-06	0.999996	1.45373e-06	0.999997
Phenyl+cycC3H4	1.26413e-06	0.999998	0.00000	0.999997
rad30	1.14933e-06	0.999999	1.14933e-06	0.999998
PAH9+H	6.06283e-07	0.999999	6.06284e-07	0.999999
rad38	5.31255e-07	1.000000	5.31256e-07	1.000000
PAH3+H	2.06535e-07	1.000000	2.06535e-07	1.000000
rad46	5.03839e-08	1.000000	5.03840e-08	1.000000
rad60syn	4.30113e-08	1.000000	4.30114e-08	1.000000
rad54	3.72615e-08	1.000000	3.72616e-08	1.000000
rad59	2.58004e-08	1.000000	2.58004e-08	1.000000
rad60anti	2.50612e-08	1.000000	2.50612e-08	1.000000
PAH1+H	1.11102e-08	1.000000	1.11103e-08	1.000000
rad50	1.08531e-08	1.000000	1.08531e-08	1.000000
rad43	1.08255e-08	1.000000	1.08256e-08	1.000000
rad70	5.27764e-09	1.000000	5.27765e-09	1.000000
rad55	1.83175e-09	1.000000	1.83175e-09	1.000000
rad62	1.46956e-09	1.000000	1.46956e-09	1.000000
rad51	1.02144e-09	1.000000	1.02144e-09	1.000000
rad34	7.64056e-10	1.000000	7.64057e-10	1.000000
rad58	5.66068e-10	1.000000	5.66068e-10	1.000000
rad52	5.41778e-10	1.000000	5.41779e-10	1.000000
rad9	5.29427e-10	1.000000	5.29428e-10	1.000000
rad61	2.09074e-10	1.000000	2.09074e-10	1.000000
rad41	1.94595e-10	1.000000	1.94596e-10	1.000000
rad53	1.01501e-10	1.000000	1.01501e-10	1.000000
rad56	4.31937e-11	1.000000	4.31937e-11	1.000000
rad64	4.01364e-11	1.000000	4.01365e-11	1.000000
rad42	3.44814e-11	1.000000	3.44815e-11	1.000000
rad65	3.26038e-11	1.000000	3.26038e-11	1.000000
PAH8+H	8.11533e-12	1.000000	8.11534e-12	1.000000
rad68syn	7.66856e-12	1.000000	7.66856e-12	1.000000
rad68anti	5.13235e-12	1.000000	5.13235e-12	1.000000
rad40syn	2.48643e-12	1.000000	2.48644e-12	1.000000
rad40anti	1.83898e-12	1.000000	1.83898e-12	1.000000
rad73	1.11447e-12	1.000000	1.11447e-12	1.000000
rad23	7.41809e-13	1.000000	7.41810e-13	1.000000
rad12	6.62446e-13	1.000000	6.62447e-13	1.000000
rad71	6.08935e-13	1.000000	6.08936e-13	1.000000
rad19anti	6.02835e-13	1.000000	6.02835e-13	1.000000
rad6	4.86676e-13	1.000000	4.86677e-13	1.000000
rad2	2.86041e-13	1.000000	2.86042e-13	1.000000
rad15	1.54588e-13	1.000000	1.54588e-13	1.000000
rad45	1.41201e-13	1.000000	1.41201e-13	1.000000
rad1	8.04525e-14	1.000000	8.04526e-14	1.000000
rad36	1.70327e-14	1.000000	1.70327e-14	1.000000
rad19syn	1.44428e-14	1.000000	1.44428e-14	1.000000
rad10	7.33467e-15	1.000000	7.33468e-15	1.000000
rad3	3.42980e-15	1.000000	3.42981e-15	1.000000
rad4	2.79799e-15	1.000000	2.79799e-15	1.000000
rad72	2.04922e-15	1.000000	2.04922e-15	1.000000
rad26	8.48070e-16	1.000000	8.48071e-16	1.000000
rad28	1.16036e-16	1.000000	1.16037e-16	1.000000
rad7	7.81367e-17	1.000000	7.81369e-17	1.000000
rad22	7.07056e-17	1.000000	7.07057e-17	1.000000
rad11	2.64693e-17	1.000000	2.64693e-17	1.000000
rad31	1.51028e-17	1.000000	1.51028e-17	1.000000
rad24	4.04479e-18	1.000000	4.04480e-18	1.000000
rad13	1.45595e-18	1.000000	1.45595e-18	1.000000
rad21	1.34685e-18	1.000000	1.34685e-18	1.000000

rad33	2.45707e-19	1.00000	2.45707e-19	1.00000
rad20	2.18000e-19	1.00000	2.18000e-19	1.00000
rad27	4.48354e-20	1.00000	4.48355e-20	1.00000
rad14	1.06968e-20	1.00000	1.06968e-20	1.00000
rad47	8.53969e-21	1.00000	8.53970e-21	1.00000
rad25	4.07455e-21	1.00000	4.07456e-21	1.00000
rad8	2.39853e-21	1.00000	2.39853e-21	1.00000
rad18	1.62248e-23	1.00000	1.62249e-23	1.00000
rad5	1.43662e-27	1.00000	1.43663e-27	1.00000

0.100000000E-02 Pa, 900.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.49199e-12 (1.00)	1.49199e-12 (1.00)
Formation of rad19	1.30395e-12 (0.874)	1.30394e-12 (0.874)
H-abstraction to cyc2enyl	1.56554e-13 (0.105)	1.56554e-13 (0.105)
H-abstraction to cyc1enyl	3.14892e-14 (0.0211)	3.14890e-14 (0.0211)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.848699	0.848699	0.848703	0.848703
Benzene+cycloprop-2-enylidene	0.104929	0.953628	0.104930	0.953634
PhCHCCH2+H	0.0222941	0.975922	0.0222941	0.975928
Benzene+cycloprop-1-enylidene	0.0211054	0.997028	0.0211054	0.997033
C2H2+PhCH2	0.000683868	0.997712	0.000683872	0.997717
Ph+MeAc	0.000643403	0.998355	0.000643407	0.998360
Ph+Allene	0.000474185	0.998829	0.000474187	0.998835
PhCCCH3+H	0.000337156	0.999166	0.000337157	0.999172
PhCCH+CH3	0.000266833	0.999433	0.000266834	0.999439
rad67	0.000208252	0.999641	0.000208253	0.999647
PhCH2CCH+H	0.000196563	0.999838	0.000196563	0.999843
rad35	7.58729e-05	0.999914	7.58733e-05	0.999919
PhcycC3H3_A+H	2.42103e-05	0.999938	2.42105e-05	0.999943
PAH7+H	1.88375e-05	0.999957	1.88376e-05	0.999962
PhcycC3H3_B+H	1.21561e-05	0.999969	1.21561e-05	0.999974
rad37	1.14050e-05	0.999980	1.14050e-05	0.999986
Phenyl+cycC3H4	5.07995e-06	0.999986	0.00000	0.999986
PAH10+CH3	4.40463e-06	0.999990	4.40465e-06	0.999990
rad39	3.79886e-06	0.999994	3.79888e-06	0.999994
rad30	2.25163e-06	0.999996	2.25165e-06	0.999996
PAH9+H	1.48864e-06	0.999997	1.48865e-06	0.999998
rad38	1.36505e-06	0.999999	1.36505e-06	0.999999
PAH3+H	6.06189e-07	0.999999	6.06192e-07	1.000000
rad46	1.39483e-07	1.000000	1.39484e-07	1.000000
rad60syn	1.03783e-07	1.000000	1.03784e-07	1.000000
rad54	1.00667e-07	1.000000	1.00667e-07	1.000000
rad59	7.22572e-08	1.000000	7.22576e-08	1.000000
rad60anti	6.13423e-08	1.000000	6.13427e-08	1.000000
rad50	4.00796e-08	1.000000	4.00798e-08	1.000000
PAH1+H	3.94735e-08	1.000000	3.94737e-08	1.000000
rad43	2.87032e-08	1.000000	2.87034e-08	1.000000
rad70	1.65408e-08	1.000000	1.65409e-08	1.000000
rad55	5.38701e-09	1.000000	5.38704e-09	1.000000
rad51	4.77156e-09	1.000000	4.77158e-09	1.000000
rad62	3.44637e-09	1.000000	3.44639e-09	1.000000
rad9	3.27835e-09	1.000000	3.27836e-09	1.000000
rad34	2.67895e-09	1.000000	2.67895e-09	1.000000
rad52	2.25244e-09	1.000000	2.25245e-09	1.000000
rad58	2.20460e-09	1.000000	2.20461e-09	1.000000
rad61	1.06258e-09	1.000000	1.06259e-09	1.000000
rad41	6.91197e-10	1.000000	6.91200e-10	1.000000
rad53	4.12670e-10	1.000000	4.12672e-10	1.000000
rad56	2.12374e-10	1.000000	2.12376e-10	1.000000
rad64	1.54860e-10	1.000000	1.54861e-10	1.000000
rad65	1.50325e-10	1.000000	1.50326e-10	1.000000
rad42	1.03377e-10	1.000000	1.03378e-10	1.000000
PAH8+H	5.91240e-11	1.000000	5.91243e-11	1.000000
rad68syn	4.07146e-11	1.000000	4.07149e-11	1.000000
rad68anti	2.70955e-11	1.000000	2.70956e-11	1.000000
rad40syn	1.56743e-11	1.000000	1.56744e-11	1.000000
rad40anti	1.17167e-11	1.000000	1.17168e-11	1.000000
rad73	1.01716e-11	1.000000	1.01716e-11	1.000000
rad71	6.75822e-12	1.000000	6.75826e-12	1.000000
rad12	4.04566e-12	1.000000	4.04569e-12	1.000000
rad23	8.15661e-13	1.000000	8.15666e-13	1.000000
rad15	7.69551e-13	1.000000	7.69555e-13	1.000000
rad19anti	4.57501e-13	1.000000	4.57504e-13	1.000000
rad6	3.43979e-13	1.000000	3.43981e-13	1.000000
rad2	2.60945e-13	1.000000	2.60947e-13	1.000000

rad45	1.90908e-13	1.00000	1.90909e-13	1.00000
rad1	7.61051e-14	1.00000	7.61055e-14	1.00000
rad72	3.85213e-14	1.00000	3.85215e-14	1.00000
rad36	2.11621e-14	1.00000	2.11623e-14	1.00000
rad19syn	1.51735e-14	1.00000	1.51736e-14	1.00000
rad10	7.15685e-15	1.00000	7.15688e-15	1.00000
rad3	2.81161e-15	1.00000	2.81162e-15	1.00000
rad4	2.31811e-15	1.00000	2.31811e-15	1.00000
rad26	6.51343e-16	1.00000	6.51347e-16	1.00000
rad21	1.24322e-16	1.00000	1.24322e-16	1.00000
rad28	8.93664e-17	1.00000	8.93672e-17	1.00000
rad22	8.45043e-17	1.00000	8.45048e-17	1.00000
rad24	8.13234e-17	1.00000	8.13238e-17	1.00000
rad7	7.57688e-17	1.00000	7.57691e-17	1.00000
rad11	2.97059e-17	1.00000	2.97061e-17	1.00000
rad20	2.39466e-17	1.00000	2.39467e-17	1.00000
rad31	1.88478e-17	1.00000	1.88478e-17	1.00000
rad33	1.64507e-17	1.00000	1.64508e-17	1.00000
rad13	5.80730e-18	1.00000	5.80733e-18	1.00000
rad8	5.47272e-18	1.00000	5.47274e-18	1.00000
rad27	2.55982e-19	1.00000	2.55982e-19	1.00000
rad25	2.46540e-19	1.00000	2.46542e-19	1.00000
rad47	4.17567e-20	1.00000	4.17569e-20	1.00000
rad14	2.53975e-20	1.00000	2.53977e-20	1.00000
rad18	4.19976e-22	1.00000	4.19978e-22	1.00000
rad5	8.34326e-27	1.00000	8.34330e-27	1.00000

0.100000000E-02 Pa, 1000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.07591e-12 (1.00)	2.07587e-12 (1.00)
Formation of rad19	1.74189e-12 (0.839)	1.74186e-12 (0.839)
H-abstraction to cyc2enyl	2.68753e-13 (0.129)	2.68753e-13 (0.129)
H-abstraction to cyc1enyl	6.52627e-14 (0.0314)	6.52614e-14 (0.0314)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.799582	0.799582	0.799596	0.799596
Benzene+cycloprop-2-enylidene	0.129463	0.929045	0.129465	0.929061
PhCHCCH2+H	0.0345727	0.963618	0.0345733	0.963635
Benzene+cycloprop-1-enylidene	0.0314382	0.995056	0.0314381	0.995073
C2H2+PhCH2	0.00107013	0.996126	0.00107014	0.996143
Ph+MeAc	0.00105356	0.997180	0.00105357	0.997197
Ph+Allene	0.000856132	0.998036	0.000856147	0.998053
PhCCCH3+H	0.000518388	0.998554	0.000518397	0.998571
PhCH2CCH+H	0.000387330	0.998942	0.000387336	0.998958
PhCCH+CH3	0.000373412	0.999315	0.000373419	0.999332
rad67	0.000352154	0.999667	0.000352160	0.999684
rad35	0.000127506	0.999795	0.000127508	0.999812
PhcycC3H3_A+H	6.68788e-05	0.999862	6.68799e-05	0.999878
PhcycC3H3_B+H	3.94287e-05	0.999901	3.94294e-05	0.999918
PAH7+H	3.02070e-05	0.999931	3.02076e-05	0.999948
rad37	2.12565e-05	0.999953	2.12568e-05	0.999969
Phenyl+cycC3H4	1.68078e-05	0.999969	0.00000	0.999969
PAH10+CH3	1.12446e-05	0.999981	1.12448e-05	0.999981
rad39	5.81024e-06	0.999986	5.81034e-06	0.999986
rad30	4.04406e-06	0.999990	4.04413e-06	0.999990
PAH9+H	3.29362e-06	0.999994	3.29368e-06	0.999994
rad38	3.08261e-06	0.999997	3.08267e-06	0.999997
PAH3+H	1.54071e-06	0.999998	1.54074e-06	0.999998
rad46	3.42241e-07	0.999999	3.42247e-07	0.999999
rad54	2.28520e-07	0.999999	2.28525e-07	0.999999
rad60syn	2.23169e-07	0.999999	2.23174e-07	0.999999
rad59	1.76071e-07	0.999999	1.76074e-07	0.999999
rad60anti	1.33518e-07	1.000000	1.33520e-07	0.999999
rad50	1.25828e-07	1.000000	1.25830e-07	1.000000
PAH1+H	1.15144e-07	1.000000	1.15146e-07	1.000000
rad43	6.59877e-08	1.000000	6.59888e-08	1.000000
rad70	4.32138e-08	1.000000	4.32145e-08	1.000000
rad51	1.82054e-08	1.000000	1.82058e-08	1.000000
rad55	1.31137e-08	1.000000	1.31139e-08	1.000000
rad52	7.79301e-09	1.000000	7.79314e-09	1.000000
rad34	7.69227e-09	1.000000	7.69241e-09	1.000000
rad58	7.06667e-09	1.000000	7.06680e-09	1.000000
rad62	7.03941e-09	1.000000	7.03953e-09	1.000000
rad9	5.07046e-09	1.000000	5.07054e-09	1.000000
rad61	4.12279e-09	1.000000	4.12287e-09	1.000000
rad41	2.02449e-09	1.000000	2.02452e-09	1.000000
rad53	1.31433e-09	1.000000	1.31435e-09	1.000000

rad56	7.88439e-10	1.000000	7.88453e-10	1.000000
rad65	5.65117e-10	1.000000	5.65127e-10	1.000000
rad64	4.71858e-10	1.000000	4.71866e-10	1.000000
PAH8+H	3.09773e-10	1.000000	3.09778e-10	1.000000
rad42	2.59223e-10	1.000000	2.59227e-10	1.000000
rad68syn	1.64241e-10	1.000000	1.64244e-10	1.000000
rad68anti	1.08796e-10	1.000000	1.08797e-10	1.000000
rad40syn	7.30651e-11	1.000000	7.30663e-11	1.000000
rad73	6.66154e-11	1.000000	6.66165e-11	1.000000
rad40anti	5.52212e-11	1.000000	5.52221e-11	1.000000
rad71	5.19094e-11	1.000000	5.19104e-11	1.000000
rad12	7.27765e-12	1.000000	7.27778e-12	1.000000
rad15	1.22152e-12	1.000000	1.22154e-12	1.000000
rad23	8.07316e-13	1.000000	8.07330e-13	1.000000
rad72	4.47990e-13	1.000000	4.47998e-13	1.000000
rad19anti	3.42048e-13	1.000000	3.42054e-13	1.000000
rad6	2.18533e-13	1.000000	2.18538e-13	1.000000
rad45	2.16023e-13	1.000000	2.16026e-13	1.000000
rad2	2.11958e-13	1.000000	2.11962e-13	1.000000
rad1	6.21810e-14	1.000000	6.21821e-14	1.000000
rad36	2.28421e-14	1.000000	2.28425e-14	1.000000
rad19syn	1.42443e-14	1.000000	1.42446e-14	1.000000
rad10	6.56683e-15	1.000000	6.56695e-15	1.000000
rad21	2.11581e-15	1.000000	2.11585e-15	1.000000
rad3	2.11184e-15	1.000000	2.11188e-15	1.000000
rad4	1.73985e-15	1.000000	1.73988e-15	1.000000
rad8	6.27708e-16	1.000000	6.27719e-16	1.000000
rad20	4.93324e-16	1.000000	4.93333e-16	1.000000
rad26	4.64209e-16	1.000000	4.64218e-16	1.000000
rad24	3.61522e-16	1.000000	3.61529e-16	1.000000
rad33	2.31471e-16	1.000000	2.31476e-16	1.000000
rad13	2.23222e-16	1.000000	2.23227e-16	1.000000
rad22	9.26122e-17	1.000000	9.26144e-17	1.000000
rad7	7.30696e-17	1.000000	7.30710e-17	1.000000
rad28	6.31678e-17	1.000000	6.31689e-17	1.000000
rad11	4.24013e-17	1.000000	4.24021e-17	1.000000
rad31	2.18570e-17	1.000000	2.18575e-17	1.000000
rad25	7.69233e-18	1.000000	7.69247e-18	1.000000
rad27	5.65505e-18	1.000000	5.65514e-18	1.000000
rad14	4.08250e-19	1.000000	4.08257e-19	1.000000
rad47	1.62914e-19	1.000000	1.62917e-19	1.000000
rad18	4.71798e-20	1.000000	4.71806e-20	1.000000
rad5	9.78825e-26	1.000000	9.78840e-26	1.000000

0.100000000E-02 Pa, 1100.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.81236e-12 (1.00)	2.81222e-12 (1.00)
Formation of rad19	2.25993e-12 (0.804)	2.25980e-12 (0.804)
H-abstraction to cyc2enyl	4.30538e-13 (0.153)	4.30538e-13 (0.153)
H-abstraction to cyclenyl	1.21896e-13 (0.0433)	1.21889e-13 (0.0433)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.745455	0.745455	0.745493	0.745493
Benzene+cycloprop-2-enylidene	0.153088	0.898543	0.153095	0.898588
PhCHCCH2+H	0.0504085	0.948951	0.0504110	0.948999
Benzene+cycloprop-1-enylidene	0.0433429	0.992294	0.0433425	0.992342
Ph+MeAc	0.00159989	0.993894	0.00159997	0.993942
C2H2+PhCH2	0.00157394	0.995468	0.00157401	0.995516
Ph+Allene	0.00139377	0.996862	0.00139384	0.996909
PhCCCH3+H	0.000746146	0.997608	0.000746184	0.997656
PhCH2CCH+H	0.000685300	0.998293	0.000685334	0.998341
rad67	0.000551509	0.998845	0.000551537	0.998892
PhCCH+CH3	0.000499927	0.999345	0.000499952	0.999392
rad35	0.000198904	0.999544	0.000198914	0.999591
PhcycC3H3_A+H	0.000160985	0.999705	0.000160994	0.999752
PhcycC3H3_B+H	0.000108569	0.999813	0.000108575	0.999861
Phenyl+cycC3H4	4.74535e-05	0.999861	0.00000	0.999861
PAH7+H	4.44306e-05	0.999905	4.44328e-05	0.999905
rad37	3.57976e-05	0.999941	3.57994e-05	0.999941
PAH10+CH3	2.47740e-05	0.999966	2.47753e-05	0.999966
rad39	8.15502e-06	0.999974	8.15543e-06	0.999974
rad30	6.70503e-06	0.999981	6.70537e-06	0.999981
PAH9+H	6.62671e-06	0.999987	6.62704e-06	0.999987
rad38	6.20642e-06	0.999993	6.20673e-06	0.999994
PAH3+H	3.44989e-06	0.999997	3.45007e-06	0.999997
rad46	7.53035e-07	0.999998	7.53072e-07	0.999998
rad54	4.48843e-07	0.999998	4.48865e-07	0.999998

rad60syn	4.32688e-07	0.999998	4.32709e-07	0.999999
rad59	3.79560e-07	0.999999	3.79579e-07	0.999999
rad50	3.42343e-07	0.999999	3.42360e-07	0.999999
PAH1+H	2.85110e-07	1.000000	2.85124e-07	1.000000
rad60anti	2.61576e-07	1.000000	2.61589e-07	1.000000
rad43	1.34198e-07	1.000000	1.34204e-07	1.000000
rad70	9.71315e-08	1.000000	9.71362e-08	1.000000
rad51	5.83473e-08	1.000000	5.83503e-08	1.000000
rad55	2.73128e-08	1.000000	2.73142e-08	1.000000
rad52	2.29836e-08	1.000000	2.29848e-08	1.000000
rad58	1.92026e-08	1.000000	1.92035e-08	1.000000
rad34	1.87452e-08	1.000000	1.87461e-08	1.000000
rad61	1.28391e-08	1.000000	1.28398e-08	1.000000
rad62	1.28154e-08	1.000000	1.28161e-08	1.000000
rad41	5.04816e-09	1.000000	5.04841e-09	1.000000
rad9	4.34981e-09	1.000000	4.35003e-09	1.000000
rad53	3.43666e-09	1.000000	3.43683e-09	1.000000
rad56	2.33967e-09	1.000000	2.33979e-09	1.000000
rad65	1.78387e-09	1.000000	1.78396e-09	1.000000
PAH8+H	1.24983e-09	1.000000	1.24989e-09	1.000000
rad64	1.19311e-09	1.000000	1.19317e-09	1.000000
rad42	5.61779e-10	1.000000	5.61807e-10	1.000000
rad68syn	5.31782e-10	1.000000	5.31809e-10	1.000000
rad68anti	3.50892e-10	1.000000	3.50910e-10	1.000000
rad73	3.32931e-10	1.000000	3.32947e-10	1.000000
rad71	2.96174e-10	1.000000	2.96189e-10	1.000000
rad40syn	2.67663e-10	1.000000	2.67676e-10	1.000000
rad40anti	2.04459e-10	1.000000	2.04470e-10	1.000000
rad12	7.93745e-12	1.000000	7.93785e-12	1.000000
rad72	3.56788e-12	1.000000	3.56806e-12	1.000000
rad15	1.20872e-12	1.000000	1.20878e-12	1.000000
rad23	7.62638e-13	1.000000	7.62676e-13	1.000000
rad19anti	2.56276e-13	1.000000	2.56289e-13	1.000000
rad45	2.22285e-13	1.000000	2.22296e-13	1.000000
rad2	1.65554e-13	1.000000	1.65562e-13	1.000000
rad6	1.48364e-13	1.000000	1.48371e-13	1.000000
rad1	4.81612e-14	1.000000	4.81637e-14	1.000000
rad36	2.30552e-14	1.000000	2.30564e-14	1.000000
rad19syn	1.28391e-14	1.000000	1.28398e-14	1.000000
rad21	9.63745e-15	1.000000	9.63792e-15	1.000000
rad8	7.65079e-15	1.000000	7.65117e-15	1.000000
rad10	5.97132e-15	1.000000	5.97162e-15	1.000000
rad13	3.15807e-15	1.000000	3.15823e-15	1.000000
rad20	2.48674e-15	1.000000	2.48686e-15	1.000000
rad3	1.52865e-15	1.000000	1.52873e-15	1.000000
rad4	1.25387e-15	1.000000	1.25393e-15	1.000000
rad33	8.69068e-16	1.000000	8.69109e-16	1.000000
rad24	7.72326e-16	1.000000	7.72364e-16	1.000000
rad11	6.01485e-16	1.000000	6.01515e-16	1.000000
rad26	3.45349e-16	1.000000	3.45367e-16	1.000000
rad22	9.74248e-17	1.000000	9.74303e-17	1.000000
rad7	9.48903e-17	1.000000	9.48951e-17	1.000000
rad25	7.88064e-17	1.000000	7.88103e-17	1.000000
rad27	4.73457e-17	1.000000	4.73480e-17	1.000000
rad28	4.65177e-17	1.000000	4.65200e-17	1.000000
rad31	2.41068e-17	1.000000	2.41080e-17	1.000000
rad18	4.97646e-18	1.000000	4.97671e-18	1.000000
rad14	3.73867e-18	1.000000	3.73886e-18	1.000000
rad47	5.24238e-19	1.000000	5.24264e-19	1.000000
rad5	2.23451e-24	1.000000	2.23463e-24	1.000000

0.100000000E-02 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.72623e-12 (1.00)	3.72576e-12 (1.00)
Formation of rad19	2.86288e-12 (0.768)	2.86245e-12 (0.768)
H-abstraction to cyc2enyl	6.53266e-13 (0.175)	6.53266e-13 (0.175)
H-abstraction to cyc1enyl	2.10085e-13 (0.0564)	2.10053e-13 (0.0564)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.687506	0.687506	0.687593	0.687593
Benzene+cycloprop-2-enylidene	0.175315	0.862821	0.175337	0.862930
PhCHCCH2+H	0.0694470	0.932268	0.0694557	0.932386
Benzene+cycloprop-1-enylidene	0.0563801	0.988648	0.0563786	0.988764
Ph+MeAc	0.00227272	0.990921	0.00227301	0.991037
C2H2+PhCH2	0.00219121	0.993112	0.00219148	0.993229
Ph+Allene	0.00207994	0.995192	0.00208020	0.995309
PhCH2CCH+H	0.00110692	0.996299	0.00110706	0.996416

PhCCCH3+H	0.00101200	0.997311	0.00101213	0.997428
rad67	0.000806305	0.998117	0.000806406	0.998235
PhCCH+CH3	0.000645716	0.998763	0.000645798	0.998880
PhcycC3H3_A+H	0.000345598	0.999109	0.000345641	0.999226
rad35	0.000290169	0.999399	0.000290206	0.999516
PhcycC3H3_B+H	0.000261273	0.999660	0.000261306	0.999778
Phenyl+cycC3H4	0.000117514	0.999778	0.000000	0.999778
PAH7+H	6.09151e-05	0.999838	6.09229e-05	0.999839
rad37	5.50993e-05	0.999894	5.51063e-05	0.999894
PAH10+CH3	4.81021e-05	0.999942	4.81082e-05	0.999942
PAH9+H	1.22285e-05	0.999954	1.22300e-05	0.999954
rad38	1.12958e-05	0.999965	1.12972e-05	0.999965
rad39	1.06983e-05	0.999976	1.06996e-05	0.999976
rad30	1.03391e-05	0.999986	1.03403e-05	0.999986
PAH3+H	6.91380e-06	0.999993	6.91467e-06	0.999993
rad46	1.50176e-06	0.999995	1.50195e-06	0.999995
rad50	8.20642e-07	0.999995	8.20743e-07	0.999996
rad54	7.81497e-07	0.999996	7.81598e-07	0.999996
rad60syn	7.65102e-07	0.999997	7.65199e-07	0.999997
rad59	7.35019e-07	0.999998	7.35111e-07	0.999998
PAH1+H	6.15260e-07	0.999998	6.15338e-07	0.999998
rad60anti	4.66711e-07	0.999999	4.66769e-07	0.999999
rad43	2.45550e-07	0.999999	2.45581e-07	0.999999
rad70	1.92605e-07	0.999999	1.92629e-07	0.999999
rad51	1.60721e-07	0.999999	1.60741e-07	1.000000
rad52	5.89509e-08	1.000000	5.89584e-08	1.000000
rad55	4.99975e-08	1.000000	5.00038e-08	1.000000
rad58	4.53332e-08	1.000000	4.53390e-08	1.000000
rad34	3.98656e-08	1.000000	3.98706e-08	1.000000
rad61	3.33579e-08	1.000000	3.33622e-08	1.000000
rad62	2.11968e-08	1.000000	2.11994e-08	1.000000
rad41	1.09917e-08	1.000000	1.09931e-08	1.000000
rad53	7.65060e-09	1.000000	7.65157e-09	1.000000
rad56	5.79402e-09	1.000000	5.79475e-09	1.000000
rad65	4.84116e-09	1.000000	4.84176e-09	1.000000
PAH8+H	4.08165e-09	1.000000	4.08217e-09	1.000000
rad9	3.08822e-09	1.000000	3.08861e-09	1.000000
rad64	2.59994e-09	1.000000	2.60027e-09	1.000000
rad68syn	1.43966e-09	1.000000	1.43984e-09	1.000000
rad73	1.32832e-09	1.000000	1.32849e-09	1.000000
rad71	1.32077e-09	1.000000	1.32093e-09	1.000000
rad42	1.07985e-09	1.000000	1.07999e-09	1.000000
rad68anti	9.46805e-10	1.000000	9.46926e-10	1.000000
rad40syn	8.05967e-10	1.000000	8.06068e-10	1.000000
rad40anti	6.21771e-10	1.000000	6.21850e-10	1.000000
rad72	2.08622e-11	1.000000	2.08648e-11	1.000000
rad12	7.13603e-12	1.000000	7.13693e-12	1.000000
rad15	1.04113e-12	1.000000	1.04126e-12	1.000000
rad23	7.05466e-13	1.000000	7.05554e-13	1.000000
rad45	2.16968e-13	1.000000	2.16996e-13	1.000000
rad19anti	1.93811e-13	1.000000	1.93836e-13	1.000000
rad2	1.25586e-13	1.000000	1.25602e-13	1.000000
rad6	1.22969e-13	1.000000	1.22985e-13	1.000000
rad1	3.64295e-14	1.000000	3.64341e-14	1.000000
rad8	2.53541e-14	1.000000	2.53574e-14	1.000000
rad36	2.24112e-14	1.000000	2.24141e-14	1.000000
rad21	2.06286e-14	1.000000	2.06313e-14	1.000000
rad13	1.26226e-14	1.000000	1.26242e-14	1.000000
rad19syn	1.13955e-14	1.000000	1.13970e-14	1.000000
rad11	9.93610e-15	1.000000	9.93737e-15	1.000000
rad10	5.52369e-15	1.000000	5.52439e-15	1.000000
rad20	5.30484e-15	1.000000	5.30550e-15	1.000000
rad33	1.49700e-15	1.000000	1.49719e-15	1.000000
rad24	1.18501e-15	1.000000	1.18516e-15	1.000000
rad3	1.08528e-15	1.000000	1.08542e-15	1.000000
rad4	8.86216e-16	1.000000	8.86323e-16	1.000000
rad7	7.81158e-16	1.000000	7.81260e-16	1.000000
rad25	2.92602e-16	1.000000	2.92639e-16	1.000000
rad26	2.67666e-16	1.000000	2.67700e-16	1.000000
rad18	1.64377e-16	1.000000	1.64397e-16	1.000000
rad27	1.52396e-16	1.000000	1.52415e-16	1.000000
rad22	9.94540e-17	1.000000	9.94667e-17	1.000000
rad28	3.73660e-17	1.000000	3.73707e-17	1.000000
rad31	2.55729e-17	1.000000	2.55762e-17	1.000000
rad14	1.32770e-17	1.000000	1.32787e-17	1.000000
rad47	1.43379e-18	1.000000	1.43398e-18	1.000000
rad5	8.28632e-23	1.000000	8.28740e-23	1.000000

0.100000000E-02 Pa, 1300.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.84401e-12 (1.00)	4.84262e-12 (1.00)
Formation of rad19	3.55537e-12 (0.734)	3.55411e-12 (0.734)
H-abstraction to cyc2enyl	9.48893e-13 (0.196)	9.48893e-13 (0.196)
H-abstraction to cyc1enyl	3.39740e-13 (0.0701)	3.39620e-13 (0.0701)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.627161	0.627161	0.627340	0.627340
Benzene+cycloprop-2-enylidene	0.195890	0.823052	0.195946	0.823286
PhCHCCH2+H	0.0908777	0.913929	0.0909037	0.914190
Benzene+cycloprop-1-enylidene	0.0701362	0.984065	0.0701313	0.984321
Ph+MeAc	0.00304441	0.987110	0.00304527	0.987366
C2H2+PhCH2	0.00290372	0.990014	0.00290454	0.990271
Ph+Allene	0.00288470	0.992898	0.00288553	0.993157
PhCH2CCH+H	0.00165448	0.994553	0.00165495	0.994812
PhCCCH3+H	0.00130153	0.995854	0.00130190	0.996113
rad67	0.00110883	0.996963	0.00110915	0.997223
PhCCH+CH3	0.000809514	0.997773	0.000809751	0.998032
PhcycC3H3_A+H	0.000673391	0.998446	0.000673584	0.998706
PhcycC3H3_B+H	0.000561394	0.999007	0.000561554	0.999267
rad35	0.000398725	0.999406	0.000398838	0.999666
Phenyl+cycC3H4	0.000260506	0.999667	0.000000	0.999666
PAH10+CH3	8.38007e-05	0.999750	8.38250e-05	0.999750
PAH7+H	7.89117e-05	0.999829	7.89341e-05	0.999829
rad37	7.83568e-05	0.999908	7.83785e-05	0.999907
PAH9+H	2.08511e-05	0.999929	2.08571e-05	0.999928
rad38	1.88167e-05	0.999947	1.88221e-05	0.999947
rad30	1.49360e-05	0.999962	1.49402e-05	0.999962
rad39	1.33374e-05	0.999976	1.33412e-05	0.999975
PAH3+H	1.25732e-05	0.999988	1.25768e-05	0.999988
rad46	2.73965e-06	0.999991	2.74043e-06	0.999991
rad50	1.75696e-06	0.999993	1.75746e-06	0.999992
rad59	1.29584e-06	0.999994	1.29620e-06	0.999994
rad60syn	1.24692e-06	0.999995	1.24728e-06	0.999995
rad54	1.23055e-06	0.999996	1.23091e-06	0.999996
PAH1+H	1.18164e-06	0.999998	1.18197e-06	0.999997
rad60anti	7.66599e-07	0.999998	7.66824e-07	0.999998
rad43	4.10006e-07	0.999999	4.10123e-07	0.999999
rad51	3.87407e-07	0.999999	3.87517e-07	0.999999
rad70	3.43677e-07	1.000000	3.43776e-07	0.999999
rad52	1.33628e-07	1.000000	1.33666e-07	0.999999
rad58	9.48433e-08	1.000000	9.48705e-08	1.000000
rad55	8.22139e-08	1.000000	8.22375e-08	1.000000
rad34	7.56235e-08	1.000000	7.56454e-08	1.000000
rad61	7.45086e-08	1.000000	7.45298e-08	1.000000
rad62	3.23565e-08	1.000000	3.23657e-08	1.000000
rad41	2.13212e-08	1.000000	2.13273e-08	1.000000
rad53	1.49188e-08	1.000000	1.49231e-08	1.000000
rad56	1.23746e-08	1.000000	1.23782e-08	1.000000
rad65	1.15036e-08	1.000000	1.15069e-08	1.000000
PAH8+H	1.11832e-08	1.000000	1.11864e-08	1.000000
rad64	5.02551e-09	1.000000	5.02694e-09	1.000000
rad71	4.76254e-09	1.000000	4.76391e-09	1.000000
rad73	4.36515e-09	1.000000	4.36639e-09	1.000000
rad68syn	3.35946e-09	1.000000	3.36041e-09	1.000000
rad68anti	2.20311e-09	1.000000	2.20374e-09	1.000000
rad40syn	2.06131e-09	1.000000	2.06190e-09	1.000000
rad9	2.02930e-09	1.000000	2.02988e-09	1.000000
rad42	1.87919e-09	1.000000	1.87972e-09	1.000000
rad40anti	1.60444e-09	1.000000	1.60490e-09	1.000000
rad72	9.34620e-11	1.000000	9.34885e-11	1.000000
rad12	5.89854e-12	1.000000	5.90022e-12	1.000000
rad15	1.42938e-12	1.000000	1.42979e-12	1.000000
rad23	6.48684e-13	1.000000	6.48869e-13	1.000000
rad45	2.05114e-13	1.000000	2.05173e-13	1.000000
rad19anti	1.48394e-13	1.000000	1.48436e-13	1.000000
rad6	1.35944e-13	1.000000	1.35983e-13	1.000000
rad2	9.36213e-14	1.000000	9.36485e-14	1.000000
rad11	5.76701e-14	1.000000	5.76866e-14	1.000000
rad8	4.42248e-14	1.000000	4.42375e-14	1.000000
rad21	3.03537e-14	1.000000	3.03624e-14	1.000000
rad1	2.72920e-14	1.000000	2.72998e-14	1.000000
rad13	2.24572e-14	1.000000	2.24637e-14	1.000000
rad36	2.12479e-14	1.000000	2.12540e-14	1.000000
rad19syn	1.00706e-14	1.000000	1.00735e-14	1.000000
rad10	9.29746e-15	1.000000	9.30012e-15	1.000000
rad7	8.41501e-15	1.000000	8.41736e-15	1.000000
rad20	7.38187e-15	1.000000	7.38400e-15	1.000000

rad33	1.76734e-15	1.00000	1.76784e-15	1.000000
rad18	1.53631e-15	1.00000	1.53675e-15	1.000000
rad24	1.53474e-15	1.00000	1.53518e-15	1.000000
rad3	7.64404e-16	1.00000	7.64623e-16	1.000000
rad4	6.21129e-16	1.00000	6.21307e-16	1.000000
rad25	5.66800e-16	1.00000	5.66962e-16	1.000000
rad27	2.70876e-16	1.00000	2.70953e-16	1.000000
rad26	2.30283e-16	1.00000	2.30348e-16	1.000000
rad22	9.88215e-17	1.00000	9.88498e-17	1.000000
rad28	3.52744e-17	1.00000	3.52844e-17	1.000000
rad31	2.62744e-17	1.00000	2.62819e-17	1.000000
rad14	2.40863e-17	1.00000	2.40932e-17	1.000000
rad47	3.40948e-18	1.00000	3.41046e-18	1.000000
rad5	3.70950e-21	1.00000	3.71055e-21	1.000000

0.100000000E-02 Pa, 1400.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.19360e-12 (1.00)	6.18997e-12 (1.00)
Formation of rad19	4.34185e-12 (0.701)	4.33861e-12 (0.701)
H-abstraction to cyc2enyl	1.32990e-12 (0.215)	1.32990e-12 (0.215)
H-abstraction to cyc1enyl	5.21850e-13 (0.0843)	5.21461e-13 (0.0842)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.566028	0.566028	0.566360	0.566360
Benzene+cycloprop-2-enylidene	0.214721	0.780749	0.214847	0.781207
PhCHCCH2+H	0.113526	0.894275	0.113593	0.894800
Benzene+cycloprop-1-enylidene	0.0842564	0.978532	0.0842429	0.979043
Ph+MeAc	0.00387284	0.982405	0.00387511	0.982918
Ph+Allene	0.00376036	0.986165	0.00376256	0.986680
C2H2+PhCH2	0.00367929	0.989844	0.00368145	0.990362
PhCH2CCH+H	0.00231297	0.992157	0.00231433	0.992676
PhCCH3+H	0.00159640	0.993754	0.00159734	0.994274
rad67	0.00144409	0.995198	0.00144494	0.995719
PhcycC3H3_A+H	0.00120489	0.996403	0.00120559	0.996924
PhcycC3H3_B+H	0.00109183	0.997495	0.00109247	0.998017
PhCCH+CH3	0.000988680	0.998483	0.000989264	0.999006
Phenyl+cycC3H4	0.000523345	0.999007	0.000000	0.999006
rad35	0.000519418	0.999526	0.000519722	0.999526
PAH10+CH3	0.000132940	0.999659	0.000133019	0.999659
rad37	0.000103969	0.999763	0.000104030	0.999763
PAH7+H	9.76629e-05	0.999861	9.77202e-05	0.999860
PAH9+H	3.30451e-05	0.999894	3.30646e-05	0.999893
rad38	2.89869e-05	0.999923	2.90039e-05	0.999922
PAH3+H	2.09773e-05	0.999944	2.09896e-05	0.999943
rad30	2.03484e-05	0.999964	2.03603e-05	0.999964
rad39	1.60326e-05	0.999980	1.60420e-05	0.999980
rad46	4.60489e-06	0.999985	4.60759e-06	0.999984
rad50	3.39256e-06	0.999988	3.39455e-06	0.999988
rad59	2.10237e-06	0.999990	2.10360e-06	0.999990
PAH1+H	2.05214e-06	0.999992	2.05334e-06	0.999992
rad60syn	1.88965e-06	0.999994	1.89076e-06	0.999994
rad54	1.78086e-06	0.999996	1.78190e-06	0.999996
rad60anti	1.16973e-06	0.999997	1.17042e-06	0.999997
rad51	8.27129e-07	0.999998	8.27613e-07	0.999998
rad43	6.31782e-07	0.999998	6.32153e-07	0.999998
rad70	5.60217e-07	0.999999	5.60546e-07	0.999999
rad52	2.70713e-07	0.999999	2.70872e-07	0.999999
rad58	1.78428e-07	0.999999	1.78532e-07	0.999999
rad61	1.46278e-07	1.000000	1.46363e-07	0.999999
rad34	1.30056e-07	1.000000	1.30132e-07	1.000000
rad55	1.23571e-07	1.000000	1.23644e-07	1.000000
rad62	4.61529e-08	1.000000	4.61799e-08	1.000000
rad41	3.74002e-08	1.000000	3.74221e-08	1.000000
PAH8+H	2.63149e-08	1.000000	2.63303e-08	1.000000
rad53	2.60384e-08	1.000000	2.60537e-08	1.000000
rad65	2.42340e-08	1.000000	2.42482e-08	1.000000
rad56	2.33522e-08	1.000000	2.33659e-08	1.000000
rad71	1.41523e-08	1.000000	1.41606e-08	1.000000
rad73	1.20323e-08	1.000000	1.20393e-08	1.000000
rad64	8.79755e-09	1.000000	8.80273e-09	1.000000
rad68syn	6.90097e-09	1.000000	6.90502e-09	1.000000
rad40syn	4.57744e-09	1.000000	4.58013e-09	1.000000
rad68anti	4.51464e-09	1.000000	4.51729e-09	1.000000
rad40anti	3.59045e-09	1.000000	3.59256e-09	1.000000
rad42	3.00666e-09	1.000000	3.00843e-09	1.000000
rad9	1.29172e-09	1.000000	1.29248e-09	1.000000
rad72	3.28506e-10	1.000000	3.28699e-10	1.000000

rad12	4.68957e-12	1.00000	4.69232e-12	1.000000
rad15	3.91901e-12	1.00000	3.92131e-12	1.000000
rad23	5.95464e-13	1.00000	5.95813e-13	1.000000
rad45	1.89643e-13	1.00000	1.89754e-13	1.000000
rad6	1.71321e-13	1.00000	1.71422e-13	1.000000
rad11	1.45883e-13	1.00000	1.45969e-13	1.000000
rad19anti	1.15118e-13	1.00000	1.15186e-13	1.000000
rad2	6.92760e-14	1.00000	6.93166e-14	1.000000
rad8	5.66687e-14	1.00000	5.67019e-14	1.000000
rad21	3.67060e-14	1.00000	3.67276e-14	1.000000
rad7	3.52764e-14	1.00000	3.52971e-14	1.000000
rad10	2.67594e-14	1.00000	2.67752e-14	1.000000
rad13	2.61033e-14	1.00000	2.61186e-14	1.000000
rad1	2.03982e-14	1.00000	2.04101e-14	1.000000
rad36	1.97582e-14	1.00000	1.97697e-14	1.000000
rad19syn	8.90593e-15	1.00000	8.91116e-15	1.000000
rad20	8.28840e-15	1.00000	8.29331e-15	1.000000
rad18	5.38029e-15	1.00000	5.38344e-15	1.000000
rad24	1.80313e-15	1.00000	1.80420e-15	1.000000
rad33	1.72626e-15	1.00000	1.72727e-15	1.000000
rad25	7.72646e-16	1.00000	7.73104e-16	1.000000
rad3	5.37925e-16	1.00000	5.38240e-16	1.000000
rad26	4.52292e-16	1.00000	4.52557e-16	1.000000
rad4	4.34342e-16	1.00000	4.34596e-16	1.000000
rad27	3.50747e-16	1.00000	3.50953e-16	1.000000
rad22	9.59952e-17	1.00000	9.60513e-17	1.000000
rad28	4.11062e-17	1.00000	4.11303e-17	1.000000
rad14	3.02593e-17	1.00000	3.02771e-17	1.000000
rad31	2.62635e-17	1.00000	2.62789e-17	1.000000
rad47	7.15113e-18	1.00000	7.15531e-18	1.000000
rad5	1.41222e-19	1.00000	1.41305e-19	1.000000

0.100000000E-02 Pa, 1500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.80417e-12 (1.00)	7.79561e-12 (1.00)
Formation of rad19	5.22661e-12 (0.670)	5.21915e-12 (0.669)
H-abstraction to cyc2enyl	1.80920e-12 (0.232)	1.80920e-12 (0.232)
H-abstraction to cyclenyl	7.68359e-13 (0.0985)	7.67262e-13 (0.0984)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.505870	0.505870	0.506425	0.506425
Benzene+cycloprop-2-enylidene	0.231825	0.737695	0.232079	0.738505
PhCHCCH2+H	0.135967	0.873662	0.136116	0.874621
Benzene+cycloprop-1-enylidene	0.0984549	0.972117	0.0984223	0.973043
Ph+MeAc	0.00470570	0.976823	0.00471086	0.977754
Ph+Allene	0.00464760	0.981470	0.00465271	0.982407
C2H2+PhCH2	0.00447301	0.985943	0.00447791	0.986885
PhCH2CCH+H	0.00304819	0.988991	0.00305154	0.989936
PhcycC3H3_A+H	0.00198976	0.990981	0.00199195	0.991928
PhcycC3H3_B+H	0.00193280	0.992914	0.00193492	0.993863
PhCCCH3+H	0.00187667	0.994791	0.00187873	0.995742
rad67	0.00179097	0.996582	0.00179294	0.997535
PhCCH+CH3	0.00117783	0.997759	0.00117912	0.998714
Phenyl+cycC3H4	0.000956146	0.998716	0.000000	0.998714
rad35	0.000644848	0.999360	0.000645555	0.999360
PAH10+CH3	0.000194190	0.999555	0.000194404	0.999554
rad37	0.000129807	0.999684	0.000129949	0.999684
PAH7+H	0.000116417	0.999801	0.000116546	0.999800
PAH9+H	4.88535e-05	0.999850	4.89071e-05	0.999849
rad38	4.16011e-05	0.999891	4.16467e-05	0.999891
PAH3+H	3.23374e-05	0.999924	3.23729e-05	0.999923
rad30	2.62808e-05	0.999950	2.63097e-05	0.999950
rad39	1.87895e-05	0.999969	1.88102e-05	0.999968
rad46	7.16199e-06	0.999976	7.16986e-06	0.999976
rad50	5.93797e-06	0.999982	5.94449e-06	0.999982
PAH1+H	3.25722e-06	0.999985	3.26081e-06	0.999985
rad59	3.16156e-06	0.999988	3.16503e-06	0.999988
rad60syn	2.67968e-06	0.999991	2.68262e-06	0.999991
rad54	2.39838e-06	0.999993	2.40102e-06	0.999993
rad60anti	1.66867e-06	0.999995	1.67050e-06	0.999995
rad51	1.57342e-06	0.999996	1.57515e-06	0.999996
rad43	9.05576e-07	0.999997	9.06568e-07	0.999997
rad70	8.42763e-07	0.999998	8.43688e-07	0.999998
rad52	4.92950e-07	0.999999	4.93491e-07	0.999999
rad58	3.04448e-07	0.999999	3.04782e-07	0.999999
rad61	2.56145e-07	0.999999	2.56426e-07	0.999999
rad34	2.04934e-07	1.000000	2.05159e-07	0.999999

rad55	1.72012e-07	1.000000	1.72201e-07	1.000000
rad62	6.20586e-08	1.000000	6.21267e-08	1.000000
rad41	5.99063e-08	1.000000	5.99721e-08	1.000000
PAH8+H	5.38671e-08	1.000000	5.39262e-08	1.000000
rad65	4.55485e-08	1.000000	4.55985e-08	1.000000
rad53	4.12866e-08	1.000000	4.13319e-08	1.000000
rad56	3.95671e-08	1.000000	3.96106e-08	1.000000
rad71	3.49994e-08	1.000000	3.50378e-08	1.000000
rad73	2.80690e-08	1.000000	2.80999e-08	1.000000
rad64	1.41255e-08	1.000000	1.41409e-08	1.000000
rad68syn	1.26336e-08	1.000000	1.26475e-08	1.000000
rad40syn	8.93581e-09	1.000000	8.94564e-09	1.000000
rad68anti	8.24821e-09	1.000000	8.25726e-09	1.000000
rad40anti	7.05383e-09	1.000000	7.06153e-09	1.000000
rad42	4.46777e-09	1.000000	4.47268e-09	1.000000
rad72	9.20557e-10	1.000000	9.21571e-10	1.000000
rad9	8.15900e-10	1.000000	8.16795e-10	1.000000
rad15	7.63026e-12	1.000000	7.63864e-12	1.000000
rad12	3.66370e-12	1.000000	3.66773e-12	1.000000
rad23	5.42666e-13	1.000000	5.43262e-13	1.000000
rad11	2.21533e-13	1.000000	2.21775e-13	1.000000
rad6	2.16945e-13	1.000000	2.17184e-13	1.000000
rad45	1.72305e-13	1.000000	1.72494e-13	1.000000
rad19anti	9.04718e-14	1.000000	9.05717e-14	1.000000
rad7	7.09093e-14	1.000000	7.09876e-14	1.000000
rad8	6.24614e-14	1.000000	6.25300e-14	1.000000
rad10	5.52720e-14	1.000000	5.53327e-14	1.000000
rad2	5.11887e-14	1.000000	5.12449e-14	1.000000
rad21	3.97612e-14	1.000000	3.98048e-14	1.000000
rad13	2.43544e-14	1.000000	2.43812e-14	1.000000
rad36	1.80711e-14	1.000000	1.80910e-14	1.000000
rad1	1.52675e-14	1.000000	1.52843e-14	1.000000
rad18	1.01414e-14	1.000000	1.01526e-14	1.000000
rad20	8.29649e-15	1.000000	8.30560e-15	1.000000
rad19syn	7.89908e-15	1.000000	7.90771e-15	1.000000
rad26	2.98602e-15	1.000000	2.98930e-15	1.000000
rad24	1.99082e-15	1.000000	1.99301e-15	1.000000
rad33	1.52243e-15	1.000000	1.52410e-15	1.000000
rad25	8.67515e-16	1.000000	8.68467e-16	1.000000
rad27	3.81187e-16	1.000000	3.81605e-16	1.000000
rad3	3.79873e-16	1.000000	3.80290e-16	1.000000
rad4	3.04143e-16	1.000000	3.04478e-16	1.000000
rad22	1.20309e-16	1.000000	1.20441e-16	1.000000
rad28	9.19472e-17	1.000000	9.20480e-17	1.000000
rad14	3.12718e-17	1.000000	3.13061e-17	1.000000
rad31	2.56266e-17	1.000000	2.56547e-17	1.000000
rad47	1.33181e-17	1.000000	1.33327e-17	1.000000
rad5	3.32915e-18	1.000000	3.33280e-18	1.000000

0.100000000E-03 Pa, 20.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.24541e-22 (1.00)	1.24541e-22 (1.00)
Formation of rad19	1.24541e-22 (1.00)	1.24541e-22 (1.00)
H-abstraction to cyc2enyl	3.84323e-68 (3.09e-46)	3.84323e-68 (3.09e-46)
H-abstraction to cyclenyl	6.26313e-106 (5.03e-84)	6.26313e-106 (5.03e-84)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999772	0.999772	0.999772	0.999772
PhCHCCH2+H	0.000217188	0.999989	0.000217188	0.999989
PhCCH+CH3	3.74982e-06	0.999993	3.74982e-06	0.999993
C2H2+PhCH2	2.66054e-06	0.999996	2.66054e-06	0.999996
PhCCCH3+H	2.10742e-06	0.999998	2.10742e-06	0.999998
Ph+MeAc	1.55531e-06	0.999999	1.55531e-06	0.999999
rad67	4.72011e-07	1.000000	4.72011e-07	1.000000
rad35	2.09057e-07	1.000000	2.09057e-07	1.000000
Ph+Allene	1.34591e-07	1.000000	1.34591e-07	1.000000
PAH7+H	1.78319e-08	1.000000	1.78319e-08	1.000000
PhCH2CCH+H	1.63526e-08	1.000000	1.63526e-08	1.000000
rad39	5.02864e-09	1.000000	5.02864e-09	1.000000
rad37	4.62661e-09	1.000000	4.62661e-09	1.000000
rad30	3.90772e-09	1.000000	3.90772e-09	1.000000
PAH9+H	2.53908e-10	1.000000	2.53908e-10	1.000000
rad38	1.06917e-10	1.000000	1.06917e-10	1.000000
rad60syn	1.69313e-11	1.000000	1.69313e-11	1.000000
rad60anti	8.26525e-12	1.000000	8.26525e-12	1.000000
PAH3+H	6.72117e-12	1.000000	6.72117e-12	1.000000
rad46	6.42418e-12	1.000000	6.42418e-12	1.000000

PAH10+CH3	5.52847e-12	1.00000	5.52847e-12	1.00000
rad59	1.39460e-12	1.00000	1.39460e-12	1.00000
PhcycC3H3_A+H	4.13670e-13	1.00000	4.13670e-13	1.00000
rad43	2.58790e-13	1.00000	2.58790e-13	1.00000
rad54	2.05615e-13	1.00000	2.05615e-13	1.00000
rad62	5.54189e-14	1.00000	5.54189e-14	1.00000
rad50	4.23119e-14	1.00000	4.23119e-14	1.00000
rad70	3.14077e-15	1.00000	3.14077e-15	1.00000
rad55	1.37668e-15	1.00000	1.37668e-15	1.00000
PAH1+H	5.58140e-16	1.00000	5.58140e-16	1.00000
rad52	2.67660e-16	1.00000	2.67660e-16	1.00000
rad58	7.50158e-17	1.00000	7.50158e-17	1.00000
rad51	6.49246e-17	1.00000	6.49246e-17	1.00000
rad34	2.90719e-17	1.00000	2.90719e-17	1.00000
Phenyl+cycC3H4	2.77347e-17	1.00000	0.00000	1.00000
rad42	3.04704e-18	1.00000	3.04704e-18	1.00000
rad41	2.76363e-18	1.00000	2.76363e-18	1.00000
rad65	1.27621e-18	1.00000	1.27621e-18	1.00000
rad6	7.05671e-20	1.00000	7.05671e-20	1.00000
rad28	6.51335e-23	1.00000	6.51335e-23	1.00000
rad2	3.81583e-23	1.00000	3.81583e-23	1.00000
rad26	8.05172e-24	1.00000	8.05172e-24	1.00000
rad7	5.33670e-24	1.00000	5.33670e-24	1.00000
rad1	2.41034e-24	1.00000	2.41034e-24	1.00000
rad10	1.95884e-24	1.00000	1.95884e-24	1.00000
rad11	1.32214e-24	1.00000	1.32214e-24	1.00000
rad3	2.40831e-25	1.00000	2.40831e-25	1.00000
rad4	1.21637e-25	1.00000	1.21637e-25	1.00000
rad13	2.81254e-26	1.00000	2.81254e-26	1.00000
PhcycC3H3_B+H	2.48384e-27	1.00000	2.48384e-27	1.00000
rad53	1.12520e-28	1.00000	1.12520e-28	1.00000
rad9	1.04992e-28	1.00000	1.04992e-28	1.00000
rad47	5.37034e-29	1.00000	5.37034e-29	1.00000
rad33	5.27980e-29	1.00000	5.27980e-29	1.00000
rad14	2.85829e-29	1.00000	2.85829e-29	1.00000
rad27	2.22496e-29	1.00000	2.22496e-29	1.00000
rad25	1.92634e-29	1.00000	1.92634e-29	1.00000
rad64	4.93429e-31	1.00000	4.93429e-31	1.00000
rad23	7.42782e-32	1.00000	7.42782e-32	1.00000
rad15	4.53689e-32	1.00000	4.53689e-32	1.00000
rad5	1.22699e-32	1.00000	1.22699e-32	1.00000
rad19anti	1.76257e-33	1.00000	1.76257e-33	1.00000
rad31	6.84695e-34	1.00000	6.84695e-34	1.00000
rad45	6.40022e-34	1.00000	6.40022e-34	1.00000
rad20	1.26352e-34	1.00000	1.26352e-34	1.00000
rad21	9.29249e-35	1.00000	9.29249e-35	1.00000
rad22	4.47216e-35	1.00000	4.47216e-35	1.00000
rad36	3.92547e-35	1.00000	3.92547e-35	1.00000
rad18	5.95429e-37	1.00000	5.95429e-37	1.00000
rad12	4.92745e-37	1.00000	4.92745e-37	1.00000
rad61	5.04120e-38	1.00000	5.04120e-38	1.00000
rad56	3.42583e-40	1.00000	3.42583e-40	1.00000
rad24	1.38456e-41	1.00000	1.38456e-41	1.00000
rad68syn	2.58422e-42	1.00000	2.58422e-42	1.00000
rad68anti	2.21157e-42	1.00000	2.21157e-42	1.00000
rad19syn	1.37416e-43	1.00000	1.37416e-43	1.00000
Benzene+cycloprop-2-enylidene	3.08591e-46	1.00000	3.08591e-46	1.00000
rad73	2.10794e-50	1.00000	2.10794e-50	1.00000
rad40syn	2.95060e-51	1.00000	2.95060e-51	1.00000
rad40anti	2.43130e-51	1.00000	2.43130e-51	1.00000
PAH8+H	1.12919e-55	1.00000	1.12919e-55	1.00000
rad71	3.55939e-59	1.00000	3.55939e-59	1.00000
rad8	2.40476e-63	1.00000	2.40476e-63	1.00000
Benzene+cycloprop-1-enylidene	5.02895e-84	1.00000	5.02895e-84	1.00000

0.100000000E-03 Pa, 30.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.13009e-20 (1.00)	8.13009e-20 (1.00)
Formation of rad19	8.13009e-20 (1.00)	8.13009e-20 (1.00)
H-abstraction to cyc2enyl	1.08880e-49 (1.34e-30)	1.08880e-49 (1.34e-30)
H-abstraction to cyclenyl	7.55172e-75 (9.29e-56)	7.55172e-75 (9.29e-56)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999770	0.999770	0.999770	0.999770
PhCHCCH2+H	0.000218739	0.999989	0.000218739	0.999989
PhCCH+CH3	3.77917e-06	0.999993	3.77917e-06	0.999993
C2H2+PhCH2	2.68532e-06	0.999995	2.68532e-06	0.999995

PhCCCH3+H	2.12542e-06	0.999997	2.12542e-06	0.999997
Ph+MeAc	1.57149e-06	0.999999	1.57149e-06	0.999999
rad67	4.76657e-07	0.999999	4.76657e-07	0.999999
rad35	2.11030e-07	1.000000	2.11030e-07	1.000000
Ph+Allene	1.36475e-07	1.000000	1.36475e-07	1.000000
PAH7+H	1.80463e-08	1.000000	1.80463e-08	1.000000
PhCH2CCH+H	1.66180e-08	1.000000	1.66180e-08	1.000000
rad39	5.08931e-09	1.000000	5.08931e-09	1.000000
rad37	4.68496e-09	1.000000	4.68496e-09	1.000000
rad30	3.94534e-09	1.000000	3.94534e-09	1.000000
PAH9+H	2.57081e-10	1.000000	2.57081e-10	1.000000
rad38	1.08374e-10	1.000000	1.08374e-10	1.000000
rad60syn	1.71585e-11	1.000000	1.71585e-11	1.000000
rad60anti	8.37897e-12	1.000000	8.37897e-12	1.000000
PAH3+H	6.84307e-12	1.000000	6.84307e-12	1.000000
rad46	6.51872e-12	1.000000	6.51872e-12	1.000000
PAH10+CH3	5.67104e-12	1.000000	5.67104e-12	1.000000
rad59	1.41892e-12	1.000000	1.41892e-12	1.000000
PhcycC3H3_A+H	4.42418e-13	1.000000	4.42418e-13	1.000000
rad43	2.64733e-13	1.000000	2.64733e-13	1.000000
rad54	2.10918e-13	1.000000	2.10918e-13	1.000000
rad62	5.67445e-14	1.000000	5.67445e-14	1.000000
rad50	4.32162e-14	1.000000	4.32162e-14	1.000000
rad70	3.24678e-15	1.000000	3.24678e-15	1.000000
rad55	1.42431e-15	1.000000	1.42431e-15	1.000000
PAH1+H	5.84622e-16	1.000000	5.84622e-16	1.000000
rad52	2.74742e-16	1.000000	2.74742e-16	1.000000
rad58	7.77894e-17	1.000000	7.77894e-17	1.000000
rad51	6.70457e-17	1.000000	6.70457e-17	1.000000
Phenyl+cycC3H4	5.25631e-17	1.000000	0.00000	1.000000
rad34	3.05572e-17	1.000000	3.05572e-17	1.000000
rad42	3.20788e-18	1.000000	3.20788e-18	1.000000
rad41	2.96166e-18	1.000000	2.96166e-18	1.000000
rad65	1.32203e-18	1.000000	1.32203e-18	1.000000
rad6	3.17325e-21	1.000000	3.17325e-21	1.000000
rad28	3.15242e-24	1.000000	3.15242e-24	1.000000
rad2	1.59157e-24	1.000000	1.59157e-24	1.000000
rad26	3.88789e-25	1.000000	3.88789e-25	1.000000
rad7	2.34888e-25	1.000000	2.34888e-25	1.000000
rad1	1.00588e-25	1.000000	1.00588e-25	1.000000
rad10	8.08642e-26	1.000000	8.08642e-26	1.000000
rad11	5.80191e-26	1.000000	5.80191e-26	1.000000
rad3	9.99333e-27	1.000000	9.99333e-27	1.000000
rad4	5.04791e-27	1.000000	5.04791e-27	1.000000
PhcycC3H3_B+H	1.91387e-27	1.000000	1.91387e-27	1.000000
rad13	1.26509e-27	1.000000	1.26509e-27	1.000000
rad53	8.33623e-29	1.000000	8.33623e-29	1.000000
rad47	2.66378e-29	1.000000	2.66378e-29	1.000000
rad9	7.43481e-30	1.000000	7.43481e-30	1.000000
rad33	2.37571e-30	1.000000	2.37571e-30	1.000000
Benzene+cycloprop-2-enylidene	1.33923e-30	1.000000	1.33923e-30	1.000000
rad14	1.31613e-30	1.000000	1.31613e-30	1.000000
rad27	9.60487e-31	1.000000	9.60487e-31	1.000000
rad25	8.88784e-31	1.000000	8.88784e-31	1.000000
rad64	3.67899e-31	1.000000	3.67899e-31	1.000000
rad15	3.21345e-33	1.000000	3.21345e-33	1.000000
rad5	2.23116e-33	1.000000	2.23116e-33	1.000000
rad19anti	9.44048e-34	1.000000	9.44048e-34	1.000000
rad23	5.65328e-34	1.000000	5.65328e-34	1.000000
rad31	2.87754e-35	1.000000	2.87754e-35	1.000000
rad20	5.72256e-36	1.000000	5.72256e-36	1.000000
rad45	4.55967e-36	1.000000	4.55967e-36	1.000000
rad21	4.21149e-36	1.000000	4.21149e-36	1.000000
rad22	5.07383e-37	1.000000	5.07383e-37	1.000000
rad36	2.79611e-37	1.000000	2.79611e-37	1.000000
rad61	3.99867e-38	1.000000	3.99867e-38	1.000000
rad12	3.49320e-38	1.000000	3.49320e-38	1.000000
rad18	2.51264e-38	1.000000	2.51264e-38	1.000000
rad56	2.64182e-40	1.000000	2.64182e-40	1.000000
rad68syn	2.00866e-42	1.000000	2.00866e-42	1.000000
rad68anti	1.71858e-42	1.000000	1.71858e-42	1.000000
rad24	2.17080e-43	1.000000	2.17080e-43	1.000000
rad19syn	8.38610e-44	1.000000	8.38610e-44	1.000000
rad73	1.68406e-50	1.000000	1.68406e-50	1.000000
rad40syn	2.57877e-51	1.000000	2.57877e-51	1.000000
rad40anti	2.12476e-51	1.000000	2.12476e-51	1.000000
PAH8+H	1.00940e-55	1.000000	1.00940e-55	1.000000
Benzene+cycloprop-1-enylidene	9.28861e-56	1.000000	9.28861e-56	1.000000
rad71	2.99028e-59	1.000000	2.99028e-59	1.000000
rad8	1.26743e-63	1.000000	1.26743e-63	1.000000

0.100000000E-03 Pa, 40.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.24819e-18 (1.00)	2.24819e-18 (1.00)
Formation of rad19	2.24819e-18 (1.00)	2.24819e-18 (1.00)
H-abstraction to cyc2enyl	1.72361e-40 (7.67e-23)	1.72361e-40 (7.67e-23)
H-abstraction to cyclenyl	2.48792e-59 (1.11e-41)	2.48792e-59 (1.11e-41)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999767	0.999767	0.999767	0.999767
PhCHCCH2+H	0.000221747	0.999989	0.000221747	0.999989
PhCCH+CH3	3.83601e-06	0.999993	3.83601e-06	0.999993
C2H2+PhCH2	2.73332e-06	0.999995	2.73332e-06	0.999995
PhCCCH3+H	2.16037e-06	0.999997	2.16037e-06	0.999997
Ph+MeAc	1.60298e-06	0.999999	1.60298e-06	0.999999
rad67	4.85696e-07	1.000000	4.85696e-07	1.000000
rad35	2.14866e-07	1.000000	2.14866e-07	1.000000
Ph+Allene	1.40123e-07	1.000000	1.40123e-07	1.000000
PAH7+H	1.84602e-08	1.000000	1.84602e-08	1.000000
PhCH2CCH+H	1.71333e-08	1.000000	1.71333e-08	1.000000
rad39	5.20646e-09	1.000000	5.20646e-09	1.000000
rad37	4.79884e-09	1.000000	4.79884e-09	1.000000
rad30	4.01850e-09	1.000000	4.01850e-09	1.000000
PAH9+H	2.63239e-10	1.000000	2.63239e-10	1.000000
rad38	1.11208e-10	1.000000	1.11208e-10	1.000000
rad60syn	1.76024e-11	1.000000	1.76024e-11	1.000000
rad60anti	8.60125e-12	1.000000	8.60125e-12	1.000000
PAH3+H	7.08270e-12	1.000000	7.08270e-12	1.000000
rad46	6.70250e-12	1.000000	6.70250e-12	1.000000
PAH10+CH3	5.95394e-12	1.000000	5.95394e-12	1.000000
rad59	1.46669e-12	1.000000	1.46669e-12	1.000000
PhcycC3H3_A+H	5.01392e-13	1.000000	5.01392e-13	1.000000
rad43	2.76474e-13	1.000000	2.76474e-13	1.000000
rad54	2.21305e-13	1.000000	2.21305e-13	1.000000
rad62	5.93595e-14	1.000000	5.93595e-14	1.000000
rad50	4.49875e-14	1.000000	4.49875e-14	1.000000
rad70	3.45711e-15	1.000000	3.45711e-15	1.000000
rad55	1.51845e-15	1.000000	1.51845e-15	1.000000
PAH1+H	6.38275e-16	1.000000	6.38275e-16	1.000000
rad52	2.88701e-16	1.000000	2.88701e-16	1.000000
Phenyl+cycC3H4	1.15738e-16	1.000000	0.000000	1.000000
rad58	8.33636e-17	1.000000	8.33636e-17	1.000000
rad51	7.12616e-17	1.000000	7.12616e-17	1.000000
rad34	3.35108e-17	1.000000	3.35108e-17	1.000000
rad42	3.55402e-18	1.000000	3.55402e-18	1.000000
rad41	3.38707e-18	1.000000	3.38707e-18	1.000000
rad65	1.41344e-18	1.000000	1.41344e-18	1.000000
rad6	5.85420e-22	1.000000	5.85420e-22	1.000000
Benzene+cycloprop-2-enylidene	7.66665e-23	1.000000	7.66665e-23	1.000000
PhcycC3H3_B+H	8.34135e-25	1.000000	8.34135e-25	1.000000
rad28	6.18208e-25	1.000000	6.18208e-25	1.000000
rad2	2.82327e-25	1.000000	2.82327e-25	1.000000
rad26	7.86128e-26	1.000000	7.86128e-26	1.000000
rad7	4.30016e-26	1.000000	4.30016e-26	1.000000
rad1	1.78632e-26	1.000000	1.78632e-26	1.000000
rad10	1.42977e-26	1.000000	1.42977e-26	1.000000
rad11	1.06072e-26	1.000000	1.06072e-26	1.000000
rad3	1.77095e-27	1.000000	1.77095e-27	1.000000
rad4	8.94760e-28	1.000000	8.94760e-28	1.000000
rad13	2.33606e-28	1.000000	2.33606e-28	1.000000
rad53	1.47801e-28	1.000000	1.47801e-28	1.000000
rad47	1.79847e-29	1.000000	1.79847e-29	1.000000
rad9	1.88075e-30	1.000000	1.88075e-30	1.000000
rad64	5.57634e-31	1.000000	5.57634e-31	1.000000
rad33	4.38883e-31	1.000000	4.38883e-31	1.000000
rad14	2.54155e-31	1.000000	2.54155e-31	1.000000
rad27	1.75192e-31	1.000000	1.75192e-31	1.000000
rad25	1.69858e-31	1.000000	1.69858e-31	1.000000
rad5	8.78473e-34	1.000000	8.78473e-34	1.000000
rad15	8.13453e-34	1.000000	8.13453e-34	1.000000
rad19anti	7.57842e-34	1.000000	7.57842e-34	1.000000
rad23	4.12261e-35	1.000000	4.12261e-35	1.000000
rad31	5.18560e-36	1.000000	5.18560e-36	1.000000
rad20	1.07816e-36	1.000000	1.07816e-36	1.000000
rad21	7.94116e-37	1.000000	7.94116e-37	1.000000
rad45	3.21315e-37	1.000000	3.21315e-37	1.000000
rad61	6.80485e-38	1.000000	6.80485e-38	1.000000

rad22	4.93640e-38	1.000000	4.93640e-38	1.000000
rad36	1.96972e-38	1.000000	1.96972e-38	1.000000
rad12	8.85772e-39	1.000000	8.85772e-39	1.000000
rad18	4.63116e-39	1.000000	4.63116e-39	1.000000
rad56	4.30865e-40	1.000000	4.30865e-40	1.000000
Benzene+cycloprop-1-enylidene	1.10663e-41	1.000000	1.10663e-41	1.000000
rad68syn	3.33359e-42	1.000000	3.33359e-42	1.000000
rad68anti	2.85061e-42	1.000000	2.85061e-42	1.000000
rad19syn	8.61360e-44	1.000000	8.61360e-44	1.000000
rad24	3.16765e-44	1.000000	3.16765e-44	1.000000
rad73	2.96992e-50	1.000000	2.96992e-50	1.000000
rad40syn	5.42428e-51	1.000000	5.42428e-51	1.000000
rad40anti	4.46764e-51	1.000000	4.46764e-51	1.000000
PAH8+H	2.23966e-55	1.000000	2.23966e-55	1.000000
rad71	5.90112e-59	1.000000	5.90112e-59	1.000000
rad8	9.75719e-64	1.000000	9.75719e-64	1.000000

0.100000000E-03 Pa, 50.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.72707e-17 (1.00)	1.72707e-17 (1.00)
Formation of rad19	1.72707e-17 (1.00)	1.72707e-17 (1.00)
H-abstraction to cyc2enyl	5.49905e-35 (3.18e-18)	5.49905e-35 (3.18e-18)
H-abstraction to cyclenyl	4.93090e-50 (2.86e-33)	4.93090e-50 (2.86e-33)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999763	0.999763	0.999763	0.999763
PhCHCCH2+H	0.000225657	0.999989	0.000225657	0.999989
PhCCH+CH3	3.90991e-06	0.999993	3.90991e-06	0.999993
C2H2+PhCH2	2.79599e-06	0.999995	2.79599e-06	0.999995
PhCCCH3+H	2.20592e-06	0.999998	2.20592e-06	0.999998
Ph+MeAc	1.64417e-06	0.999999	1.64417e-06	0.999999
rad67	4.97513e-07	1.000000	4.97513e-07	1.000000
rad35	2.19878e-07	1.000000	2.19878e-07	1.000000
Ph+Allene	1.44930e-07	1.000000	1.44930e-07	1.000000
PAH7+H	1.90034e-08	1.000000	1.90034e-08	1.000000
PhCH2CCH+H	1.78155e-08	1.000000	1.78155e-08	1.000000
rad39	5.36017e-09	1.000000	5.36017e-09	1.000000
rad37	4.94865e-09	1.000000	4.94865e-09	1.000000
rad30	4.11416e-09	1.000000	4.11416e-09	1.000000
PAH9+H	2.71338e-10	1.000000	2.71338e-10	1.000000
rad38	1.14948e-10	1.000000	1.14948e-10	1.000000
rad60syn	1.81879e-11	1.000000	1.81879e-11	1.000000
rad60anti	8.89457e-12	1.000000	8.89457e-12	1.000000
PAH3+H	7.40195e-12	1.000000	7.40195e-12	1.000000
rad46	6.94536e-12	1.000000	6.94536e-12	1.000000
PAH10+CH3	6.33656e-12	1.000000	6.33656e-12	1.000000
rad59	1.53023e-12	1.000000	1.53023e-12	1.000000
PhcycC3H3_A+H	5.85935e-13	1.000000	5.85935e-13	1.000000
rad43	2.92246e-13	1.000000	2.92246e-13	1.000000
rad54	2.35326e-13	1.000000	2.35326e-13	1.000000
rad62	6.28758e-14	1.000000	6.28758e-14	1.000000
rad50	4.73621e-14	1.000000	4.73621e-14	1.000000
rad70	3.74594e-15	1.000000	3.74594e-15	1.000000
rad55	1.64733e-15	1.000000	1.64733e-15	1.000000
PAH1+H	7.13889e-16	1.000000	7.13889e-16	1.000000
rad52	3.07612e-16	1.000000	3.07612e-16	1.000000
Phenyl+cycC3H4	2.36668e-16	1.000000	0.000000	1.000000
rad58	9.10684e-17	1.000000	9.10684e-17	1.000000
rad51	7.70478e-17	1.000000	7.70478e-17	1.000000
rad34	3.76103e-17	1.000000	3.76103e-17	1.000000
rad42	4.07358e-18	1.000000	4.07358e-18	1.000000
rad41	4.02376e-18	1.000000	4.02376e-18	1.000000
Benzene+cycloprop-2-enylidene	3.18404e-18	1.000000	3.18404e-18	1.000000
rad65	1.53967e-18	1.000000	1.53967e-18	1.000000
PhcycC3H3_B+H	2.98290e-22	1.000000	2.98290e-22	1.000000
rad6	1.83810e-22	1.000000	1.83810e-22	1.000000
rad28	2.04506e-25	1.000000	2.04506e-25	1.000000
rad2	8.64030e-26	1.000000	8.64030e-26	1.000000
rad26	2.71578e-26	1.000000	2.71578e-26	1.000000
rad7	1.34541e-26	1.000000	1.34541e-26	1.000000
rad53	8.42904e-27	1.000000	8.42904e-27	1.000000
rad1	5.47567e-27	1.000000	5.47567e-27	1.000000
rad10	4.37108e-27	1.000000	4.37108e-27	1.000000
rad11	3.31606e-27	1.000000	3.31606e-27	1.000000
rad3	5.42050e-28	1.000000	5.42050e-28	1.000000
rad4	2.73961e-28	1.000000	2.73961e-28	1.000000
rad13	7.34483e-29	1.000000	7.34483e-29	1.000000

rad47	1.37482e-29	1.00000	1.37482e-29	1.00000
rad64	7.15076e-30	1.00000	7.15076e-30	1.00000
rad9	7.82736e-31	1.00000	7.82736e-31	1.00000
rad33	1.38069e-31	1.00000	1.38069e-31	1.00000
rad14	8.51679e-32	1.00000	8.51679e-32	1.00000
rad25	5.59665e-32	1.00000	5.59665e-32	1.00000
rad27	5.50489e-32	1.00000	5.50489e-32	1.00000
Benzene+cycloprop-1-enylidene	2.85507e-33	1.00000	2.85507e-33	1.00000
rad19anti	7.56831e-34	1.00000	7.56831e-34	1.00000
rad5	4.64387e-34	1.00000	4.64387e-34	1.00000
rad15	3.38855e-34	1.00000	3.38855e-34	1.00000
rad23	7.06855e-36	1.00000	7.06855e-36	1.00000
rad31	1.63466e-36	1.00000	1.63466e-36	1.00000
rad20	3.49161e-37	1.00000	3.49161e-37	1.00000
rad21	2.57449e-37	1.00000	2.57449e-37	1.00000
rad61	1.95187e-37	1.00000	1.95187e-37	1.00000
rad45	5.38706e-38	1.00000	5.38706e-38	1.00000
rad22	1.05432e-38	1.00000	1.05432e-38	1.00000
rad12	3.69921e-39	1.00000	3.69921e-39	1.00000
rad36	3.30099e-39	1.00000	3.30099e-39	1.00000
rad18	1.48611e-39	1.00000	1.48611e-39	1.00000
rad56	1.18885e-39	1.00000	1.18885e-39	1.00000
rad68syn	9.42829e-42	1.00000	9.42829e-42	1.00000
rad68anti	8.05588e-42	1.00000	8.05588e-42	1.00000
rad19syn	1.15714e-43	1.00000	1.15714e-43	1.00000
rad24	9.70444e-45	1.00000	9.70444e-45	1.00000
rad73	9.18459e-50	1.00000	9.18459e-50	1.00000
rad40syn	2.11730e-50	1.00000	2.11730e-50	1.00000
rad40anti	1.74240e-50	1.00000	1.74240e-50	1.00000
PAH8+H	9.51794e-55	1.00000	9.51794e-55	1.00000
rad71	2.16600e-58	1.00000	2.16600e-58	1.00000
rad8	9.04795e-64	1.00000	9.04795e-64	1.00000

0.100000000E-03 Pa, 60.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.93738e-17 (1.00)	6.93738e-17 (1.00)
Formation of rad19	6.93738e-17 (1.000)	6.93738e-17 (1.000)
H-abstraction to cyc2enyl	2.50609e-31 (3.61e-15)	2.50609e-31 (3.61e-15)
H-abstraction to cyclenyl	7.62015e-44 (1.10e-27)	7.62015e-44 (1.10e-27)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999758	0.999758	0.999758	0.999758
PhCHCCH2+H	0.000230120	0.999988	0.000230120	0.999988
PhCCH+CH3	3.99425e-06	0.999992	3.99425e-06	0.999992
C2H2+PhCH2	2.86792e-06	0.999995	2.86792e-06	0.999995
PhCCCH3+H	2.25805e-06	0.999997	2.25805e-06	0.999997
Ph+MeAc	1.69157e-06	0.999999	1.69157e-06	0.999999
rad67	5.11097e-07	0.999999	5.11097e-07	0.999999
rad35	2.25633e-07	1.000000	2.25633e-07	1.000000
Ph+Allene	1.50520e-07	1.000000	1.50520e-07	1.000000
PAH7+H	1.96315e-08	1.000000	1.96315e-08	1.000000
PhCH2CCH+H	1.86137e-08	1.000000	1.86137e-08	1.000000
rad39	5.53787e-09	1.000000	5.53787e-09	1.000000
rad37	5.12223e-09	1.000000	5.12223e-09	1.000000
rad30	4.22416e-09	1.000000	4.22416e-09	1.000000
PAH9+H	2.80727e-10	1.000000	2.80727e-10	1.000000
rad38	1.19301e-10	1.000000	1.19301e-10	1.000000
rad60syn	1.88683e-11	1.000000	1.88683e-11	1.000000
rad60anti	9.23584e-12	1.000000	9.23584e-12	1.000000
PAH3+H	7.77799e-12	1.000000	7.77799e-12	1.000000
rad46	7.22867e-12	1.000000	7.22867e-12	1.000000
PAH10+CH3	6.79605e-12	1.000000	6.79605e-12	1.000000
rad59	1.60492e-12	1.000000	1.60492e-12	1.000000
PhcycC3H3_A+H	6.95713e-13	1.000000	6.95713e-13	1.000000
rad43	3.11024e-13	1.000000	3.11024e-13	1.000000
rad54	2.52146e-13	1.000000	2.52146e-13	1.000000
rad62	6.70676e-14	1.000000	6.70676e-14	1.000000
rad50	5.01842e-14	1.000000	5.01842e-14	1.000000
rad70	4.09983e-15	1.000000	4.09983e-15	1.000000
Benzene+cycloprop-2-enylidene	3.61245e-15	1.000000	3.61245e-15	1.000000
rad55	1.80488e-15	1.000000	1.80488e-15	1.000000
PAH1+H	8.09447e-16	1.000000	8.09447e-16	1.000000
Phenyl+cycC3H4	4.45921e-16	1.000000	0.000000	1.000000
rad52	3.30397e-16	1.000000	3.30397e-16	1.000000
rad58	1.00586e-16	1.000000	1.00586e-16	1.000000
rad51	8.41359e-17	1.000000	8.41359e-17	1.000000
rad34	4.27536e-17	1.000000	4.27536e-17	1.000000

rad41	4.87016e-18	1.000000	4.87016e-18	1.000000
rad42	4.76358e-18	1.000000	4.76358e-18	1.000000
rad65	1.69553e-18	1.000000	1.69553e-18	1.000000
PhcycC3H3_B+H	1.47018e-20	1.000000	1.47018e-20	1.000000
rad6	7.64165e-23	1.000000	7.64165e-23	1.000000
rad53	3.74000e-25	1.000000	3.74000e-25	1.000000
rad28	8.89991e-26	1.000000	8.89991e-26	1.000000
rad2	3.52619e-26	1.000000	3.52619e-26	1.000000
rad26	1.24098e-26	1.000000	1.24098e-26	1.000000
rad7	5.58408e-27	1.000000	5.58408e-27	1.000000
rad1	2.23917e-27	1.000000	2.23917e-27	1.000000
rad10	1.78388e-27	1.000000	1.78388e-27	1.000000
rad11	1.37563e-27	1.000000	1.37563e-27	1.000000
Benzene+cycloprop-1-enylidene	1.09842e-27	1.000000	1.09842e-27	1.000000
rad64	9.26943e-28	1.000000	9.26943e-28	1.000000
rad3	2.21348e-28	1.000000	2.21348e-28	1.000000
rad4	1.11922e-28	1.000000	1.11922e-28	1.000000
rad13	3.05871e-29	1.000000	3.05871e-29	1.000000
rad47	1.12650e-29	1.000000	1.12650e-29	1.000000
rad9	4.27614e-31	1.000000	4.27614e-31	1.000000
rad33	5.75380e-32	1.000000	5.75380e-32	1.000000
rad14	3.85511e-32	1.000000	3.85511e-32	1.000000
rad25	2.47949e-32	1.000000	2.47949e-32	1.000000
rad27	2.30950e-32	1.000000	2.30950e-32	1.000000
rad19anti	8.80162e-34	1.000000	8.80162e-34	1.000000
rad5	2.87431e-34	1.000000	2.87431e-34	1.000000
rad15	1.85319e-34	1.000000	1.85319e-34	1.000000
rad61	4.94825e-35	1.000000	4.94825e-35	1.000000
rad23	1.90127e-36	1.000000	1.90127e-36	1.000000
rad31	7.04786e-37	1.000000	7.04786e-37	1.000000
rad20	1.50802e-37	1.000000	1.50802e-37	1.000000
rad21	1.11337e-37	1.000000	1.11337e-37	1.000000
rad45	1.42556e-38	1.000000	1.42556e-38	1.000000
rad56	6.12709e-39	1.000000	6.12709e-39	1.000000
rad22	3.38129e-39	1.000000	3.38129e-39	1.000000
rad12	2.02967e-39	1.000000	2.02967e-39	1.000000
rad36	8.73183e-40	1.000000	8.73183e-40	1.000000
rad18	6.39446e-40	1.000000	6.39446e-40	1.000000
rad68syn	4.99134e-41	1.000000	4.99134e-41	1.000000
rad68anti	4.26086e-41	1.000000	4.26086e-41	1.000000
rad19syn	1.80508e-43	1.000000	1.80508e-43	1.000000
rad24	4.29341e-45	1.000000	4.29341e-45	1.000000
rad73	5.39004e-49	1.000000	5.39004e-49	1.000000
rad40syn	1.54638e-49	1.000000	1.54638e-49	1.000000
rad40anti	1.27059e-49	1.000000	1.27059e-49	1.000000
PAH8+H	7.80796e-54	1.000000	7.80796e-54	1.000000
rad71	1.56746e-57	1.000000	1.56746e-57	1.000000
rad8	9.43643e-64	1.000000	9.43643e-64	1.000000

0.100000000E-03 Pa, 70.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.91520e-16 (1.00)	1.91520e-16 (1.00)
Formation of rad19	1.91520e-16 (1.000)	1.91520e-16 (1.000)
H-abstraction to cyc2enyl	1.01125e-28 (5.28e-13)	1.01125e-28 (5.28e-13)
H-abstraction to cyclenyl	1.97822e-39 (1.03e-23)	1.97822e-39 (1.03e-23)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999753	0.999753	0.999753	0.999753
PhCHCCH2+H	0.000235006	0.999988	0.000235006	0.999988
PhCCH+CH3	4.08657e-06	0.999992	4.08657e-06	0.999992
C2H2+PhCH2	2.94718e-06	0.999995	2.94718e-06	0.999995
PhCCCH3+H	2.31532e-06	0.999997	2.31532e-06	0.999997
Ph+MeAc	1.74394e-06	0.999999	1.74394e-06	0.999999
rad67	5.26089e-07	1.000000	5.26089e-07	1.000000
rad35	2.31978e-07	1.000000	2.31978e-07	1.000000
Ph+Allene	1.56772e-07	1.000000	1.56772e-07	1.000000
PAH7+H	2.03295e-08	1.000000	2.03295e-08	1.000000
PhCH2CCH+H	1.95128e-08	1.000000	1.95128e-08	1.000000
rad39	5.73531e-09	1.000000	5.73531e-09	1.000000
rad37	5.31555e-09	1.000000	5.31555e-09	1.000000
rad30	4.34560e-09	1.000000	4.34560e-09	1.000000
PAH9+H	2.91192e-10	1.000000	2.91192e-10	1.000000
rad38	1.24174e-10	1.000000	1.24174e-10	1.000000
rad60syn	1.96289e-11	1.000000	1.96289e-11	1.000000
rad60anti	9.61771e-12	1.000000	9.61771e-12	1.000000
PAH3+H	8.20473e-12	1.000000	8.20473e-12	1.000000
rad46	7.54674e-12	1.000000	7.54674e-12	1.000000

PAH10+CH3	7.32909e-12	1.00000	7.32909e-12	1.00000
rad59	1.68947e-12	1.00000	1.68947e-12	1.00000
PhcycC3H3_A+H	8.34924e-13	1.00000	8.34924e-13	1.00000
Benzene+cycloprop-2-enylidene	5.28015e-13	1.00000	5.28015e-13	1.00000
rad43	3.32589e-13	1.00000	3.32589e-13	1.00000
rad54	2.71642e-13	1.00000	2.71642e-13	1.00000
rad62	7.18892e-14	1.00000	7.18892e-14	1.00000
rad50	5.34208e-14	1.00000	5.34208e-14	1.00000
rad70	4.51972e-15	1.00000	4.51972e-15	1.00000
rad55	1.99154e-15	1.00000	1.99154e-15	1.00000
PAH1+H	9.26787e-16	1.00000	9.26787e-16	1.00000
Phenyl+cycC3H4	7.87809e-16	1.00000	0.00000	1.00000
rad52	3.56941e-16	1.00000	3.56941e-16	1.00000
rad58	1.11990e-16	1.00000	1.11990e-16	1.00000
rad51	9.25495e-17	1.00000	9.25495e-17	1.00000
rad34	4.90619e-17	1.00000	4.90619e-17	1.00000
rad41	5.95412e-18	1.00000	5.95412e-18	1.00000
rad42	5.64254e-18	1.00000	5.64254e-18	1.00000
rad65	1.88219e-18	1.00000	1.88219e-18	1.00000
PhcycC3H3_B+H	2.38334e-19	1.00000	2.38334e-19	1.00000
rad6	3.77857e-23	1.00000	3.77857e-23	1.00000
Benzene+cycloprop-1-enylidene	1.03290e-23	1.00000	1.03290e-23	1.00000
rad53	5.57161e-24	1.00000	5.57161e-24	1.00000
rad28	4.58383e-26	1.00000	4.58383e-26	1.00000
rad64	3.39789e-26	1.00000	3.39789e-26	1.00000
rad2	1.71923e-26	1.00000	1.71923e-26	1.00000
rad26	6.72589e-27	1.00000	6.72589e-27	1.00000
rad7	2.75937e-27	1.00000	2.75937e-27	1.00000
rad1	1.09429e-27	1.00000	1.09429e-27	1.00000
rad10	8.70231e-28	1.00000	8.70231e-28	1.00000
rad11	6.79561e-28	1.00000	6.79561e-28	1.00000
rad3	1.08002e-28	1.00000	1.08002e-28	1.00000
rad4	5.46382e-29	1.00000	5.46382e-29	1.00000
rad13	1.51538e-29	1.00000	1.51538e-29	1.00000
rad47	9.65686e-30	1.00000	9.65686e-30	1.00000
rad9	2.77767e-31	1.00000	2.77767e-31	1.00000
rad61	5.68534e-32	1.00000	5.68534e-32	1.00000
rad33	2.85287e-32	1.00000	2.85287e-32	1.00000
rad14	2.11678e-32	1.00000	2.11678e-32	1.00000
rad25	1.32884e-32	1.00000	1.32884e-32	1.00000
rad27	1.16107e-32	1.00000	1.16107e-32	1.00000
rad19anti	1.15013e-33	1.00000	1.15013e-33	1.00000
rad5	1.96284e-34	1.00000	1.96284e-34	1.00000
rad15	1.20524e-34	1.00000	1.20524e-34	1.00000
rad56	2.33654e-35	1.00000	2.33654e-35	1.00000
rad23	6.74972e-37	1.00000	6.74972e-37	1.00000
rad31	3.80631e-37	1.00000	3.80631e-37	1.00000
rad20	7.78899e-38	1.00000	7.78899e-38	1.00000
rad21	5.75930e-38	1.00000	5.75930e-38	1.00000
rad45	4.99787e-39	1.00000	4.99787e-39	1.00000
rad22	1.38879e-39	1.00000	1.38879e-39	1.00000
rad12	1.32511e-39	1.00000	1.32511e-39	1.00000
rad68syn	8.36377e-40	1.00000	8.36377e-40	1.00000
rad68anti	7.13431e-40	1.00000	7.13431e-40	1.00000
rad18	3.29983e-40	1.00000	3.29983e-40	1.00000
rad36	3.06032e-40	1.00000	3.06032e-40	1.00000
rad19syn	3.07655e-43	1.00000	3.07655e-43	1.00000
rad24	2.38567e-45	1.00000	2.38567e-45	1.00000
rad73	9.70724e-48	1.00000	9.70724e-48	1.00000
rad40syn	2.86303e-48	1.00000	2.86303e-48	1.00000
rad40anti	2.34614e-48	1.00000	2.34614e-48	1.00000
PAH8+H	1.67153e-52	1.00000	1.67153e-52	1.00000
rad71	3.36021e-56	1.00000	3.36021e-56	1.00000
rad8	1.06802e-63	1.00000	1.06802e-63	1.00000

0.100000000E-03 Pa, 80.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.17084e-16 (1.00)	4.17084e-16 (1.00)
Formation of rad19	4.17084e-16 (1.000)	4.17084e-16 (1.000)
H-abstraction to cyc2enyl	8.98751e-27 (2.15e-11)	8.98751e-27 (2.15e-11)
H-abstraction to cyclenyl	4.00120e-36 (9.59e-21)	4.00120e-36 (9.59e-21)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999747	0.999747	0.999747	0.999747
PhCHCCH2+H	0.000240277	0.999987	0.000240277	0.999987
PhCCH+CH3	4.18617e-06	0.999991	4.18617e-06	0.999991
C2H2+PhCH2	3.03331e-06	0.999994	3.03331e-06	0.999994

PhCCCH3+H	2.37733e-06	0.999997	2.37733e-06	0.999997
Ph+MeAc	1.80101e-06	0.999999	1.80101e-06	0.999999
rad67	5.42407e-07	0.999999	5.42407e-07	0.999999
rad35	2.38874e-07	0.999999	2.38874e-07	0.999999
Ph+Allene	1.63678e-07	1.000000	1.63678e-07	1.000000
PAH7+H	2.10950e-08	1.000000	2.10950e-08	1.000000
PhCH2CCH+H	2.05135e-08	1.000000	2.05135e-08	1.000000
rad39	5.95182e-09	1.000000	5.95182e-09	1.000000
rad37	5.52804e-09	1.000000	5.52804e-09	1.000000
rad30	4.47785e-09	1.000000	4.47785e-09	1.000000
PAH9+H	3.02707e-10	1.000000	3.02707e-10	1.000000
rad38	1.29563e-10	1.000000	1.29563e-10	1.000000
Benzene+cycloprop-2-enylidene	2.15484e-11	1.000000	2.15484e-11	1.000000
rad60syn	2.04683e-11	1.000000	2.04683e-11	1.000000
rad60anti	1.00396e-11	1.000000	1.00396e-11	1.000000
PAH3+H	8.68351e-12	1.000000	8.68351e-12	1.000000
PAH10+CH3	7.94148e-12	1.000000	7.94148e-12	1.000000
rad46	7.89946e-12	1.000000	7.89946e-12	1.000000
rad59	1.78408e-12	1.000000	1.78408e-12	1.000000
PhcycC3H3_A+H	1.01060e-12	1.000000	1.01060e-12	1.000000
rad43	3.57094e-13	1.000000	3.57094e-13	1.000000
rad54	2.94023e-13	1.000000	2.94023e-13	1.000000
rad62	7.73762e-14	1.000000	7.73762e-14	1.000000
rad50	5.70944e-14	1.000000	5.70944e-14	1.000000
rad70	5.01389e-15	1.000000	5.01389e-15	1.000000
rad55	2.21107e-15	1.000000	2.21107e-15	1.000000
Phenyl+cycC3H4	1.32430e-15	1.000000	0.000000	1.000000
PAH1+H	1.07010e-15	1.000000	1.07010e-15	1.000000
rad52	3.87587e-16	1.000000	3.87587e-16	1.000000
rad58	1.25559e-16	1.000000	1.25559e-16	1.000000
rad51	1.02463e-16	1.000000	1.02463e-16	1.000000
rad34	5.67777e-17	1.000000	5.67777e-17	1.000000
rad41	7.33006e-18	1.000000	7.33006e-18	1.000000
rad42	6.74789e-18	1.000000	6.74789e-18	1.000000
rad65	2.10421e-18	1.000000	2.10421e-18	1.000000
PhcycC3H3_B+H	1.96138e-18	1.000000	1.96138e-18	1.000000
Benzene+cycloprop-1-enylidene	9.59328e-21	1.000000	9.59328e-21	1.000000
rad53	4.18979e-23	1.000000	4.18979e-23	1.000000
rad6	2.10119e-23	1.000000	2.10119e-23	1.000000
rad64	5.09172e-25	1.000000	5.09172e-25	1.000000
rad28	2.64445e-26	1.000000	2.64445e-26	1.000000
rad2	9.45563e-27	1.000000	9.45563e-27	1.000000
rad26	4.08593e-27	1.000000	4.08593e-27	1.000000
rad7	1.53439e-27	1.000000	1.53439e-27	1.000000
rad1	6.03438e-28	1.000000	6.03438e-28	1.000000
rad10	4.79052e-28	1.000000	4.79052e-28	1.000000
rad11	3.77815e-28	1.000000	3.77815e-28	1.000000
rad3	5.94485e-29	1.000000	5.94485e-29	1.000000
rad4	3.00933e-29	1.000000	3.00933e-29	1.000000
rad47	8.55018e-30	1.000000	8.55018e-30	1.000000
rad13	8.44474e-30	1.000000	8.44474e-30	1.000000
rad61	8.41974e-30	1.000000	8.41974e-30	1.000000
rad9	2.03559e-31	1.000000	2.03559e-31	1.000000
rad33	1.59121e-32	1.000000	1.59121e-32	1.000000
rad14	1.33132e-32	1.000000	1.33132e-32	1.000000
rad56	1.31899e-32	1.000000	1.31899e-32	1.000000
rad25	8.15053e-33	1.000000	8.15053e-33	1.000000
rad27	6.61525e-33	1.000000	6.61525e-33	1.000000
rad19anti	1.65214e-33	1.000000	1.65214e-33	1.000000
rad68syn	1.87176e-34	1.000000	1.87176e-34	1.000000
rad68anti	1.57634e-34	1.000000	1.57634e-34	1.000000
rad5	1.43303e-34	1.000000	1.43303e-34	1.000000
rad15	8.84408e-35	1.000000	8.84408e-35	1.000000
rad23	2.89157e-37	1.000000	2.89157e-37	1.000000
rad31	2.52060e-37	1.000000	2.52060e-37	1.000000
rad20	4.54443e-38	1.000000	4.54443e-38	1.000000
rad21	3.36596e-38	1.000000	3.36596e-38	1.000000
rad45	2.11973e-39	1.000000	2.11973e-39	1.000000
rad12	9.76688e-40	1.000000	9.76688e-40	1.000000
rad22	6.73221e-40	1.000000	6.73221e-40	1.000000
rad18	1.92687e-40	1.000000	1.92687e-40	1.000000
rad36	1.29771e-40	1.000000	1.29771e-40	1.000000
rad19syn	5.56519e-43	1.000000	5.56519e-43	1.000000
rad24	1.56122e-45	1.000000	1.56122e-45	1.000000
rad73	1.03598e-45	1.000000	1.03598e-45	1.000000
rad40syn	2.29100e-46	1.000000	2.29100e-46	1.000000
rad40anti	1.86951e-46	1.000000	1.86951e-46	1.000000
PAH8+H	1.56175e-50	1.000000	1.56175e-50	1.000000
rad71	3.88725e-54	1.000000	3.88725e-54	1.000000
rad8	1.28444e-63	1.000000	1.28444e-63	1.000000

0.100000000E-03 Pa, 90.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.74016e-16 (1.00)	7.74016e-16 (1.00)
Formation of rad19	7.74016e-16 (1.000)	7.74016e-16 (1.000)
H-abstraction to cyc2enyl	2.91736e-25 (3.77e-10)	2.91736e-25 (3.77e-10)
H-abstraction to cyclenyl	1.47814e-33 (1.91e-18)	1.47814e-33 (1.91e-18)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.9999741	0.9999741	0.9999741	0.9999741
PhCHCCH2+H	0.000245933	0.999987	0.000245933	0.999987
PhCCH+CH3	4.29300e-06	0.999991	4.29300e-06	0.999991
C2H2+PhCH2	3.12641e-06	0.999994	3.12641e-06	0.999994
PhCCCH3+H	2.44411e-06	0.999997	2.44411e-06	0.999997
Ph+MeAc	1.86289e-06	0.999999	1.86289e-06	0.999999
rad67	5.60077e-07	0.999999	5.60077e-07	0.999999
rad35	2.46331e-07	0.999999	2.46331e-07	0.999999
Ph+Allene	1.71273e-07	1.000000	1.71273e-07	1.000000
PAH7+H	2.19307e-08	1.000000	2.19307e-08	1.000000
PhCH2CCH+H	2.16229e-08	1.000000	2.16229e-08	1.000000
rad39	6.18811e-09	1.000000	6.18811e-09	1.000000
rad37	5.76055e-09	1.000000	5.76055e-09	1.000000
rad30	4.62111e-09	1.000000	4.62111e-09	1.000000
Benzene+cycloprop-2-enylidene	3.76912e-10	1.000000	3.76912e-10	1.000000
PAH9+H	3.15321e-10	1.000000	3.15321e-10	1.000000
rad38	1.35498e-10	1.000000	1.35498e-10	1.000000
rad60syn	2.13908e-11	1.000000	2.13908e-11	1.000000
rad60anti	1.05039e-11	1.000000	1.05039e-11	1.000000
PAH3+H	9.21895e-12	1.000000	9.21895e-12	1.000000
PAH10+CH3	8.64378e-12	1.000000	8.64378e-12	1.000000
rad46	8.28910e-12	1.000000	8.28910e-12	1.000000
rad59	1.88960e-12	1.000000	1.88960e-12	1.000000
PhcycC3H3_A+H	1.23243e-12	1.000000	1.23243e-12	1.000000
rad43	3.84865e-13	1.000000	3.84865e-13	1.000000
rad54	3.19669e-13	1.000000	3.19669e-13	1.000000
rad62	8.36038e-14	1.000000	8.36038e-14	1.000000
rad50	6.12544e-14	1.000000	6.12544e-14	1.000000
rad70	5.59526e-15	1.000000	5.59526e-15	1.000000
rad55	2.46927e-15	1.000000	2.46927e-15	1.000000
Phenyl+cycC3H4	2.14284e-15	1.000000	0.000000	1.000000
PAH1+H	1.24546e-15	1.000000	1.24546e-15	1.000000
rad52	4.22929e-16	1.000000	4.22929e-16	1.000000
rad58	1.41712e-16	1.000000	1.41712e-16	1.000000
rad51	1.14146e-16	1.000000	1.14146e-16	1.000000
rad34	6.62414e-17	1.000000	6.62414e-17	1.000000
PhcycC3H3_B+H	1.04002e-17	1.000000	1.04002e-17	1.000000
rad41	9.07974e-18	1.000000	9.07974e-18	1.000000
rad42	8.13553e-18	1.000000	8.13553e-18	1.000000
rad65	2.36850e-18	1.000000	2.36850e-18	1.000000
Benzene+cycloprop-1-enylidene	1.90970e-18	1.000000	1.90970e-18	1.000000
rad53	2.02289e-22	1.000000	2.02289e-22	1.000000
rad6	1.27162e-23	1.000000	1.27162e-23	1.000000
rad64	4.24437e-24	1.000000	4.24437e-24	1.000000
rad28	1.65482e-26	1.000000	1.65482e-26	1.000000
rad2	5.67349e-27	1.000000	5.67349e-27	1.000000
rad26	2.69249e-27	1.000000	2.69249e-27	1.000000
rad7	9.28966e-28	1.000000	9.28966e-28	1.000000
rad61	4.05750e-28	1.000000	4.05750e-28	1.000000
rad1	3.63132e-28	1.000000	3.63132e-28	1.000000
rad10	2.87765e-28	1.000000	2.87765e-28	1.000000
rad11	2.28722e-28	1.000000	2.28722e-28	1.000000
rad3	3.56966e-29	1.000000	3.56966e-29	1.000000
rad4	1.80825e-29	1.000000	1.80825e-29	1.000000
rad47	7.76048e-30	1.000000	7.76048e-30	1.000000
rad13	5.12245e-30	1.000000	5.12245e-30	1.000000
rad56	1.28607e-30	1.000000	1.28607e-30	1.000000
rad9	1.63158e-31	1.000000	1.63158e-31	1.000000
rad68syn	2.85414e-32	1.000000	2.85414e-32	1.000000
rad68anti	2.36888e-32	1.000000	2.36888e-32	1.000000
rad33	9.66118e-33	1.000000	9.66118e-33	1.000000
rad14	9.26076e-33	1.000000	9.26076e-33	1.000000
rad25	5.53472e-33	1.000000	5.53472e-33	1.000000
rad27	4.13667e-33	1.000000	4.13667e-33	1.000000
rad19anti	2.57325e-33	1.000000	2.57325e-33	1.000000
rad5	1.09784e-34	1.000000	1.09784e-34	1.000000
rad15	7.09864e-35	1.000000	7.09864e-35	1.000000
rad31	2.06742e-37	1.000000	2.06742e-37	1.000000

rad23	1.41903e-37	1.000000	1.41903e-37	1.000000
rad20	2.89681e-38	1.000000	2.89681e-38	1.000000
rad21	2.14971e-38	1.000000	2.14971e-38	1.000000
rad73	1.45351e-39	1.000000	1.45351e-39	1.000000
rad45	1.03171e-39	1.000000	1.03171e-39	1.000000
rad12	7.87876e-40	1.000000	7.87876e-40	1.000000
rad22	3.67405e-40	1.000000	3.67405e-40	1.000000
rad18	1.23065e-40	1.000000	1.23065e-40	1.000000
rad36	6.31596e-41	1.000000	6.31596e-41	1.000000
rad19syn	1.05530e-42	1.000000	1.05530e-42	1.000000
rad40syn	5.28619e-44	1.000000	5.28619e-44	1.000000
rad40anti	4.29354e-44	1.000000	4.29354e-44	1.000000
rad24	1.16380e-45	1.000000	1.16380e-45	1.000000
PAH8+H	4.16117e-48	1.000000	4.16117e-48	1.000000
rad71	1.29311e-51	1.000000	1.29311e-51	1.000000
rad8	1.61995e-63	1.000000	1.61995e-63	1.000000

0.100000000E-03 Pa, 100.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.28255e-15 (1.00)	1.28255e-15 (1.00)
Formation of rad19	1.28255e-15 (1.000)	1.28255e-15 (1.000)
H-abstraction to cyc2enyl	4.68359e-24 (3.65e-09)	4.68359e-24 (3.65e-09)
H-abstraction to cyclenyl	1.66242e-31 (1.30e-16)	1.66242e-31 (1.30e-16)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999735	0.999735	0.999735	0.999735
PhCHCCH2+H	0.000251988	0.999987	0.000251988	0.999987
PhCCH+CH3	4.40735e-06	0.999991	4.40735e-06	0.999991
C2H2+PhCH2	3.22687e-06	0.999995	3.22687e-06	0.999995
PhCCCH3+H	2.51588e-06	0.999997	2.51588e-06	0.999997
Ph+MeAc	1.92987e-06	0.999999	1.92987e-06	0.999999
rad67	5.79180e-07	1.000000	5.79180e-07	1.000000
rad35	2.54382e-07	1.000000	2.54382e-07	1.000000
Ph+Allene	1.79620e-07	1.000000	1.79620e-07	1.000000
PhCH2CCH+H	2.28527e-08	1.000000	2.28527e-08	1.000000
PAH7+H	2.28419e-08	1.000000	2.28419e-08	1.000000
rad39	6.44570e-09	1.000000	6.44570e-09	1.000000
rad37	6.01469e-09	1.000000	6.01469e-09	1.000000
rad30	4.77609e-09	1.000000	4.77609e-09	1.000000
Benzene+cycloprop-2-enylidene	3.65179e-09	1.000000	3.65179e-09	1.000000
PAH9+H	3.29126e-10	1.000000	3.29126e-10	1.000000
rad38	1.42030e-10	1.000000	1.42030e-10	1.000000
rad60syn	2.24038e-11	1.000000	2.24038e-11	1.000000
rad60anti	1.10144e-11	1.000000	1.10144e-11	1.000000
PAH3+H	9.81796e-12	1.000000	9.81796e-12	1.000000
PAH10+CH3	9.45053e-12	1.000000	9.45053e-12	1.000000
rad46	8.71936e-12	1.000000	8.71936e-12	1.000000
rad59	2.00729e-12	1.000000	2.00729e-12	1.000000
PhcycC3H3_A+H	1.51348e-12	1.000000	1.51348e-12	1.000000
rad43	4.16365e-13	1.000000	4.16365e-13	1.000000
rad54	3.49108e-13	1.000000	3.49108e-13	1.000000
rad62	9.06772e-14	1.000000	9.06772e-14	1.000000
rad50	6.59710e-14	1.000000	6.59710e-14	1.000000
rad70	6.28136e-15	1.000000	6.28136e-15	1.000000
Phenyl+cycC3H4	3.36905e-15	1.000000	0.000000	1.000000
rad55	2.77401e-15	1.000000	2.77401e-15	1.000000
PAH1+H	1.46118e-15	1.000000	1.46118e-15	1.000000
rad52	4.63786e-16	1.000000	4.63786e-16	1.000000
rad58	1.61017e-16	1.000000	1.61017e-16	1.000000
Benzene+cycloprop-1-enylidene	1.29619e-16	1.000000	1.29619e-16	1.000000
rad51	1.27967e-16	1.000000	1.27967e-16	1.000000
rad34	7.79131e-17	1.000000	7.79131e-17	1.000000
PhcycC3H3_B+H	4.09123e-17	1.000000	4.09123e-17	1.000000
rad41	1.13184e-17	1.000000	1.13184e-17	1.000000
rad42	9.88312e-18	1.000000	9.88312e-18	1.000000
rad65	2.68446e-18	1.000000	2.68446e-18	1.000000
rad53	7.24616e-22	1.000000	7.24616e-22	1.000000
rad64	2.36958e-23	1.000000	2.36958e-23	1.000000
rad6	8.20394e-24	1.000000	8.20394e-24	1.000000
rad28	1.10074e-26	1.000000	1.10074e-26	1.000000
rad61	9.04334e-27	1.000000	9.04334e-27	1.000000
rad2	3.63670e-27	1.000000	3.63670e-27	1.000000
rad26	1.88575e-27	1.000000	1.88575e-27	1.000000
rad7	5.99743e-28	1.000000	5.99743e-28	1.000000
rad1	2.33519e-28	1.000000	2.33519e-28	1.000000
rad10	1.84696e-28	1.000000	1.84696e-28	1.000000
rad11	1.47664e-28	1.000000	1.47664e-28	1.000000

rad56	5.01134e-29	1.00000	5.01134e-29	1.00000
rad3	2.28954e-29	1.00000	2.28954e-29	1.00000
rad4	1.16069e-29	1.00000	1.16069e-29	1.00000
rad47	7.18710e-30	1.00000	7.18710e-30	1.00000
rad13	3.31287e-30	1.00000	3.31287e-30	1.00000
rad68syn	1.54810e-30	1.00000	1.54810e-30	1.00000
rad68anti	1.27120e-30	1.00000	1.27120e-30	1.00000
rad9	1.40249e-31	1.00000	1.40249e-31	1.00000
rad14	6.95996e-33	1.00000	6.95996e-33	1.00000
rad33	6.25460e-33	1.00000	6.25460e-33	1.00000
rad19anti	4.30756e-33	1.00000	4.30756e-33	1.00000
rad25	4.07076e-33	1.00000	4.07076e-33	1.00000
rad27	2.78364e-33	1.00000	2.78364e-33	1.00000
rad5	8.72095e-35	1.00000	8.72095e-35	1.00000
rad15	6.11087e-35	1.00000	6.11087e-35	1.00000
rad40syn	1.99129e-36	1.00000	1.99129e-36	1.00000
rad40anti	1.51572e-36	1.00000	1.51572e-36	1.00000
rad73	7.52973e-37	1.00000	7.52973e-37	1.00000
rad31	2.11422e-37	1.00000	2.11422e-37	1.00000
rad23	7.72351e-38	1.00000	7.72351e-38	1.00000
rad20	1.97566e-38	1.00000	1.97566e-38	1.00000
rad21	1.46926e-38	1.00000	1.46926e-38	1.00000
rad12	6.82086e-40	1.00000	6.82086e-40	1.00000
rad45	5.57717e-40	1.00000	5.57717e-40	1.00000
rad22	2.19167e-40	1.00000	2.19167e-40	1.00000
rad18	8.41550e-41	1.00000	8.41550e-41	1.00000
rad36	3.41465e-41	1.00000	3.41465e-41	1.00000
rad19syn	2.08907e-42	1.00000	2.08907e-42	1.00000
PAH8+H	2.22247e-45	1.00000	2.22247e-45	1.00000
rad24	9.69292e-46	1.00000	9.69292e-46	1.00000
rad71	8.99691e-49	1.00000	8.99691e-49	1.00000
rad8	2.12448e-63	1.00000	2.12448e-63	1.00000

0.100000000E-03 Pa, 110.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.95524e-15 (1.00)	1.95524e-15 (1.00)
Formation of rad19	1.95524e-15 (1.000)	1.95524e-15 (1.000)
H-abstraction to cyc2enyl	4.50936e-23 (2.31e-08)	4.50936e-23 (2.31e-08)
H-abstraction to cyclenyl	7.87782e-30 (4.03e-15)	7.87782e-30 (4.03e-15)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999728	0.999728	0.999728	0.999728
PhCHCCH2+H	0.000258470	0.999986	0.000258470	0.999986
PhCCH+CH3	4.52971e-06	0.999991	4.52971e-06	0.999991
C2H2+PhCH2	3.33531e-06	0.999994	3.33531e-06	0.999994
PhCCCH3+H	2.59304e-06	0.999997	2.59304e-06	0.999997
Ph+MeAc	2.00241e-06	0.999999	2.00241e-06	0.999999
rad67	5.99841e-07	1.000000	5.99841e-07	1.000000
rad35	2.63076e-07	1.000000	2.63076e-07	1.000000
Ph+Allene	1.88807e-07	1.000000	1.88807e-07	1.000000
PhCH2CCH+H	2.42183e-08	1.000000	2.42183e-08	1.000000
PAH7+H	2.38364e-08	1.000000	2.38364e-08	1.000000
Benzene+cycloprop-2-enylidene	2.30629e-08	1.000000	2.30629e-08	1.000000
rad39	6.72673e-09	1.000000	6.72673e-09	1.000000
rad37	6.29276e-09	1.000000	6.29276e-09	1.000000
rad30	4.94381e-09	1.000000	4.94381e-09	1.000000
PAH9+H	3.44255e-10	1.000000	3.44255e-10	1.000000
rad38	1.49231e-10	1.000000	1.49231e-10	1.000000
rad60syn	2.35176e-11	1.000000	2.35176e-11	1.000000
rad60anti	1.15765e-11	1.000000	1.15765e-11	1.000000
PAH3+H	1.04897e-11	1.000000	1.04897e-11	1.000000
PAH10+CH3	1.03808e-11	1.000000	1.03808e-11	1.000000
rad46	9.19530e-12	1.000000	9.19530e-12	1.000000
rad59	2.13884e-12	1.000000	2.13884e-12	1.000000
PhcycC3H3_A+H	1.87147e-12	1.000000	1.87147e-12	1.000000
rad43	4.52197e-13	1.000000	4.52197e-13	1.000000
rad54	3.83032e-13	1.000000	3.83032e-13	1.000000
rad62	9.87341e-14	1.000000	9.87341e-14	1.000000
rad50	7.13368e-14	1.000000	7.13368e-14	1.000000
rad70	7.09538e-15	1.000000	7.09538e-15	1.000000
Phenyl+cycC3H4	5.18630e-15	1.000000	0.000000	1.000000
Benzene+cycloprop-1-enylidene	4.02908e-15	1.000000	4.02908e-15	1.000000
rad55	3.13563e-15	1.000000	3.13563e-15	1.000000
PAH1+H	1.72845e-15	1.000000	1.72845e-15	1.000000
rad52	5.11237e-16	1.000000	5.11237e-16	1.000000
rad58	1.84230e-16	1.000000	1.84230e-16	1.000000
rad51	1.44419e-16	1.000000	1.44419e-16	1.000000

PhcycC3H3_B+H	1.30407e-16	1.00000	1.30407e-16	1.00000
rad34	9.24149e-17	1.00000	9.24149e-17	1.00000
rad41	1.42059e-17	1.00000	1.42059e-17	1.00000
rad42	1.20966e-17	1.00000	1.20966e-17	1.00000
rad65	3.06466e-18	1.00000	3.06466e-18	1.00000
rad53	2.11079e-21	1.00000	2.11079e-21	1.00000
rad64	9.96332e-23	1.00000	9.96332e-23	1.00000
rad6	5.56528e-24	1.00000	5.56528e-24	1.00000
rad61	1.15971e-25	1.00000	1.15971e-25	1.00000
rad28	7.67868e-27	1.00000	7.67868e-27	1.00000
rad2	2.45612e-27	1.00000	2.45612e-27	1.00000
rad26	1.38522e-27	1.00000	1.38522e-27	1.00000
rad56	1.00968e-27	1.00000	1.00968e-27	1.00000
rad7	4.07220e-28	1.00000	4.07220e-28	1.00000
rad1	1.58270e-28	1.00000	1.58270e-28	1.00000
rad10	1.24921e-28	1.00000	1.24921e-28	1.00000
rad11	1.00268e-28	1.00000	1.00268e-28	1.00000
rad68syn	4.04799e-29	1.00000	4.04799e-29	1.00000
rad68anti	3.29758e-29	1.00000	3.29758e-29	1.00000
rad3	1.54699e-29	1.00000	1.54699e-29	1.00000
rad4	7.84940e-30	1.00000	7.84940e-30	1.00000
rad47	6.77119e-30	1.00000	6.77119e-30	1.00000
rad13	2.25314e-30	1.00000	2.25314e-30	1.00000
rad9	1.27607e-31	1.00000	1.27607e-31	1.00000
rad19anti	7.70569e-33	1.00000	7.70569e-33	1.00000
rad14	5.55840e-33	1.00000	5.55840e-33	1.00000
rad33	4.25850e-33	1.00000	4.25850e-33	1.00000
rad25	3.19239e-33	1.00000	3.19239e-33	1.00000
rad27	1.99041e-33	1.00000	1.99041e-33	1.00000
rad40syn	3.23201e-34	1.00000	3.23201e-34	1.00000
rad40anti	2.54378e-34	1.00000	2.54378e-34	1.00000
rad5	7.12596e-35	1.00000	7.12596e-35	1.00000
rad15	5.56861e-35	1.00000	5.56861e-35	1.00000
rad73	5.48403e-35	1.00000	5.48403e-35	1.00000
rad31	2.63351e-37	1.00000	2.63351e-37	1.00000
rad23	4.56662e-38	1.00000	4.56662e-38	1.00000
rad20	1.42193e-38	1.00000	1.42193e-38	1.00000
rad21	1.06000e-38	1.00000	1.06000e-38	1.00000
rad12	6.25519e-40	1.00000	6.25519e-40	1.00000
rad45	3.27865e-40	1.00000	3.27865e-40	1.00000
rad22	1.40147e-40	1.00000	1.40147e-40	1.00000
rad18	6.07539e-41	1.00000	6.07539e-41	1.00000
rad36	2.00797e-41	1.00000	2.00797e-41	1.00000
rad19syn	4.31564e-42	1.00000	4.31564e-42	1.00000
PAH8+H	1.08851e-42	1.00000	1.08851e-42	1.00000
rad24	8.89912e-46	1.00000	8.89912e-46	1.00000
rad71	5.50115e-46	1.00000	5.50115e-46	1.00000
rad8	2.88065e-63	1.00000	2.88065e-63	1.00000

0.100000000E-03 Pa, 120.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.79817e-15 (1.00)	2.79817e-15 (1.00)
Formation of rad19	2.79817e-15 (1.000)	2.79817e-15 (1.000)
H-abstraction to cyc2enyl	2.96039e-22 (1.06e-07)	2.96039e-22 (1.06e-07)
H-abstraction to cyclenyl	1.95323e-28 (6.98e-14)	1.95323e-28 (6.98e-14)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999721	0.999721	0.999721	0.999721
PhCHCCH2+H	0.000265418	0.999986	0.000265418	0.999986
PhCCH+CH3	4.66081e-06	0.999991	4.66081e-06	0.999991
C2H2+PhCH2	3.45255e-06	0.999994	3.45255e-06	0.999994
PhCCCH3+H	2.67609e-06	0.999997	2.67609e-06	0.999997
Ph+MeAc	2.08110e-06	0.999999	2.08110e-06	0.999999
rad67	6.22225e-07	1.000000	6.22225e-07	1.000000
rad35	2.72481e-07	1.000000	2.72481e-07	1.000000
Ph+Allene	1.98945e-07	1.000000	1.98945e-07	1.000000
Benzene+cycloprop-2-enylidene	1.05797e-07	1.000000	1.05797e-07	1.000000
PhCH2CCH+H	2.57398e-08	1.000000	2.57398e-08	1.000000
PAH7+H	2.49241e-08	1.000000	2.49241e-08	1.000000
rad39	7.03402e-09	1.000000	7.03402e-09	1.000000
rad37	6.59772e-09	1.000000	6.59772e-09	1.000000
rad30	5.12565e-09	1.000000	5.12565e-09	1.000000
PAH9+H	3.60876e-10	1.000000	3.60876e-10	1.000000
rad38	1.57193e-10	1.000000	1.57193e-10	1.000000
rad60syn	2.47457e-11	1.000000	2.47457e-11	1.000000
rad60anti	1.21971e-11	1.000000	1.21971e-11	1.000000
PAH10+CH3	1.14592e-11	1.000000	1.14592e-11	1.000000

PAH3+H	1.12460e-11	1.00000	1.12460e-11	1.00000
rad46	9.72339e-12	1.00000	9.72339e-12	1.00000
PhcycC3H3_A+H	2.33055e-12	1.00000	2.33055e-12	1.00000
rad59	2.28644e-12	1.00000	2.28644e-12	1.00000
rad43	4.93134e-13	1.00000	4.93134e-13	1.00000
rad54	4.22329e-13	1.00000	4.22329e-13	1.00000
rad62	1.07950e-13	1.00000	1.07950e-13	1.00000
rad50	7.74708e-14	1.00000	7.74708e-14	1.00000
Benzene+cycloprop-1-enylidene	6.98038e-14	1.00000	6.98038e-14	1.00000
rad70	8.06778e-15	1.00000	8.06778e-15	1.00000
Phenyl+cycC3H4	7.86468e-15	1.00000	0.00000	1.00000
rad55	3.56771e-15	1.00000	3.56771e-15	1.00000
PAH1+H	2.06248e-15	1.00000	2.06248e-15	1.00000
rad52	5.66688e-16	1.00000	5.66688e-16	1.00000
PhcycC3H3_B+H	3.56809e-16	1.00000	3.56809e-16	1.00000
rad58	2.12353e-16	1.00000	2.12353e-16	1.00000
rad51	1.64153e-16	1.00000	1.64153e-16	1.00000
rad34	1.10591e-16	1.00000	1.10591e-16	1.00000
rad41	1.79637e-17	1.00000	1.79637e-17	1.00000
rad42	1.49199e-17	1.00000	1.49199e-17	1.00000
rad65	3.52593e-18	1.00000	3.52593e-18	1.00000
rad53	5.31291e-21	1.00000	5.31291e-21	1.00000
rad64	3.40958e-22	1.00000	3.40958e-22	1.00000
rad6	3.93231e-24	1.00000	3.93231e-24	1.00000
rad61	9.89207e-25	1.00000	9.89207e-25	1.00000
rad56	1.24741e-26	1.00000	1.24741e-26	1.00000
rad28	5.56563e-27	1.00000	5.56563e-27	1.00000
rad2	1.73197e-27	1.00000	1.73197e-27	1.00000
rad26	1.05786e-27	1.00000	1.05786e-27	1.00000
rad68syn	6.17061e-28	1.00000	6.17061e-28	1.00000
rad68anti	4.99488e-28	1.00000	4.99488e-28	1.00000
rad7	2.88051e-28	1.00000	2.88051e-28	1.00000
rad1	1.12038e-28	1.00000	1.12038e-28	1.00000
rad10	8.82270e-29	1.00000	8.82270e-29	1.00000
rad11	7.09334e-29	1.00000	7.09334e-29	1.00000
rad3	1.09095e-29	1.00000	1.09095e-29	1.00000
rad47	6.47679e-30	1.00000	6.47679e-30	1.00000
rad4	5.54085e-30	1.00000	5.54085e-30	1.00000
rad13	1.59633e-30	1.00000	1.59633e-30	1.00000
rad9	1.21786e-31	1.00000	1.21786e-31	1.00000
rad40syn	1.64573e-32	1.00000	1.64573e-32	1.00000
rad19anti	1.46745e-32	1.00000	1.46745e-32	1.00000
rad40anti	1.29414e-32	1.00000	1.29414e-32	1.00000
rad14	4.65991e-33	1.00000	4.65991e-33	1.00000
rad33	3.02061e-33	1.00000	3.02061e-33	1.00000
rad25	2.63797e-33	1.00000	2.63797e-33	1.00000
rad73	1.92332e-33	1.00000	1.92332e-33	1.00000
rad27	1.49980e-33	1.00000	1.49980e-33	1.00000
rad5	5.95533e-35	1.00000	5.95533e-35	1.00000
rad15	5.32310e-35	1.00000	5.32310e-35	1.00000
PAH8+H	4.13571e-35	1.00000	4.13571e-35	1.00000
rad31	3.81523e-37	1.00000	3.81523e-37	1.00000
rad23	2.89582e-38	1.00000	2.89582e-38	1.00000
rad71	1.32207e-38	1.00000	1.32207e-38	1.00000
rad20	1.06999e-38	1.00000	1.06999e-38	1.00000
rad21	7.99805e-39	1.00000	7.99805e-39	1.00000
rad12	6.02237e-40	1.00000	6.02237e-40	1.00000
rad45	2.06902e-40	1.00000	2.06902e-40	1.00000
rad22	9.47931e-41	1.00000	9.47931e-41	1.00000
rad18	4.58621e-41	1.00000	4.58621e-41	1.00000
rad36	1.26777e-41	1.00000	1.26777e-41	1.00000
rad19syn	9.31466e-42	1.00000	9.31466e-42	1.00000
rad24	8.90279e-46	1.00000	8.90279e-46	1.00000
rad8	4.02268e-63	1.00000	4.02268e-63	1.00000

0.100000000E-03 Pa, 130.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.81236e-15 (1.00)	3.81236e-15 (1.00)
Formation of rad19	3.81236e-15 (1.000)	3.81236e-15 (1.000)
H-abstraction to cyc2enyl	1.44825e-21 (3.80e-07)	1.44825e-21 (3.80e-07)
H-abstraction to cyclenyl	2.94348e-27 (7.72e-13)	2.94348e-27 (7.72e-13)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999713	0.999713	0.999713	0.999713
PhCHCCH2+H	0.000272881	0.999986	0.000272881	0.999986
PhCCH+CH3	4.80153e-06	0.999990	4.80153e-06	0.999990
C2H2+PhCH2	3.57963e-06	0.999994	3.57963e-06	0.999994

PhCCCH3+H	2.76568e-06	0.999997	2.76568e-06	0.999997
Ph+MeAc	2.16669e-06	0.999999	2.16669e-06	0.999999
rad67	6.46537e-07	0.999999	6.46537e-07	0.999999
Benzene+cycloprop-2-enylidene	3.79882e-07	1.000000	3.79882e-07	1.000000
rad35	2.82679e-07	1.000000	2.82679e-07	1.000000
Ph+Allene	2.10171e-07	1.000000	2.10171e-07	1.000000
PhCH2CCH+H	2.74418e-08	1.000000	2.74418e-08	1.000000
PAH7+H	2.61176e-08	1.000000	2.61176e-08	1.000000
rad39	7.37103e-09	1.000000	7.37103e-09	1.000000
rad37	6.93325e-09	1.000000	6.93325e-09	1.000000
rad30	5.32332e-09	1.000000	5.32332e-09	1.000000
PAH9+H	3.79198e-10	1.000000	3.79198e-10	1.000000
rad38	1.66031e-10	1.000000	1.66031e-10	1.000000
rad60syn	2.61046e-11	1.000000	2.61046e-11	1.000000
rad60anti	1.28850e-11	1.000000	1.28850e-11	1.000000
PAH10+CH3	1.27170e-11	1.000000	1.27170e-11	1.000000
PAH3+H	1.21014e-11	1.000000	1.21014e-11	1.000000
rad46	1.03117e-11	1.000000	1.03117e-11	1.000000
PhcycC3H3_A+H	2.92360e-12	1.000000	2.92360e-12	1.000000
rad59	2.45280e-12	1.000000	2.45280e-12	1.000000
Benzene+cycloprop-1-enylidene	7.72089e-13	1.000000	7.72089e-13	1.000000
rad43	5.40146e-13	1.000000	5.40146e-13	1.000000
rad54	4.68137e-13	1.000000	4.68137e-13	1.000000
rad62	1.18544e-13	1.000000	1.18544e-13	1.000000
rad50	8.45242e-14	1.000000	8.45242e-14	1.000000
Phenyl+cycC3H4	1.18041e-14	1.000000	0.000000	1.000000
rad70	9.23845e-15	1.000000	9.23845e-15	1.000000
rad55	4.08798e-15	1.000000	4.08798e-15	1.000000
PAH1+H	2.48388e-15	1.000000	2.48388e-15	1.000000
PhcycC3H3_B+H	8.71416e-16	1.000000	8.71416e-16	1.000000
rad52	6.31956e-16	1.000000	6.31956e-16	1.000000
rad58	2.46719e-16	1.000000	2.46719e-16	1.000000
rad51	1.88032e-16	1.000000	1.88032e-16	1.000000
rad34	1.33591e-16	1.000000	1.33591e-16	1.000000
rad41	2.28985e-17	1.000000	2.28985e-17	1.000000
rad42	1.85489e-17	1.000000	1.85489e-17	1.000000
rad65	4.09076e-18	1.000000	4.09076e-18	1.000000
rad53	1.20421e-20	1.000000	1.20421e-20	1.000000
rad64	1.00143e-21	1.000000	1.00143e-21	1.000000
rad61	6.20138e-24	1.000000	6.20138e-24	1.000000
rad6	2.87511e-24	1.000000	2.87511e-24	1.000000
rad56	1.06322e-25	1.000000	1.06322e-25	1.000000
rad68syn	6.24497e-27	1.000000	6.24497e-27	1.000000
rad68anti	5.02752e-27	1.000000	5.02752e-27	1.000000
rad28	4.16403e-27	1.000000	4.16403e-27	1.000000
rad2	1.26772e-27	1.000000	1.26772e-27	1.000000
rad26	8.35073e-28	1.000000	8.35073e-28	1.000000
rad7	2.10872e-28	1.000000	2.10872e-28	1.000000
rad1	8.23530e-29	1.000000	8.23530e-29	1.000000
rad10	6.46865e-29	1.000000	6.46865e-29	1.000000
rad11	5.19360e-29	1.000000	5.19360e-29	1.000000
rad3	7.98170e-30	1.000000	7.98170e-30	1.000000
rad47	6.28154e-30	1.000000	6.28154e-30	1.000000
rad4	4.05820e-30	1.000000	4.05820e-30	1.000000
rad13	1.17046e-30	1.000000	1.17046e-30	1.000000
rad40syn	4.43600e-31	1.000000	4.43600e-31	1.000000
rad40anti	3.49255e-31	1.000000	3.49255e-31	1.000000
rad9	1.21136e-31	1.000000	1.21136e-31	1.000000
rad73	3.97401e-32	1.000000	3.97401e-32	1.000000
rad19anti	2.96700e-32	1.000000	2.96700e-32	1.000000
rad14	4.06386e-33	1.000000	4.06386e-33	1.000000
rad25	2.27569e-33	1.000000	2.27569e-33	1.000000
PAH8+H	2.25812e-33	1.000000	2.25812e-33	1.000000
rad33	2.21750e-33	1.000000	2.21750e-33	1.000000
rad27	1.18442e-33	1.000000	1.18442e-33	1.000000
rad15	5.30350e-35	1.000000	5.30350e-35	1.000000
rad5	5.06915e-35	1.000000	5.06915e-35	1.000000
rad71	1.12265e-36	1.000000	1.12265e-36	1.000000
rad31	6.15065e-37	1.000000	6.15065e-37	1.000000
rad23	1.95788e-38	1.000000	1.95788e-38	1.000000
rad20	8.36580e-39	1.000000	8.36580e-39	1.000000
rad21	6.27280e-39	1.000000	6.27280e-39	1.000000
rad12	6.04906e-40	1.000000	6.04906e-40	1.000000
rad45	1.39313e-40	1.000000	1.39313e-40	1.000000
rad22	6.71976e-41	1.000000	6.71976e-41	1.000000
rad18	3.59631e-41	1.000000	3.59631e-41	1.000000
rad19syn	2.10397e-41	1.000000	2.10397e-41	1.000000
rad36	8.54231e-42	1.000000	8.54231e-42	1.000000
rad24	9.59606e-46	1.000000	9.59606e-46	1.000000
rad8	5.76932e-63	1.000000	5.76932e-63	1.000000

0.100000000E-03 Pa, 140.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.99515e-15 (1.00)	4.99515e-15 (1.00)
Formation of rad19	4.99514e-15 (1.000)	4.99514e-15 (1.000)
H-abstraction to cyc2enyl	5.62488e-21 (1.13e-06)	5.62488e-21 (1.13e-06)
H-abstraction to cyclenyl	3.00047e-26 (6.01e-12)	3.00047e-26 (6.01e-12)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999703	0.999703	0.999703	0.999703
PhCHCCH2+H	0.000280917	0.999984	0.000280917	0.999984
PhCCH+CH3	4.95293e-06	0.999989	4.95293e-06	0.999989
C2H2+PhCH2	3.71775e-06	0.999992	3.71775e-06	0.999992
PhCCCH3+H	2.86259e-06	0.999995	2.86259e-06	0.999995
Ph+MeAc	2.26006e-06	0.999998	2.26006e-06	0.999998
Benzene+cycloprop-2-enylidene	1.12607e-06	0.999999	1.12607e-06	0.999999
rad67	6.73023e-07	0.999999	6.73023e-07	0.999999
rad35	2.93770e-07	1.000000	2.93770e-07	1.000000
Ph+Allene	2.22655e-07	1.000000	2.22655e-07	1.000000
PhCH2CCH+H	2.93544e-08	1.000000	2.93544e-08	1.000000
PAH7+H	2.74315e-08	1.000000	2.74315e-08	1.000000
rad39	7.74190e-09	1.000000	7.74190e-09	1.000000
rad37	7.30374e-09	1.000000	7.30374e-09	1.000000
rad30	5.53887e-09	1.000000	5.53887e-09	1.000000
PAH9+H	3.99474e-10	1.000000	3.99474e-10	1.000000
rad38	1.75884e-10	1.000000	1.75884e-10	1.000000
rad60syn	2.76144e-11	1.000000	2.76144e-11	1.000000
PAH10+CH3	1.41941e-11	1.000000	1.41941e-11	1.000000
rad60anti	1.36504e-11	1.000000	1.36504e-11	1.000000
PAH3+H	1.30742e-11	1.000000	1.30742e-11	1.000000
rad46	1.09701e-11	1.000000	1.09701e-11	1.000000
Benzene+cycloprop-1-enylidene	6.00677e-12	1.000000	6.00677e-12	1.000000
PhcycC3H3_A+H	3.69543e-12	1.000000	3.69543e-12	1.000000
rad59	2.64124e-12	1.000000	2.64124e-12	1.000000
rad43	5.94442e-13	1.000000	5.94442e-13	1.000000
rad54	5.21894e-13	1.000000	5.21894e-13	1.000000
rad62	1.30792e-13	1.000000	1.30792e-13	1.000000
rad50	9.26870e-14	1.000000	9.26870e-14	1.000000
Phenyl+cycC3H4	1.75978e-14	1.000000	0.000000	1.000000
rad70	1.06595e-14	1.000000	1.06595e-14	1.000000
rad55	4.71959e-15	1.000000	4.71959e-15	1.000000
PAH1+H	3.02067e-15	1.000000	3.02067e-15	1.000000
PhcycC3H3_B+H	1.95210e-15	1.000000	1.95210e-15	1.000000
rad52	7.09379e-16	1.000000	7.09379e-16	1.000000
rad58	2.89094e-16	1.000000	2.89094e-16	1.000000
rad51	2.17200e-16	1.000000	2.17200e-16	1.000000
rad34	1.62980e-16	1.000000	1.62980e-16	1.000000
rad41	2.94362e-17	1.000000	2.94362e-17	1.000000
rad42	2.32495e-17	1.000000	2.32495e-17	1.000000
rad65	4.78918e-18	1.000000	4.78918e-18	1.000000
rad53	2.52905e-20	1.000000	2.52905e-20	1.000000
rad64	2.62047e-21	1.000000	2.62047e-21	1.000000
rad61	3.06689e-23	1.000000	3.06689e-23	1.000000
rad6	2.16564e-24	1.000000	2.16564e-24	1.000000
rad56	6.80079e-25	1.000000	6.80079e-25	1.000000
rad68syn	4.60290e-26	1.000000	4.60290e-26	1.000000
rad68anti	3.68674e-26	1.000000	3.68674e-26	1.000000
rad28	3.20096e-27	1.000000	3.20096e-27	1.000000
rad2	9.60423e-28	1.000000	9.60423e-28	1.000000
rad26	6.79114e-28	1.000000	6.79114e-28	1.000000
rad7	1.59057e-28	1.000000	1.59057e-28	1.000000
rad1	6.26780e-29	1.000000	6.26780e-29	1.000000
rad10	4.90907e-29	1.000000	4.90907e-29	1.000000
rad11	3.91818e-29	1.000000	3.91818e-29	1.000000
rad40syn	7.53653e-30	1.000000	7.53653e-30	1.000000
rad47	6.17180e-30	1.000000	6.17180e-30	1.000000
rad3	6.03812e-30	1.000000	6.03812e-30	1.000000
rad40anti	5.95184e-30	1.000000	5.95184e-30	1.000000
rad4	3.07366e-30	1.000000	3.07366e-30	1.000000
rad13	8.84236e-31	1.000000	8.84236e-31	1.000000
rad73	5.47774e-31	1.000000	5.47774e-31	1.000000
rad9	1.25002e-31	1.000000	1.25002e-31	1.000000
PAH8+H	6.68140e-32	1.000000	6.68140e-32	1.000000
rad19anti	6.35625e-32	1.000000	6.35625e-32	1.000000
rad14	3.66181e-33	1.000000	3.66181e-33	1.000000
rad25	2.03447e-33	1.000000	2.03447e-33	1.000000
rad33	1.67742e-33	1.000000	1.67742e-33	1.000000

rad27	9.76903e-34	1.000000	9.76903e-34	1.000000
rad15	5.48216e-35	1.000000	5.48216e-35	1.000000
rad5	4.38079e-35	1.000000	4.38079e-35	1.000000
rad71	4.16928e-35	1.000000	4.16928e-35	1.000000
rad31	1.07116e-36	1.000000	1.07116e-36	1.000000
rad23	1.41511e-38	1.000000	1.41511e-38	1.000000
rad20	6.76932e-39	1.000000	6.76932e-39	1.000000
rad21	5.09401e-39	1.000000	5.09401e-39	1.000000
rad12	6.31091e-40	1.000000	6.31091e-40	1.000000
rad45	1.00347e-40	1.000000	1.00347e-40	1.000000
rad19syn	4.98180e-41	1.000000	4.98180e-41	1.000000
rad22	4.96193e-41	1.000000	4.96193e-41	1.000000
rad18	2.91655e-41	1.000000	2.91655e-41	1.000000
rad36	6.15873e-42	1.000000	6.15873e-42	1.000000
rad24	1.10224e-45	1.000000	1.10224e-45	1.000000
rad8	8.48127e-63	1.000000	8.48127e-63	1.000000

0.100000000E-03 Pa, 150.000000 K

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Rate constant      | True (fraction)      Effective (fraction)
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Total              | 6.34137e-15 (1.00   ) 6.34137e-15 (1.00   )
Formation of rad19| 6.34135e-15 (1.000  ) 6.34135e-15 (1.000  )
H-abstraction to cyc2enyl| 1.81685e-20 (2.87e-06) 1.81685e-20 (2.87e-06)
H-abstraction to cyclenyl| 2.23765e-25 (3.53e-11) 2.23765e-25 (3.53e-11)

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species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999692	0.999692	0.999692	0.999692
PhCHCCH2+H	0.000289592	0.999982	0.000289592	0.999982
PhCCH+CH3	5.11622e-06	0.999987	5.11622e-06	0.999987
C2H2+PhCH2	3.86832e-06	0.999991	3.86832e-06	0.999991
PhCCCH3+H	2.96768e-06	0.999994	2.96768e-06	0.999994
Benzene+cycloprop-2-enylidene	2.86508e-06	0.999997	2.86508e-06	0.999997
Ph+MeAc	2.36224e-06	0.999999	2.36224e-06	0.999999
rad67	7.01968e-07	1.000000	7.01968e-07	1.000000
rad35	3.05868e-07	1.000000	3.05868e-07	1.000000
Ph+Allene	2.36593e-07	1.000000	2.36593e-07	1.000000
PhCH2CCH+H	3.15138e-08	1.000000	3.15138e-08	1.000000
PAH7+H	2.88834e-08	1.000000	2.88834e-08	1.000000
rad39	8.15153e-09	1.000000	8.15153e-09	1.000000
rad37	7.71443e-09	1.000000	7.71443e-09	1.000000
rad30	5.77469e-09	1.000000	5.77469e-09	1.000000
PAH9+H	4.22004e-10	1.000000	4.22004e-10	1.000000
rad38	1.86916e-10	1.000000	1.86916e-10	1.000000
Benzene+cycloprop-1-enylidene	3.52865e-11	1.000000	3.52865e-11	1.000000
rad60syn	2.92987e-11	1.000000	2.92987e-11	1.000000
PAH10+CH3	1.59405e-11	1.000000	1.59405e-11	1.000000
rad60anti	1.45059e-11	1.000000	1.45059e-11	1.000000
PAH3+H	1.41865e-11	1.000000	1.41865e-11	1.000000
rad46	1.17103e-11	1.000000	1.17103e-11	1.000000
PhcycC3H3_A+H	4.70694e-12	1.000000	4.70694e-12	1.000000
rad59	2.85582e-12	1.000000	2.85582e-12	1.000000
rad43	6.57515e-13	1.000000	6.57515e-13	1.000000
rad54	5.85419e-13	1.000000	5.85419e-13	1.000000
rad62	1.45029e-13	1.000000	1.45029e-13	1.000000
rad50	1.02197e-13	1.000000	1.02197e-13	1.000000
Phenyl+cycC3H4	2.61242e-14	1.000000	0.000000	1.000000
rad70	1.23989e-14	1.000000	1.23989e-14	1.000000
rad55	5.49265e-15	1.000000	5.49265e-15	1.000000
PhcycC3H3_B+H	4.08980e-15	1.000000	4.08980e-15	1.000000
PAH1+H	3.71098e-15	1.000000	3.71098e-15	1.000000
rad52	8.01962e-16	1.000000	8.01962e-16	1.000000
rad58	3.41819e-16	1.000000	3.41819e-16	1.000000
rad51	2.53169e-16	1.000000	2.53169e-16	1.000000
rad34	2.00898e-16	1.000000	2.00898e-16	1.000000
rad41	3.81680e-17	1.000000	3.81680e-17	1.000000
rad42	2.93828e-17	1.000000	2.93828e-17	1.000000
rad65	5.66144e-18	1.000000	5.66144e-18	1.000000
rad53	5.02075e-20	1.000000	5.02075e-20	1.000000
rad64	6.27479e-21	1.000000	6.27479e-21	1.000000
rad61	1.25963e-22	1.000000	1.25963e-22	1.000000
rad56	3.47171e-24	1.000000	3.47171e-24	1.000000
rad6	1.67610e-24	1.000000	1.67610e-24	1.000000
rad68syn	2.64352e-25	1.000000	2.64352e-25	1.000000
rad68anti	2.10655e-25	1.000000	2.10655e-25	1.000000
rad28	2.52045e-27	1.000000	2.52045e-27	1.000000
rad2	7.52899e-28	1.000000	7.52899e-28	1.000000
rad26	5.68267e-28	1.000000	5.68267e-28	1.000000
rad7	1.23287e-28	1.000000	1.23287e-28	1.000000

rad40syn	8.88015e-29	1.00000	8.88015e-29	1.00000
rad40anti	7.03997e-29	1.00000	7.03997e-29	1.00000
rad1	4.93817e-29	1.00000	4.93817e-29	1.00000
rad10	3.85547e-29	1.00000	3.85547e-29	1.00000
rad11	3.03771e-29	1.00000	3.03771e-29	1.00000
rad47	6.14009e-30	1.00000	6.14009e-30	1.00000
rad73	5.47731e-30	1.00000	5.47731e-30	1.00000
rad3	4.71958e-30	1.00000	4.71958e-30	1.00000
rad4	2.40560e-30	1.00000	2.40560e-30	1.00000
PAH8+H	1.26388e-30	1.00000	1.26388e-30	1.00000
rad13	6.86460e-31	1.00000	6.86460e-31	1.00000
rad19anti	1.44040e-31	1.00000	1.44040e-31	1.00000
rad9	1.33406e-31	1.00000	1.33406e-31	1.00000
rad14	3.39249e-33	1.00000	3.39249e-33	1.00000
rad25	1.87383e-33	1.00000	1.87383e-33	1.00000
rad33	1.30404e-33	1.00000	1.30404e-33	1.00000
rad71	9.41845e-34	1.00000	9.41845e-34	1.00000
rad27	8.39904e-34	1.00000	8.39904e-34	1.00000
rad15	5.86112e-35	1.00000	5.86112e-35	1.00000
rad5	3.83427e-35	1.00000	3.83427e-35	1.00000
rad31	1.98221e-36	1.00000	1.98221e-36	1.00000
rad23	1.11153e-38	1.00000	1.11153e-38	1.00000
rad20	5.65721e-39	1.00000	5.65721e-39	1.00000
rad21	4.27509e-39	1.00000	4.27509e-39	1.00000
rad12	6.81918e-40	1.00000	6.81918e-40	1.00000
rad19syn	1.23836e-40	1.00000	1.23836e-40	1.00000
rad45	7.85955e-41	1.00000	7.85955e-41	1.00000
rad22	3.80380e-41	1.00000	3.80380e-41	1.00000
rad18	2.43974e-41	1.00000	2.43974e-41	1.00000
rad36	4.82946e-42	1.00000	4.82946e-42	1.00000
rad24	1.33563e-45	1.00000	1.33563e-45	1.00000
rad8	1.27618e-62	1.00000	1.27618e-62	1.00000

0.100000000E-03 Pa, 160.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.84423e-15 (1.00)	7.84423e-15 (1.00)
Formation of rad19	7.84418e-15 (1.000)	7.84418e-15 (1.000)
H-abstraction to cyc2enyl	5.05321e-20 (6.44e-06)	5.05321e-20 (6.44e-06)
H-abstraction to cyclenyl	1.29479e-24 (1.65e-10)	1.29479e-24 (1.65e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999679	0.999679	0.999679	0.999679
PhCHCCH2+H	0.000298981	0.999978	0.000298981	0.999978
Benzene+cycloprop-2-enylidene	6.44194e-06	0.999984	6.44194e-06	0.999984
PhCCH+CH3	5.29274e-06	0.999989	5.29274e-06	0.999989
C2H2+PhCH2	4.03295e-06	0.999993	4.03295e-06	0.999993
PhCCCH3+H	3.08198e-06	0.999996	3.08198e-06	0.999996
Ph+MeAc	2.47440e-06	0.999999	2.47440e-06	0.999999
rad67	7.33696e-07	1.000000	7.33696e-07	1.000000
rad35	3.19106e-07	1.000000	3.19106e-07	1.000000
Ph+Allene	2.52221e-07	1.000000	2.52221e-07	1.000000
PhCH2CCH+H	3.39636e-08	1.000000	3.39636e-08	1.000000
PAH7+H	3.04937e-08	1.000000	3.04937e-08	1.000000
rad39	8.60554e-09	1.000000	8.60554e-09	1.000000
rad37	8.17135e-09	1.000000	8.17135e-09	1.000000
rad30	6.03350e-09	1.000000	6.03350e-09	1.000000
PAH9+H	4.47139e-10	1.000000	4.47139e-10	1.000000
rad38	1.99328e-10	1.000000	1.99328e-10	1.000000
Benzene+cycloprop-1-enylidene	1.65062e-10	1.000000	1.65062e-10	1.000000
rad60syn	3.11858e-11	1.000000	3.11858e-11	1.000000
PAH10+CH3	1.80192e-11	1.000000	1.80192e-11	1.000000
rad60anti	1.54660e-11	1.000000	1.54660e-11	1.000000
PAH3+H	1.54652e-11	1.000000	1.54652e-11	1.000000
rad46	1.25464e-11	1.000000	1.25464e-11	1.000000
PhcycC3H3_A+H	6.04093e-12	1.000000	6.04093e-12	1.000000
rad59	3.10144e-12	1.000000	3.10144e-12	1.000000
rad43	7.31199e-13	1.000000	7.31199e-13	1.000000
rad54	6.60996e-13	1.000000	6.60996e-13	1.000000
rad62	1.61670e-13	1.000000	1.61670e-13	1.000000
rad50	1.13348e-13	1.000000	1.13348e-13	1.000000
Phenyl+cycC3H4	3.86829e-14	1.000000	0.000000	1.000000
rad70	1.45450e-14	1.000000	1.45450e-14	1.000000
PhcycC3H3_B+H	8.12740e-15	1.000000	8.12740e-15	1.000000
rad55	6.44640e-15	1.000000	6.44640e-15	1.000000
PAH1+H	4.60675e-15	1.000000	4.60675e-15	1.000000
rad52	9.13556e-16	1.000000	9.13556e-16	1.000000
rad58	4.08004e-16	1.000000	4.08004e-16	1.000000

rad51	2.97947e-16	1.00000	2.97947e-16	1.00000
rad34	2.50268e-16	1.00000	2.50268e-16	1.00000
rad41	4.99157e-17	1.00000	4.99157e-17	1.00000
rad42	3.74393e-17	1.00000	3.74393e-17	1.00000
rad65	6.76143e-18	1.00000	6.76143e-18	1.00000
rad53	9.55472e-20	1.00000	9.55472e-20	1.00000
rad64	1.40199e-20	1.00000	1.40199e-20	1.00000
rad61	4.46329e-22	1.00000	4.46329e-22	1.00000
rad56	1.48087e-23	1.00000	1.48087e-23	1.00000
rad6	1.33173e-24	1.00000	1.33173e-24	1.00000
rad68syn	1.24418e-24	1.00000	1.24418e-24	1.00000
rad68anti	9.86142e-25	1.00000	9.86142e-25	1.00000
rad28	2.02949e-27	1.00000	2.02949e-27	1.00000
rad40syn	7.79816e-28	1.00000	7.79816e-28	1.00000
rad40anti	6.20621e-28	1.00000	6.20621e-28	1.00000
rad2	6.12927e-28	1.00000	6.12927e-28	1.00000
rad26	4.89757e-28	1.00000	4.89757e-28	1.00000
rad7	9.81137e-29	1.00000	9.81137e-29	1.00000
rad73	4.23079e-29	1.00000	4.23079e-29	1.00000
rad1	4.04211e-29	1.00000	4.04211e-29	1.00000
rad10	3.14460e-29	1.00000	3.14460e-29	1.00000
rad11	2.41811e-29	1.00000	2.41811e-29	1.00000
PAH8+H	1.68146e-29	1.00000	1.68146e-29	1.00000
rad47	6.18362e-30	1.00000	6.18362e-30	1.00000
rad3	3.82117e-30	1.00000	3.82117e-30	1.00000
rad4	1.95048e-30	1.00000	1.95048e-30	1.00000
rad13	5.47170e-31	1.00000	5.47170e-31	1.00000
rad19anti	3.44740e-31	1.00000	3.44740e-31	1.00000
rad9	1.46995e-31	1.00000	1.46995e-31	1.00000
rad71	1.46141e-32	1.00000	1.46141e-32	1.00000
rad14	3.22077e-33	1.00000	3.22077e-33	1.00000
rad25	1.76987e-33	1.00000	1.76987e-33	1.00000
rad33	1.04095e-33	1.00000	1.04095e-33	1.00000
rad27	7.52347e-34	1.00000	7.52347e-34	1.00000
rad15	6.47006e-35	1.00000	6.47006e-35	1.00000
rad5	3.39216e-35	1.00000	3.39216e-35	1.00000
rad31	3.86530e-36	1.00000	3.86530e-36	1.00000
rad23	9.86895e-39	1.00000	9.86895e-39	1.00000
rad20	4.88180e-39	1.00000	4.88180e-39	1.00000
rad21	3.70744e-39	1.00000	3.70744e-39	1.00000
rad12	7.62061e-40	1.00000	7.62061e-40	1.00000
rad19syn	3.23538e-40	1.00000	3.23538e-40	1.00000
rad45	6.96315e-41	1.00000	6.96315e-41	1.00000
rad22	3.02719e-41	1.00000	3.02719e-41	1.00000
rad18	2.10305e-41	1.00000	2.10305e-41	1.00000
rad36	4.28486e-42	1.00000	4.28486e-42	1.00000
rad24	1.69268e-45	1.00000	1.69268e-45	1.00000
rad8	1.96353e-62	1.00000	1.96353e-62	1.00000

0.100000000E-03 Pa, 170.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	9.49598e-15 (1.00)	9.49598e-15 (1.00)
Formation of rad19	9.49586e-15 (1.000)	9.49586e-15 (1.000)
H-abstraction to cyc2enyl	1.24279e-19 (1.31e-05)	1.24279e-19 (1.31e-05)
H-abstraction to cyclenyl	6.08025e-24 (6.40e-10)	6.08025e-24 (6.40e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999661	0.999661	0.999661	0.999661
PhCHCCH2+H	0.000309167	0.999970	0.000309167	0.999970
Benzene+cycloprop-2-enylidene	1.30875e-05	0.999983	1.30875e-05	0.999983
PhCCH+CH3	5.48397e-06	0.999989	5.48397e-06	0.999989
C2H2+PhCH2	4.21345e-06	0.999993	4.21345e-06	0.999993
PhCCCH3+H	3.20659e-06	0.999996	3.20659e-06	0.999996
Ph+MeAc	2.59787e-06	0.999999	2.59787e-06	0.999999
rad67	7.68574e-07	0.999999	7.68574e-07	0.999999
rad35	3.33630e-07	1.000000	3.33630e-07	1.000000
Ph+Allene	2.69811e-07	1.000000	2.69811e-07	1.000000
PhCH2CCH+H	3.67547e-08	1.000000	3.67547e-08	1.000000
PAH7+H	3.22854e-08	1.000000	3.22854e-08	1.000000
rad39	9.11041e-09	1.000000	9.11041e-09	1.000000
rad37	8.68150e-09	1.000000	8.68150e-09	1.000000
rad30	6.31839e-09	1.000000	6.31839e-09	1.000000
Benzene+cycloprop-1-enylidene	6.40297e-10	1.000000	6.40297e-10	1.000000
PAH9+H	4.75289e-10	1.000000	4.75289e-10	1.000000
rad38	2.13349e-10	1.000000	2.13349e-10	1.000000
rad60syn	3.33085e-11	1.000000	3.33085e-11	1.000000
PAH10+CH3	2.05093e-11	1.000000	2.05093e-11	1.000000

PAH3+H	1.69430e-11	1.00000	1.69430e-11	1.00000
rad60anti	1.65480e-11	1.00000	1.65480e-11	1.00000
rad46	1.34951e-11	1.00000	1.34951e-11	1.00000
PhcycC3H3_A+H	7.80973e-12	1.00000	7.80973e-12	1.00000
rad59	3.38399e-12	1.00000	3.38399e-12	1.00000
rad43	8.17739e-13	1.00000	8.17739e-13	1.00000
rad54	7.51489e-13	1.00000	7.51489e-13	1.00000
rad62	1.81219e-13	1.00000	1.81219e-13	1.00000
rad50	1.26510e-13	1.00000	1.26510e-13	1.00000
Phenyl+cycC3H4	5.71891e-14	1.00000	0.00000	1.00000
rad70	1.72136e-14	1.00000	1.72136e-14	1.00000
PhcycC3H3_B+H	1.54798e-14	1.00000	1.54798e-14	1.00000
rad55	7.63185e-15	1.00000	7.63185e-15	1.00000
PAH1+H	5.77882e-15	1.00000	5.77882e-15	1.00000
rad52	1.04911e-15	1.00000	1.04911e-15	1.00000
rad58	4.91780e-16	1.00000	4.91780e-16	1.00000
rad51	3.54200e-16	1.00000	3.54200e-16	1.00000
rad34	3.15090e-16	1.00000	3.15090e-16	1.00000
rad41	6.58200e-17	1.00000	6.58200e-17	1.00000
rad42	4.80835e-17	1.00000	4.80835e-17	1.00000
rad65	8.16155e-18	1.00000	8.16155e-18	1.00000
rad53	1.76029e-19	1.00000	1.76029e-19	1.00000
rad64	2.96507e-20	1.00000	2.96507e-20	1.00000
rad61	1.40406e-21	1.00000	1.40406e-21	1.00000
rad56	5.46511e-23	1.00000	5.46511e-23	1.00000
rad68syn	4.98610e-24	1.00000	4.98610e-24	1.00000
rad68anti	3.92930e-24	1.00000	3.92930e-24	1.00000
rad6	1.08753e-24	1.00000	1.08753e-24	1.00000
rad40syn	5.38958e-27	1.00000	5.38958e-27	1.00000
rad40anti	4.30388e-27	1.00000	4.30388e-27	1.00000
rad28	1.67081e-27	1.00000	1.67081e-27	1.00000
rad2	5.22328e-28	1.00000	5.22328e-28	1.00000
rad26	4.36252e-28	1.00000	4.36252e-28	1.00000
rad73	2.64776e-28	1.00000	2.64776e-28	1.00000
PAH8+H	1.67788e-28	1.00000	1.67788e-28	1.00000
rad7	8.02585e-29	1.00000	8.02585e-29	1.00000
rad1	3.46516e-29	1.00000	3.46516e-29	1.00000
rad10	2.68515e-29	1.00000	2.68515e-29	1.00000
rad11	1.97863e-29	1.00000	1.97863e-29	1.00000
rad47	6.30365e-30	1.00000	6.30365e-30	1.00000
rad3	3.22604e-30	1.00000	3.22604e-30	1.00000
rad4	1.64931e-30	1.00000	1.64931e-30	1.00000
rad19anti	8.70033e-31	1.00000	8.70033e-31	1.00000
rad13	4.48321e-31	1.00000	4.48321e-31	1.00000
rad9	1.67239e-31	1.00000	1.67239e-31	1.00000
rad71	1.66935e-31	1.00000	1.66935e-31	1.00000
rad14	3.12754e-33	1.00000	3.12754e-33	1.00000
rad25	1.70812e-33	1.00000	1.70812e-33	1.00000
rad33	8.54220e-34	1.00000	8.54220e-34	1.00000
rad27	7.02813e-34	1.00000	7.02813e-34	1.00000
rad15	7.37510e-35	1.00000	7.37510e-35	1.00000
rad5	3.02860e-35	1.00000	3.02860e-35	1.00000
rad31	7.90996e-36	1.00000	7.90996e-36	1.00000
rad23	1.05809e-38	1.00000	1.05809e-38	1.00000
rad20	4.35710e-39	1.00000	4.35710e-39	1.00000
rad21	3.32834e-39	1.00000	3.32834e-39	1.00000
rad19syn	8.89196e-40	1.00000	8.89196e-40	1.00000
rad12	8.81119e-40	1.00000	8.81119e-40	1.00000
rad45	7.45408e-41	1.00000	7.45408e-41	1.00000
rad22	2.51419e-41	1.00000	2.51419e-41	1.00000
rad18	1.86940e-41	1.00000	1.86940e-41	1.00000
rad36	4.59500e-42	1.00000	4.59500e-42	1.00000
rad24	2.22817e-45	1.00000	2.22817e-45	1.00000
rad8	3.08703e-62	1.00000	3.08703e-62	1.00000

0.100000000E-03 Pa, 180.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.12884e-14 (1.00)	1.12884e-14 (1.00)
Formation of rad19	1.12881e-14 (1.000)	1.12881e-14 (1.000)
H-abstraction to cyc2enyl	2.75916e-19 (2.44e-05)	2.75916e-19 (2.44e-05)
H-abstraction to cyc1enyl	2.39955e-23 (2.13e-09)	2.39955e-23 (2.13e-09)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999638	0.999638	0.999638	0.999638
PhCHCCH2+H	0.000320238	0.999958	0.000320238	0.999958
Benzene+cycloprop-2-enylidene	2.44424e-05	0.999982	2.44424e-05	0.999982
PhCCH+CH3	5.69151e-06	0.999988	5.69151e-06	0.999988

C2H2+PhCH2	4.41181e-06	0.999992	4.41181e-06	0.999992
PhCCCH3+H	3.34271e-06	0.999996	3.34271e-06	0.999996
Ph+MeAc	2.73412e-06	0.999998	2.73412e-06	0.999998
rad67	8.07010e-07	0.999999	8.07010e-07	0.999999
rad35	3.49603e-07	1.000000	3.49603e-07	1.000000
Ph+Allene	2.89680e-07	1.000000	2.89680e-07	1.000000
PhCH2CCH+H	3.99479e-08	1.000000	3.99479e-08	1.000000
PAH7+H	3.42851e-08	1.000000	3.42851e-08	1.000000
rad39	9.67347e-09	1.000000	9.67347e-09	1.000000
rad37	9.25288e-09	1.000000	9.25288e-09	1.000000
rad30	6.63279e-09	1.000000	6.63279e-09	1.000000
Benzene+cycloprop-1-enylidene	2.12567e-09	1.000000	2.12567e-09	1.000000
PAH9+H	5.06924e-10	1.000000	5.06924e-10	1.000000
rad38	2.29253e-10	1.000000	2.29253e-10	1.000000
rad60syn	3.57045e-11	1.000000	3.57045e-11	1.000000
PAH10+CH3	2.35101e-11	1.000000	2.35101e-11	1.000000
PAH3+H	1.86591e-11	1.000000	1.86591e-11	1.000000
rad60anti	1.77718e-11	1.000000	1.77718e-11	1.000000
rad46	1.45758e-11	1.000000	1.45758e-11	1.000000
PhcycC3H3_A+H	1.01655e-11	1.000000	1.01655e-11	1.000000
rad59	3.71051e-12	1.000000	3.71051e-12	1.000000
rad43	9.19877e-13	1.000000	9.19877e-13	1.000000
rad54	8.60497e-13	1.000000	8.60497e-13	1.000000
rad62	2.04290e-13	1.000000	2.04290e-13	1.000000
rad50	1.42138e-13	1.000000	1.42138e-13	1.000000
Phenyl+cycC3H4	8.44565e-14	1.000000	0.00000	1.000000
PhcycC3H3_B+H	2.84776e-14	1.000000	2.84776e-14	1.000000
rad70	2.05549e-14	1.000000	2.05549e-14	1.000000
rad55	9.11546e-15	1.000000	9.11546e-15	1.000000
PAH1+H	7.32377e-15	1.000000	7.32377e-15	1.000000
rad52	1.21496e-15	1.000000	1.21496e-15	1.000000
rad58	5.98633e-16	1.000000	5.98633e-16	1.000000
rad51	4.25474e-16	1.000000	4.25474e-16	1.000000
rad34	4.00844e-16	1.000000	4.00844e-16	1.000000
rad41	8.74640e-17	1.000000	8.74640e-17	1.000000
rad42	6.22150e-17	1.000000	6.22150e-17	1.000000
rad65	9.95924e-18	1.000000	9.95924e-18	1.000000
rad53	3.16140e-19	1.000000	3.16140e-19	1.000000
rad64	5.99908e-20	1.000000	5.99908e-20	1.000000
rad61	4.00801e-21	1.000000	4.00801e-21	1.000000
rad56	1.79224e-22	1.000000	1.79224e-22	1.000000
rad68syn	1.75238e-23	1.000000	1.75238e-23	1.000000
rad68anti	1.37245e-23	1.000000	1.37245e-23	1.000000
rad6	9.16153e-25	1.000000	9.16153e-25	1.000000
rad40syn	3.05802e-26	1.000000	3.05802e-26	1.000000
rad40anti	2.44831e-26	1.000000	2.44831e-26	1.000000
rad28	1.40865e-27	1.000000	1.40865e-27	1.000000
rad73	1.39312e-27	1.000000	1.39312e-27	1.000000
PAH8+H	1.32188e-27	1.000000	1.32188e-27	1.000000
rad2	4.72551e-28	1.000000	4.72551e-28	1.000000
rad26	4.04192e-28	1.000000	4.04192e-28	1.000000
rad7	6.77323e-29	1.000000	6.77323e-29	1.000000
rad1	3.15528e-29	1.000000	3.15528e-29	1.000000
rad10	2.43414e-29	1.000000	2.43414e-29	1.000000
rad11	1.67036e-29	1.000000	1.67036e-29	1.000000
rad47	6.50539e-30	1.000000	6.50539e-30	1.000000
rad3	2.87485e-30	1.000000	2.87485e-30	1.000000
rad19anti	2.31130e-30	1.000000	2.31130e-30	1.000000
rad71	1.48898e-30	1.000000	1.48898e-30	1.000000
rad4	1.47231e-30	1.000000	1.47231e-30	1.000000
rad13	3.78980e-31	1.000000	3.78980e-31	1.000000
rad9	1.97051e-31	1.000000	1.97051e-31	1.000000
rad14	3.10507e-33	1.000000	3.10507e-33	1.000000
rad25	1.67992e-33	1.000000	1.67992e-33	1.000000
rad33	7.23281e-34	1.000000	7.23281e-34	1.000000
rad27	6.86542e-34	1.000000	6.86542e-34	1.000000
rad15	8.70684e-35	1.000000	8.70684e-35	1.000000
rad5	2.72532e-35	1.000000	2.72532e-35	1.000000
rad31	1.69519e-35	1.000000	1.69519e-35	1.000000
rad23	1.46182e-38	1.000000	1.46182e-38	1.000000
rad20	4.03734e-39	1.000000	4.03734e-39	1.000000
rad21	3.10512e-39	1.000000	3.10512e-39	1.000000
rad19syn	2.57212e-39	1.000000	2.57212e-39	1.000000
rad12	1.05749e-39	1.000000	1.05749e-39	1.000000
rad45	1.02898e-40	1.000000	1.02898e-40	1.000000
rad22	2.21325e-41	1.000000	2.21325e-41	1.000000
rad18	1.71832e-41	1.000000	1.71832e-41	1.000000
rad36	6.35627e-42	1.000000	6.35627e-42	1.000000
rad24	3.03072e-45	1.000000	3.03072e-45	1.000000
rad8	4.95709e-62	1.000000	4.95709e-62	1.000000

0.100000000E-03 Pa, 190.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.32132e-14 (1.00)	1.32132e-14 (1.00)
Formation of rad19	1.32126e-14 (1.000)	1.32126e-14 (1.000)
H-abstraction to cyc2enyl	5.62053e-19 (4.25e-05)	5.62053e-19 (4.25e-05)
H-abstraction to cyclenyl	8.18073e-23 (6.19e-09)	8.18073e-23 (6.19e-09)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999606	0.999606	0.999606	0.999606
PhCHCCH2+H	0.000332293	0.999939	0.000332293	0.999939
Benzene+cycloprop-2-enylidene	4.25373e-05	0.999981	4.25373e-05	0.999981
PhCCH+CH3	5.91706e-06	0.999987	5.91706e-06	0.999987
C2H2+PhCH2	4.63021e-06	0.999992	4.63021e-06	0.999992
PhCCCH3+H	3.49167e-06	0.999995	3.49167e-06	0.999995
Ph+MeAc	2.88479e-06	0.999998	2.88479e-06	0.999998
rad67	8.49457e-07	0.999999	8.49457e-07	0.999999
rad35	3.67207e-07	0.999999	3.67207e-07	0.999999
Ph+Allene	3.12193e-07	1.000000	3.12193e-07	1.000000
PhCH2CCH+H	4.36144e-08	1.000000	4.36144e-08	1.000000
PAH7+H	3.65225e-08	1.000000	3.65225e-08	1.000000
rad39	1.03031e-08	1.000000	1.03031e-08	1.000000
rad37	9.89463e-09	1.000000	9.89463e-09	1.000000
rad30	6.98058e-09	1.000000	6.98058e-09	1.000000
Benzene+cycloprop-1-enylidene	6.19133e-09	1.000000	6.19133e-09	1.000000
PAH9+H	5.42585e-10	1.000000	5.42585e-10	1.000000
rad38	2.47357e-10	1.000000	2.47357e-10	1.000000
rad60syn	3.84182e-11	1.000000	3.84182e-11	1.000000
PAH10+CH3	2.71458e-11	1.000000	2.71458e-11	1.000000
PAH3+H	2.06609e-11	1.000000	2.06609e-11	1.000000
rad60anti	1.91607e-11	1.000000	1.91607e-11	1.000000
rad46	1.58117e-11	1.000000	1.58117e-11	1.000000
PhcycC3H3_A+H	1.33135e-11	1.000000	1.33135e-11	1.000000
rad59	4.08945e-12	1.000000	4.08945e-12	1.000000
rad43	1.04096e-12	1.000000	1.04096e-12	1.000000
rad54	9.92525e-13	1.000000	9.92525e-13	1.000000
rad62	2.31629e-13	1.000000	2.31629e-13	1.000000
rad50	1.60798e-13	1.000000	1.60798e-13	1.000000
Phenyl+cycC3H4	1.24603e-13	1.000000	0.000000	1.000000
PhcycC3H3_B+H	5.08976e-14	1.000000	5.08976e-14	1.000000
rad70	2.47651e-14	1.000000	2.47651e-14	1.000000
rad55	1.09837e-14	1.000000	1.09837e-14	1.000000
PAH1+H	9.37338e-15	1.000000	9.37338e-15	1.000000
rad52	1.41927e-15	1.000000	1.41927e-15	1.000000
rad58	7.35871e-16	1.000000	7.35871e-16	1.000000
rad51	5.16501e-16	1.000000	5.16501e-16	1.000000
rad34	5.15034e-16	1.000000	5.15034e-16	1.000000
rad41	1.17041e-16	1.000000	1.17041e-16	1.000000
rad42	8.10494e-17	1.000000	8.10494e-17	1.000000
rad65	1.22859e-17	1.000000	1.22859e-17	1.000000
rad53	5.56204e-19	1.000000	5.56204e-19	1.000000
rad64	1.17039e-19	1.000000	1.17039e-19	1.000000
rad61	1.05588e-20	1.000000	1.05588e-20	1.000000
rad56	5.33223e-22	1.000000	5.33223e-22	1.000000
rad68syn	5.52665e-23	1.000000	5.52665e-23	1.000000
rad68anti	4.30015e-23	1.000000	4.30015e-23	1.000000
rad6	8.01716e-25	1.000000	8.01716e-25	1.000000
rad40syn	1.47212e-25	1.000000	1.47212e-25	1.000000
rad40anti	1.18054e-25	1.000000	1.18054e-25	1.000000
PAH8+H	8.53885e-27	1.000000	8.53885e-27	1.000000
rad73	6.34249e-27	1.000000	6.34249e-27	1.000000
rad28	1.22104e-27	1.000000	1.22104e-27	1.000000
rad2	4.62846e-28	1.000000	4.62846e-28	1.000000
rad26	3.93173e-28	1.000000	3.93173e-28	1.000000
rad7	5.93836e-29	1.000000	5.93836e-29	1.000000
rad1	3.11229e-29	1.000000	3.11229e-29	1.000000
rad10	2.38907e-29	1.000000	2.38907e-29	1.000000
rad11	1.46498e-29	1.000000	1.46498e-29	1.000000
rad71	1.07846e-29	1.000000	1.07846e-29	1.000000
rad47	6.79827e-30	1.000000	6.79827e-30	1.000000
rad19anti	6.45039e-30	1.000000	6.45039e-30	1.000000
rad3	2.75359e-30	1.000000	2.75359e-30	1.000000
rad4	1.41289e-30	1.000000	1.41289e-30	1.000000
rad13	3.32834e-31	1.000000	3.32834e-31	1.000000
rad9	2.42493e-31	1.000000	2.42493e-31	1.000000
rad14	3.15579e-33	1.000000	3.15579e-33	1.000000
rad25	1.68054e-33	1.000000	1.68054e-33	1.000000

rad27	7.04600e-34	1.000000	7.04600e-34	1.000000
rad33	6.36313e-34	1.000000	6.36313e-34	1.000000
rad15	1.07363e-34	1.000000	1.07363e-34	1.000000
rad31	3.79991e-35	1.000000	3.79991e-35	1.000000
rad5	2.46910e-35	1.000000	2.46910e-35	1.000000
rad23	2.62551e-38	1.000000	2.62551e-38	1.000000
rad19syn	7.83212e-39	1.000000	7.83212e-39	1.000000
rad20	3.90771e-39	1.000000	3.90771e-39	1.000000
rad21	3.02868e-39	1.000000	3.02868e-39	1.000000
rad12	1.32846e-39	1.000000	1.32846e-39	1.000000
rad45	1.84784e-40	1.000000	1.84784e-40	1.000000
rad22	2.14145e-41	1.000000	2.14145e-41	1.000000
rad18	1.64186e-41	1.000000	1.64186e-41	1.000000
rad36	1.14423e-41	1.000000	1.14423e-41	1.000000
rad24	4.24391e-45	1.000000	4.24391e-45	1.000000
rad8	8.12803e-62	1.000000	8.12803e-62	1.000000

0.100000000E-03 Pa, 200.000000 K

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Rate constant          | True (fraction)          Effective (fraction)
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Total                  | 1.52621e-14 (1.00   ) 1.52621e-14 (1.00   )
Formation of rad19    | 1.52610e-14 (1.000  ) 1.52610e-14 (1.000  )
H-abstraction to cyc2enyl | 1.06427e-18 (6.97e-05) 1.06427e-18 (6.97e-05)
H-abstraction to cyclenyl | 2.46309e-22 (1.61e-08) 2.46309e-22 (1.61e-08)

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species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999565	0.999565	0.999565	0.999565
PhCHCCH2+H	0.000345433	0.999911	0.000345433	0.999911
Benzene+cycloprop-2-enylidene	6.97330e-05	0.999980	6.97330e-05	0.999980
PhCCH+CH3	6.16243e-06	0.999987	6.16243e-06	0.999987
C2H2+PhCH2	4.87108e-06	0.999991	4.87108e-06	0.999991
PhCCCH3+H	3.65492e-06	0.999995	3.65492e-06	0.999995
Ph+MeAc	3.05169e-06	0.999998	3.05169e-06	0.999998
rad67	8.96413e-07	0.999999	8.96413e-07	0.999999
rad35	3.86641e-07	0.999999	3.86641e-07	0.999999
Ph+Allene	3.37772e-07	1.000000	3.37772e-07	1.000000
PhCH2CCH+H	4.78382e-08	1.000000	4.78382e-08	1.000000
PAH7+H	3.90319e-08	1.000000	3.90319e-08	1.000000
Benzene+cycloprop-1-enylidene	1.61386e-08	1.000000	1.61386e-08	1.000000
rad39	1.10084e-08	1.000000	1.10084e-08	1.000000
rad37	1.06172e-08	1.000000	1.06172e-08	1.000000
rad30	7.36602e-09	1.000000	7.36602e-09	1.000000
PAH9+H	5.82898e-10	1.000000	5.82898e-10	1.000000
rad38	2.68034e-10	1.000000	2.68034e-10	1.000000
rad60syn	4.15003e-11	1.000000	4.15003e-11	1.000000
PAH10+CH3	3.15723e-11	1.000000	3.15723e-11	1.000000
PAH3+H	2.30054e-11	1.000000	2.30054e-11	1.000000
rad60anti	2.07415e-11	1.000000	2.07415e-11	1.000000
PhcycC3H3_A+H	1.75314e-11	1.000000	1.75314e-11	1.000000
rad46	1.72299e-11	1.000000	1.72299e-11	1.000000
rad59	4.53087e-12	1.000000	4.53087e-12	1.000000
rad43	1.18504e-12	1.000000	1.18504e-12	1.000000
rad54	1.15322e-12	1.000000	1.15322e-12	1.000000
rad62	2.64142e-13	1.000000	2.64142e-13	1.000000
Phenyl+cycC3H4	1.83626e-13	1.000000	0.000000	1.000000
rad50	1.83196e-13	1.000000	1.83196e-13	1.000000
PhcycC3H3_B+H	8.87690e-14	1.000000	8.87690e-14	1.000000
rad70	3.01002e-14	1.000000	3.01002e-14	1.000000
rad55	1.33492e-14	1.000000	1.33492e-14	1.000000
PAH1+H	1.21075e-14	1.000000	1.21075e-14	1.000000
rad52	1.67255e-15	1.000000	1.67255e-15	1.000000
rad58	9.13217e-16	1.000000	9.13217e-16	1.000000
rad34	6.67941e-16	1.000000	6.67941e-16	1.000000
rad51	6.33605e-16	1.000000	6.33605e-16	1.000000
rad41	1.57584e-16	1.000000	1.57584e-16	1.000000
rad42	1.06226e-16	1.000000	1.06226e-16	1.000000
rad65	1.53190e-17	1.000000	1.53190e-17	1.000000
rad53	9.61952e-19	1.000000	9.61952e-19	1.000000
rad64	2.21490e-19	1.000000	2.21490e-19	1.000000
rad61	2.60102e-20	1.000000	2.60102e-20	1.000000
rad56	1.46278e-21	1.000000	1.46278e-21	1.000000
rad68syn	1.59260e-22	1.000000	1.59260e-22	1.000000
rad68anti	1.23073e-22	1.000000	1.23073e-22	1.000000
rad6	7.36801e-25	1.000000	7.36801e-25	1.000000
rad40syn	6.17076e-25	1.000000	6.17076e-25	1.000000
rad40anti	4.95188e-25	1.000000	4.95188e-25	1.000000
PAH8+H	4.65851e-26	1.000000	4.65851e-26	1.000000
rad73	2.55581e-26	1.000000	2.55581e-26	1.000000

rad28	1.09592e-27	1.000000	1.09592e-27	1.000000
rad2	5.01487e-28	1.000000	5.01487e-28	1.000000
rad26	4.06206e-28	1.000000	4.06206e-28	1.000000
rad71	6.53611e-29	1.000000	6.53611e-29	1.000000
rad7	5.46827e-29	1.000000	5.46827e-29	1.000000
rad1	3.39799e-29	1.000000	3.39799e-29	1.000000
rad10	2.59404e-29	1.000000	2.59404e-29	1.000000
rad19anti	1.88672e-29	1.000000	1.88672e-29	1.000000
rad11	1.34953e-29	1.000000	1.34953e-29	1.000000
rad47	7.19666e-30	1.000000	7.19666e-30	1.000000
rad3	2.89711e-30	1.000000	2.89711e-30	1.000000
rad4	1.48962e-30	1.000000	1.48962e-30	1.000000
rad9	3.17543e-31	1.000000	3.17543e-31	1.000000
rad13	3.07027e-31	1.000000	3.07027e-31	1.000000
rad14	3.29383e-33	1.000000	3.29383e-33	1.000000
rad25	1.70829e-33	1.000000	1.70829e-33	1.000000
rad27	7.64895e-34	1.000000	7.64895e-34	1.000000
rad33	5.88051e-34	1.000000	5.88051e-34	1.000000
rad15	1.40885e-34	1.000000	1.40885e-34	1.000000
rad31	8.90023e-35	1.000000	8.90023e-35	1.000000
rad5	2.25019e-35	1.000000	2.25019e-35	1.000000
rad23	5.82204e-38	1.000000	5.82204e-38	1.000000
rad19syn	2.51002e-38	1.000000	2.51002e-38	1.000000
rad20	3.98430e-39	1.000000	3.98430e-39	1.000000
rad21	3.11385e-39	1.000000	3.11385e-39	1.000000
rad12	1.77790e-39	1.000000	1.77790e-39	1.000000
rad45	4.09999e-40	1.000000	4.09999e-40	1.000000
rad36	2.54599e-41	1.000000	2.54599e-41	1.000000
rad22	2.44478e-41	1.000000	2.44478e-41	1.000000
rad18	1.64436e-41	1.000000	1.64436e-41	1.000000
rad24	6.10349e-45	1.000000	6.10349e-45	1.000000
rad8	1.36076e-61	1.000000	1.36076e-61	1.000000

0.100000000E-03 Pa, 210.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.74272e-14 (1.00)	1.74272e-14 (1.00)
Formation of rad19	1.74253e-14 (1.000)	1.74253e-14 (1.000)
H-abstraction to cyc2enyl	1.89310e-18 (0.000109)	1.89310e-18 (0.000109)
H-abstraction to cyclenyl	6.66714e-22 (3.83e-08)	6.66714e-22 (3.83e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999511	0.999511	0.999511	0.999511
PhCHCCH2+H	0.000359771	0.999871	0.000359771	0.999871
Benzene+cycloprop-2-enylidene	0.000108629	0.999980	0.000108629	0.999980
PhCCH+CH3	6.42953e-06	0.999986	6.42953e-06	0.999986
C2H2+PhCH2	5.13704e-06	0.999991	5.13704e-06	0.999991
PhCCCH3+H	3.83397e-06	0.999995	3.83397e-06	0.999995
Ph+MeAc	3.23681e-06	0.999998	3.23681e-06	0.999998
rad67	9.48433e-07	0.999999	9.48433e-07	0.999999
rad35	4.08123e-07	1.000000	4.08123e-07	1.000000
Ph+Allene	3.66904e-07	1.000000	3.66904e-07	1.000000
PhCH2CCH+H	5.27175e-08	1.000000	5.27175e-08	1.000000
PAH7+H	4.18513e-08	1.000000	4.18513e-08	1.000000
Benzene+cycloprop-1-enylidene	3.82571e-08	1.000000	3.82571e-08	1.000000
rad39	1.18002e-08	1.000000	1.18002e-08	1.000000
rad37	1.14322e-08	1.000000	1.14322e-08	1.000000
rad30	7.79385e-09	1.000000	7.79385e-09	1.000000
PAH9+H	6.28578e-10	1.000000	6.28578e-10	1.000000
rad38	2.91716e-10	1.000000	2.91716e-10	1.000000
rad60syn	4.50096e-11	1.000000	4.50096e-11	1.000000
PAH10+CH3	3.69847e-11	1.000000	3.69847e-11	1.000000
PAH3+H	2.57613e-11	1.000000	2.57613e-11	1.000000
PhcycC3H3_A+H	2.31914e-11	1.000000	2.31914e-11	1.000000
rad60anti	2.25454e-11	1.000000	2.25454e-11	1.000000
rad46	1.88619e-11	1.000000	1.88619e-11	1.000000
rad59	5.04686e-12	1.000000	5.04686e-12	1.000000
rad43	1.35708e-12	1.000000	1.35708e-12	1.000000
rad54	1.34966e-12	1.000000	1.34966e-12	1.000000
rad62	3.02920e-13	1.000000	3.02920e-13	1.000000
Phenyl+cycC3H4	2.70226e-13	1.000000	0.000000	1.000000
rad50	2.10208e-13	1.000000	2.10208e-13	1.000000
PhcycC3H3_B+H	1.51586e-13	1.000000	1.51586e-13	1.000000
rad70	3.68938e-14	1.000000	3.68938e-14	1.000000
rad55	1.63584e-14	1.000000	1.63584e-14	1.000000
PAH1+H	1.57709e-14	1.000000	1.57709e-14	1.000000
rad52	1.98835e-15	1.000000	1.98835e-15	1.000000
rad58	1.14363e-15	1.000000	1.14363e-15	1.000000

rad34	8.73645e-16	1.00000	8.73645e-16	1.00000
rad51	7.85254e-16	1.00000	7.85254e-16	1.00000
rad41	2.13280e-16	1.00000	2.13280e-16	1.00000
rad42	1.39946e-16	1.00000	1.39946e-16	1.00000
rad65	1.92987e-17	1.00000	1.92987e-17	1.00000
rad53	1.63946e-18	1.00000	1.63946e-18	1.00000
rad64	4.08406e-19	1.00000	4.08406e-19	1.00000
rad61	6.05362e-20	1.00000	6.05362e-20	1.00000
rad56	3.74741e-21	1.00000	3.74741e-21	1.00000
rad68syn	4.25363e-22	1.00000	4.25363e-22	1.00000
rad68anti	3.26440e-22	1.00000	3.26440e-22	1.00000
rad40syn	2.29907e-24	1.00000	2.29907e-24	1.00000
rad40anti	1.84461e-24	1.00000	1.84461e-24	1.00000
rad6	7.21820e-25	1.00000	7.21820e-25	1.00000
PAH8+H	2.19677e-25	1.00000	2.19677e-25	1.00000
rad73	9.27899e-26	1.00000	9.27899e-26	1.00000
rad28	1.02967e-27	1.00000	1.02967e-27	1.00000
rad2	6.10632e-28	1.00000	6.10632e-28	1.00000
rad26	4.50939e-28	1.00000	4.50939e-28	1.00000
rad71	3.39170e-28	1.00000	3.39170e-28	1.00000
rad19anti	5.76813e-29	1.00000	5.76813e-29	1.00000
rad7	5.36811e-29	1.00000	5.36811e-29	1.00000
rad1	4.17202e-29	1.00000	4.17202e-29	1.00000
rad10	3.16539e-29	1.00000	3.16539e-29	1.00000
rad11	1.32535e-29	1.00000	1.32535e-29	1.00000
rad47	7.72108e-30	1.00000	7.72108e-30	1.00000
rad3	3.41176e-30	1.00000	3.41176e-30	1.00000
rad4	1.75823e-30	1.00000	1.75823e-30	1.00000
rad9	4.58248e-31	1.00000	4.58248e-31	1.00000
rad13	3.01952e-31	1.00000	3.01952e-31	1.00000
rad14	3.55034e-33	1.00000	3.55034e-33	1.00000
rad25	1.76444e-33	1.00000	1.76444e-33	1.00000
rad27	8.85598e-34	1.00000	8.85598e-34	1.00000
rad33	5.79452e-34	1.00000	5.79452e-34	1.00000
rad31	2.17585e-34	1.00000	2.17585e-34	1.00000
rad15	2.03750e-34	1.00000	2.03750e-34	1.00000
rad5	2.06131e-35	1.00000	2.06131e-35	1.00000
rad23	1.50135e-37	1.00000	1.50135e-37	1.00000
rad19syn	8.46110e-38	1.00000	8.46110e-38	1.00000
rad20	4.32408e-39	1.00000	4.32408e-39	1.00000
rad21	3.40762e-39	1.00000	3.40762e-39	1.00000
rad12	2.61730e-39	1.00000	2.61730e-39	1.00000
rad45	1.05868e-39	1.00000	1.05868e-39	1.00000
rad36	6.59551e-41	1.00000	6.59551e-41	1.00000
rad22	3.62047e-41	1.00000	3.62047e-41	1.00000
rad18	1.74605e-41	1.00000	1.74605e-41	1.00000
rad24	9.00480e-45	1.00000	9.00480e-45	1.00000
rad8	2.32612e-61	1.00000	2.32612e-61	1.00000

0.100000000E-03 Pa, 220.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.97009e-14 (1.00)	1.97009e-14 (1.00)
Formation of rad19	1.96977e-14 (1.000)	1.96977e-14 (1.000)
H-abstraction to cyc2enyl	3.19064e-18 (0.000162)	3.19064e-18 (0.000162)
H-abstraction to cyclenyl	1.64627e-21 (8.36e-08)	1.64627e-21 (8.36e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999441	0.999441	0.999441	0.999441
PhCHCCH2+H	0.000375424	0.999816	0.000375424	0.999816
Benzene+cycloprop-2-enylidene	0.000161954	0.999978	0.000161954	0.999978
PhCCH+CH3	6.72039e-06	0.999985	6.72039e-06	0.999985
C2H2+PhCH2	5.43097e-06	0.999991	5.43097e-06	0.999991
PhCCCH3+H	4.03052e-06	0.999995	4.03052e-06	0.999995
Ph+MeAc	3.44236e-06	0.999998	3.44236e-06	0.999998
rad67	1.00612e-06	0.999999	1.00612e-06	0.999999
rad35	4.31891e-07	0.999999	4.31891e-07	0.999999
Ph+Allene	4.00148e-07	1.000000	4.00148e-07	1.000000
Benzene+cycloprop-1-enylidene	8.35632e-08	1.000000	8.35632e-08	1.000000
PhCH2CCH+H	5.83678e-08	1.000000	5.83678e-08	1.000000
PAH7+H	4.50235e-08	1.000000	4.50235e-08	1.000000
rad39	1.26901e-08	1.000000	1.26901e-08	1.000000
rad37	1.23532e-08	1.000000	1.23532e-08	1.000000
rad30	8.26933e-09	1.000000	8.26933e-09	1.000000
PAH9+H	6.80444e-10	1.000000	6.80444e-10	1.000000
rad38	3.18910e-10	1.000000	3.18910e-10	1.000000
rad60syn	4.90140e-11	1.000000	4.90140e-11	1.000000
PAH10+CH3	4.36275e-11	1.000000	4.36275e-11	1.000000

PhcycC3H3_A+H	3.07931e-11	1.00000	3.07931e-11	1.00000
PAH3+H	2.90111e-11	1.00000	2.90111e-11	1.00000
rad60anti	2.46085e-11	1.00000	2.46085e-11	1.00000
rad46	2.07450e-11	1.00000	2.07450e-11	1.00000
rad59	5.65179e-12	1.00000	5.65179e-12	1.00000
rad54	1.59072e-12	1.00000	1.59072e-12	1.00000
rad43	1.56310e-12	1.00000	1.56310e-12	1.00000
Phenyl+cycC3H4	3.96956e-13	1.00000	0.00000	1.00000
rad62	3.49288e-13	1.00000	3.49288e-13	1.00000
PhcycC3H3_B+H	2.54101e-13	1.00000	2.54101e-13	1.00000
rad50	2.42926e-13	1.00000	2.42926e-13	1.00000
rad70	4.55808e-14	1.00000	4.55808e-14	1.00000
PAH1+H	2.06975e-14	1.00000	2.06975e-14	1.00000
rad55	2.02020e-14	1.00000	2.02020e-14	1.00000
rad52	2.38416e-15	1.00000	2.38416e-15	1.00000
rad58	1.44437e-15	1.00000	1.44437e-15	1.00000
rad34	1.15140e-15	1.00000	1.15140e-15	1.00000
rad51	9.82801e-16	1.00000	9.82801e-16	1.00000
rad41	2.89887e-16	1.00000	2.89887e-16	1.00000
rad42	1.85166e-16	1.00000	1.85166e-16	1.00000
rad65	2.45502e-17	1.00000	2.45502e-17	1.00000
rad53	2.75825e-18	1.00000	2.75825e-18	1.00000
rad64	7.36232e-19	1.00000	7.36232e-19	1.00000
rad61	1.34204e-19	1.00000	1.34204e-19	1.00000
rad56	9.05582e-21	1.00000	9.05582e-21	1.00000
rad68syn	1.06496e-21	1.00000	1.06496e-21	1.00000
rad68anti	8.11640e-22	1.00000	8.11640e-22	1.00000
rad40syn	7.73817e-24	1.00000	7.73817e-24	1.00000
rad40anti	6.20297e-24	1.00000	6.20297e-24	1.00000
PAH8+H	9.11870e-25	1.00000	9.11870e-25	1.00000
rad6	7.66830e-25	1.00000	7.66830e-25	1.00000
rad73	3.07721e-25	1.00000	3.07721e-25	1.00000
rad71	1.53451e-27	1.00000	1.53451e-27	1.00000
rad28	1.02780e-27	1.00000	1.02780e-27	1.00000
rad2	8.37205e-28	1.00000	8.37205e-28	1.00000
rad26	5.42382e-28	1.00000	5.42382e-28	1.00000
rad19anti	1.83737e-28	1.00000	1.83737e-28	1.00000
rad1	5.77174e-29	1.00000	5.77174e-29	1.00000
rad7	5.71505e-29	1.00000	5.71505e-29	1.00000
rad10	4.34950e-29	1.00000	4.34950e-29	1.00000
rad11	1.41162e-29	1.00000	1.41162e-29	1.00000
rad47	8.40014e-30	1.00000	8.40014e-30	1.00000
rad3	4.52816e-30	1.00000	4.52816e-30	1.00000
rad4	2.33935e-30	1.00000	2.33935e-30	1.00000
rad9	7.66772e-31	1.00000	7.66772e-31	1.00000
rad13	3.22076e-31	1.00000	3.22076e-31	1.00000
rad14	3.98437e-33	1.00000	3.98437e-33	1.00000
rad25	1.85392e-33	1.00000	1.85392e-33	1.00000
rad27	1.10267e-33	1.00000	1.10267e-33	1.00000
rad33	6.19331e-34	1.00000	6.19331e-34	1.00000
rad31	5.54472e-34	1.00000	5.54472e-34	1.00000
rad15	3.41685e-34	1.00000	3.41685e-34	1.00000
rad5	1.89687e-35	1.00000	1.89687e-35	1.00000
rad23	4.33118e-37	1.00000	4.33118e-37	1.00000
rad19syn	2.99699e-37	1.00000	2.99699e-37	1.00000
rad20	5.05136e-39	1.00000	5.05136e-39	1.00000
rad12	4.43751e-39	1.00000	4.43751e-39	1.00000
rad21	4.01038e-39	1.00000	4.01038e-39	1.00000
rad45	3.06117e-39	1.00000	3.06117e-39	1.00000
rad36	1.91414e-40	1.00000	1.91414e-40	1.00000
rad22	7.28793e-41	1.00000	7.28793e-41	1.00000
rad18	1.99346e-41	1.00000	1.99346e-41	1.00000
rad24	1.36312e-44	1.00000	1.36312e-44	1.00000
rad8	4.06083e-61	1.00000	4.06083e-61	1.00000

0.100000000E-03 Pa, 230.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.20761e-14 (1.00)	2.20761e-14 (1.00)
Formation of rad19	2.20710e-14 (1.000)	2.20710e-14 (1.000)
H-abstraction to cyc2enyl	5.13155e-18 (0.000232)	5.13155e-18 (0.000232)
H-abstraction to cyclenyl	3.75316e-21 (1.70e-07)	3.75316e-21 (1.70e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999352	0.999352	0.999352	0.999352
PhCHCCH2+H	0.000392520	0.999745	0.000392520	0.999745
Benzene+cycloprop-2-enylidene	0.000232448	0.999977	0.000232448	0.999977
PhCCH+CH3	7.03711e-06	0.999984	7.03711e-06	0.999984

C2H2+PhCH2	5.75599e-06	0.999990	5.75599e-06	0.999990
PhCCCH3+H	4.24633e-06	0.999994	4.24633e-06	0.999994
Ph+MeAc	3.67074e-06	0.999998	3.67074e-06	0.999998
rad67	1.07014e-06	0.999999	1.07014e-06	0.999999
rad35	4.58209e-07	1.000000	4.58209e-07	1.000000
Ph+Allene	4.38146e-07	1.000000	4.38146e-07	1.000000
Benzene+cycloprop-1-enylidene	1.70010e-07	1.000000	1.70010e-07	1.000000
PhCH2CCH+H	6.49249e-08	1.000000	6.49249e-08	1.000000
PAH7+H	4.85969e-08	1.000000	4.85969e-08	1.000000
rad39	1.36915e-08	1.000000	1.36915e-08	1.000000
rad37	1.33953e-08	1.000000	1.33953e-08	1.000000
rad30	8.79824e-09	1.000000	8.79824e-09	1.000000
PAH9+H	7.39440e-10	1.000000	7.39440e-10	1.000000
rad38	3.50207e-10	1.000000	3.50207e-10	1.000000
rad60syn	5.35914e-11	1.000000	5.35914e-11	1.000000
PAH10+CH3	5.18069e-11	1.000000	5.18069e-11	1.000000
PhcycC3H3_A+H	4.10038e-11	1.000000	4.10038e-11	1.000000
PAH3+H	3.28545e-11	1.000000	3.28545e-11	1.000000
rad60anti	2.69725e-11	1.000000	2.69725e-11	1.000000
rad46	2.29231e-11	1.000000	2.29231e-11	1.000000
rad59	6.36288e-12	1.000000	6.36288e-12	1.000000
rad54	1.88750e-12	1.000000	1.88750e-12	1.000000
rad43	1.81039e-12	1.000000	1.81039e-12	1.000000
Phenyl+cycC3H4	5.81829e-13	1.000000	0.000000	1.000000
PhcycC3H3_B+H	4.18958e-13	1.000000	4.18958e-13	1.000000
rad62	4.04842e-13	1.000000	4.04842e-13	1.000000
rad50	2.82712e-13	1.000000	2.82712e-13	1.000000
rad70	5.67278e-14	1.000000	5.67278e-14	1.000000
PAH1+H	2.73408e-14	1.000000	2.73408e-14	1.000000
rad55	2.51279e-14	1.000000	2.51279e-14	1.000000
rad52	2.88259e-15	1.000000	2.88259e-15	1.000000
rad58	1.83842e-15	1.000000	1.83842e-15	1.000000
rad34	1.52749e-15	1.000000	1.52749e-15	1.000000
rad51	1.24148e-15	1.000000	1.24148e-15	1.000000
rad41	3.95307e-16	1.000000	3.95307e-16	1.000000
rad42	2.45830e-16	1.000000	2.45830e-16	1.000000
rad65	3.15143e-17	1.000000	3.15143e-17	1.000000
rad53	4.58646e-18	1.000000	4.58646e-18	1.000000
rad64	1.30087e-18	1.000000	1.30087e-18	1.000000
rad61	2.85229e-19	1.000000	2.85229e-19	1.000000
rad56	2.08057e-20	1.000000	2.08057e-20	1.000000
rad68syn	2.52165e-21	1.000000	2.52165e-21	1.000000
rad68anti	1.90888e-21	1.000000	1.90888e-21	1.000000
rad40syn	2.38315e-23	1.000000	2.38315e-23	1.000000
rad40anti	1.90761e-23	1.000000	1.90761e-23	1.000000
PAH8+H	3.38041e-24	1.000000	3.38041e-24	1.000000
rad73	9.42051e-25	1.000000	9.42051e-25	1.000000
rad6	8.97172e-25	1.000000	8.97172e-25	1.000000
rad71	6.14187e-27	1.000000	6.14187e-27	1.000000
rad2	1.27735e-27	1.000000	1.27735e-27	1.000000
rad28	1.10867e-27	1.000000	1.10867e-27	1.000000
rad26	7.08277e-28	1.000000	7.08277e-28	1.000000
rad19anti	6.07609e-28	1.000000	6.07609e-28	1.000000
rad1	8.89243e-29	1.000000	8.89243e-29	1.000000
rad7	6.70136e-29	1.000000	6.70136e-29	1.000000
rad10	6.65129e-29	1.000000	6.65129e-29	1.000000
rad11	1.65600e-29	1.000000	1.65600e-29	1.000000
rad47	9.27327e-30	1.000000	9.27327e-30	1.000000
rad3	6.72035e-30	1.000000	6.72035e-30	1.000000
rad4	3.48128e-30	1.000000	3.48128e-30	1.000000
rad9	1.55425e-30	1.000000	1.55425e-30	1.000000
rad13	3.78401e-31	1.000000	3.78401e-31	1.000000
rad14	4.70460e-33	1.000000	4.70460e-33	1.000000
rad25	1.98743e-33	1.000000	1.98743e-33	1.000000
rad27	1.48535e-33	1.000000	1.48535e-33	1.000000
rad31	1.47037e-33	1.000000	1.47037e-33	1.000000
rad33	7.29206e-34	1.000000	7.29206e-34	1.000000
rad15	6.94179e-34	1.000000	6.94179e-34	1.000000
rad5	1.75262e-35	1.000000	1.75262e-35	1.000000
rad23	1.36938e-36	1.000000	1.36938e-36	1.000000
rad19syn	1.11381e-36	1.000000	1.11381e-36	1.000000
rad45	9.71237e-39	1.000000	9.71237e-39	1.000000
rad12	9.02802e-39	1.000000	9.02802e-39	1.000000
rad20	6.41799e-39	1.000000	6.41799e-39	1.000000
rad21	5.12383e-39	1.000000	5.12383e-39	1.000000
rad36	6.09858e-40	1.000000	6.09858e-40	1.000000
rad22	1.89653e-40	1.000000	1.89653e-40	1.000000
rad18	2.48283e-41	1.000000	2.48283e-41	1.000000
rad24	2.12186e-44	1.000000	2.12186e-44	1.000000
rad8	7.24185e-61	1.000000	7.24185e-61	1.000000

0.100000000E-03 Pa, 240.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.45462e-14 (1.00)	2.45462e-14 (1.00)
Formation of rad19	2.45383e-14 (1.000)	2.45383e-14 (1.000)
H-abstraction to cyc2enyl	7.92234e-18 (0.000323)	7.92234e-18 (0.000323)
H-abstraction to cyclenyl	7.97958e-21 (3.25e-07)	7.97958e-21 (3.25e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999241	0.999241	0.999241	0.999241
PhCHCCH2+H	0.000411192	0.999652	0.000411192	0.999652
Benzene+cycloprop-2-enylidene	0.000322752	0.999975	0.000322752	0.999975
PhCCH+CH3	7.38193e-06	0.999982	7.38193e-06	0.999982
C2H2+PhCH2	6.11552e-06	0.999989	6.11552e-06	0.999989
PhCCCH3+H	4.48334e-06	0.999993	4.48334e-06	0.999993
Ph+MeAc	3.92459e-06	0.999997	3.92459e-06	0.999997
rad67	1.14122e-06	0.999998	1.14122e-06	0.999998
rad35	4.87362e-07	0.999999	4.87362e-07	0.999999
Ph+Allene	4.81637e-07	0.999999	4.81637e-07	0.999999
Benzene+cycloprop-1-enylidene	3.25084e-07	0.999999	3.25084e-07	0.999999
PhCH2CCH+H	7.25473e-08	0.999999	7.25473e-08	0.999999
PAH7+H	5.26259e-08	0.999999	5.26259e-08	0.999999
rad39	1.48190e-08	0.999999	1.48190e-08	0.999999
rad37	1.45756e-08	1.000000	1.45756e-08	1.000000
rad30	9.38701e-09	1.000000	9.38701e-09	1.000000
PAH9+H	8.06644e-10	1.000000	8.06644e-10	1.000000
rad38	3.86296e-10	1.000000	3.86296e-10	1.000000
PAH10+CH3	6.19064e-11	1.000000	6.19064e-11	1.000000
rad60syn	5.88324e-11	1.000000	5.88324e-11	1.000000
PhcycC3H3_A+H	5.47108e-11	1.000000	5.47108e-11	1.000000
PAH3+H	3.74112e-11	1.000000	3.74112e-11	1.000000
rad60anti	2.96857e-11	1.000000	2.96857e-11	1.000000
rad46	2.54473e-11	1.000000	2.54473e-11	1.000000
rad59	7.20067e-12	1.000000	7.20067e-12	1.000000
rad54	2.25389e-12	1.000000	2.25389e-12	1.000000
rad43	2.10782e-12	1.000000	2.10782e-12	1.000000
Phenyl+cycC3H4	8.50545e-13	1.000000	0.000000	1.000000
PhcycC3H3_B+H	6.80482e-13	1.000000	6.80482e-13	1.000000
rad62	4.71503e-13	1.000000	4.71503e-13	1.000000
rad50	3.31263e-13	1.000000	3.31263e-13	1.000000
rad70	7.10718e-14	1.000000	7.10718e-14	1.000000
PAH1+H	3.63160e-14	1.000000	3.63160e-14	1.000000
rad55	3.14575e-14	1.000000	3.14575e-14	1.000000
rad52	3.51286e-15	1.000000	3.51286e-15	1.000000
rad58	2.35637e-15	1.000000	2.35637e-15	1.000000
rad34	2.03776e-15	1.000000	2.03776e-15	1.000000
rad51	1.58175e-15	1.000000	1.58175e-15	1.000000
rad41	5.40330e-16	1.000000	5.40330e-16	1.000000
rad42	3.27189e-16	1.000000	3.27189e-16	1.000000
rad65	4.07879e-17	1.000000	4.07879e-17	1.000000
rad53	7.54377e-18	1.000000	7.54377e-18	1.000000
rad64	2.25726e-18	1.000000	2.25726e-18	1.000000
rad61	5.84087e-19	1.000000	5.84087e-19	1.000000
rad56	4.57228e-20	1.000000	4.57228e-20	1.000000
rad68syn	5.68633e-21	1.000000	5.68633e-21	1.000000
rad68anti	4.27663e-21	1.000000	4.27663e-21	1.000000
rad40syn	6.78314e-23	1.000000	6.78314e-23	1.000000
rad40anti	5.41986e-23	1.000000	5.41986e-23	1.000000
PAH8+H	1.13224e-23	1.000000	1.13224e-23	1.000000
rad73	2.68345e-24	1.000000	2.68345e-24	1.000000
rad6	1.16679e-24	1.000000	1.16679e-24	1.000000
rad71	2.20096e-26	1.000000	2.20096e-26	1.000000
rad2	2.12890e-27	1.000000	2.12890e-27	1.000000
rad19anti	2.07748e-27	1.000000	2.07748e-27	1.000000
rad28	1.31226e-27	1.000000	1.31226e-27	1.000000
rad26	9.99516e-28	1.000000	9.99516e-28	1.000000
rad1	1.49778e-28	1.000000	1.49778e-28	1.000000
rad10	1.11116e-28	1.000000	1.11116e-28	1.000000
rad7	8.73547e-29	1.000000	8.73547e-29	1.000000
rad11	2.15972e-29	1.000000	2.15972e-29	1.000000
rad3	1.09643e-29	1.000000	1.09643e-29	1.000000
rad47	1.03948e-29	1.000000	1.03948e-29	1.000000
rad4	5.69646e-30	1.000000	5.69646e-30	1.000000
rad9	3.81952e-30	1.000000	3.81952e-30	1.000000
rad13	4.94267e-31	1.000000	4.94267e-31	1.000000
rad14	5.91158e-33	1.000000	5.91158e-33	1.000000
rad31	4.04918e-33	1.000000	4.04918e-33	1.000000

rad25	2.18603e-33	1.000000	2.18603e-33	1.000000
rad27	2.16802e-33	1.000000	2.16802e-33	1.000000
rad15	1.70996e-33	1.000000	1.70996e-33	1.000000
rad33	9.54646e-34	1.000000	9.54646e-34	1.000000
rad5	1.62521e-35	1.000000	1.62521e-35	1.000000
rad23	4.69079e-36	1.000000	4.69079e-36	1.000000
rad19syn	4.33470e-36	1.000000	4.33470e-36	1.000000
rad45	3.34387e-38	1.000000	3.34387e-38	1.000000
rad12	2.21452e-38	1.000000	2.21452e-38	1.000000
rad20	8.94021e-39	1.000000	8.94021e-39	1.000000
rad21	7.15992e-39	1.000000	7.15992e-39	1.000000
rad36	2.10958e-39	1.000000	2.10958e-39	1.000000
rad22	5.85960e-40	1.000000	5.85960e-40	1.000000
rad18	3.41403e-41	1.000000	3.41403e-41	1.000000
rad24	3.41702e-44	1.000000	3.41702e-44	1.000000
rad8	1.31974e-60	1.000000	1.31974e-60	1.000000

0.100000000E-03 Pa, 250.00000 K

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Rate constant      | True (fraction)      Effective (fraction)
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Total              | 2.71048e-14 (1.00   ) 2.71048e-14 (1.00   )
Formation of rad19 | 2.70930e-14 (1.000  ) 2.70930e-14 (1.000  )
H-abstraction to cyc2enyl | 1.17991e-17 (0.000435) 1.17991e-17 (0.000435)
H-abstraction to cyclenyl | 1.59554e-20 (5.89e-07) 1.59554e-20 (5.89e-07)

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species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999107	0.999107	0.999107	0.999107
Benzene+cycloprop-2-enylidene	0.000435312	0.999543	0.000435312	0.999543
PhCHCCH2+H	0.000431584	0.999974	0.000431584	0.999974
PhCCH+CH3	7.75719e-06	0.999982	7.75719e-06	0.999982
C2H2+PhCH2	6.51325e-06	0.999988	6.51325e-06	0.999988
PhCCCH3+H	4.74360e-06	0.999993	4.74360e-06	0.999993
Ph+MeAc	4.20682e-06	0.999997	4.20682e-06	0.999997
rad67	1.22017e-06	0.999999	1.22017e-06	0.999999
Benzene+cycloprop-1-enylidene	5.88656e-07	0.999999	5.88656e-07	0.999999
Ph+Allene	5.31470e-07	1.000000	5.31470e-07	1.000000
rad35	5.19664e-07	1.000000	5.19664e-07	1.000000
PhCH2CCH+H	8.14208e-08	1.000000	8.14208e-08	1.000000
PAH7+H	5.71713e-08	1.000000	5.71713e-08	1.000000
rad39	1.60893e-08	1.000000	1.60893e-08	1.000000
rad37	1.59138e-08	1.000000	1.59138e-08	1.000000
rad30	1.00427e-08	1.000000	1.00427e-08	1.000000
PAH9+H	8.83297e-10	1.000000	8.83297e-10	1.000000
rad38	4.27983e-10	1.000000	4.27983e-10	1.000000
PAH10+CH3	7.44047e-11	1.000000	7.44047e-11	1.000000
PhcycC3H3_A+H	7.30900e-11	1.000000	7.30900e-11	1.000000
rad60syn	6.48406e-11	1.000000	6.48406e-11	1.000000
PAH3+H	4.28258e-11	1.000000	4.28258e-11	1.000000
rad60anti	3.28040e-11	1.000000	3.28040e-11	1.000000
rad46	2.83780e-11	1.000000	2.83780e-11	1.000000
rad59	8.18973e-12	1.000000	8.18973e-12	1.000000
rad54	2.70724e-12	1.000000	2.70724e-12	1.000000
rad43	2.46610e-12	1.000000	2.46610e-12	1.000000
Phenyl+cycC3H4	1.23952e-12	1.000000	0.000000	1.000000
PhcycC3H3_B+H	1.09005e-12	1.000000	1.09005e-12	1.000000
rad62	5.51584e-13	1.000000	5.51584e-13	1.000000
rad50	3.90697e-13	1.000000	3.90697e-13	1.000000
rad70	8.95698e-14	1.000000	8.95698e-14	1.000000
PAH1+H	4.84541e-14	1.000000	4.84541e-14	1.000000
rad55	3.96074e-14	1.000000	3.96074e-14	1.000000
rad52	4.31275e-15	1.000000	4.31275e-15	1.000000
rad58	3.03881e-15	1.000000	3.03881e-15	1.000000
rad34	2.73083e-15	1.000000	2.73083e-15	1.000000
rad51	2.03105e-15	1.000000	2.03105e-15	1.000000
rad41	7.39637e-16	1.000000	7.39637e-16	1.000000
rad42	4.36202e-16	1.000000	4.36202e-16	1.000000
rad65	5.31792e-17	1.000000	5.31792e-17	1.000000
rad53	1.22795e-17	1.000000	1.22795e-17	1.000000
rad64	3.85184e-18	1.000000	3.85184e-18	1.000000
rad61	1.15688e-18	1.000000	1.15688e-18	1.000000
rad56	9.65547e-20	1.000000	9.65547e-20	1.000000
rad68syn	1.22759e-20	1.000000	1.22759e-20	1.000000
rad68anti	9.17624e-21	1.000000	9.17624e-21	1.000000
rad40syn	1.79832e-22	1.000000	1.79832e-22	1.000000
rad40anti	1.43402e-22	1.000000	1.43402e-22	1.000000
PAH8+H	3.45929e-23	1.000000	3.45929e-23	1.000000
rad73	7.15479e-24	1.000000	7.15479e-24	1.000000
rad6	1.68884e-24	1.000000	1.68884e-24	1.000000

rad71	7.13355e-26	1.00000	7.13355e-26	1.00000
rad19anti	7.31068e-27	1.00000	7.31068e-27	1.00000
rad2	3.80831e-27	1.00000	3.80831e-27	1.00000
rad28	1.71902e-27	1.00000	1.71902e-27	1.00000
rad26	1.51047e-27	1.00000	1.51047e-27	1.00000
rad1	2.71001e-28	1.00000	2.71001e-28	1.00000
rad10	1.99259e-28	1.00000	1.99259e-28	1.00000
rad7	1.26742e-28	1.00000	1.26742e-28	1.00000
rad11	3.13515e-29	1.00000	3.13515e-29	1.00000
rad3	1.93028e-29	1.00000	1.93028e-29	1.00000
rad47	1.18404e-29	1.00000	1.18404e-29	1.00000
rad9	1.08964e-29	1.00000	1.08964e-29	1.00000
rad4	1.00607e-29	1.00000	1.00607e-29	1.00000
rad13	7.18655e-31	1.00000	7.18655e-31	1.00000
rad31	1.15506e-32	1.00000	1.15506e-32	1.00000
rad14	7.98164e-33	1.00000	7.98164e-33	1.00000
rad15	4.89008e-33	1.00000	4.89008e-33	1.00000
rad27	3.41649e-33	1.00000	3.41649e-33	1.00000
rad25	2.49121e-33	1.00000	2.49121e-33	1.00000
rad33	1.39134e-33	1.00000	1.39134e-33	1.00000
rad19syn	1.76219e-35	1.00000	1.76219e-35	1.00000
rad23	1.72725e-35	1.00000	1.72725e-35	1.00000
rad5	1.51200e-35	1.00000	1.51200e-35	1.00000
rad45	1.24006e-37	1.00000	1.24006e-37	1.00000
rad12	6.31511e-38	1.00000	6.31511e-38	1.00000
rad20	1.37220e-38	1.00000	1.37220e-38	1.00000
rad21	1.09983e-38	1.00000	1.09983e-38	1.00000
rad36	7.86450e-39	1.00000	7.86450e-39	1.00000
rad22	2.02520e-39	1.00000	2.02520e-39	1.00000
rad18	5.21730e-41	1.00000	5.21730e-41	1.00000
rad24	5.77265e-44	1.00000	5.77265e-44	1.00000
rad8	2.45886e-60	1.00000	2.45886e-60	1.00000

0.100000000E-03 Pa, 260.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.97464e-14 (1.00)	2.97464e-14 (1.00)
Formation of rad19	2.97293e-14 (0.999)	2.97293e-14 (0.999)
H-abstraction to cyc2enyl	1.70236e-17 (0.000572)	1.70236e-17 (0.000572)
H-abstraction to cyc1enyl	3.02186e-20 (1.02e-06)	3.02186e-20 (1.02e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998946	0.998946	0.998946	0.998946
Benzene+cycloprop-2-enylidene	0.000572291	0.999518	0.000572291	0.999518
PhCHCCH2+H	0.000453848	0.999972	0.000453848	0.999972
PhCCH+CH3	8.16529e-06	0.999980	8.16529e-06	0.999980
C2H2+PhCH2	6.95320e-06	0.999987	6.95320e-06	0.999987
PhCCCH3+H	5.02932e-06	0.999992	5.02932e-06	0.999992
Ph+MeAc	4.52059e-06	0.999997	4.52059e-06	0.999997
rad67	1.30785e-06	0.999998	1.30785e-06	0.999998
Benzene+cycloprop-1-enylidene	1.01588e-06	0.999999	1.01588e-06	0.999999
Ph+Allene	5.88615e-07	1.000000	5.88615e-07	1.000000
rad35	5.55458e-07	1.000000	5.55458e-07	1.000000
PhCH2CCH+H	9.17630e-08	1.000000	9.17630e-08	1.000000
PAH7+H	6.23012e-08	1.000000	6.23012e-08	1.000000
rad39	1.75208e-08	1.000000	1.75208e-08	1.000000
rad37	1.74317e-08	1.000000	1.74317e-08	1.000000
rad30	1.07732e-08	1.000000	1.07732e-08	1.000000
PAH9+H	9.70819e-10	1.000000	9.70819e-10	1.000000
rad38	4.76208e-10	1.000000	4.76208e-10	1.000000
PhcycC3H3_A+H	9.76900e-11	1.000000	9.76900e-11	1.000000
PAH10+CH3	8.98995e-11	1.000000	8.98995e-11	1.000000
rad60syn	7.17360e-11	1.000000	7.17360e-11	1.000000
PAH3+H	4.92718e-11	1.000000	4.92718e-11	1.000000
rad60anti	3.63918e-11	1.000000	3.63918e-11	1.000000
rad46	3.17860e-11	1.000000	3.17860e-11	1.000000
rad59	9.35933e-12	1.000000	9.35933e-12	1.000000
rad54	3.26919e-12	1.000000	3.26919e-12	1.000000
rad43	2.89821e-12	1.000000	2.89821e-12	1.000000
Phenyl+cycC3H4	1.79997e-12	1.000000	0.000000	1.000000
PhcycC3H3_B+H	1.72357e-12	1.000000	1.72357e-12	1.000000
rad62	6.47856e-13	1.000000	6.47856e-13	1.000000
rad50	4.63653e-13	1.000000	4.63653e-13	1.000000
rad70	1.13461e-13	1.000000	1.13461e-13	1.000000
PAH1+H	6.48742e-14	1.000000	6.48742e-14	1.000000
rad55	5.01157e-14	1.000000	5.01157e-14	1.000000
rad52	5.33105e-15	1.000000	5.33105e-15	1.000000
rad58	3.93954e-15	1.000000	3.93954e-15	1.000000

rad34	3.67249e-15	1.00000	3.67249e-15	1.00000
rad51	2.62613e-15	1.00000	2.62613e-15	1.00000
rad41	1.01308e-15	1.00000	1.01308e-15	1.00000
rad42	5.82031e-16	1.00000	5.82031e-16	1.00000
rad65	6.97788e-17	1.00000	6.97788e-17	1.00000
rad53	1.97859e-17	1.00000	1.97859e-17	1.00000
rad64	6.46993e-18	1.00000	6.46993e-18	1.00000
rad61	2.22252e-18	1.00000	2.22252e-18	1.00000
rad56	1.96582e-19	1.00000	1.96582e-19	1.00000
rad68syn	2.54703e-20	1.00000	2.54703e-20	1.00000
rad68anti	1.89312e-20	1.00000	1.89312e-20	1.00000
rad40syn	4.46797e-22	1.00000	4.46797e-22	1.00000
rad40anti	3.55554e-22	1.00000	3.55554e-22	1.00000
PAH8+H	9.71819e-23	1.00000	9.71819e-23	1.00000
rad73	1.79366e-23	1.00000	1.79366e-23	1.00000
rad6	2.70700e-24	1.00000	2.70700e-24	1.00000
rad71	2.10957e-25	1.00000	2.10957e-25	1.00000
rad19anti	2.63456e-26	1.00000	2.63456e-26	1.00000
rad2	7.21406e-27	1.00000	7.21406e-27	1.00000
rad28	2.49048e-27	1.00000	2.49048e-27	1.00000
rad26	2.41924e-27	1.00000	2.41924e-27	1.00000
rad1	5.19699e-28	1.00000	5.19699e-28	1.00000
rad10	3.78417e-28	1.00000	3.78417e-28	1.00000
rad7	2.03656e-28	1.00000	2.03656e-28	1.00000
rad11	5.04048e-29	1.00000	5.04048e-29	1.00000
rad3	3.61284e-29	1.00000	3.61284e-29	1.00000
rad9	3.42390e-29	1.00000	3.42390e-29	1.00000
rad4	1.88955e-29	1.00000	1.88955e-29	1.00000
rad47	1.37153e-29	1.00000	1.37153e-29	1.00000
rad13	1.15734e-30	1.00000	1.15734e-30	1.00000
rad31	3.40287e-32	1.00000	3.40287e-32	1.00000
rad15	1.54043e-32	1.00000	1.54043e-32	1.00000
rad14	1.16353e-32	1.00000	1.16353e-32	1.00000
rad27	5.76898e-33	1.00000	5.76898e-33	1.00000
rad25	2.98724e-33	1.00000	2.98724e-33	1.00000
rad33	2.24628e-33	1.00000	2.24628e-33	1.00000
rad19syn	7.46104e-35	1.00000	7.46104e-35	1.00000
rad23	6.79149e-35	1.00000	6.79149e-35	1.00000
rad5	1.41090e-35	1.00000	1.41090e-35	1.00000
rad45	4.92265e-37	1.00000	4.92265e-37	1.00000
rad12	1.99358e-37	1.00000	1.99358e-37	1.00000
rad36	3.14025e-38	1.00000	3.14025e-38	1.00000
rad20	2.32515e-38	1.00000	2.32515e-38	1.00000
rad21	1.86215e-38	1.00000	1.86215e-38	1.00000
rad22	7.58792e-39	1.00000	7.58792e-39	1.00000
rad18	8.86493e-41	1.00000	8.86493e-41	1.00000
rad24	1.05349e-43	1.00000	1.05349e-43	1.00000
rad8	4.68596e-60	1.00000	4.68596e-60	1.00000

0.100000000E-03 Pa, 270.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.24655e-14 (1.00)	3.24655e-14 (1.00)
Formation of rad19	3.24415e-14 (0.999)	3.24415e-14 (0.999)
H-abstraction to cyc2enyl	2.38790e-17 (0.000736)	2.38790e-17 (0.000736)
H-abstraction to cyc1enyl	5.45397e-20 (1.68e-06)	5.45397e-20 (1.68e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998755	0.998755	0.998755	0.998755
Benzene+cycloprop-2-enylidene	0.000735519	0.999491	0.000735519	0.999491
PhCHCCH2+H	0.000478146	0.999969	0.000478146	0.999969
PhCCH+CH3	8.60880e-06	0.999977	8.60880e-06	0.999977
C2H2+PhCH2	7.43972e-06	0.999985	7.43972e-06	0.999985
PhCCCH3+H	5.34286e-06	0.999990	5.34286e-06	0.999990
Ph+MeAc	4.86938e-06	0.999995	4.86938e-06	0.999995
Benzene+cycloprop-1-enylidene	1.67993e-06	0.999997	1.67993e-06	0.999997
rad67	1.40525e-06	0.999998	1.40525e-06	0.999998
Ph+Allene	6.54183e-07	0.999999	6.54183e-07	0.999999
rad35	5.95116e-07	0.999999	5.95116e-07	0.999999
PhCH2CCH+H	1.03827e-07	1.000000	1.03827e-07	1.000000
PAH7+H	6.80920e-08	1.000000	6.80920e-08	1.000000
rad37	1.91542e-08	1.000000	1.91542e-08	1.000000
rad39	1.91342e-08	1.000000	1.91342e-08	1.000000
rad30	1.15872e-08	1.000000	1.15872e-08	1.000000
PAH9+H	1.07084e-09	1.000000	1.07084e-09	1.000000
rad38	5.32067e-10	1.000000	5.32067e-10	1.000000
PhcycC3H3_A+H	1.30538e-10	1.000000	1.30538e-10	1.000000
PAH10+CH3	1.09134e-10	1.000000	1.09134e-10	1.000000

rad60syn	7.96566e-11	1.000000	7.96566e-11	1.000000
PAH3+H	5.69579e-11	1.000000	5.69579e-11	1.000000
rad60anti	4.05237e-11	1.000000	4.05237e-11	1.000000
rad46	3.57542e-11	1.000000	3.57542e-11	1.000000
rad59	1.07444e-11	1.000000	1.07444e-11	1.000000
rad54	3.96662e-12	1.000000	3.96662e-12	1.000000
rad43	3.41976e-12	1.000000	3.41976e-12	1.000000
PhcycC3H3_B+H	2.69151e-12	1.000000	2.69151e-12	1.000000
Phenyl+cycC3H4	2.60320e-12	1.000000	0.00000	1.000000
rad62	7.63632e-13	1.000000	7.63632e-13	1.000000
rad50	5.53417e-13	1.000000	5.53417e-13	1.000000
rad70	1.44342e-13	1.000000	1.44342e-13	1.000000
PAH1+H	8.70734e-14	1.000000	8.70734e-14	1.000000
rad55	6.36734e-14	1.000000	6.36734e-14	1.000000
rad52	6.63061e-15	1.000000	6.63061e-15	1.000000
rad58	5.12944e-15	1.000000	5.12944e-15	1.000000
rad34	4.95115e-15	1.000000	4.95115e-15	1.000000
rad51	3.41603e-15	1.000000	3.41603e-15	1.000000
rad41	1.38732e-15	1.000000	1.38732e-15	1.000000
rad42	7.76676e-16	1.000000	7.76676e-16	1.000000
rad65	9.20532e-17	1.000000	9.20532e-17	1.000000
rad53	3.15547e-17	1.000000	3.15547e-17	1.000000
rad64	1.07029e-17	1.000000	1.07029e-17	1.000000
rad61	4.14941e-18	1.000000	4.14941e-18	1.000000
rad56	3.86757e-19	1.000000	3.86757e-19	1.000000
rad68syn	5.09277e-20	1.000000	5.09277e-20	1.000000
rad68anti	3.76572e-20	1.000000	3.76572e-20	1.000000
rad40syn	1.04541e-21	1.000000	1.04541e-21	1.000000
rad40anti	8.30243e-22	1.000000	8.30243e-22	1.000000
PAH8+H	2.52772e-22	1.000000	2.52772e-22	1.000000
rad73	4.24307e-23	1.000000	4.24307e-23	1.000000
rad6	4.76564e-24	1.000000	4.76564e-24	1.000000
rad71	5.73648e-25	1.000000	5.73648e-25	1.000000
rad19anti	9.66974e-26	1.000000	9.66974e-26	1.000000
rad2	1.43371e-26	1.000000	1.43371e-26	1.000000
rad26	4.06871e-27	1.000000	4.06871e-27	1.000000
rad28	3.95622e-27	1.000000	3.95622e-27	1.000000
rad1	1.04658e-27	1.000000	1.04658e-27	1.000000
rad10	7.54022e-28	1.000000	7.54022e-28	1.000000
rad7	3.59460e-28	1.000000	3.59460e-28	1.000000
rad9	1.14047e-28	1.000000	1.14047e-28	1.000000
rad11	8.90154e-29	1.000000	8.90154e-29	1.000000
rad3	7.11283e-29	1.000000	7.11283e-29	1.000000
rad4	3.73399e-29	1.000000	3.73399e-29	1.000000
rad47	1.61685e-29	1.000000	1.61685e-29	1.000000
rad13	2.04749e-30	1.000000	2.04749e-30	1.000000
rad31	1.03180e-31	1.000000	1.03180e-31	1.000000
rad15	5.14434e-32	1.000000	5.14434e-32	1.000000
rad14	1.82821e-32	1.000000	1.82821e-32	1.000000
rad27	1.03406e-32	1.000000	1.03406e-32	1.000000
rad33	3.98442e-33	1.000000	3.98442e-33	1.000000
rad25	3.85130e-33	1.000000	3.85130e-33	1.000000
rad19syn	3.27847e-34	1.000000	3.27847e-34	1.000000
rad23	2.83370e-34	1.000000	2.83370e-34	1.000000
rad5	1.32021e-35	1.000000	1.32021e-35	1.000000
rad45	2.08068e-36	1.000000	2.08068e-36	1.000000
rad12	6.70541e-37	1.000000	6.70541e-37	1.000000
rad36	1.33588e-37	1.000000	1.33588e-37	1.000000
rad20	4.34357e-38	1.000000	4.34357e-38	1.000000
rad21	3.47441e-38	1.000000	3.47441e-38	1.000000
rad22	3.03106e-38	1.000000	3.03106e-38	1.000000
rad18	1.66622e-40	1.000000	1.66622e-40	1.000000
rad24	2.18800e-43	1.000000	2.18800e-43	1.000000
rad8	9.13986e-60	1.000000	9.13986e-60	1.000000

0.100000000E-03 Pa, 280.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.52572e-14 (1.00)	3.52572e-14 (1.00)
Formation of rad19	3.52244e-14 (0.999)	3.52244e-14 (0.999)
H-abstraction to cyc2enyl	3.26639e-17 (0.000926)	3.26639e-17 (0.000926)
H-abstraction to cyclenyl	9.42926e-20 (2.67e-06)	9.42926e-20 (2.67e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998535	0.998535	0.998535	0.998535
Benzene+cycloprop-2-enylidene	0.000926445	0.999462	0.000926445	0.999462
PhCHCCH2+H	0.000504654	0.999966	0.000504654	0.999966
PhCCH+CH3	9.09037e-06	0.999976	9.09037e-06	0.999976

C2H2+PhCH2	7.97754e-06	0.999984	7.97754e-06	0.999984
PhCCCH3+H	5.68676e-06	0.999989	5.68676e-06	0.999989
Ph+MeAc	5.25697e-06	0.999994	5.25697e-06	0.999994
Benzene+cycloprop-1-enylidene	2.67442e-06	0.999997	2.67442e-06	0.999997
rad67	1.51340e-06	0.999999	1.51340e-06	0.999999
Ph+Allene	7.29445e-07	0.999999	7.29445e-07	0.999999
rad35	6.39046e-07	1.00000	6.39046e-07	1.00000
PhCH2CCH+H	1.17908e-07	1.00000	1.17908e-07	1.00000
PAH7+H	7.46287e-08	1.00000	7.46287e-08	1.00000
rad37	2.11093e-08	1.00000	2.11093e-08	1.00000
rad39	2.09521e-08	1.00000	2.09521e-08	1.00000
rad30	1.24940e-08	1.00000	1.24940e-08	1.00000
PAH9+H	1.18522e-09	1.00000	1.18522e-09	1.00000
rad38	5.96835e-10	1.00000	5.96835e-10	1.00000
PhcycC3H3_A+H	1.74264e-10	1.00000	1.74264e-10	1.00000
PAH10+CH3	1.33029e-10	1.00000	1.33029e-10	1.00000
rad60syn	8.87605e-11	1.00000	8.87605e-11	1.00000
PAH3+H	6.61334e-11	1.00000	6.61334e-11	1.00000
rad60anti	4.52856e-11	1.00000	4.52856e-11	1.00000
rad46	4.03794e-11	1.00000	4.03794e-11	1.00000
rad59	1.23862e-11	1.00000	1.23862e-11	1.00000
rad54	4.83280e-12	1.00000	4.83280e-12	1.00000
PhcycC3H3_B+H	4.15199e-12	1.00000	4.15199e-12	1.00000
rad43	4.04946e-12	1.00000	4.04946e-12	1.00000
Phenyl+cycC3H4	3.74742e-12	1.00000	0.00000	1.00000
rad62	9.02851e-13	1.00000	9.02851e-13	1.00000
rad50	6.64057e-13	1.00000	6.64057e-13	1.00000
rad70	1.84257e-13	1.00000	1.84257e-13	1.00000
PAH1+H	1.17038e-13	1.00000	1.17038e-13	1.00000
rad55	8.11644e-14	1.00000	8.11644e-14	1.00000
rad52	8.29194e-15	1.00000	8.29194e-15	1.00000
rad58	6.70136e-15	1.00000	6.70136e-15	1.00000
rad34	6.68462e-15	1.00000	6.68462e-15	1.00000
rad51	4.46575e-15	1.00000	4.46575e-15	1.00000
rad41	1.89783e-15	1.00000	1.89783e-15	1.00000
rad42	1.03571e-15	1.00000	1.03571e-15	1.00000
rad65	1.21961e-16	1.00000	1.21961e-16	1.00000
rad53	4.97916e-17	1.00000	4.97916e-17	1.00000
rad64	1.74395e-17	1.00000	1.74395e-17	1.00000
rad61	7.53772e-18	1.00000	7.53772e-18	1.00000
rad56	7.36381e-19	1.00000	7.36381e-19	1.00000
rad68syn	9.83166e-20	1.00000	9.83166e-20	1.00000
rad68anti	7.23593e-20	1.00000	7.23593e-20	1.00000
rad40syn	2.31284e-21	1.00000	2.31284e-21	1.00000
rad40anti	1.83329e-21	1.00000	1.83329e-21	1.00000
PAH8+H	6.12419e-22	1.00000	6.12419e-22	1.00000
rad73	9.50002e-23	1.00000	9.50002e-23	1.00000
rad6	9.12160e-24	1.00000	9.12160e-24	1.00000
rad71	1.44433e-24	1.00000	1.44433e-24	1.00000
rad19anti	3.59346e-25	1.00000	3.59346e-25	1.00000
rad2	2.96924e-26	1.00000	2.96924e-26	1.00000
rad26	7.13160e-27	1.00000	7.13160e-27	1.00000
rad28	6.80214e-27	1.00000	6.80214e-27	1.00000
rad1	2.19844e-27	1.00000	2.19844e-27	1.00000
rad10	1.56569e-27	1.00000	1.56569e-27	1.00000
rad7	6.89850e-28	1.00000	6.89850e-28	1.00000
rad9	3.93504e-28	1.00000	3.93504e-28	1.00000
rad11	1.70927e-28	1.00000	1.70927e-28	1.00000
rad3	1.46170e-28	1.00000	1.46170e-28	1.00000
rad4	7.70430e-29	1.00000	7.70430e-29	1.00000
rad47	1.94127e-29	1.00000	1.94127e-29	1.00000
rad13	3.93897e-30	1.00000	3.93897e-30	1.00000
rad31	3.20753e-31	1.00000	3.20753e-31	1.00000
rad15	1.77973e-31	1.00000	1.77973e-31	1.00000
rad14	3.07336e-32	1.00000	3.07336e-32	1.00000
rad27	1.94916e-32	1.00000	1.94916e-32	1.00000
rad33	7.68610e-33	1.00000	7.68610e-33	1.00000
rad25	5.46703e-33	1.00000	5.46703e-33	1.00000
rad19syn	1.48909e-33	1.00000	1.48909e-33	1.00000
rad23	1.24679e-33	1.00000	1.24679e-33	1.00000
rad5	1.23857e-35	1.00000	1.23857e-35	1.00000
rad45	9.31410e-36	1.00000	9.31410e-36	1.00000
rad12	2.34556e-36	1.00000	2.34556e-36	1.00000
rad36	6.02245e-37	1.00000	6.02245e-37	1.00000
rad22	1.27731e-37	1.00000	1.27731e-37	1.00000
rad20	8.89354e-38	1.00000	8.89354e-38	1.00000
rad21	7.10995e-38	1.00000	7.10995e-38	1.00000
rad18	3.43044e-40	1.00000	3.43044e-40	1.00000
rad24	5.51408e-43	1.00000	5.51408e-43	1.00000
rad8	1.82569e-59	1.00000	1.82569e-59	1.00000

0.100000000E-03 Pa, 290.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.81171e-14 (1.00)	3.81171e-14 (1.00)
Formation of rad19	3.80733e-14 (0.999)	3.80733e-14 (0.999)
H-abstraction to cyc2enyl	4.36868e-17 (0.00115)	4.36868e-17 (0.00115)
H-abstraction to cyclenyl	1.56861e-19 (4.12e-06)	1.56861e-19 (4.12e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998282	0.998282	0.998282	0.998282
Benzene+cycloprop-2-enylidene	0.00114612	0.999429	0.00114612	0.999429
PhCHCCH2+H	0.000533552	0.999962	0.000533552	0.999962
PhCCH+CH3	9.61276e-06	0.999972	9.61276e-06	0.999972
C2H2+PhCH2	8.57171e-06	0.999980	8.57171e-06	0.999980
PhCCCH3+H	6.06370e-06	0.999986	6.06370e-06	0.999986
Ph+MeAc	5.68749e-06	0.999992	5.68749e-06	0.999992
Benzene+cycloprop-1-enylidene	4.11523e-06	0.999996	4.11523e-06	0.999996
rad67	1.63346e-06	0.999998	1.63346e-06	0.999998
Ph+Allene	8.15836e-07	0.999999	8.15836e-07	0.999999
rad35	6.87689e-07	0.999999	6.87689e-07	0.999999
PhCH2CCH+H	1.34348e-07	0.999999	1.34348e-07	0.999999
PAH7+H	8.20057e-08	0.999999	8.20057e-08	0.999999
rad37	2.33285e-08	1.000000	2.33285e-08	1.000000
rad39	2.30000e-08	1.000000	2.30000e-08	1.000000
rad30	1.35042e-08	1.000000	1.35042e-08	1.000000
PAH9+H	1.31606e-09	1.000000	1.31606e-09	1.000000
rad38	6.71986e-10	1.000000	6.71986e-10	1.000000
PhcycC3H3_A+H	2.32248e-10	1.000000	2.32248e-10	1.000000
PAH10+CH3	1.62716e-10	1.000000	1.62716e-10	1.000000
rad60syn	9.92285e-11	1.000000	9.92285e-11	1.000000
PAH3+H	7.70955e-11	1.000000	7.70955e-11	1.000000
rad60anti	5.07757e-11	1.000000	5.07757e-11	1.000000
rad46	4.57746e-11	1.000000	4.57746e-11	1.000000
rad59	1.43338e-11	1.000000	1.43338e-11	1.000000
PhcycC3H3_B+H	6.32701e-12	1.000000	6.32701e-12	1.000000
rad54	5.90855e-12	1.000000	5.90855e-12	1.000000
Phenyl+cycC3H4	5.36584e-12	1.000000	0.000000	1.000000
rad43	4.80968e-12	1.000000	4.80968e-12	1.000000
rad62	1.07018e-12	1.000000	1.07018e-12	1.000000
rad50	8.00593e-13	1.000000	8.00593e-13	1.000000
rad70	2.35806e-13	1.000000	2.35806e-13	1.000000
PAH1+H	1.57376e-13	1.000000	1.57376e-13	1.000000
rad55	1.03708e-13	1.000000	1.03708e-13	1.000000
rad52	1.04175e-14	1.000000	1.04175e-14	1.000000
rad34	9.02820e-15	1.000000	9.02820e-15	1.000000
rad58	8.77577e-15	1.000000	8.77577e-15	1.000000
rad51	5.86069e-15	1.000000	5.86069e-15	1.000000
rad41	2.59126e-15	1.000000	2.59126e-15	1.000000
rad42	1.37913e-15	1.000000	1.37913e-15	1.000000
rad65	1.62087e-16	1.000000	1.62087e-16	1.000000
rad53	7.76871e-17	1.000000	7.76871e-17	1.000000
rad64	2.79836e-17	1.000000	2.79836e-17	1.000000
rad61	1.33318e-17	1.000000	1.33318e-17	1.000000
rad56	1.35815e-18	1.000000	1.35815e-18	1.000000
rad68syn	1.83483e-19	1.000000	1.83483e-19	1.000000
rad68anti	1.34481e-19	1.000000	1.34481e-19	1.000000
rad40syn	4.85493e-21	1.000000	4.85493e-21	1.000000
rad40anti	3.84148e-21	1.000000	3.84148e-21	1.000000
PAH8+H	1.38965e-21	1.000000	1.38965e-21	1.000000
rad73	2.01862e-22	1.000000	2.01862e-22	1.000000
rad6	1.87444e-23	1.000000	1.87444e-23	1.000000
rad71	3.38824e-24	1.000000	3.38824e-24	1.000000
rad19anti	1.34357e-24	1.000000	1.34357e-24	1.000000
rad2	6.37336e-26	1.000000	6.37336e-26	1.000000
rad26	1.29510e-26	1.000000	1.29510e-26	1.000000
rad28	1.24758e-26	1.000000	1.24758e-26	1.000000
rad1	4.79103e-27	1.000000	4.79103e-27	1.000000
rad10	3.36980e-27	1.000000	3.36980e-27	1.000000
rad7	1.42150e-27	1.000000	1.42150e-27	1.000000
rad9	1.38704e-27	1.000000	1.38704e-27	1.000000
rad11	3.52397e-28	1.000000	3.52397e-28	1.000000
rad3	3.11648e-28	1.000000	3.11648e-28	1.000000
rad4	1.64974e-28	1.000000	1.64974e-28	1.000000
rad47	2.37557e-29	1.000000	2.37557e-29	1.000000
rad13	8.13737e-30	1.000000	8.13737e-30	1.000000
rad31	1.01792e-30	1.000000	1.01792e-30	1.000000
rad15	6.29062e-31	1.000000	6.29062e-31	1.000000

rad14	5.46952e-32	1.000000	5.46952e-32	1.000000
rad27	3.83116e-32	1.000000	3.83116e-32	1.000000
rad33	1.59225e-32	1.000000	1.59225e-32	1.000000
rad25	8.68043e-33	1.000000	8.68043e-33	1.000000
rad19syn	6.95957e-33	1.000000	6.95957e-33	1.000000
rad23	5.74775e-33	1.000000	5.74775e-33	1.000000
rad45	4.39260e-35	1.000000	4.39260e-35	1.000000
rad5	1.16484e-35	1.000000	1.16484e-35	1.000000
rad12	8.40684e-36	1.000000	8.40684e-36	1.000000
rad36	2.86220e-36	1.000000	2.86220e-36	1.000000
rad22	5.63154e-37	1.000000	5.63154e-37	1.000000
rad20	1.97350e-37	1.000000	1.97350e-37	1.000000
rad21	1.57897e-37	1.000000	1.57897e-37	1.000000
rad18	7.62879e-40	1.000000	7.62879e-40	1.000000
rad24	1.73827e-42	1.000000	1.73827e-42	1.000000
rad8	3.73734e-59	1.000000	3.73734e-59	1.000000

0.100000000E-03 Pa, 300.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.34809e-14 (1.00)	5.34809e-14 (1.00)
Formation of rad19	5.34010e-14 (0.999)	5.34010e-14 (0.999)
H-abstraction to cyc2enyl	7.95823e-17 (0.00149)	7.95823e-17 (0.00149)
H-abstraction to cyclenyl	3.44981e-19 (6.45e-06)	3.44981e-19 (6.45e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997939	0.997939	0.997939	0.997939
Benzene+cycloprop-2-enylidene	0.00148805	0.999427	0.00148805	0.999427
PhCHCCH2+H	0.000529814	0.999957	0.000529814	0.999957
PhCCH+CH3	1.04615e-05	0.999968	1.04615e-05	0.999968
C2H2+PhCH2	9.96264e-06	0.999978	9.96264e-06	0.999978
Benzene+cycloprop-1-enylidene	6.45054e-06	0.999984	6.45054e-06	0.999984
PhCCH3+H	6.36715e-06	0.999990	6.36715e-06	0.999990
Ph+MeAc	5.99826e-06	0.999996	5.99826e-06	0.999996
rad67	1.76909e-06	0.999998	1.76909e-06	0.999998
Ph+Allene	8.18993e-07	0.999999	8.18993e-07	0.999999
rad35	7.31807e-07	1.000000	7.31807e-07	1.000000
PhCH2CCH+H	1.62469e-07	1.000000	1.62469e-07	1.000000
PAH7+H	1.00666e-07	1.000000	1.00666e-07	1.000000
rad37	2.83206e-08	1.000000	2.83206e-08	1.000000
rad39	2.48351e-08	1.000000	2.48351e-08	1.000000
rad30	1.39398e-08	1.000000	1.39398e-08	1.000000
PAH9+H	1.67897e-09	1.000000	1.67897e-09	1.000000
rad38	7.72651e-10	1.000000	7.72651e-10	1.000000
PhcycC3H3_A+H	3.25290e-10	1.000000	3.25290e-10	1.000000
PAH10+CH3	2.37266e-10	1.000000	2.37266e-10	1.000000
rad60syn	1.06834e-10	1.000000	1.06834e-10	1.000000
PAH3+H	9.84715e-11	1.000000	9.84715e-11	1.000000
rad60anti	5.51572e-11	1.000000	5.51572e-11	1.000000
rad46	5.45643e-11	1.000000	5.45643e-11	1.000000
rad59	1.67258e-11	1.000000	1.67258e-11	1.000000
PhcycC3H3_B+H	1.05896e-11	1.000000	1.05896e-11	1.000000
Phenyl+cycC3H4	8.20984e-12	1.000000	0.000000	1.000000
rad54	7.66780e-12	1.000000	7.66780e-12	1.000000
rad43	5.65557e-12	1.000000	5.65557e-12	1.000000
rad62	1.25276e-12	1.000000	1.25276e-12	1.000000
rad50	1.03315e-12	1.000000	1.03315e-12	1.000000
rad70	3.13392e-13	1.000000	3.13392e-13	1.000000
PAH1+H	1.93779e-13	1.000000	1.93779e-13	1.000000
rad55	1.33842e-13	1.000000	1.33842e-13	1.000000
rad52	1.45720e-14	1.000000	1.45720e-14	1.000000
rad34	1.28521e-14	1.000000	1.28521e-14	1.000000
rad58	1.11204e-14	1.000000	1.11204e-14	1.000000
rad51	8.23950e-15	1.000000	8.23950e-15	1.000000
rad41	3.58185e-15	1.000000	3.58185e-15	1.000000
rad42	1.81926e-15	1.000000	1.81926e-15	1.000000
rad65	2.32648e-16	1.000000	2.32648e-16	1.000000
rad53	1.29481e-16	1.000000	1.29481e-16	1.000000
rad64	4.98973e-17	1.000000	4.98973e-17	1.000000
rad61	2.74862e-17	1.000000	2.74862e-17	1.000000
rad56	3.01521e-18	1.000000	3.01521e-18	1.000000
rad68syn	3.96643e-19	1.000000	3.96643e-19	1.000000
rad68anti	2.85688e-19	1.000000	2.85688e-19	1.000000
rad6	2.13746e-20	1.000000	2.13746e-20	1.000000
rad19anti	1.46847e-20	1.000000	1.46847e-20	1.000000
rad40syn	1.34588e-20	1.000000	1.34588e-20	1.000000
rad40anti	1.02810e-20	1.000000	1.02810e-20	1.000000
PAH8+H	5.53972e-21	1.000000	5.53972e-21	1.000000

rad73	6.54843e-22	1.00000	6.54843e-22	1.00000
rad2	4.90575e-22	1.00000	4.90575e-22	1.00000
rad9	6.25229e-23	1.00000	6.25229e-23	1.00000
rad1	3.69667e-23	1.00000	3.69667e-23	1.00000
rad26	3.02211e-23	1.00000	3.02211e-23	1.00000
rad10	2.95343e-23	1.00000	2.95343e-23	1.00000
rad71	2.13406e-23	1.00000	2.13406e-23	1.00000
rad28	1.59398e-23	1.00000	1.59398e-23	1.00000
rad3	3.75376e-24	1.00000	3.75376e-24	1.00000
rad7	1.89616e-24	1.00000	1.89616e-24	1.00000
rad4	1.86676e-24	1.00000	1.86676e-24	1.00000
rad11	4.55446e-25	1.00000	4.55446e-25	1.00000
rad23	1.91553e-25	1.00000	1.91553e-25	1.00000
rad15	3.72106e-26	1.00000	3.72106e-26	1.00000
rad13	1.09357e-26	1.00000	1.09357e-26	1.00000
rad31	9.66328e-27	1.00000	9.66328e-27	1.00000
rad45	3.04785e-27	1.00000	3.04785e-27	1.00000
rad19syn	1.12386e-27	1.00000	1.12386e-27	1.00000
rad14	3.76107e-28	1.00000	3.76107e-28	1.00000
rad25	3.73269e-28	1.00000	3.73269e-28	1.00000
rad27	3.08022e-28	1.00000	3.08022e-28	1.00000
rad47	1.77283e-28	1.00000	1.77283e-28	1.00000
rad36	1.03881e-28	1.00000	1.03881e-28	1.00000
rad33	2.75172e-29	1.00000	2.75172e-29	1.00000
rad22	2.35343e-29	1.00000	2.35343e-29	1.00000
rad12	1.04931e-29	1.00000	1.04931e-29	1.00000
rad5	5.86474e-30	1.00000	5.86474e-30	1.00000
rad72	4.67175e-30	1.00000	4.67175e-30	1.00000
rad21	1.15710e-31	1.00000	1.15710e-31	1.00000
rad20	7.09709e-32	1.00000	7.09709e-32	1.00000
rad18	1.38846e-33	1.00000	1.38846e-33	1.00000
rad24	7.34839e-35	1.00000	7.34839e-35	1.00000
rad8	3.04180e-45	1.00000	3.04180e-45	1.00000

0.100000000E-03 Pa, 310.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.92544e-14 (1.00)	5.92544e-14 (1.00)
Formation of rad19	5.91462e-14 (0.998)	5.91462e-14 (0.998)
H-abstraction to cyc2enyl	1.07628e-16 (0.00182)	1.07628e-16 (0.00182)
H-abstraction to cyclenyl	5.62537e-19 (9.49e-06)	5.62537e-19 (9.49e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997536	0.997536	0.997536	0.997536
Benzene+cycloprop-2-enylidene	0.00181637	0.999353	0.00181637	0.999353
PhCHCCH2+H	0.000599213	0.999952	0.000599213	0.999952
PhCCH+CH3	1.07899e-05	0.999963	1.07899e-05	0.999963
C2H2+PhCH2	9.94972e-06	0.999973	9.94972e-06	0.999973
Benzene+cycloprop-1-enylidene	9.49359e-06	0.999982	9.49359e-06	0.999982
PhCCCH3+H	6.92725e-06	0.999989	6.92725e-06	0.999989
Ph+MeAc	6.69436e-06	0.999996	6.69436e-06	0.999996
rad67	1.91404e-06	0.999998	1.91404e-06	0.999998
Ph+Allene	1.02854e-06	0.999999	1.02854e-06	0.999999
rad35	8.00938e-07	0.999999	8.00938e-07	0.999999
PhCH2CCH+H	1.75896e-07	1.000000	1.75896e-07	1.000000
PAH7+H	9.96914e-08	1.000000	9.96914e-08	1.000000
rad37	2.86985e-08	1.000000	2.86985e-08	1.000000
rad39	2.78944e-08	1.000000	2.78944e-08	1.000000
rad30	1.58794e-08	1.000000	1.58794e-08	1.000000
PAH9+H	1.63684e-09	1.000000	1.63684e-09	1.000000
rad38	8.60334e-10	1.000000	8.60334e-10	1.000000
PhcycC3H3_A+H	4.09102e-10	1.000000	4.09102e-10	1.000000
PAH10+CH3	2.45221e-10	1.000000	2.45221e-10	1.000000
rad60syn	1.25085e-10	1.000000	1.25085e-10	1.000000
PAH3+H	1.05828e-10	1.000000	1.05828e-10	1.000000
rad60anti	6.43937e-11	1.000000	6.43937e-11	1.000000
rad46	5.94067e-11	1.000000	5.94067e-11	1.000000
rad59	1.93817e-11	1.000000	1.93817e-11	1.000000
PhcycC3H3_B+H	1.41415e-11	1.000000	1.41415e-11	1.000000
Phenyl+cycC3H4	1.07882e-11	1.000000	0.000000	1.000000
rad54	8.89601e-12	1.000000	8.89601e-12	1.000000
rad43	6.83075e-12	1.000000	6.83075e-12	1.000000
rad62	1.51159e-12	1.000000	1.51159e-12	1.000000
rad50	1.17695e-12	1.000000	1.17695e-12	1.000000
rad70	3.87562e-13	1.000000	3.87562e-13	1.000000
PAH1+H	2.83536e-13	1.000000	2.83536e-13	1.000000
rad55	1.69857e-13	1.000000	1.69857e-13	1.000000
rad52	1.66060e-14	1.000000	1.66060e-14	1.000000

rad34	1.64057e-14	1.000000	1.64057e-14	1.000000
rad58	1.50872e-14	1.000000	1.50872e-14	1.000000
rad51	1.01582e-14	1.000000	1.01582e-14	1.000000
rad41	4.78440e-15	1.000000	4.78440e-15	1.000000
rad42	2.42635e-15	1.000000	2.42635e-15	1.000000
rad65	2.87408e-16	1.000000	2.87408e-16	1.000000
rad53	1.82135e-16	1.000000	1.82135e-16	1.000000
rad64	6.86550e-17	1.000000	6.86550e-17	1.000000
rad61	3.85257e-17	1.000000	3.85257e-17	1.000000
rad56	4.20809e-18	1.000000	4.20809e-18	1.000000
rad68syn	5.79182e-19	1.000000	5.79182e-19	1.000000
rad68anti	4.21602e-19	1.000000	4.21602e-19	1.000000
rad40syn	1.84909e-20	1.000000	1.84909e-20	1.000000
rad40anti	1.45861e-20	1.000000	1.45861e-20	1.000000
PAH8+H	5.99118e-21	1.000000	5.99118e-21	1.000000
rad73	7.86974e-22	1.000000	7.86974e-22	1.000000
rad6	9.20499e-23	1.000000	9.20499e-23	1.000000
rad19anti	1.86172e-23	1.000000	1.86172e-23	1.000000
rad71	1.54164e-23	1.000000	1.54164e-23	1.000000
rad2	3.20713e-25	1.000000	3.20713e-25	1.000000
rad28	4.80182e-26	1.000000	4.80182e-26	1.000000
rad26	4.65828e-26	1.000000	4.65828e-26	1.000000
rad1	2.49292e-26	1.000000	2.49292e-26	1.000000
rad9	1.77324e-26	1.000000	1.77324e-26	1.000000
rad10	1.70529e-26	1.000000	1.70529e-26	1.000000
rad7	7.02056e-27	1.000000	7.02056e-27	1.000000
rad11	1.74176e-27	1.000000	1.74176e-27	1.000000
rad3	1.54811e-27	1.000000	1.54811e-27	1.000000
rad4	8.27366e-28	1.000000	8.27366e-28	1.000000
rad13	4.04118e-29	1.000000	4.04118e-29	1.000000
rad47	3.77539e-29	1.000000	3.77539e-29	1.000000
rad31	1.07026e-29	1.000000	1.07026e-29	1.000000
rad15	8.08877e-30	1.000000	8.08877e-30	1.000000
rad14	1.96668e-31	1.000000	1.96668e-31	1.000000
rad27	1.62990e-31	1.000000	1.62990e-31	1.000000
rad19syn	1.62279e-31	1.000000	1.62279e-31	1.000000
rad23	1.36762e-31	1.000000	1.36762e-31	1.000000
rad33	7.95032e-32	1.000000	7.95032e-32	1.000000
rad25	2.96858e-32	1.000000	2.96858e-32	1.000000
rad45	1.11884e-33	1.000000	1.11884e-33	1.000000
rad12	1.11866e-34	1.000000	1.11866e-34	1.000000
rad36	7.41800e-35	1.000000	7.41800e-35	1.000000
rad22	1.21654e-35	1.000000	1.21654e-35	1.000000
rad5	1.03746e-35	1.000000	1.03746e-35	1.000000
rad20	1.15682e-36	1.000000	1.15682e-36	1.000000
rad21	9.31220e-37	1.000000	9.31220e-37	1.000000
rad18	4.43525e-39	1.000000	4.43525e-39	1.000000
rad24	2.84537e-41	1.000000	2.84537e-41	1.000000
rad8	1.69034e-58	1.000000	1.69034e-58	1.000000

0.100000000E-03 Pa, 400.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.29463e-13 (1.00)	1.29463e-13 (1.00)
Formation of rad19	1.28526e-13 (0.993)	1.28526e-13 (0.993)
H-abstraction to cyc2enyl	9.19357e-16 (0.00710)	9.19357e-16 (0.00710)
H-abstraction to cyclenyl	1.69485e-17 (0.000131)	1.69485e-17 (0.000131)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.991683	0.991683	0.991683	0.991683
Benzene+cycloprop-2-enylidene	0.00710133	0.998784	0.00710133	0.998784
PhCHCCH2+H	0.00100586	0.999790	0.00100586	0.999790
Benzene+cycloprop-1-enylidene	0.000130914	0.999921	0.000130914	0.999921
C2H2+PhCH2	2.22468e-05	0.999943	2.22468e-05	0.999943
PhCCH+CH3	1.95098e-05	0.999963	1.95098e-05	0.999963
Ph+MeAc	1.45179e-05	0.999977	1.45179e-05	0.999977
PhCCCH3+H	1.31952e-05	0.999990	1.31952e-05	0.999990
rad67	4.22167e-06	0.999994	4.22167e-06	0.999994
Ph+Allene	2.97391e-06	0.999997	2.97391e-06	0.999997
rad35	1.68909e-06	0.999999	1.68909e-06	0.999999
PhCH2CCH+H	6.93047e-07	1.000000	6.93047e-07	1.000000
PAH7+H	2.89757e-07	1.000000	2.89757e-07	1.000000
rad37	8.82204e-08	1.000000	8.82204e-08	1.000000
rad39	7.05188e-08	1.000000	7.05188e-08	1.000000
rad30	3.41246e-08	1.000000	3.41246e-08	1.000000
PAH9+H	5.67069e-09	1.000000	5.67069e-09	1.000000
PhcycC3H3_A+H	4.88900e-09	1.000000	4.88900e-09	1.000000
rad38	3.07435e-09	1.000000	3.07435e-09	1.000000

PAH10+CH3	1.94150e-09	1.00000	1.94150e-09	1.00000
PAH3+H	5.34449e-10	1.00000	5.34449e-10	1.00000
PhcycC3H3_B+H	4.15151e-10	1.00000	4.15151e-10	1.00000
rad60syn	3.79130e-10	1.00000	3.79130e-10	1.00000
rad46	2.31290e-10	1.00000	2.31290e-10	1.00000
Phenyl+cycC3H4	2.22328e-10	1.00000	0.00000	1.00000
rad60anti	2.01850e-10	1.00000	2.01850e-10	1.00000
rad59	8.49299e-11	1.00000	8.49299e-11	1.00000
rad54	6.39706e-11	1.00000	6.39706e-11	1.00000
rad43	3.46932e-11	1.00000	3.46932e-11	1.00000
rad50	8.28672e-12	1.00000	8.28672e-12	1.00000
rad62	7.28466e-12	1.00000	7.28466e-12	1.00000
rad70	3.85328e-12	1.00000	3.85328e-12	1.00000
PAH1+H	3.61003e-12	1.00000	3.61003e-12	1.00000
rad55	1.60055e-12	1.00000	1.60055e-12	1.00000
rad34	2.43952e-13	1.00000	2.43952e-13	1.00000
rad52	1.72576e-13	1.00000	1.72576e-13	1.00000
rad58	1.69180e-13	1.00000	1.69180e-13	1.00000
rad51	1.42864e-13	1.00000	1.42864e-13	1.00000
rad41	6.83260e-14	1.00000	6.83260e-14	1.00000
rad42	2.71734e-14	1.00000	2.71734e-14	1.00000
rad53	6.88019e-15	1.00000	6.88019e-15	1.00000
rad65	4.39173e-15	1.00000	4.39173e-15	1.00000
rad61	3.43038e-15	1.00000	3.43038e-15	1.00000
rad64	3.05834e-15	1.00000	3.05834e-15	1.00000
rad56	5.30924e-16	1.00000	5.30924e-16	1.00000
rad68syn	7.48244e-17	1.00000	7.48244e-17	1.00000
rad68anti	5.24834e-17	1.00000	5.24834e-17	1.00000
rad19anti	4.76697e-17	1.00000	4.76697e-17	1.00000
rad40syn	6.39130e-18	1.00000	6.39130e-18	1.00000
PAH8+H	5.94551e-18	1.00000	5.94551e-18	1.00000
rad40anti	4.74371e-18	1.00000	4.74371e-18	1.00000
rad6	4.38914e-18	1.00000	4.38914e-18	1.00000
rad73	4.85677e-19	1.00000	4.85677e-19	1.00000
rad2	3.88429e-19	1.00000	3.88429e-19	1.00000
rad9	2.07335e-19	1.00000	2.07335e-19	1.00000
rad71	4.97335e-20	1.00000	4.97335e-20	1.00000
rad23	4.45517e-20	1.00000	4.45517e-20	1.00000
rad1	3.61495e-20	1.00000	3.61495e-20	1.00000
rad10	2.34777e-20	1.00000	2.34777e-20	1.00000
rad26	4.22779e-21	1.00000	4.22779e-21	1.00000
rad3	3.91942e-21	1.00000	3.91942e-21	1.00000
rad45	2.97194e-21	1.00000	2.97194e-21	1.00000
rad4	2.06449e-21	1.00000	2.06449e-21	1.00000
rad28	1.15322e-21	1.00000	1.15322e-21	1.00000
rad7	4.09253e-22	1.00000	4.09253e-22	1.00000
rad19syn	2.04434e-22	1.00000	2.04434e-22	1.00000
rad15	1.30933e-22	1.00000	1.30933e-22	1.00000
rad36	1.14465e-22	1.00000	1.14465e-22	1.00000
rad11	9.99300e-23	1.00000	9.99300e-23	1.00000
rad31	5.03680e-23	1.00000	5.03680e-23	1.00000
rad22	2.70215e-24	1.00000	2.70215e-24	1.00000
rad13	2.49891e-24	1.00000	2.49891e-24	1.00000
rad72	7.32183e-25	1.00000	7.32183e-25	1.00000
rad27	4.82509e-26	1.00000	4.82509e-26	1.00000
rad12	2.32912e-26	1.00000	2.32912e-26	1.00000
rad14	2.00052e-26	1.00000	2.00052e-26	1.00000
rad47	7.65192e-27	1.00000	7.65192e-27	1.00000
rad33	6.45024e-27	1.00000	6.45024e-27	1.00000
rad25	2.32767e-27	1.00000	2.32767e-27	1.00000
rad21	9.81827e-30	1.00000	9.81827e-30	1.00000
rad20	6.79941e-30	1.00000	6.79941e-30	1.00000
rad5	4.59771e-30	1.00000	4.59771e-30	1.00000
rad24	2.33239e-30	1.00000	2.33239e-30	1.00000
rad18	1.07656e-31	1.00000	1.07656e-31	1.00000
rad8	6.65013e-42	1.00000	6.65013e-42	1.00000

0.100000000E-03 Pa, 500.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.52837e-13 (1.00)	2.52837e-13 (1.00)
Formation of rad19	2.47941e-13 (0.981)	2.47941e-13 (0.981)
H-abstraction to cyc2enyl	4.69058e-15 (0.0186)	4.69058e-15 (0.0186)
H-abstraction to cyc1enyl	2.05381e-16 (0.000812)	2.05381e-16 (0.000812)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.978428	0.978428	0.978428	0.978428
Benzene+cycloprop-2-enylidene	0.0185518	0.996979	0.0185518	0.996979

PhCHCCH2+H	0.00202477	0.999004	0.00202477	0.999004
Benzene+cycloprop-1-enylidene	0.000812306	0.999816	0.000812306	0.999816
C2H2+PhCH2	5.13363e-05	0.999868	5.13363e-05	0.999868
PhCCH+CH3	3.71182e-05	0.999905	3.71182e-05	0.999905
Ph+MeAc	3.63101e-05	0.999941	3.63101e-05	0.999941
PhCCCH3+H	2.84449e-05	0.999970	2.84449e-05	0.999970
Ph+Allene	1.09470e-05	0.999981	1.09470e-05	0.999981
rad67	1.05822e-05	0.999991	1.05822e-05	0.999991
rad35	4.10935e-06	0.999995	4.10935e-06	0.999995
PhCH2CCH+H	2.95392e-06	0.999998	2.95392e-06	0.999998
PAH7+H	8.51564e-07	0.999999	8.51564e-07	0.999999
rad37	2.86678e-07	0.999999	2.86678e-07	0.999999
rad39	2.02118e-07	1.000000	2.02118e-07	1.000000
rad30	8.94923e-08	1.000000	8.94923e-08	1.000000
PhcycC3H3_A+H	5.02850e-08	1.000000	5.02850e-08	1.000000
PAH9+H	2.06879e-08	1.000000	2.06879e-08	1.000000
PAH10+CH3	1.44052e-08	1.000000	1.44052e-08	1.000000
rad38	1.31834e-08	1.000000	1.31834e-08	1.000000
PhcycC3H3_B+H	7.81107e-09	1.000000	7.81107e-09	1.000000
Phenyl+cycC3H4	3.55660e-09	1.000000	0.000000	1.000000
PAH3+H	2.97649e-09	1.000000	2.97649e-09	1.000000
rad60syn	1.43183e-09	1.000000	1.43183e-09	1.000000
rad46	1.04913e-09	1.000000	1.04913e-09	1.000000
rad60anti	7.84373e-10	1.000000	7.84373e-10	1.000000
rad54	4.68691e-10	1.000000	4.68691e-10	1.000000
rad59	4.42102e-10	1.000000	4.42102e-10	1.000000
rad43	1.96278e-10	1.000000	1.96278e-10	1.000000
rad50	6.65687e-11	1.000000	6.65687e-11	1.000000
PAH1+H	4.68911e-11	1.000000	4.68911e-11	1.000000
rad62	3.77646e-11	1.000000	3.77646e-11	1.000000
rad70	3.76454e-11	1.000000	3.76454e-11	1.000000
rad55	1.50995e-11	1.000000	1.50995e-11	1.000000
rad34	3.22092e-12	1.000000	3.22092e-12	1.000000
rad51	2.08196e-12	1.000000	2.08196e-12	1.000000
rad58	2.05092e-12	1.000000	2.05092e-12	1.000000
rad52	1.88540e-12	1.000000	1.88540e-12	1.000000
rad41	8.63972e-13	1.000000	8.63972e-13	1.000000
rad42	2.74849e-13	1.000000	2.74849e-13	1.000000
rad53	1.70507e-13	1.000000	1.70507e-13	1.000000
rad61	1.40668e-13	1.000000	1.40668e-13	1.000000
rad64	7.73135e-14	1.000000	7.73135e-14	1.000000
rad65	6.64224e-14	1.000000	6.64224e-14	1.000000
rad56	2.62115e-14	1.000000	2.62115e-14	1.000000
rad19anti	6.68018e-15	1.000000	6.68018e-15	1.000000
rad68syn	3.88259e-15	1.000000	3.88259e-15	1.000000
rad68anti	2.67414e-15	1.000000	2.67414e-15	1.000000
PAH8+H	8.47560e-16	1.000000	8.47560e-16	1.000000
rad40syn	5.55784e-16	1.000000	5.55784e-16	1.000000
rad6	5.02559e-16	1.000000	5.02559e-16	1.000000
rad40anti	4.06573e-16	1.000000	4.06573e-16	1.000000
rad23	1.55127e-16	1.000000	1.55127e-16	1.000000
rad2	1.18799e-16	1.000000	1.18799e-16	1.000000
rad73	6.83546e-17	1.000000	6.83546e-17	1.000000
rad9	5.51076e-17	1.000000	5.51076e-17	1.000000
rad45	2.40844e-17	1.000000	2.40844e-17	1.000000
rad1	1.42603e-17	1.000000	1.42603e-17	1.000000
rad71	1.35745e-17	1.000000	1.35745e-17	1.000000
rad10	5.76704e-18	1.000000	5.76704e-18	1.000000
rad3	1.71387e-18	1.000000	1.71387e-18	1.000000
rad19syn	1.45990e-18	1.000000	1.45990e-18	1.000000
rad36	1.30269e-18	1.000000	1.30269e-18	1.000000
rad4	9.78717e-19	1.000000	9.78717e-19	1.000000
rad26	3.53480e-19	1.000000	3.53480e-19	1.000000
rad28	7.54644e-20	1.000000	7.54644e-20	1.000000
rad7	5.03308e-20	1.000000	5.03308e-20	1.000000
rad15	3.74845e-20	1.000000	3.74845e-20	1.000000
rad31	1.77645e-20	1.000000	1.77645e-20	1.000000
rad11	1.27508e-20	1.000000	1.27508e-20	1.000000
rad22	5.02107e-21	1.000000	5.02107e-21	1.000000
rad72	2.00231e-21	1.000000	2.00231e-21	1.000000
rad13	3.39842e-22	1.000000	3.39842e-22	1.000000
rad12	1.89164e-22	1.000000	1.89164e-22	1.000000
rad27	6.12201e-24	1.000000	6.12201e-24	1.000000
rad14	1.55697e-24	1.000000	1.55697e-24	1.000000
rad33	1.00358e-24	1.000000	1.00358e-24	1.000000
rad47	5.02583e-25	1.000000	5.02583e-25	1.000000
rad25	9.60450e-26	1.000000	9.60450e-26	1.000000
rad24	4.04600e-27	1.000000	4.04600e-27	1.000000
rad21	3.82945e-27	1.000000	3.82945e-27	1.000000
rad20	2.76949e-27	1.000000	2.76949e-27	1.000000

rad18	4.15666e-29	1.000000	4.15666e-29	1.000000
rad5	4.62177e-30	1.000000	4.62177e-30	1.000000
rad8	1.56287e-37	1.000000	1.56287e-37	1.000000

0.100000000E-03 Pa, 600.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.35570e-13 (1.00)	4.35570e-13 (1.00)
Formation of rad19	4.18892e-13 (0.962)	4.18892e-13 (0.962)
H-abstraction to cyc2enyl	1.54751e-14 (0.0355)	1.54751e-14 (0.0355)
H-abstraction to cyc1enyl	1.20343e-15 (0.00276)	1.20343e-15 (0.00276)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.957276	0.957276	0.957276	0.957276
Benzene+cycloprop-2-enylidene	0.0355285	0.992805	0.0355285	0.992805
PhCHCCH2+H	0.00402172	0.996826	0.00402172	0.996826
Benzene+cycloprop-1-enylidene	0.00276289	0.999589	0.00276289	0.999589
C2H2+PhCH2	0.000111945	0.999701	0.000111945	0.999701
Ph+MeAc	8.57420e-05	0.999787	8.57420e-05	0.999787
PhCCH+CH3	6.75064e-05	0.999854	6.75064e-05	0.999854
PhCCCH3+H	5.90383e-05	0.999913	5.90383e-05	0.999913
Ph+Allene	3.56628e-05	0.999949	3.56628e-05	0.999949
rad67	2.54029e-05	0.999975	2.54029e-05	0.999975
PhCH2CCH+H	1.09199e-05	0.999985	1.09199e-05	0.999985
rad35	9.63305e-06	0.999995	9.63305e-06	0.999995
PAH7+H	2.26706e-06	0.999997	2.26706e-06	0.999997
rad37	8.64904e-07	0.999998	8.64904e-07	0.999998
rad39	5.20249e-07	0.999999	5.20249e-07	0.999999
PhcycC3H3_A+H	3.56529e-07	0.999999	3.56529e-07	0.999999
rad30	2.27441e-07	0.999999	2.27441e-07	0.999999
PAH10+CH3	8.50920e-08	0.999999	8.50920e-08	0.999999
PhcycC3H3_B+H	8.43895e-08	0.999999	8.43895e-08	0.999999
PAH9+H	7.13070e-08	1.000000	7.13070e-08	1.000000
rad38	5.21311e-08	1.000000	5.21311e-08	1.000000
Phenyl+cycC3H4	3.58023e-08	1.000000	0.000000	1.000000
PAH3+H	1.45691e-08	1.000000	1.45691e-08	1.000000
rad60syn	5.03972e-09	1.000000	5.03972e-09	1.000000
rad46	4.37621e-09	1.000000	4.37621e-09	1.000000
rad60anti	2.82886e-09	1.000000	2.82886e-09	1.000000
rad54	2.63022e-09	1.000000	2.63022e-09	1.000000
rad59	2.03126e-09	1.000000	2.03126e-09	1.000000
rad43	9.14302e-10	1.000000	9.14302e-10	1.000000
rad50	4.49074e-10	1.000000	4.49074e-10	1.000000
PAH1+H	4.05905e-10	1.000000	4.05905e-10	1.000000
rad70	2.63826e-10	1.000000	2.63826e-10	1.000000
rad62	1.58022e-10	1.000000	1.58022e-10	1.000000
rad55	1.01573e-10	1.000000	1.01573e-10	1.000000
rad34	2.81348e-11	1.000000	2.81348e-11	1.000000
rad51	2.21631e-11	1.000000	2.21631e-11	1.000000
rad58	1.79744e-11	1.000000	1.79744e-11	1.000000
rad52	1.61050e-11	1.000000	1.61050e-11	1.000000
rad41	7.27827e-12	1.000000	7.27827e-12	1.000000
rad61	2.69080e-12	1.000000	2.69080e-12	1.000000
rad53	2.26526e-12	1.000000	2.26526e-12	1.000000
rad42	1.88131e-12	1.000000	1.88131e-12	1.000000
rad64	9.96176e-13	1.000000	9.96176e-13	1.000000
rad65	7.15324e-13	1.000000	7.15324e-13	1.000000
rad56	5.47638e-13	1.000000	5.47639e-13	1.000000
rad68syn	8.54716e-14	1.000000	8.54716e-14	1.000000
rad68anti	5.81389e-14	1.000000	5.81390e-14	1.000000
rad19anti	4.93441e-14	1.000000	4.93441e-14	1.000000
PAH8+H	3.69245e-14	1.000000	3.69245e-14	1.000000
rad40syn	1.73285e-14	1.000000	1.73285e-14	1.000000
rad40anti	1.26417e-14	1.000000	1.26417e-14	1.000000
rad6	8.69761e-15	1.000000	8.69761e-15	1.000000
rad23	7.78605e-15	1.000000	7.78605e-15	1.000000
rad2	4.35150e-15	1.000000	4.35150e-15	1.000000
rad73	3.37917e-15	1.000000	3.37917e-15	1.000000
rad9	2.56107e-15	1.000000	2.56107e-15	1.000000
rad45	1.34323e-15	1.000000	1.34323e-15	1.000000
rad71	1.04551e-15	1.000000	1.04551e-15	1.000000
rad1	7.09193e-16	1.000000	7.09193e-16	1.000000
rad19syn	1.52297e-16	1.000000	1.52297e-16	1.000000
rad36	1.43680e-16	1.000000	1.43680e-16	1.000000
rad10	1.31302e-16	1.000000	1.31302e-16	1.000000
rad3	6.52662e-17	1.000000	6.52662e-17	1.000000
rad4	4.45814e-17	1.000000	4.45814e-17	1.000000
rad26	5.23165e-18	1.000000	5.23165e-18	1.000000

rad15	1.69590e-18	1.000000	1.69590e-18	1.000000
rad12	1.38552e-18	1.000000	1.38552e-18	1.000000
rad28	1.03726e-18	1.000000	1.03726e-18	1.000000
rad7	9.67440e-19	1.000000	9.67440e-19	1.000000
rad72	6.74336e-19	1.000000	6.74336e-19	1.000000
rad31	3.24820e-19	1.000000	3.24820e-19	1.000000
rad11	2.60667e-19	1.000000	2.60667e-19	1.000000
rad22	2.15243e-19	1.000000	2.15243e-19	1.000000
rad13	7.82246e-21	1.000000	7.82246e-21	1.000000
rad27	1.12593e-22	1.000000	1.12593e-22	1.000000
rad33	2.86474e-23	1.000000	2.86474e-23	1.000000
rad14	2.28412e-23	1.000000	2.28412e-23	1.000000
rad47	1.30363e-23	1.000000	1.30363e-23	1.000000
rad25	1.45982e-24	1.000000	1.45982e-24	1.000000
rad24	1.16262e-24	1.000000	1.16262e-24	1.000000
rad21	7.24245e-25	1.000000	7.24245e-25	1.000000
rad20	3.35417e-25	1.000000	3.35417e-25	1.000000
rad18	3.23928e-27	1.000000	3.23928e-27	1.000000
rad5	6.47731e-30	1.000000	6.47731e-30	1.000000
rad8	2.39366e-32	1.000000	2.39366e-32	1.000000

0.100000000E-03 Pa, 700.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.91694e-13 (1.00)	6.91694e-13 (1.00)
Formation of rad19	6.47922e-13 (0.937)	6.47922e-13 (0.937)
H-abstraction to cyc2enyl	3.91858e-14 (0.0567)	3.91858e-14 (0.0567)
H-abstraction to cyclenyl	4.58543e-15 (0.00663)	4.58542e-15 (0.00663)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.928261	0.928261	0.928261	0.928261
Benzene+cycloprop-2-enylidene	0.0566520	0.984913	0.0566520	0.984913
PhCHCCH2+H	0.00759850	0.992512	0.00759851	0.992512
Benzene+cycloprop-1-enylidene	0.00662927	0.999141	0.00662927	0.999141
C2H2+PhCH2	0.000223367	0.999364	0.000223367	0.999364
Ph+MeAc	0.000184762	0.999549	0.000184762	0.999549
PhCCH+CH3	0.000114475	0.999663	0.000114475	0.999663
PhCCCH3+H	0.000114174	0.999778	0.000114174	0.999778
Ph+Allene	9.86533e-05	0.999876	9.86533e-05	0.999876
rad67	5.61617e-05	0.999932	5.61618e-05	0.999932
PhCH2CCH+H	3.37385e-05	0.999966	3.37385e-05	0.999966
rad35	2.09201e-05	0.999987	2.09202e-05	0.999987
PAH7+H	5.25052e-06	0.999992	5.25052e-06	0.999992
rad37	2.31770e-06	0.999995	2.31770e-06	0.999995
PhcycC3H3_A+H	1.84668e-06	0.999997	1.84668e-06	0.999997
rad39	1.15814e-06	0.999998	1.15814e-06	0.999998
PhcycC3H3_B+H	5.97889e-07	0.999998	5.97889e-07	0.999998
rad30	5.35177e-07	0.999999	5.35177e-07	0.999999
PAH10+CH3	3.93624e-07	0.999999	3.93624e-07	0.999999
Phenyl+cycC3H4	2.47273e-07	0.999999	0.000000	0.999999
PAH9+H	2.20558e-07	1.000000	2.20558e-07	0.999999
rad38	1.79348e-07	1.000000	1.79348e-07	1.000000
PAH3+H	5.98815e-08	1.000000	5.98815e-08	1.000000
rad46	1.59383e-08	1.000000	1.59383e-08	1.000000
rad60syn	1.57198e-08	1.000000	1.57198e-08	1.000000
rad54	1.11959e-08	1.000000	1.11959e-08	1.000000
rad60anti	9.00502e-09	1.000000	9.00502e-09	1.000000
rad59	7.88061e-09	1.000000	7.88061e-09	1.000000
rad43	3.45953e-09	1.000000	3.45953e-09	1.000000
PAH1+H	2.45995e-09	1.000000	2.45995e-09	1.000000
rad50	2.44564e-09	1.000000	2.44564e-09	1.000000
rad70	1.34938e-09	1.000000	1.34939e-09	1.000000
rad62	5.31170e-10	1.000000	5.31170e-10	1.000000
rad55	4.95201e-10	1.000000	4.95201e-10	1.000000
rad51	1.72654e-10	1.000000	1.72654e-10	1.000000
rad34	1.70511e-10	1.000000	1.70511e-10	1.000000
rad58	1.15481e-10	1.000000	1.15481e-10	1.000000
rad52	1.05443e-10	1.000000	1.05443e-10	1.000000
rad41	4.33848e-11	1.000000	4.33848e-11	1.000000
rad61	2.93831e-11	1.000000	2.93831e-11	1.000000
rad53	1.83949e-11	1.000000	1.83949e-11	1.000000
rad42	9.22818e-12	1.000000	9.22818e-12	1.000000
rad64	7.68987e-12	1.000000	7.68987e-12	1.000000
rad56	6.14022e-12	1.000000	6.14022e-12	1.000000
rad65	5.56202e-12	1.000000	5.56202e-12	1.000000
rad68syn	1.01762e-12	1.000000	1.01762e-12	1.000000
PAH8+H	7.27473e-13	1.000000	7.27473e-13	1.000000
rad9	6.96092e-13	1.000000	6.96092e-13	1.000000

rad68anti	6.85899e-13	1.000000	6.85899e-13	1.000000
rad40syn	2.67924e-13	1.000000	2.67924e-13	1.000000
rad40anti	1.96405e-13	1.000000	1.96405e-13	1.000000
rad73	8.04136e-14	1.000000	8.04136e-14	1.000000
rad19anti	6.95729e-14	1.000000	6.95729e-14	1.000000
rad23	3.70364e-14	1.000000	3.70364e-14	1.000000
rad71	3.43166e-14	1.000000	3.43167e-14	1.000000
rad6	2.71313e-14	1.000000	2.71313e-14	1.000000
rad2	1.85142e-14	1.000000	1.85142e-14	1.000000
rad45	6.30551e-15	1.000000	6.30551e-15	1.000000
rad1	4.52539e-15	1.000000	4.52539e-15	1.000000
rad12	1.17951e-15	1.000000	1.17951e-15	1.000000
rad19syn	8.87889e-16	1.000000	8.87889e-16	1.000000
rad36	8.84760e-16	1.000000	8.84760e-16	1.000000
rad10	4.64155e-16	1.000000	4.64155e-16	1.000000
rad15	3.19336e-16	1.000000	3.19336e-16	1.000000
rad3	2.60381e-16	1.000000	2.60381e-16	1.000000
rad4	2.09090e-16	1.000000	2.09090e-16	1.000000
rad72	5.68749e-17	1.000000	5.68749e-17	1.000000
rad26	1.65112e-17	1.000000	1.65112e-17	1.000000
rad7	3.49080e-18	1.000000	3.49080e-18	1.000000
rad28	3.28268e-18	1.000000	3.28268e-18	1.000000
rad22	1.07848e-18	1.000000	1.07848e-18	1.000000
rad11	1.02310e-18	1.000000	1.02310e-18	1.000000
rad31	9.71078e-19	1.000000	9.71078e-19	1.000000
rad13	3.85327e-20	1.000000	3.85327e-20	1.000000
rad24	2.00475e-21	1.000000	2.00475e-21	1.000000
rad27	3.97783e-22	1.000000	3.97784e-22	1.000000
rad21	3.13241e-22	1.000000	3.13241e-22	1.000000
rad33	2.61705e-22	1.000000	2.61705e-22	1.000000
rad47	1.29142e-22	1.000000	1.29142e-22	1.000000
rad14	7.74378e-23	1.000000	7.74378e-23	1.000000
rad20	5.36883e-23	1.000000	5.36883e-23	1.000000
rad25	9.69551e-24	1.000000	9.69551e-24	1.000000
rad18	6.24306e-26	1.000000	6.24306e-26	1.000000
rad8	5.34064e-27	1.000000	5.34064e-27	1.000000
rad5	1.40806e-29	1.000000	1.40806e-29	1.000000

0.100000000E-03 Pa, 800.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.03759e-12 (1.00)	1.03758e-12 (1.00)
Formation of rad19	9.41065e-13 (0.907)	9.41063e-13 (0.907)
H-abstraction to cyc2enyl	8.32953e-14 (0.0803)	8.32953e-14 (0.0803)
H-abstraction to cyclenyl	1.32261e-14 (0.0127)	1.32261e-14 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.891851	0.891851	0.891852	0.891852
Benzene+cycloprop-2-enylidene	0.0802780	0.972129	0.0802781	0.972130
PhCHCCH2+H	0.0134622	0.985591	0.0134623	0.985592
Benzene+cycloprop-1-enylidene	0.0127470	0.998338	0.0127470	0.998339
C2H2+PhCH2	0.000407098	0.998746	0.000407098	0.998747
Ph+MeAc	0.000361138	0.999107	0.000361138	0.999108
Ph+Allene	0.000232338	0.999339	0.000232338	0.999340
PhCCCH3+H	0.000203971	0.999543	0.000203971	0.999544
PhCCH+CH3	0.000180552	0.999724	0.000180553	0.999725
rad67	0.000113174	0.999837	0.000113174	0.999838
PhCH2CCH+H	8.77930e-05	0.999924	8.77932e-05	0.999925
rad35	4.16128e-05	0.999966	4.16129e-05	0.999967
PAH7+H	1.05800e-05	0.999977	1.05800e-05	0.999978
PhcycC3H3_A+H	7.41209e-06	0.999984	7.41210e-06	0.999985
rad37	5.46662e-06	0.999990	5.46663e-06	0.999991
PhcycC3H3_B+H	3.06124e-06	0.999993	3.06124e-06	0.999994
rad39	2.23427e-06	0.999995	2.23428e-06	0.999996
PAH10+CH3	1.45373e-06	0.999996	1.45373e-06	0.999997
Phenyl+cycC3H4	1.26413e-06	0.999998	0.000000	0.999997
rad30	1.14933e-06	0.999999	1.14933e-06	0.999998
PAH9+H	6.06281e-07	0.999999	6.06282e-07	0.999999
rad38	5.31254e-07	1.000000	5.31255e-07	1.000000
PAH3+H	2.06534e-07	1.000000	2.06535e-07	1.000000
rad46	5.03837e-08	1.000000	5.03838e-08	1.000000
rad60syn	4.30113e-08	1.000000	4.30113e-08	1.000000
rad54	3.72615e-08	1.000000	3.72615e-08	1.000000
rad59	2.58004e-08	1.000000	2.58004e-08	1.000000
rad60anti	2.50612e-08	1.000000	2.50612e-08	1.000000
PAH1+H	1.11102e-08	1.000000	1.11102e-08	1.000000
rad50	1.08530e-08	1.000000	1.08530e-08	1.000000
rad43	1.08255e-08	1.000000	1.08255e-08	1.000000

rad70	5.27763e-09	1.00000	5.27763e-09	1.00000
rad55	1.83174e-09	1.00000	1.83175e-09	1.00000
rad62	1.46956e-09	1.00000	1.46956e-09	1.00000
rad51	1.02140e-09	1.00000	1.02141e-09	1.00000
rad34	7.64054e-10	1.00000	7.64055e-10	1.00000
rad58	5.66064e-10	1.00000	5.66065e-10	1.00000
rad52	5.41769e-10	1.00000	5.41770e-10	1.00000
rad61	2.09072e-10	1.00000	2.09072e-10	1.00000
rad41	1.94595e-10	1.00000	1.94595e-10	1.00000
rad53	1.01501e-10	1.00000	1.01501e-10	1.00000
rad56	4.31933e-11	1.00000	4.31934e-11	1.00000
rad9	4.04987e-11	1.00000	4.04987e-11	1.00000
rad64	4.01363e-11	1.00000	4.01363e-11	1.00000
rad42	3.44813e-11	1.00000	3.44814e-11	1.00000
rad65	3.26030e-11	1.00000	3.26030e-11	1.00000
PAH8+H	8.11499e-12	1.00000	8.11500e-12	1.00000
rad68syn	7.66846e-12	1.00000	7.66847e-12	1.00000
rad68anti	5.13229e-12	1.00000	5.13230e-12	1.00000
rad40syn	2.48637e-12	1.00000	2.48637e-12	1.00000
rad40anti	1.83893e-12	1.00000	1.83894e-12	1.00000
rad73	1.11387e-12	1.00000	1.11387e-12	1.00000
rad71	6.08127e-13	1.00000	6.08128e-13	1.00000
rad12	6.62399e-14	1.00000	6.62400e-14	1.00000
rad23	6.37820e-14	1.00000	6.37821e-14	1.00000
rad19anti	6.02835e-14	1.00000	6.02835e-14	1.00000
rad6	3.30974e-14	1.00000	3.30975e-14	1.00000
rad2	2.65091e-14	1.00000	2.65091e-14	1.00000
rad45	1.37003e-14	1.00000	1.37003e-14	1.00000
rad15	1.14940e-14	1.00000	1.14940e-14	1.00000
rad1	7.77644e-15	1.00000	7.77645e-15	1.00000
rad72	2.02320e-15	1.00000	2.02321e-15	1.00000
rad36	1.68440e-15	1.00000	1.68440e-15	1.00000
rad19syn	1.44428e-15	1.00000	1.44428e-15	1.00000
rad10	6.82960e-16	1.00000	6.82962e-16	1.00000
rad3	3.33077e-16	1.00000	3.33077e-16	1.00000
rad4	2.74037e-16	1.00000	2.74037e-16	1.00000
rad26	2.19060e-17	1.00000	2.19060e-17	1.00000
rad7	5.24763e-18	1.00000	5.24764e-18	1.00000
rad28	4.40088e-18	1.00000	4.40089e-18	1.00000
rad22	2.04419e-18	1.00000	2.04419e-18	1.00000
rad11	1.71531e-18	1.00000	1.71531e-18	1.00000
rad31	1.51028e-18	1.00000	1.51028e-18	1.00000
rad24	4.04466e-19	1.00000	4.04466e-19	1.00000
rad21	1.34523e-19	1.00000	1.34523e-19	1.00000
rad13	9.24643e-20	1.00000	9.24643e-20	1.00000
rad33	2.40790e-20	1.00000	2.40791e-20	1.00000
rad20	2.16810e-20	1.00000	2.16810e-20	1.00000
rad27	9.48460e-22	1.00000	9.48469e-22	1.00000
rad47	8.53942e-22	1.00000	8.53943e-22	1.00000
rad25	3.75089e-22	1.00000	3.75089e-22	1.00000
rad8	2.39851e-22	1.00000	2.39851e-22	1.00000
rad14	1.51832e-22	1.00000	1.51833e-22	1.00000
rad18	6.51839e-25	1.00000	6.51840e-25	1.00000
rad5	5.53774e-29	1.00000	5.53775e-29	1.00000

0.100000000E-03 Pa, 900.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.49199e-12 (1.00)	1.49199e-12 (1.00)
Formation of rad19	1.30395e-12 (0.874)	1.30394e-12 (0.874)
H-abstraction to cyc2enyl	1.56554e-13 (0.105)	1.56554e-13 (0.105)
H-abstraction to cyclenyl	3.14892e-14 (0.0211)	3.14890e-14 (0.0211)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.848699	0.848699	0.848703	0.848703
Benzene+cycloprop-2-enylidene	0.104929	0.953628	0.104930	0.953634
PhCHCCH2+H	0.0222941	0.975922	0.0222941	0.975928
Benzene+cycloprop-1-enylidene	0.0211054	0.997028	0.0211054	0.997033
C2H2+PhCH2	0.000683868	0.997712	0.000683871	0.997717
Ph+MeAc	0.000643403	0.998355	0.000643407	0.998360
Ph+Allene	0.000474185	0.998829	0.000474187	0.998835
PhCCCH3+H	0.000337156	0.999166	0.000337157	0.999172
PhCCH+CH3	0.000266833	0.999433	0.000266834	0.999439
rad67	0.000208252	0.999641	0.000208253	0.999647
PhCH2CCH+H	0.000196562	0.999838	0.000196563	0.999843
rad35	7.58729e-05	0.999914	7.58733e-05	0.999919
PhcycC3H3_A+H	2.42103e-05	0.999938	2.42105e-05	0.999943
PAH7+H	1.88375e-05	0.999957	1.88376e-05	0.999962

PhcycC3H3_B+H	1.21561e-05	0.999969	1.21561e-05	0.999974
rad37	1.14050e-05	0.999980	1.14050e-05	0.999986
Phenyl+cycC3H4	5.07995e-06	0.999986	0.00000	0.999986
PAH10+CH3	4.40461e-06	0.999990	4.40463e-06	0.999990
rad39	3.79886e-06	0.999994	3.79888e-06	0.999994
rad30	2.25163e-06	0.999996	2.25165e-06	0.999996
PAH9+H	1.48864e-06	0.999997	1.48865e-06	0.999998
rad38	1.36505e-06	0.999999	1.36505e-06	0.999999
PAH3+H	6.06186e-07	0.999999	6.06189e-07	1.000000
rad46	1.39482e-07	1.000000	1.39483e-07	1.000000
rad60syn	1.03783e-07	1.000000	1.03784e-07	1.000000
rad54	1.00667e-07	1.000000	1.00667e-07	1.000000
rad59	7.22570e-08	1.000000	7.22574e-08	1.000000
rad60anti	6.13422e-08	1.000000	6.13425e-08	1.000000
rad50	4.00789e-08	1.000000	4.00791e-08	1.000000
PAH1+H	3.94732e-08	1.000000	3.94734e-08	1.000000
rad43	2.87031e-08	1.000000	2.87033e-08	1.000000
rad70	1.65408e-08	1.000000	1.65408e-08	1.000000
rad55	5.38699e-09	1.000000	5.38702e-09	1.000000
rad51	4.77137e-09	1.000000	4.77139e-09	1.000000
rad62	3.44637e-09	1.000000	3.44638e-09	1.000000
rad34	2.67892e-09	1.000000	2.67894e-09	1.000000
rad52	2.25238e-09	1.000000	2.25239e-09	1.000000
rad58	2.20457e-09	1.000000	2.20458e-09	1.000000
rad61	1.06256e-09	1.000000	1.06257e-09	1.000000
rad41	6.91191e-10	1.000000	6.91195e-10	1.000000
rad53	4.12666e-10	1.000000	4.12668e-10	1.000000
rad9	2.88314e-10	1.000000	2.88316e-10	1.000000
rad56	2.12371e-10	1.000000	2.12372e-10	1.000000
rad64	1.54860e-10	1.000000	1.54860e-10	1.000000
rad65	1.50320e-10	1.000000	1.50321e-10	1.000000
rad42	1.03377e-10	1.000000	1.03377e-10	1.000000
PAH8+H	5.91178e-11	1.000000	5.91181e-11	1.000000
rad68syn	4.07133e-11	1.000000	4.07136e-11	1.000000
rad68anti	2.70947e-11	1.000000	2.70947e-11	1.000000
rad40syn	1.56733e-11	1.000000	1.56734e-11	1.000000
rad40anti	1.17159e-11	1.000000	1.17160e-11	1.000000
rad73	1.01671e-11	1.000000	1.01671e-11	1.000000
rad71	6.75212e-12	1.000000	6.75216e-12	1.000000
rad12	4.04551e-13	1.000000	4.04554e-13	1.000000
rad23	7.12192e-14	1.000000	7.12195e-14	1.000000
rad15	6.35310e-14	1.000000	6.35314e-14	1.000000
rad19anti	4.57501e-14	1.000000	4.57503e-14	1.000000
rad72	3.83277e-14	1.000000	3.83278e-14	1.000000
rad2	2.50664e-14	1.000000	2.50665e-14	1.000000
rad6	2.40147e-14	1.000000	2.40148e-14	1.000000
rad45	1.87889e-14	1.000000	1.87890e-14	1.000000
rad1	7.47650e-15	1.000000	7.47654e-15	1.000000
rad36	2.10049e-15	1.000000	2.10050e-15	1.000000
rad19syn	1.51735e-15	1.000000	1.51736e-15	1.000000
rad10	6.55178e-16	1.000000	6.55182e-16	1.000000
rad3	2.76696e-16	1.000000	2.76697e-16	1.000000
rad4	2.29087e-16	1.000000	2.29089e-16	1.000000
rad26	1.73096e-17	1.000000	1.73097e-17	1.000000
rad21	1.24314e-17	1.000000	1.24314e-17	1.000000
rad24	8.13233e-18	1.000000	8.13237e-18	1.000000
rad7	5.10708e-18	1.000000	5.10712e-18	1.000000
rad28	3.54010e-18	1.000000	3.54012e-18	1.000000
rad22	2.50544e-18	1.000000	2.50545e-18	1.000000
rad20	2.39369e-18	1.000000	2.39370e-18	1.000000
rad31	1.88477e-18	1.000000	1.88478e-18	1.000000
rad11	1.86752e-18	1.000000	1.86753e-18	1.000000
rad33	1.64434e-18	1.000000	1.64435e-18	1.000000
rad8	5.47269e-19	1.000000	5.47272e-19	1.000000
rad13	4.80024e-19	1.000000	4.80027e-19	1.000000
rad25	2.46213e-20	1.000000	2.46214e-20	1.000000
rad27	2.25833e-20	1.000000	2.25834e-20	1.000000
rad47	4.17546e-21	1.000000	4.17547e-21	1.000000
rad14	1.75692e-21	1.000000	1.75693e-21	1.000000
rad18	2.09654e-23	1.000000	2.09655e-23	1.000000
rad5	3.90410e-28	1.000000	3.90412e-28	1.000000

0.100000000E-03 Pa, 1000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.07591e-12 (1.00)	2.07587e-12 (1.00)
Formation of rad19	1.74189e-12 (0.839)	1.74186e-12 (0.839)
H-abstraction to cyc2enyl	2.68753e-13 (0.129)	2.68753e-13 (0.129)
H-abstraction to cyclenyl	6.52627e-14 (0.0314)	6.52614e-14 (0.0314)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.799582	0.799582	0.799596	0.799596
Benzene+cycloprop-2-enylidene	0.129463	0.929045	0.129465	0.929061
PhCHCCH2+H	0.0345727	0.963618	0.0345733	0.963635
Benzene+cycloprop-1-enylidene	0.0314382	0.995056	0.0314381	0.995073
C2H2+PhCH2	0.00107013	0.996126	0.00107014	0.996143
Ph+MeAc	0.00105356	0.997180	0.00105357	0.997197
Ph+Allene	0.000856132	0.998036	0.000856147	0.998053
PhCCCH3+H	0.000518388	0.998554	0.000518396	0.998571
PhCH2CCH+H	0.000387330	0.998942	0.000387336	0.998958
PhCCH+CH3	0.000373412	0.999315	0.000373419	0.999332
rad67	0.000352154	0.999667	0.000352160	0.999684
rad35	0.000127506	0.999795	0.000127508	0.999812
PhcycC3H3_A+H	6.68787e-05	0.999862	6.68799e-05	0.999878
PhcycC3H3_B+H	3.94287e-05	0.999901	3.94293e-05	0.999918
PAH7+H	3.02070e-05	0.999931	3.02075e-05	0.999948
rad37	2.12565e-05	0.999953	2.12568e-05	0.999969
Phenyl+cycC3H4	1.68078e-05	0.999969	0.00000	0.999969
PAH10+CH3	1.12446e-05	0.999981	1.12447e-05	0.999981
rad39	5.81024e-06	0.999986	5.81034e-06	0.999986
rad30	4.04406e-06	0.999990	4.04413e-06	0.999990
PAH9+H	3.29361e-06	0.999994	3.29367e-06	0.999994
rad38	3.08261e-06	0.999997	3.08266e-06	0.999997
PAH3+H	1.54070e-06	0.999998	1.54073e-06	0.999998
rad46	3.42239e-07	0.999999	3.42245e-07	0.999999
rad54	2.28520e-07	0.999999	2.28524e-07	0.999999
rad60syn	2.23169e-07	0.999999	2.23173e-07	0.999999
rad59	1.76070e-07	0.999999	1.76073e-07	0.999999
rad60anti	1.33518e-07	1.000000	1.33520e-07	0.999999
rad50	1.25826e-07	1.000000	1.25828e-07	1.000000
PAH1+H	1.15144e-07	1.000000	1.15145e-07	1.000000
rad43	6.59876e-08	1.000000	6.59887e-08	1.000000
rad70	4.32135e-08	1.000000	4.32143e-08	1.000000
rad51	1.82049e-08	1.000000	1.82052e-08	1.000000
rad55	1.31137e-08	1.000000	1.31139e-08	1.000000
rad52	7.79285e-09	1.000000	7.79298e-09	1.000000
rad34	7.69223e-09	1.000000	7.69236e-09	1.000000
rad58	7.06659e-09	1.000000	7.06671e-09	1.000000
rad62	7.03940e-09	1.000000	7.03953e-09	1.000000
rad61	4.12272e-09	1.000000	4.12279e-09	1.000000
rad41	2.02448e-09	1.000000	2.02451e-09	1.000000
rad53	1.31432e-09	1.000000	1.31434e-09	1.000000
rad56	7.88430e-10	1.000000	7.88443e-10	1.000000
rad65	5.65101e-10	1.000000	5.65111e-10	1.000000
rad9	4.76632e-10	1.000000	4.76640e-10	1.000000
rad64	4.71855e-10	1.000000	4.71863e-10	1.000000
PAH8+H	3.09752e-10	1.000000	3.09757e-10	1.000000
rad42	2.59222e-10	1.000000	2.59226e-10	1.000000
rad68syn	1.64237e-10	1.000000	1.64240e-10	1.000000
rad68anti	1.08793e-10	1.000000	1.08795e-10	1.000000
rad40syn	7.30619e-11	1.000000	7.30632e-11	1.000000
rad73	6.66001e-11	1.000000	6.66012e-11	1.000000
rad40anti	5.52187e-11	1.000000	5.52196e-11	1.000000
rad71	5.18879e-11	1.000000	5.18889e-11	1.000000
rad12	7.27755e-13	1.000000	7.27767e-13	1.000000
rad72	4.47263e-13	1.000000	4.47271e-13	1.000000
rad15	1.01392e-13	1.000000	1.01394e-13	1.000000
rad23	7.10418e-14	1.000000	7.10430e-14	1.000000
rad19anti	3.42048e-14	1.000000	3.42054e-14	1.000000
rad45	2.13606e-14	1.000000	2.13610e-14	1.000000
rad2	2.06904e-14	1.000000	2.06908e-14	1.000000
rad6	1.55360e-14	1.000000	1.55363e-14	1.000000
rad1	6.14331e-15	1.000000	6.14341e-15	1.000000
rad36	2.27018e-15	1.000000	2.27022e-15	1.000000
rad19syn	1.42443e-15	1.000000	1.42446e-15	1.000000
rad10	5.72026e-16	1.000000	5.72036e-16	1.000000
rad21	2.11576e-16	1.000000	2.11581e-16	1.000000
rad3	2.08838e-16	1.000000	2.08842e-16	1.000000
rad4	1.72473e-16	1.000000	1.72475e-16	1.000000
rad8	6.27706e-17	1.000000	6.27717e-17	1.000000
rad20	4.93253e-17	1.000000	4.93262e-17	1.000000
rad24	3.61522e-17	1.000000	3.61528e-17	1.000000
rad33	2.31465e-17	1.000000	2.31469e-17	1.000000
rad13	2.21773e-17	1.000000	2.21777e-17	1.000000
rad26	1.24406e-17	1.000000	1.24409e-17	1.000000
rad7	4.79492e-18	1.000000	4.79501e-18	1.000000
rad11	2.88036e-18	1.000000	2.88041e-18	1.000000
rad22	2.80159e-18	1.000000	2.80164e-18	1.000000

rad28	2.57669e-18	1.000000	2.57673e-18	1.000000
rad31	2.18570e-18	1.000000	2.18575e-18	1.000000
rad25	7.69196e-19	1.000000	7.69210e-19	1.000000
rad27	5.63388e-19	1.000000	5.63397e-19	1.000000
rad14	4.02457e-20	1.000000	4.02463e-20	1.000000
rad47	1.62909e-20	1.000000	1.62911e-20	1.000000
rad18	4.34991e-21	1.000000	4.34999e-21	1.000000
rad5	5.48578e-27	1.000000	5.48587e-27	1.000000

0.100000000E-03 Pa, 1100.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.81236e-12 (1.00)	2.81222e-12 (1.00)
Formation of rad19	2.25993e-12 (0.804)	2.25980e-12 (0.804)
H-abstraction to cyc2enyl	4.30538e-13 (0.153)	4.30538e-13 (0.153)
H-abstraction to cyclenyl	1.21896e-13 (0.0433)	1.21889e-13 (0.0433)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.745455	0.745455	0.745493	0.745493
Benzene+cycloprop-2-enylidene	0.153088	0.898543	0.153095	0.898588
PhCHCCH2+H	0.0504085	0.948951	0.0504110	0.948999
Benzene+cycloprop-1-enylidene	0.0433429	0.992294	0.0433425	0.992342
Ph+MeAc	0.00159989	0.993894	0.00159997	0.993942
C2H2+PhCH2	0.00157393	0.995468	0.00157401	0.995516
Ph+Allene	0.00139377	0.996862	0.00139384	0.996909
PhCCCH3+H	0.000746146	0.997608	0.000746184	0.997656
PhCH2CCH+H	0.000685299	0.998293	0.000685334	0.998341
rad67	0.000551509	0.998845	0.000551537	0.998892
PhCCH+CH3	0.000499927	0.999345	0.000499952	0.999392
rad35	0.000198904	0.999544	0.000198914	0.999591
PhcycC3H3_A+H	0.000160985	0.999705	0.000160994	0.999752
PhcycC3H3_B+H	0.000108569	0.999813	0.000108575	0.999861
Phenyl+cycC3H4	4.74535e-05	0.999861	0.000000	0.999861
PAH7+H	4.44306e-05	0.999905	4.44328e-05	0.999905
rad37	3.57976e-05	0.999941	3.57993e-05	0.999941
PAH10+CH3	2.47740e-05	0.999966	2.47753e-05	0.999966
rad39	8.15502e-06	0.999974	8.15543e-06	0.999974
rad30	6.70503e-06	0.999981	6.70536e-06	0.999981
PAH9+H	6.62670e-06	0.999987	6.62703e-06	0.999987
rad38	6.20642e-06	0.999993	6.20672e-06	0.999994
PAH3+H	3.44989e-06	0.999997	3.45006e-06	0.999997
rad46	7.53033e-07	0.999998	7.53070e-07	0.999998
rad54	4.48842e-07	0.999998	4.48864e-07	0.999998
rad60syn	4.32688e-07	0.999998	4.32709e-07	0.999999
rad59	3.79560e-07	0.999999	3.79579e-07	0.999999
rad50	3.42341e-07	0.999999	3.42358e-07	0.999999
PAH1+H	2.85109e-07	0.999999	2.85123e-07	1.000000
rad60anti	2.61576e-07	1.000000	2.61589e-07	1.000000
rad43	1.34197e-07	1.000000	1.34204e-07	1.000000
rad70	9.71315e-08	1.000000	9.71362e-08	1.000000
rad51	5.83467e-08	1.000000	5.83496e-08	1.000000
rad55	2.73128e-08	1.000000	2.73142e-08	1.000000
rad52	2.29834e-08	1.000000	2.29845e-08	1.000000
rad58	1.92025e-08	1.000000	1.92034e-08	1.000000
rad34	1.87451e-08	1.000000	1.87461e-08	1.000000
rad61	1.28390e-08	1.000000	1.28397e-08	1.000000
rad62	1.28154e-08	1.000000	1.28161e-08	1.000000
rad41	5.04814e-09	1.000000	5.04840e-09	1.000000
rad53	3.43665e-09	1.000000	3.43682e-09	1.000000
rad56	2.33966e-09	1.000000	2.33978e-09	1.000000
rad65	1.78385e-09	1.000000	1.78394e-09	1.000000
PAH8+H	1.24981e-09	1.000000	1.24987e-09	1.000000
rad64	1.19311e-09	1.000000	1.19317e-09	1.000000
rad42	5.61778e-10	1.000000	5.61806e-10	1.000000
rad68syn	5.31778e-10	1.000000	5.31805e-10	1.000000
rad9	4.20628e-10	1.000000	4.20650e-10	1.000000
rad68anti	3.50889e-10	1.000000	3.50907e-10	1.000000
rad73	3.32912e-10	1.000000	3.32929e-10	1.000000
rad71	2.96148e-10	1.000000	2.96163e-10	1.000000
rad40syn	2.67659e-10	1.000000	2.67673e-10	1.000000
rad40anti	2.04456e-10	1.000000	2.04466e-10	1.000000
rad72	3.56697e-12	1.000000	3.56715e-12	1.000000
rad12	7.93740e-13	1.000000	7.93780e-13	1.000000
rad15	9.52591e-14	1.000000	9.52639e-14	1.000000
rad23	6.73798e-14	1.000000	6.73831e-14	1.000000
rad19anti	2.56276e-14	1.000000	2.56289e-14	1.000000
rad45	2.20198e-14	1.000000	2.20209e-14	1.000000
rad2	1.62597e-14	1.000000	1.62606e-14	1.000000

rad6	1.07375e-14	1.00000	1.07380e-14	1.00000
rad1	4.76786e-15	1.00000	4.76810e-15	1.00000
rad36	2.29278e-15	1.00000	2.29288e-15	1.00000
rad19syn	1.28391e-15	1.00000	1.28398e-15	1.00000
rad21	9.63737e-16	1.00000	9.63784e-16	1.00000
rad8	7.65078e-16	1.00000	7.65117e-16	1.00000
rad10	4.89598e-16	1.00000	4.89622e-16	1.00000
rad13	3.15659e-16	1.00000	3.15675e-16	1.00000
rad20	2.48657e-16	1.00000	2.48669e-16	1.00000
rad3	1.51422e-16	1.00000	1.51430e-16	1.00000
rad4	1.24426e-16	1.00000	1.24433e-16	1.00000
rad33	8.69060e-17	1.00000	8.69109e-17	1.00000
rad24	7.72326e-17	1.00000	7.72364e-17	1.00000
rad11	5.71813e-17	1.00000	5.71841e-17	1.00000
rad26	9.20826e-18	1.00000	9.20874e-18	1.00000
rad25	7.88056e-18	1.00000	7.88095e-18	1.00000
rad7	6.52280e-18	1.00000	6.52312e-18	1.00000
rad27	4.73322e-18	1.00000	4.73346e-18	1.00000
rad22	2.98295e-18	1.00000	2.98310e-18	1.00000
rad31	2.41068e-18	1.00000	2.41079e-18	1.00000
rad28	1.93098e-18	1.00000	1.93107e-18	1.00000
rad18	4.94936e-19	1.00000	4.94961e-19	1.00000
rad14	3.73428e-19	1.00000	3.73447e-19	1.00000
rad47	5.24231e-20	1.00000	5.24257e-20	1.00000
rad5	1.46155e-25	1.00000	1.46162e-25	1.00000

0.100000000E-03 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.72623e-12 (1.00)	3.72576e-12 (1.00)
Formation of rad19	2.86288e-12 (0.768)	2.86245e-12 (0.768)
H-abstraction to cyc2enyl	6.53266e-13 (0.175)	6.53266e-13 (0.175)
H-abstraction to cyclenyl	2.10085e-13 (0.0564)	2.10053e-13 (0.0564)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.687506	0.687506	0.687593	0.687593
Benzene+cycloprop-2-enylidene	0.175315	0.862821	0.175337	0.862930
PhCHCCH2+H	0.0694470	0.932268	0.0694557	0.932386
Benzene+cycloprop-1-enylidene	0.0563801	0.988648	0.0563786	0.988764
Ph+MeAc	0.00227272	0.990921	0.00227301	0.991037
C2H2+PhCH2	0.00219121	0.993112	0.00219148	0.993229
Ph+Allene	0.00207994	0.995192	0.00208020	0.995309
PhCH2CCH+H	0.00110691	0.996299	0.00110706	0.996416
PhCCCH3+H	0.00101200	0.997311	0.00101213	0.997428
rad67	0.000806305	0.998117	0.000806406	0.998235
PhCCH+CH3	0.000645716	0.998763	0.000645798	0.998880
PhcycC3H3_A+H	0.000345598	0.999109	0.000345641	0.999226
rad35	0.000290169	0.999399	0.000290206	0.999516
PhcycC3H3_B+H	0.000261273	0.999660	0.000261306	0.999778
Phenyl+cycC3H4	0.000117514	0.999778	0.000000	0.999778
PAH7+H	6.09151e-05	0.999838	6.09229e-05	0.999839
rad37	5.50993e-05	0.999894	5.51063e-05	0.999894
PAH10+CH3	4.81021e-05	0.999942	4.81082e-05	0.999942
PAH9+H	1.22285e-05	0.999954	1.22300e-05	0.999954
rad38	1.12958e-05	0.999965	1.12972e-05	0.999965
rad39	1.06983e-05	0.999976	1.06996e-05	0.999976
rad30	1.03391e-05	0.999986	1.03403e-05	0.999986
PAH3+H	6.91379e-06	0.999993	6.91466e-06	0.999993
rad46	1.50176e-06	0.999995	1.50195e-06	0.999995
rad50	8.20642e-07	0.999995	8.20743e-07	0.999996
rad54	7.81497e-07	0.999996	7.81598e-07	0.999996
rad60syn	7.65102e-07	0.999997	7.65199e-07	0.999997
rad59	7.35018e-07	0.999998	7.35111e-07	0.999998
PAH1+H	6.15259e-07	0.999998	6.15337e-07	0.999998
rad60anti	4.66711e-07	0.999999	4.66769e-07	0.999999
rad43	2.45550e-07	0.999999	2.45581e-07	0.999999
rad70	1.92605e-07	0.999999	1.92629e-07	0.999999
rad51	1.60721e-07	0.999999	1.60741e-07	1.000000
rad52	5.89509e-08	1.000000	5.89583e-08	1.000000
rad55	4.99974e-08	1.000000	5.00038e-08	1.000000
rad58	4.53331e-08	1.000000	4.53389e-08	1.000000
rad34	3.98655e-08	1.000000	3.98705e-08	1.000000
rad61	3.33579e-08	1.000000	3.33621e-08	1.000000
rad62	2.11968e-08	1.000000	2.11994e-08	1.000000
rad41	1.09917e-08	1.000000	1.09931e-08	1.000000
rad53	7.65059e-09	1.000000	7.65156e-09	1.000000
rad56	5.79402e-09	1.000000	5.79474e-09	1.000000
rad65	4.84114e-09	1.000000	4.84175e-09	1.000000

PAH8+H	4.08163e-09	1.000000	4.08215e-09	1.000000
rad64	2.59994e-09	1.000000	2.60027e-09	1.000000
rad68syn	1.43965e-09	1.000000	1.43983e-09	1.000000
rad73	1.32831e-09	1.000000	1.32848e-09	1.000000
rad71	1.32075e-09	1.000000	1.32092e-09	1.000000
rad42	1.07985e-09	1.000000	1.07999e-09	1.000000
rad68anti	9.46805e-10	1.000000	9.46926e-10	1.000000
rad40syn	8.05959e-10	1.000000	8.06061e-10	1.000000
rad40anti	6.21769e-10	1.000000	6.21848e-10	1.000000
rad9	3.01825e-10	1.000000	3.01863e-10	1.000000
rad72	2.08614e-11	1.000000	2.08641e-11	1.000000
rad12	7.13601e-13	1.000000	7.13691e-13	1.000000
rad15	7.79499e-14	1.000000	7.79601e-14	1.000000
rad23	6.23190e-14	1.000000	6.23268e-14	1.000000
rad45	2.15125e-14	1.000000	2.15153e-14	1.000000
rad19anti	1.93811e-14	1.000000	1.93836e-14	1.000000
rad2	1.23640e-14	1.000000	1.23655e-14	1.000000
rad6	9.03119e-15	1.000000	9.03233e-15	1.000000
rad1	3.60949e-15	1.000000	3.60994e-15	1.000000
rad8	2.53541e-15	1.000000	2.53574e-15	1.000000
rad36	2.22963e-15	1.000000	2.22991e-15	1.000000
rad21	2.06285e-15	1.000000	2.06311e-15	1.000000
rad13	1.26214e-15	1.000000	1.26230e-15	1.000000
rad19syn	1.13955e-15	1.000000	1.13970e-15	1.000000
rad11	9.76554e-16	1.000000	9.76674e-16	1.000000
rad20	5.30463e-16	1.000000	5.30530e-16	1.000000
rad10	4.38021e-16	1.000000	4.38076e-16	1.000000
rad33	1.49700e-16	1.000000	1.49719e-16	1.000000
rad24	1.18501e-16	1.000000	1.18516e-16	1.000000
rad3	1.07566e-16	1.000000	1.07579e-16	1.000000
rad4	8.79709e-17	1.000000	8.79824e-17	1.000000
rad7	7.29859e-17	1.000000	7.29951e-17	1.000000
rad25	2.92600e-17	1.000000	2.92638e-17	1.000000
rad18	1.64178e-17	1.000000	1.64198e-17	1.000000
rad27	1.52387e-17	1.000000	1.52406e-17	1.000000
rad26	7.07252e-18	1.000000	7.07342e-18	1.000000
rad22	3.03747e-18	1.000000	3.03785e-18	1.000000
rad31	2.55729e-18	1.000000	2.55762e-18	1.000000
rad28	1.55165e-18	1.000000	1.55185e-18	1.000000
rad14	1.32735e-18	1.000000	1.32751e-18	1.000000
rad47	1.43379e-19	1.000000	1.43397e-19	1.000000
rad5	6.16013e-24	1.000000	6.16091e-24	1.000000

0.100000000E-03 Pa, 1300.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.84401e-12 (1.00)	4.84262e-12 (1.00)
Formation of rad19	3.55537e-12 (0.734)	3.55411e-12 (0.734)
H-abstraction to cyc2enyl	9.48893e-13 (0.196)	9.48893e-13 (0.196)
H-abstraction to cyclenyl	3.39740e-13 (0.0701)	3.39620e-13 (0.0701)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.627161	0.627161	0.627340	0.627340
Benzene+cycloprop-2-enylidene	0.195890	0.823052	0.195946	0.823286
PhCHCCH2+H	0.0908777	0.913929	0.0909037	0.914190
Benzene+cycloprop-1-enylidene	0.0701362	0.984065	0.0701313	0.984321
Ph+MeAc	0.00304441	0.987110	0.00304527	0.987366
C2H2+PhCH2	0.00290372	0.990014	0.00290454	0.990271
Ph+Allene	0.00288470	0.992898	0.00288553	0.993157
PhCH2CCH+H	0.00165448	0.994553	0.00165495	0.994812
PhCCCH3+H	0.00130153	0.995854	0.00130190	0.996113
rad67	0.00110883	0.996963	0.00110915	0.997223
PhCCH+CH3	0.000809514	0.997773	0.000809751	0.998032
PhcycC3H3_A+H	0.000673391	0.998446	0.000673584	0.998706
PhcycC3H3_B+H	0.000561394	0.999007	0.000561554	0.999267
rad35	0.000398725	0.999406	0.000398838	0.999666
Phenyl+cycC3H4	0.000260506	0.999667	0.000000	0.999666
PAH10+CH3	8.38007e-05	0.999750	8.38250e-05	0.999750
PAH7+H	7.89117e-05	0.999829	7.89341e-05	0.999829
rad37	7.83568e-05	0.999908	7.83785e-05	0.999907
PAH9+H	2.08511e-05	0.999929	2.08571e-05	0.999928
rad38	1.88167e-05	0.999947	1.88221e-05	0.999947
rad30	1.49360e-05	0.999962	1.49402e-05	0.999962
rad39	1.33374e-05	0.999976	1.33412e-05	0.999975
PAH3+H	1.25732e-05	0.999988	1.25768e-05	0.999988
rad46	2.73965e-06	0.999991	2.74043e-06	0.999991
rad50	1.75696e-06	0.999993	1.75746e-06	0.999992
rad59	1.29584e-06	0.999994	1.29620e-06	0.999994

rad60syn	1.24692e-06	0.999995	1.24728e-06	0.999995
rad54	1.23055e-06	0.999996	1.23091e-06	0.999996
PAH1+H	1.18164e-06	0.999998	1.18197e-06	0.999997
rad60anti	7.66599e-07	0.999998	7.66824e-07	0.999998
rad43	4.10006e-07	0.999999	4.10123e-07	0.999999
rad51	3.87406e-07	0.999999	3.87517e-07	0.999999
rad70	3.43677e-07	1.000000	3.43775e-07	0.999999
rad52	1.33628e-07	1.000000	1.33666e-07	0.999999
rad58	9.48433e-08	1.000000	9.48705e-08	1.000000
rad55	8.22139e-08	1.000000	8.22375e-08	1.000000
rad34	7.56235e-08	1.000000	7.56447e-08	1.000000
rad61	7.45086e-08	1.000000	7.45298e-08	1.000000
rad62	3.23565e-08	1.000000	3.23657e-08	1.000000
rad41	2.13212e-08	1.000000	2.13273e-08	1.000000
rad53	1.49188e-08	1.000000	1.49231e-08	1.000000
rad56	1.23746e-08	1.000000	1.23782e-08	1.000000
rad65	1.15036e-08	1.000000	1.15069e-08	1.000000
PAH8+H	1.11832e-08	1.000000	1.11864e-08	1.000000
rad64	5.02551e-09	1.000000	5.02694e-09	1.000000
rad71	4.76253e-09	1.000000	4.76389e-09	1.000000
rad73	4.36514e-09	1.000000	4.36638e-09	1.000000
rad68syn	3.35945e-09	1.000000	3.36041e-09	1.000000
rad68anti	2.20311e-09	1.000000	2.20373e-09	1.000000
rad40syn	2.06131e-09	1.000000	2.06190e-09	1.000000
rad42	1.87919e-09	1.000000	1.87972e-09	1.000000
rad40anti	1.60444e-09	1.000000	1.60490e-09	1.000000
rad9	1.99152e-10	1.000000	1.99209e-10	1.000000
rad72	9.34613e-11	1.000000	9.34878e-11	1.000000
rad12	5.89853e-13	1.000000	5.90021e-13	1.000000
rad15	1.21929e-13	1.000000	1.21964e-13	1.000000
rad23	5.69796e-14	1.000000	5.69959e-14	1.000000
rad45	2.03484e-14	1.000000	2.03542e-14	1.000000
rad19anti	1.48394e-14	1.000000	1.48436e-14	1.000000
rad6	1.00718e-14	1.000000	1.00747e-14	1.000000
rad2	9.22495e-15	1.000000	9.22761e-15	1.000000
rad11	5.71015e-15	1.000000	5.71177e-15	1.000000
rad8	4.42248e-15	1.000000	4.42375e-15	1.000000
rad21	3.03536e-15	1.000000	3.03622e-15	1.000000
rad1	2.70505e-15	1.000000	2.70582e-15	1.000000
rad13	2.24564e-15	1.000000	2.24628e-15	1.000000
rad36	2.11456e-15	1.000000	2.11516e-15	1.000000
rad19syn	1.00706e-15	1.000000	1.00735e-15	1.000000
rad7	8.25001e-16	1.000000	8.25237e-16	1.000000
rad10	8.19357e-16	1.000000	8.19593e-16	1.000000
rad20	7.38172e-16	1.000000	7.38377e-16	1.000000
rad33	1.76734e-16	1.000000	1.76784e-16	1.000000
rad18	1.53538e-16	1.000000	1.53582e-16	1.000000
rad24	1.53474e-16	1.000000	1.53518e-16	1.000000
rad3	7.57696e-17	1.000000	7.57915e-17	1.000000
rad4	6.16570e-17	1.000000	6.16746e-17	1.000000
rad25	5.66799e-17	1.000000	5.66960e-17	1.000000
rad27	2.70871e-17	1.000000	2.70948e-17	1.000000
rad26	6.88245e-18	1.000000	6.88441e-18	1.000000
rad22	2.95767e-18	1.000000	2.95852e-18	1.000000
rad31	2.62744e-18	1.000000	2.62819e-18	1.000000
rad14	2.40837e-18	1.000000	2.40906e-18	1.000000
rad28	1.44752e-18	1.000000	1.44793e-18	1.000000
rad47	3.40948e-19	1.000000	3.41046e-19	1.000000
rad5	3.04617e-22	1.000000	3.04705e-22	1.000000

0.100000000E-03 Pa, 1400.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.19360e-12 (1.00)	6.18997e-12 (1.00)
Formation of rad19	4.34185e-12 (0.701)	4.33861e-12 (0.701)
H-abstraction to cyc2enyl	1.32990e-12 (0.215)	1.32990e-12 (0.215)
H-abstraction to cyclenyl	5.21850e-13 (0.0843)	5.21461e-13 (0.0842)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.566028	0.566028	0.566360	0.566360
Benzene+cycloprop-2-enylidene	0.214721	0.780749	0.214847	0.781207
PhCHCCH2+H	0.113526	0.894275	0.113593	0.894800
Benzene+cycloprop-1-enylidene	0.0842564	0.978532	0.0842429	0.979043
Ph+MeAc	0.00387284	0.982405	0.00387511	0.982918
Ph+Allene	0.00376036	0.986165	0.00376256	0.986680
C2H2+PhCH2	0.00367929	0.989844	0.00368145	0.990362
PhCH2CCH+H	0.00231297	0.992157	0.00231433	0.992676
PhCCCH3+H	0.00159640	0.993754	0.00159734	0.994274

rad67	0.00144409	0.995198	0.00144494	0.995719
PhcycC3H3_A+H	0.00120489	0.996403	0.00120559	0.996924
PhcycC3H3_B+H	0.00109183	0.997495	0.00109247	0.998017
PhCCH+CH3	0.000988680	0.998483	0.000989264	0.999006
Phenyl+cycC3H4	0.000523345	0.999007	0.000000	0.999006
rad35	0.000519418	0.999526	0.000519722	0.999526
PAH10+CH3	0.000132940	0.999659	0.000133019	0.999659
rad37	0.000103969	0.999763	0.000104030	0.999763
PAH7+H	9.76629e-05	0.999861	9.77202e-05	0.999860
PAH9+H	3.30451e-05	0.999894	3.30646e-05	0.999893
rad38	2.89869e-05	0.999923	2.90039e-05	0.999922
PAH3+H	2.09773e-05	0.999944	2.09896e-05	0.999943
rad30	2.03484e-05	0.999964	2.03603e-05	0.999964
rad39	1.60326e-05	0.999980	1.60420e-05	0.999980
rad46	4.60489e-06	0.999985	4.60759e-06	0.999984
rad50	3.39256e-06	0.999988	3.39455e-06	0.999988
rad59	2.10237e-06	0.999990	2.10360e-06	0.999990
PAH1+H	2.05214e-06	0.999992	2.05334e-06	0.999992
rad60syn	1.88965e-06	0.999994	1.89076e-06	0.999994
rad54	1.78086e-06	0.999996	1.78190e-06	0.999996
rad60anti	1.16973e-06	0.999997	1.17042e-06	0.999997
rad51	8.27129e-07	0.999998	8.27613e-07	0.999998
rad43	6.31782e-07	0.999998	6.32153e-07	0.999998
rad70	5.60217e-07	0.999999	5.60546e-07	0.999999
rad52	2.70713e-07	0.999999	2.70872e-07	0.999999
rad58	1.78428e-07	0.999999	1.78532e-07	0.999999
rad61	1.46277e-07	1.000000	1.46363e-07	0.999999
rad34	1.30056e-07	1.000000	1.30132e-07	1.000000
rad55	1.23571e-07	1.000000	1.23644e-07	1.000000
rad62	4.61529e-08	1.000000	4.61799e-08	1.000000
rad41	3.74002e-08	1.000000	3.74221e-08	1.000000
PAH8+H	2.63148e-08	1.000000	2.63303e-08	1.000000
rad53	2.60384e-08	1.000000	2.60537e-08	1.000000
rad65	2.42340e-08	1.000000	2.42482e-08	1.000000
rad56	2.33522e-08	1.000000	2.33659e-08	1.000000
rad71	1.41523e-08	1.000000	1.41606e-08	1.000000
rad73	1.20322e-08	1.000000	1.20393e-08	1.000000
rad64	8.79755e-09	1.000000	8.80273e-09	1.000000
rad68syn	6.90097e-09	1.000000	6.90502e-09	1.000000
rad40syn	4.57744e-09	1.000000	4.58013e-09	1.000000
rad68anti	4.51464e-09	1.000000	4.51729e-09	1.000000
rad40anti	3.59045e-09	1.000000	3.59256e-09	1.000000
rad42	3.00666e-09	1.000000	3.00843e-09	1.000000
rad72	3.28506e-10	1.000000	3.28699e-10	1.000000
rad9	1.26985e-10	1.000000	1.27060e-10	1.000000
rad12	4.68957e-13	1.000000	4.69231e-13	1.000000
rad15	3.78239e-13	1.000000	3.78461e-13	1.000000
rad23	5.17376e-14	1.000000	5.17679e-14	1.000000
rad45	1.88206e-14	1.000000	1.88317e-14	1.000000
rad11	1.45009e-14	1.000000	1.45094e-14	1.000000
rad6	1.28439e-14	1.000000	1.28515e-14	1.000000
rad19anti	1.15118e-14	1.000000	1.15186e-14	1.000000
rad2	6.82571e-15	1.000000	6.82971e-15	1.000000
rad8	5.66687e-15	1.000000	5.67019e-15	1.000000
rad21	3.67060e-15	1.000000	3.67275e-15	1.000000
rad7	3.49064e-15	1.000000	3.49268e-15	1.000000
rad13	2.61027e-15	1.000000	2.61180e-15	1.000000
rad10	2.56609e-15	1.000000	2.56759e-15	1.000000
rad1	2.02167e-15	1.000000	2.02286e-15	1.000000
rad36	1.96678e-15	1.000000	1.96794e-15	1.000000
rad19syn	8.90593e-16	1.000000	8.91116e-16	1.000000
rad20	8.28826e-16	1.000000	8.29317e-16	1.000000
rad18	5.37840e-16	1.000000	5.38155e-16	1.000000
rad24	1.80313e-16	1.000000	1.80420e-16	1.000000
rad33	1.72625e-16	1.000000	1.72727e-16	1.000000
rad25	7.72646e-17	1.000000	7.73097e-17	1.000000
rad3	5.33072e-17	1.000000	5.33385e-17	1.000000
rad4	4.31031e-17	1.000000	4.31283e-17	1.000000
rad27	3.50745e-17	1.000000	3.50950e-17	1.000000
rad26	2.88103e-17	1.000000	2.88272e-17	1.000000
rad14	3.02575e-18	1.000000	3.02752e-18	1.000000
rad22	2.83270e-18	1.000000	2.83436e-18	1.000000
rad31	2.62635e-18	1.000000	2.62789e-18	1.000000
rad28	1.83595e-18	1.000000	1.83702e-18	1.000000
rad47	7.15113e-19	1.000000	7.15531e-19	1.000000
rad5	1.24532e-20	1.000000	1.24604e-20	1.000000

0.100000000E-03 Pa, 1500.00000 K

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Rate constant | True (fraction) Effective (fraction)

Total	7.80417e-12 (1.00)	7.79561e-12 (1.00)
Formation of rad19	5.22661e-12 (0.670)	5.21915e-12 (0.669)
H-abstraction to cyc2enyl	1.80920e-12 (0.232)	1.80920e-12 (0.232)
H-abstraction to cyclenyl	7.68359e-13 (0.0985)	7.67262e-13 (0.0984)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.505870	0.505870	0.506425	0.506425
Benzene+cycloprop-2-enylidene	0.231825	0.737695	0.232079	0.738505
PhCHCCH2+H	0.135967	0.873662	0.136116	0.874621
Benzene+cycloprop-1-enylidene	0.0984549	0.972117	0.0984223	0.973043
Ph+MeAc	0.00470570	0.976823	0.00471086	0.977754
Ph+Allene	0.00464760	0.981470	0.00465271	0.982407
C2H2+PhCH2	0.00447301	0.985943	0.00447791	0.986885
PhCH2CCH+H	0.00304819	0.988991	0.00305154	0.989936
PhcycC3H3_A+H	0.00198976	0.990981	0.00199195	0.991928
PhcycC3H3_B+H	0.00193280	0.992914	0.00193492	0.993863
PhCCCH3+H	0.00187667	0.994791	0.00187873	0.995742
rad67	0.00179097	0.996582	0.00179294	0.997535
PhCCH+CH3	0.00117783	0.997759	0.00117912	0.998714
Phenyl+cycC3H4	0.000956146	0.998716	0.000000	0.998714
rad35	0.000644848	0.999360	0.000645555	0.999360
PAH10+CH3	0.000194190	0.999555	0.000194404	0.999554
rad37	0.000129806	0.999684	0.000129949	0.999684
PAH7+H	0.000116417	0.999801	0.000116546	0.999800
PAH9+H	4.88535e-05	0.999850	4.89071e-05	0.999849
rad38	4.16011e-05	0.999891	4.16467e-05	0.999891
PAH3+H	3.23374e-05	0.999924	3.23729e-05	0.999923
rad30	2.62808e-05	0.999950	2.63097e-05	0.999950
rad39	1.87895e-05	0.999969	1.88102e-05	0.999968
rad46	7.16199e-06	0.999976	7.16986e-06	0.999976
rad50	5.93797e-06	0.999982	5.94449e-06	0.999982
PAH1+H	3.25722e-06	0.999985	3.26081e-06	0.999985
rad59	3.16156e-06	0.999988	3.16503e-06	0.999988
rad60syn	2.67968e-06	0.999991	2.68262e-06	0.999991
rad54	2.39838e-06	0.999993	2.40102e-06	0.999993
rad60anti	1.66867e-06	0.999995	1.67050e-06	0.999995
rad51	1.57342e-06	0.999996	1.57515e-06	0.999996
rad43	9.05576e-07	0.999997	9.06568e-07	0.999997
rad70	8.42763e-07	0.999998	8.43688e-07	0.999998
rad52	4.92950e-07	0.999999	4.93491e-07	0.999999
rad58	3.04448e-07	0.999999	3.04782e-07	0.999999
rad61	2.56145e-07	0.999999	2.56426e-07	0.999999
rad34	2.04934e-07	1.000000	2.05159e-07	0.999999
rad55	1.72012e-07	1.000000	1.72201e-07	1.000000
rad62	6.20586e-08	1.000000	6.21267e-08	1.000000
rad41	5.99063e-08	1.000000	5.99721e-08	1.000000
PAH8+H	5.38671e-08	1.000000	5.39262e-08	1.000000
rad65	4.55485e-08	1.000000	4.55985e-08	1.000000
rad53	4.12866e-08	1.000000	4.13319e-08	1.000000
rad56	3.95671e-08	1.000000	3.96105e-08	1.000000
rad71	3.49994e-08	1.000000	3.50378e-08	1.000000
rad73	2.80690e-08	1.000000	2.80998e-08	1.000000
rad64	1.41255e-08	1.000000	1.41409e-08	1.000000
rad68syn	1.26336e-08	1.000000	1.26475e-08	1.000000
rad40syn	8.93581e-09	1.000000	8.94564e-09	1.000000
rad68anti	8.24821e-09	1.000000	8.25726e-09	1.000000
rad40anti	7.05383e-09	1.000000	7.06153e-09	1.000000
rad42	4.46777e-09	1.000000	4.47268e-09	1.000000
rad72	9.20557e-10	1.000000	9.21571e-10	1.000000
rad9	8.02700e-11	1.000000	8.03579e-11	1.000000
rad15	7.55377e-13	1.000000	7.56205e-13	1.000000
rad12	3.66370e-13	1.000000	3.66772e-13	1.000000
rad23	4.64924e-14	1.000000	4.65435e-14	1.000000
rad11	2.20689e-14	1.000000	2.20931e-14	1.000000
rad45	1.71049e-14	1.000000	1.71236e-14	1.000000
rad6	1.64953e-14	1.000000	1.65134e-14	1.000000
rad19anti	9.04718e-15	1.000000	9.05717e-15	1.000000
rad7	7.04586e-15	1.000000	7.05357e-15	1.000000
rad8	6.24614e-15	1.000000	6.25299e-15	1.000000
rad10	5.42481e-15	1.000000	5.43077e-15	1.000000
rad2	5.04028e-15	1.000000	5.04581e-15	1.000000
rad21	3.97611e-15	1.000000	3.98048e-15	1.000000
rad13	2.43540e-15	1.000000	2.43807e-15	1.000000
rad36	1.79921e-15	1.000000	1.80118e-15	1.000000
rad1	1.51267e-15	1.000000	1.51433e-15	1.000000
rad18	1.01393e-15	1.000000	1.01504e-15	1.000000
rad20	8.29636e-16	1.000000	8.30546e-16	1.000000
rad19syn	7.89908e-16	1.000000	7.90771e-16	1.000000

rad26	2.66364e-16	1.00000	2.66657e-16	1.000000
rad24	1.99082e-16	1.00000	1.99301e-16	1.000000
rad33	1.52243e-16	1.00000	1.52410e-16	1.000000
rad25	8.67515e-17	1.00000	8.68467e-17	1.000000
rad27	3.81185e-17	1.00000	3.81603e-17	1.000000
rad3	3.76248e-17	1.00000	3.76662e-17	1.000000
rad4	3.01664e-17	1.00000	3.01995e-17	1.000000
rad28	6.13834e-18	1.00000	6.14508e-18	1.000000
rad22	5.52827e-18	1.00000	5.53433e-18	1.000000
rad14	3.12706e-18	1.00000	3.13049e-18	1.000000
rad31	2.56266e-18	1.00000	2.56547e-18	1.000000
rad47	1.33181e-18	1.00000	1.33327e-18	1.000000
rad5	3.07686e-19	1.00000	3.08024e-19	1.000000

0.1000000000E-04 Pa, 20.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.24541e-22 (1.00)	1.24541e-22 (1.00)
Formation of rad19	1.24541e-22 (1.00)	1.24541e-22 (1.00)
H-abstraction to cyc2enyl	3.84323e-68 (3.09e-46)	3.84323e-68 (3.09e-46)
H-abstraction to cyclenyl	6.26313e-106 (5.03e-84)	6.26313e-106 (5.03e-84)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999772	0.999772	0.999772	0.999772
PhCHCCH2+H	0.000217190	0.999989	0.000217190	0.999989
PhCCH+CH3	3.74992e-06	0.999993	3.74992e-06	0.999993
C2H2+PhCH2	2.66076e-06	0.999996	2.66076e-06	0.999996
PhCCCH3+H	2.10744e-06	0.999998	2.10744e-06	0.999998
Ph+MeAc	1.55534e-06	0.999999	1.55534e-06	0.999999
rad67	4.72016e-07	1.000000	4.72016e-07	1.000000
rad35	2.09059e-07	1.000000	2.09059e-07	1.000000
Ph+Allene	1.34634e-07	1.000000	1.34634e-07	1.000000
PAH7+H	1.78367e-08	1.000000	1.78367e-08	1.000000
PhCH2CCH+H	1.63588e-08	1.000000	1.63588e-08	1.000000
rad39	5.03001e-09	1.000000	5.03001e-09	1.000000
rad37	4.62671e-09	1.000000	4.62671e-09	1.000000
rad30	3.90780e-09	1.000000	3.90780e-09	1.000000
PAH9+H	2.53956e-10	1.000000	2.53956e-10	1.000000
rad38	1.06936e-10	1.000000	1.06936e-10	1.000000
rad60syn	1.69319e-11	1.000000	1.69319e-11	1.000000
rad60anti	8.26556e-12	1.000000	8.26556e-12	1.000000
PAH3+H	6.72151e-12	1.000000	6.72151e-12	1.000000
rad46	6.42583e-12	1.000000	6.42583e-12	1.000000
PAH10+CH3	5.52877e-12	1.000000	5.52877e-12	1.000000
rad59	1.39467e-12	1.000000	1.39467e-12	1.000000
PhcycC3H3_A+H	4.13677e-13	1.000000	4.13677e-13	1.000000
rad43	2.58808e-13	1.000000	2.58808e-13	1.000000
rad54	2.05769e-13	1.000000	2.05769e-13	1.000000
rad62	5.54294e-14	1.000000	5.54294e-14	1.000000
rad50	4.23296e-14	1.000000	4.23296e-14	1.000000
rad70	3.14334e-15	1.000000	3.14334e-15	1.000000
rad55	1.37798e-15	1.000000	1.37798e-15	1.000000
PAH1+H	5.58548e-16	1.000000	5.58548e-16	1.000000
rad52	2.67799e-16	1.000000	2.67799e-16	1.000000
rad58	7.50226e-17	1.000000	7.50226e-17	1.000000
rad51	6.49646e-17	1.000000	6.49646e-17	1.000000
rad34	2.91017e-17	1.000000	2.91017e-17	1.000000
Phenyl+cycC3H4	2.77347e-17	1.000000	0.000000	1.000000
rad42	3.04817e-18	1.000000	3.04817e-18	1.000000
rad41	2.76402e-18	1.000000	2.76402e-18	1.000000
rad65	1.27704e-18	1.000000	1.27704e-18	1.000000
rad6	5.15385e-24	1.000000	5.15385e-24	1.000000
rad28	7.50099e-27	1.000000	7.50099e-27	1.000000
rad2	2.22351e-27	1.000000	2.22351e-27	1.000000
rad26	1.34938e-27	1.000000	1.34938e-27	1.000000
rad7	3.73471e-28	1.000000	3.73471e-28	1.000000
PhcycC3H3_B+H	2.48353e-28	1.000000	2.48353e-28	1.000000
rad1	1.40452e-28	1.000000	1.40452e-28	1.000000
rad10	1.12371e-28	1.000000	1.12371e-28	1.000000
rad11	9.17352e-29	1.000000	9.17352e-29	1.000000
rad3	1.40018e-29	1.000000	1.40018e-29	1.000000
rad53	1.11931e-29	1.000000	1.11931e-29	1.000000
rad4	7.07196e-30	1.000000	7.07196e-30	1.000000
rad47	5.36387e-30	1.000000	5.36387e-30	1.000000
rad13	2.05342e-30	1.000000	2.05342e-30	1.000000
rad64	4.89604e-32	1.000000	4.89604e-32	1.000000
rad9	2.96922e-32	1.000000	2.96922e-32	1.000000
rad14	4.91474e-33	1.000000	4.91474e-33	1.000000

rad33	3.85601e-33	1.00000	3.85601e-33	1.00000
rad25	2.73417e-33	1.00000	2.73417e-33	1.00000
rad27	1.74240e-33	1.00000	1.74240e-33	1.00000
rad19anti	1.76088e-34	1.00000	1.76088e-34	1.00000
rad5	6.34327e-35	1.00000	6.34327e-35	1.00000
rad15	1.28352e-35	1.00000	1.28352e-35	1.00000
rad31	5.12630e-38	1.00000	5.12630e-38	1.00000
rad23	2.36360e-38	1.00000	2.36360e-38	1.00000
rad20	9.24589e-39	1.00000	9.24589e-39	1.00000
rad21	6.80764e-39	1.00000	6.80764e-39	1.00000
rad61	5.03074e-39	1.00000	5.03074e-39	1.00000
rad45	1.67257e-40	1.00000	1.67257e-40	1.00000
rad12	1.39743e-40	1.00000	1.39743e-40	1.00000
rad22	8.02245e-41	1.00000	8.02245e-41	1.00000
rad18	3.86683e-41	1.00000	3.86683e-41	1.00000
rad56	3.37504e-41	1.00000	3.37504e-41	1.00000
rad36	1.02585e-41	1.00000	1.02585e-41	1.00000
rad68syn	2.54460e-43	1.00000	2.54460e-43	1.00000
rad68anti	2.17772e-43	1.00000	2.17772e-43	1.00000
rad19syn	1.37416e-44	1.00000	1.37416e-44	1.00000
Benzene+cycloprop-2-enylidene	3.08591e-46	1.00000	3.08591e-46	1.00000
rad24	2.79668e-46	1.00000	2.79668e-46	1.00000
rad73	2.07377e-51	1.00000	2.07377e-51	1.00000
rad40syn	2.93617e-52	1.00000	2.93617e-52	1.00000
rad40anti	2.41965e-52	1.00000	2.41965e-52	1.00000
PAH8+H	1.12169e-56	1.00000	1.12169e-56	1.00000
rad71	3.50046e-60	1.00000	3.50046e-60	1.00000
rad8	2.40375e-64	1.00000	2.40375e-64	1.00000
Benzene+cycloprop-1-enylidene	5.02895e-84	1.00000	5.02895e-84	1.00000

0.100000000E-04 Pa, 30.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.13009e-20 (1.00)	8.13009e-20 (1.00)
Formation of rad19	8.13009e-20 (1.00)	8.13009e-20 (1.00)
H-abstraction to cyc2enyl	1.08880e-49 (1.34e-30)	1.08880e-49 (1.34e-30)
H-abstraction to cyclenyl	7.55172e-75 (9.29e-56)	7.55172e-75 (9.29e-56)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999770	0.999770	0.999770	0.999770
PhCHCCH2+H	0.000218740	0.999989	0.000218740	0.999989
PhCCH+CH3	3.77922e-06	0.999993	3.77922e-06	0.999993
C2H2+PhCH2	2.68543e-06	0.999995	2.68543e-06	0.999995
PhCCCH3+H	2.12543e-06	0.999997	2.12543e-06	0.999997
Ph+MeAc	1.57151e-06	0.999999	1.57151e-06	0.999999
rad67	4.76660e-07	0.999999	4.76660e-07	0.999999
rad35	2.11031e-07	1.000000	2.11031e-07	1.000000
Ph+Allene	1.36496e-07	1.000000	1.36496e-07	1.000000
PAH7+H	1.80487e-08	1.000000	1.80487e-08	1.000000
PhCH2CCH+H	1.66211e-08	1.000000	1.66211e-08	1.000000
rad39	5.08999e-09	1.000000	5.08999e-09	1.000000
rad37	4.68501e-09	1.000000	4.68501e-09	1.000000
rad30	3.94538e-09	1.000000	3.94538e-09	1.000000
PAH9+H	2.57106e-10	1.000000	2.57106e-10	1.000000
rad38	1.08383e-10	1.000000	1.08383e-10	1.000000
rad60syn	1.71588e-11	1.000000	1.71588e-11	1.000000
rad60anti	8.37912e-12	1.000000	8.37912e-12	1.000000
PAH3+H	6.84324e-12	1.000000	6.84324e-12	1.000000
rad46	6.51954e-12	1.000000	6.51954e-12	1.000000
PAH10+CH3	5.67119e-12	1.000000	5.67119e-12	1.000000
rad59	1.41896e-12	1.000000	1.41896e-12	1.000000
PhcycC3H3_A+H	4.42422e-13	1.000000	4.42422e-13	1.000000
rad43	2.64742e-13	1.000000	2.64742e-13	1.000000
rad54	2.10995e-13	1.000000	2.10995e-13	1.000000
rad62	5.67499e-14	1.000000	5.67499e-14	1.000000
rad50	4.32251e-14	1.000000	4.32251e-14	1.000000
rad70	3.24808e-15	1.000000	3.24808e-15	1.000000
rad55	1.42497e-15	1.000000	1.42497e-15	1.000000
PAH1+H	5.84832e-16	1.000000	5.84832e-16	1.000000
rad52	2.74812e-16	1.000000	2.74812e-16	1.000000
rad58	7.77929e-17	1.000000	7.77929e-17	1.000000
rad51	6.70661e-17	1.000000	6.70661e-17	1.000000
Phenyl+cycC3H4	5.25631e-17	1.000000	0.000000	1.000000
rad34	3.05727e-17	1.000000	3.05727e-17	1.000000
rad42	3.20845e-18	1.000000	3.20845e-18	1.000000
rad41	2.96186e-18	1.000000	2.96186e-18	1.000000
rad65	1.32246e-18	1.000000	1.32246e-18	1.000000
rad6	3.92446e-25	1.000000	3.92446e-25	1.000000

rad28	7.66479e-28	1.000000	7.66479e-28	1.000000
PhcycC3H3_B+H	2.28819e-28	1.000000	2.28819e-28	1.000000
rad26	2.00057e-28	1.000000	2.00057e-28	1.000000
rad2	1.60556e-28	1.000000	1.60556e-28	1.000000
rad7	2.83760e-29	1.000000	2.83760e-29	1.000000
rad1	1.01472e-29	1.000000	1.01472e-29	1.000000
rad53	8.31783e-30	1.000000	8.31783e-30	1.000000
rad10	8.14436e-30	1.000000	8.14436e-30	1.000000
rad11	6.95927e-30	1.000000	6.95927e-30	1.000000
rad47	2.66219e-30	1.000000	2.66219e-30	1.000000
Benzene+cycloprop-2-enylidene	1.33923e-30	1.000000	1.33923e-30	1.000000
rad3	1.01771e-30	1.000000	1.01771e-30	1.000000
rad4	5.14072e-31	1.000000	5.14072e-31	1.000000
rad13	1.56430e-31	1.000000	1.56430e-31	1.000000
rad64	3.66575e-32	1.000000	3.66575e-32	1.000000
rad9	3.48953e-33	1.000000	3.48953e-33	1.000000
rad14	1.37895e-33	1.000000	1.37895e-33	1.000000
rad25	6.72234e-34	1.000000	6.72234e-34	1.000000
rad33	2.93815e-34	1.000000	2.93815e-34	1.000000
rad27	2.27053e-34	1.000000	2.27053e-34	1.000000
rad19anti	9.43627e-35	1.000000	9.43627e-35	1.000000
rad5	1.49638e-35	1.000000	1.49638e-35	1.000000
rad15	1.50900e-36	1.000000	1.50900e-36	1.000000
rad31	8.62555e-39	1.000000	8.62555e-39	1.000000
rad61	3.99481e-39	1.000000	3.99481e-39	1.000000
rad20	7.37000e-40	1.000000	7.37000e-40	1.000000
rad21	5.44229e-40	1.000000	5.44229e-40	1.000000
rad23	4.58198e-40	1.000000	4.58198e-40	1.000000
rad56	2.62298e-41	1.000000	2.62298e-41	1.000000
rad12	1.65965e-41	1.000000	1.65965e-41	1.000000
rad18	3.26520e-42	1.000000	3.26520e-42	1.000000
rad45	3.10304e-42	1.000000	3.10304e-42	1.000000
rad22	2.94492e-42	1.000000	2.94492e-42	1.000000
rad68syn	1.99385e-43	1.000000	1.99385e-43	1.000000
rad36	1.90287e-43	1.000000	1.90287e-43	1.000000
rad68anti	1.70593e-43	1.000000	1.70593e-43	1.000000
rad19syn	8.38610e-45	1.000000	8.38610e-45	1.000000
rad24	5.39264e-47	1.000000	5.39264e-47	1.000000
rad73	1.67099e-51	1.000000	1.67099e-51	1.000000
rad40syn	2.57311e-52	1.000000	2.57311e-52	1.000000
rad40anti	2.12020e-52	1.000000	2.12020e-52	1.000000
Benzene+cycloprop-1-enylidene	9.28861e-56	1.000000	9.28861e-56	1.000000
PAH8+H	1.00641e-56	1.000000	1.00641e-56	1.000000
rad71	2.96688e-60	1.000000	2.96688e-60	1.000000
rad8	1.26717e-64	1.000000	1.26717e-64	1.000000

0.100000000E-04 Pa, 40.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.24819e-18 (1.00)	2.24819e-18 (1.00)
Formation of rad19	2.24819e-18 (1.00)	2.24819e-18 (1.00)
H-abstraction to cyc2enyl	1.72361e-40 (7.67e-23)	1.72361e-40 (7.67e-23)
H-abstraction to cyclenyl	2.48792e-59 (1.11e-41)	2.48792e-59 (1.11e-41)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999767	0.999767	0.999767	0.999767
PhCHCCH2+H	0.000221747	0.999989	0.000221747	0.999989
PhCCH+CH3	3.83604e-06	0.999993	3.83604e-06	0.999993
C2H2+PhCH2	2.73340e-06	0.999995	2.73340e-06	0.999995
PhCCCH3+H	2.16038e-06	0.999997	2.16038e-06	0.999997
Ph+MeAc	1.60299e-06	0.999999	1.60299e-06	0.999999
rad67	4.85697e-07	1.000000	4.85697e-07	1.000000
rad35	2.14867e-07	1.000000	2.14867e-07	1.000000
Ph+Allene	1.40137e-07	1.000000	1.40137e-07	1.000000
PAH7+H	1.84619e-08	1.000000	1.84619e-08	1.000000
PhCH2CCH+H	1.71354e-08	1.000000	1.71354e-08	1.000000
rad39	5.20693e-09	1.000000	5.20693e-09	1.000000
rad37	4.79888e-09	1.000000	4.79888e-09	1.000000
rad30	4.01853e-09	1.000000	4.01853e-09	1.000000
PAH9+H	2.63256e-10	1.000000	2.63256e-10	1.000000
rad38	1.11215e-10	1.000000	1.11215e-10	1.000000
rad60syn	1.76027e-11	1.000000	1.76027e-11	1.000000
rad60anti	8.60136e-12	1.000000	8.60136e-12	1.000000
PAH3+H	7.08282e-12	1.000000	7.08282e-12	1.000000
rad46	6.70306e-12	1.000000	6.70306e-12	1.000000
PAH10+CH3	5.95404e-12	1.000000	5.95404e-12	1.000000
rad59	1.46672e-12	1.000000	1.46672e-12	1.000000
PhcycC3H3_A+H	5.01394e-13	1.000000	5.01394e-13	1.000000

rad43	2.76480e-13	1.000000	2.76480e-13	1.000000
rad54	2.21359e-13	1.000000	2.21359e-13	1.000000
rad62	5.93632e-14	1.000000	5.93632e-14	1.000000
rad50	4.49937e-14	1.000000	4.49937e-14	1.000000
rad70	3.45803e-15	1.000000	3.45803e-15	1.000000
rad55	1.51892e-15	1.000000	1.51892e-15	1.000000
PAH1+H	6.38426e-16	1.000000	6.38426e-16	1.000000
rad52	2.88750e-16	1.000000	2.88750e-16	1.000000
Phenyl+cycC3H4	1.15738e-16	1.000000	0.000000	1.000000
rad58	8.33661e-17	1.000000	8.33661e-17	1.000000
rad51	7.12759e-17	1.000000	7.12759e-17	1.000000
rad34	3.35221e-17	1.000000	3.35221e-17	1.000000
rad42	3.55444e-18	1.000000	3.55444e-18	1.000000
rad41	3.38722e-18	1.000000	3.38722e-18	1.000000
rad65	1.41375e-18	1.000000	1.41375e-18	1.000000
Benzene+cycloprop-2-enylidene	7.66665e-23	1.000000	7.66665e-23	1.000000
PhcycC3H3_B+H	8.31575e-25	1.000000	8.31575e-25	1.000000
rad6	9.63259e-26	1.000000	9.63259e-26	1.000000
rad28	2.30175e-28	1.000000	2.30175e-28	1.000000
rad26	7.57308e-29	1.000000	7.57308e-29	1.000000
rad2	3.84468e-29	1.000000	3.84468e-29	1.000000
rad53	3.64261e-29	1.000000	3.64261e-29	1.000000
rad7	6.96419e-30	1.000000	6.96419e-30	1.000000
rad1	2.43257e-30	1.000000	2.43257e-30	1.000000
rad10	1.95573e-30	1.000000	1.95573e-30	1.000000
rad47	1.79775e-30	1.000000	1.79775e-30	1.000000
rad11	1.70712e-30	1.000000	1.70712e-30	1.000000
rad3	2.44680e-31	1.000000	2.44680e-31	1.000000
rad4	1.23623e-31	1.000000	1.23623e-31	1.000000
rad64	5.80910e-32	1.000000	5.80910e-32	1.000000
rad13	3.84334e-32	1.000000	3.84334e-32	1.000000
rad9	1.16047e-33	1.000000	1.16047e-33	1.000000
rad14	8.23242e-34	1.000000	8.23242e-34	1.000000
rad25	3.91429e-34	1.000000	3.91429e-34	1.000000
rad27	1.02129e-34	1.000000	1.02129e-34	1.000000
rad19anti	7.57619e-35	1.000000	7.57619e-35	1.000000
rad33	7.22178e-35	1.000000	7.22178e-35	1.000000
rad5	6.78085e-36	1.000000	6.78085e-36	1.000000
rad15	5.02146e-37	1.000000	5.02146e-37	1.000000
rad61	6.80096e-39	1.000000	6.80096e-39	1.000000
rad31	5.09192e-39	1.000000	5.09192e-39	1.000000
rad20	1.98153e-40	1.000000	1.98153e-40	1.000000
rad21	1.47155e-40	1.000000	1.47155e-40	1.000000
rad23	5.70991e-41	1.000000	5.70991e-41	1.000000
rad56	4.28948e-41	1.000000	4.28948e-41	1.000000
Benzene+cycloprop-1-enylidene	1.10663e-41	1.000000	1.10663e-41	1.000000
rad12	5.61498e-42	1.000000	5.61498e-42	1.000000
rad18	9.76167e-43	1.000000	9.76167e-43	1.000000
rad22	5.20647e-43	1.000000	5.20647e-43	1.000000
rad45	3.79150e-43	1.000000	3.79150e-43	1.000000
rad68syn	3.31825e-43	1.000000	3.31825e-43	1.000000
rad68anti	2.83751e-43	1.000000	2.83751e-43	1.000000
rad36	2.32426e-44	1.000000	2.32426e-44	1.000000
rad19syn	8.61360e-45	1.000000	8.61360e-45	1.000000
rad24	3.19683e-47	1.000000	3.19683e-47	1.000000
rad73	2.95566e-51	1.000000	2.95566e-51	1.000000
rad40syn	5.41775e-52	1.000000	5.41775e-52	1.000000
rad40anti	4.46237e-52	1.000000	4.46237e-52	1.000000
PAH8+H	2.23607e-56	1.000000	2.23607e-56	1.000000
rad71	5.87348e-60	1.000000	5.87348e-60	1.000000
rad8	9.75581e-65	1.000000	9.75581e-65	1.000000

0.100000000E-04 Pa, 50.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.72707e-17 (1.00)	1.72707e-17 (1.00)
Formation of rad19	1.72707e-17 (1.00)	1.72707e-17 (1.00)
H-abstraction to cyc2enyl	5.49905e-35 (3.18e-18)	5.49905e-35 (3.18e-18)
H-abstraction to cyclenyl	4.93090e-50 (2.86e-33)	4.93090e-50 (2.86e-33)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999763	0.999763	0.999763	0.999763
PhCHCCH2+H	0.000225658	0.999989	0.000225658	0.999989
PhCCH+CH3	3.90993e-06	0.999993	3.90993e-06	0.999993
C2H2+PhCH2	2.79605e-06	0.999995	2.79605e-06	0.999995
PhCCCH3+H	2.20592e-06	0.999998	2.20592e-06	0.999998
Ph+MeAc	1.64418e-06	0.999999	1.64418e-06	0.999999
rad67	4.97514e-07	1.000000	4.97514e-07	1.000000

rad35	2.19879e-07	1.000000	2.19879e-07	1.000000
Ph+Allene	1.44941e-07	1.000000	1.44941e-07	1.000000
PAH7+H	1.90047e-08	1.000000	1.90047e-08	1.000000
PhCH2CCH+H	1.78172e-08	1.000000	1.78172e-08	1.000000
rad39	5.36053e-09	1.000000	5.36053e-09	1.000000
rad37	4.94868e-09	1.000000	4.94868e-09	1.000000
rad30	4.11419e-09	1.000000	4.11419e-09	1.000000
PAH9+H	2.71351e-10	1.000000	2.71351e-10	1.000000
rad38	1.14953e-10	1.000000	1.14953e-10	1.000000
rad60syn	1.81880e-11	1.000000	1.81880e-11	1.000000
rad60anti	8.89465e-12	1.000000	8.89465e-12	1.000000
PAH3+H	7.40205e-12	1.000000	7.40205e-12	1.000000
rad46	6.94579e-12	1.000000	6.94579e-12	1.000000
PAH10+CH3	6.33664e-12	1.000000	6.33664e-12	1.000000
rad59	1.53025e-12	1.000000	1.53025e-12	1.000000
PhcycC3H3_A+H	5.85937e-13	1.000000	5.85937e-13	1.000000
rad43	2.92251e-13	1.000000	2.92251e-13	1.000000
rad54	2.35369e-13	1.000000	2.35369e-13	1.000000
rad62	6.28787e-14	1.000000	6.28787e-14	1.000000
rad50	4.73669e-14	1.000000	4.73669e-14	1.000000
rad70	3.74668e-15	1.000000	3.74668e-15	1.000000
rad55	1.64771e-15	1.000000	1.64771e-15	1.000000
PAH1+H	7.14014e-16	1.000000	7.14014e-16	1.000000
rad52	3.07651e-16	1.000000	3.07651e-16	1.000000
Phenyl+cycC3H4	2.36668e-16	1.000000	0.000000	1.000000
rad58	9.10704e-17	1.000000	9.10704e-17	1.000000
rad51	7.70594e-17	1.000000	7.70594e-17	1.000000
rad34	3.76197e-17	1.000000	3.76197e-17	1.000000
rad42	4.07392e-18	1.000000	4.07392e-18	1.000000
rad41	4.02390e-18	1.000000	4.02390e-18	1.000000
Benzene+cycloprop-2-enylidene	3.18404e-18	1.000000	3.18404e-18	1.000000
rad65	1.53992e-18	1.000000	1.53992e-18	1.000000
PhcycC3H3_B+H	2.98284e-22	1.000000	2.98284e-22	1.000000
rad6	3.67766e-26	1.000000	3.67766e-26	1.000000
rad53	8.16738e-27	1.000000	8.16738e-27	1.000000
rad28	1.02452e-28	1.000000	1.02452e-28	1.000000
rad26	3.96381e-29	1.000000	3.96381e-29	1.000000
rad2	1.44805e-29	1.000000	1.44805e-29	1.000000
rad64	5.92180e-30	1.000000	5.92180e-30	1.000000
rad7	2.66034e-30	1.000000	2.66034e-30	1.000000
rad47	1.37441e-30	1.000000	1.37441e-30	1.000000
rad1	9.17680e-31	1.000000	9.17680e-31	1.000000
rad10	7.38297e-31	1.000000	7.38297e-31	1.000000
rad11	6.52014e-31	1.000000	6.52014e-31	1.000000
rad3	9.24009e-32	1.000000	9.24009e-32	1.000000
rad4	4.67009e-32	1.000000	4.67009e-32	1.000000
rad13	1.46942e-32	1.000000	1.46942e-32	1.000000
Benzene+cycloprop-1-enylidene	2.85507e-33	1.000000	2.85507e-33	1.000000
rad14	5.97207e-34	1.000000	5.97207e-34	1.000000
rad9	5.83732e-34	1.000000	5.83732e-34	1.000000
rad25	2.83765e-34	1.000000	2.83765e-34	1.000000
rad19anti	7.56665e-35	1.000000	7.56665e-35	1.000000
rad27	6.66391e-35	1.000000	6.66391e-35	1.000000
rad33	2.76275e-35	1.000000	2.76275e-35	1.000000
rad5	3.94582e-36	1.000000	3.94582e-36	1.000000
rad15	2.52807e-37	1.000000	2.52807e-37	1.000000
rad61	1.95117e-38	1.000000	1.95117e-38	1.000000
rad31	4.38876e-39	1.000000	4.38876e-39	1.000000
rad56	1.18536e-40	1.000000	1.18536e-40	1.000000
rad20	8.65821e-41	1.000000	8.65821e-41	1.000000
rad21	6.48284e-41	1.000000	6.48284e-41	1.000000
rad23	1.45217e-41	1.000000	1.45217e-41	1.000000
rad12	2.89139e-42	1.000000	2.89139e-42	1.000000
rad68syn	9.39959e-43	1.000000	9.39959e-43	1.000000
rad68anti	8.03139e-43	1.000000	8.03139e-43	1.000000
rad18	4.81421e-43	1.000000	4.81421e-43	1.000000
rad22	1.66061e-43	1.000000	1.66061e-43	1.000000
rad45	9.53405e-44	1.000000	9.53405e-44	1.000000
rad19syn	1.15714e-44	1.000000	1.15714e-44	1.000000
rad36	5.84212e-45	1.000000	5.84212e-45	1.000000
rad24	2.57544e-47	1.000000	2.57544e-47	1.000000
rad73	9.15574e-51	1.000000	9.15574e-51	1.000000
rad40syn	2.11586e-51	1.000000	2.11586e-51	1.000000
rad40anti	1.74124e-51	1.000000	1.74124e-51	1.000000
PAH8+H	9.50953e-56	1.000000	9.50953e-56	1.000000
rad71	2.15969e-59	1.000000	2.15969e-59	1.000000
rad8	9.04698e-65	1.000000	9.04698e-65	1.000000

0.100000000E-04 Pa, 60.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.93738e-17 (1.00)	6.93738e-17 (1.00)
Formation of rad19	6.93738e-17 (1.000)	6.93738e-17 (1.000)
H-abstraction to cyc2enyl	2.50609e-31 (3.61e-15)	2.50609e-31 (3.61e-15)
H-abstraction to cyc1enyl	7.62015e-44 (1.10e-27)	7.62015e-44 (1.10e-27)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999758	0.999758	0.999758	0.999758
PhCHCCH2+H	0.000230121	0.999988	0.000230121	0.999988
PhCCH+CH3	3.99427e-06	0.999992	3.99427e-06	0.999992
C2H2+PhCH2	2.86797e-06	0.999995	2.86797e-06	0.999995
PhCCCH3+H	2.25806e-06	0.999997	2.25806e-06	0.999997
Ph+MeAc	1.69157e-06	0.999999	1.69157e-06	0.999999
rad67	5.11098e-07	0.999999	5.11098e-07	0.999999
rad35	2.25634e-07	1.000000	2.25634e-07	1.000000
Ph+Allene	1.50529e-07	1.000000	1.50529e-07	1.000000
PAH7+H	1.96326e-08	1.000000	1.96326e-08	1.000000
PhCH2CCH+H	1.86151e-08	1.000000	1.86151e-08	1.000000
rad39	5.53816e-09	1.000000	5.53816e-09	1.000000
rad37	5.12226e-09	1.000000	5.12226e-09	1.000000
rad30	4.22418e-09	1.000000	4.22418e-09	1.000000
PAH9+H	2.80738e-10	1.000000	2.80738e-10	1.000000
rad38	1.19305e-10	1.000000	1.19305e-10	1.000000
rad60syn	1.88685e-11	1.000000	1.88685e-11	1.000000
rad60anti	9.23591e-12	1.000000	9.23591e-12	1.000000
PAH3+H	7.77807e-12	1.000000	7.77807e-12	1.000000
rad46	7.22904e-12	1.000000	7.22904e-12	1.000000
PAH10+CH3	6.79612e-12	1.000000	6.79612e-12	1.000000
rad59	1.60493e-12	1.000000	1.60493e-12	1.000000
PhcycC3H3_A+H	6.95715e-13	1.000000	6.95715e-13	1.000000
rad43	3.11028e-13	1.000000	3.11028e-13	1.000000
rad54	2.52183e-13	1.000000	2.52183e-13	1.000000
rad62	6.70701e-14	1.000000	6.70701e-14	1.000000
rad50	5.01883e-14	1.000000	5.01883e-14	1.000000
rad70	4.10047e-15	1.000000	4.10047e-15	1.000000
Benzene+cycloprop-2-enylidene	3.61245e-15	1.000000	3.61245e-15	1.000000
rad55	1.80520e-15	1.000000	1.80520e-15	1.000000
PAH1+H	8.09558e-16	1.000000	8.09558e-16	1.000000
Phenyl+cycC3H4	4.45921e-16	1.000000	0.000000	1.000000
rad52	3.30430e-16	1.000000	3.30430e-16	1.000000
rad58	1.00588e-16	1.000000	1.00588e-16	1.000000
rad51	8.41459e-17	1.000000	8.41459e-17	1.000000
rad34	4.27620e-17	1.000000	4.27620e-17	1.000000
rad41	4.87029e-18	1.000000	4.87029e-18	1.000000
rad42	4.76389e-18	1.000000	4.76389e-18	1.000000
rad65	1.69574e-18	1.000000	1.69574e-18	1.000000
PhcycC3H3_B+H	1.47017e-20	1.000000	1.47017e-20	1.000000
rad53	3.73209e-25	1.000000	3.73209e-25	1.000000
rad6	1.77489e-26	1.000000	1.77489e-26	1.000000
Benzene+cycloprop-1-enylidene	1.09842e-27	1.000000	1.09842e-27	1.000000
rad64	9.22159e-28	1.000000	9.22159e-28	1.000000
rad28	5.59300e-29	1.000000	5.59300e-29	1.000000
rad26	2.44734e-29	1.000000	2.44734e-29	1.000000
rad2	6.94008e-30	1.000000	6.94008e-30	1.000000
rad7	1.28506e-30	1.000000	1.28506e-30	1.000000
rad47	1.12623e-30	1.000000	1.12623e-30	1.000000
rad1	4.40703e-31	1.000000	4.40703e-31	1.000000
rad10	3.54610e-31	1.000000	3.54610e-31	1.000000
rad11	3.14950e-31	1.000000	3.14950e-31	1.000000
rad3	4.43696e-32	1.000000	4.43696e-32	1.000000
rad4	2.24348e-32	1.000000	2.24348e-32	1.000000
rad13	7.10380e-33	1.000000	7.10380e-33	1.000000
rad14	4.75354e-34	1.000000	4.75354e-34	1.000000
rad9	3.69364e-34	1.000000	3.69364e-34	1.000000
rad25	2.27491e-34	1.000000	2.27491e-34	1.000000
rad19anti	8.80010e-35	1.000000	8.80010e-35	1.000000
rad27	5.09159e-35	1.000000	5.09159e-35	1.000000
rad61	4.85957e-35	1.000000	4.85957e-35	1.000000
rad33	1.33663e-35	1.000000	1.33663e-35	1.000000
rad5	2.62717e-36	1.000000	2.62717e-36	1.000000
rad15	1.60135e-37	1.000000	1.60135e-37	1.000000
rad31	4.55820e-39	1.000000	4.55820e-39	1.000000
rad56	6.11624e-40	1.000000	6.11624e-40	1.000000
rad20	4.97629e-41	1.000000	4.97629e-41	1.000000
rad21	3.76426e-41	1.000000	3.76426e-41	1.000000
rad23	5.44638e-42	1.000000	5.44638e-42	1.000000
rad68syn	4.98200e-42	1.000000	4.98200e-42	1.000000
rad68anti	4.25291e-42	1.000000	4.25291e-42	1.000000

rad12	1.88476e-42	1.000000	1.88476e-42	1.000000
rad18	3.09081e-43	1.000000	3.09081e-43	1.000000
rad22	7.23492e-44	1.000000	7.23492e-44	1.000000
rad45	3.54955e-44	1.000000	3.54955e-44	1.000000
rad19syn	1.80508e-44	1.000000	1.80508e-44	1.000000
rad36	2.17416e-45	1.000000	2.17416e-45	1.000000
rad24	2.39178e-47	1.000000	2.39178e-47	1.000000
rad73	5.37947e-50	1.000000	5.37947e-50	1.000000
rad40syn	1.54578e-50	1.000000	1.54578e-50	1.000000
rad40anti	1.27011e-50	1.000000	1.27011e-50	1.000000
PAH8+H	7.80419e-55	1.000000	7.80419e-55	1.000000
rad71	1.56473e-58	1.000000	1.56473e-58	1.000000
rad8	9.43560e-65	1.000000	9.43560e-65	1.000000

0.100000000E-04 Pa, 70.0000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	1.91520e-16 (1.00)	1.91520e-16 (1.00)		
Formation of rad19	1.91520e-16 (1.000)	1.91520e-16 (1.000)		
H-abstraction to cyc2enyl	1.01125e-28 (5.28e-13)	1.01125e-28 (5.28e-13)		
H-abstraction to cyclenyl	1.97822e-39 (1.03e-23)	1.97822e-39 (1.03e-23)		

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999753	0.999753	0.999753	0.999753
PhCHCCH2+H	0.000235006	0.999988	0.000235006	0.999988
PhCCH+CH3	4.08659e-06	0.999992	4.08659e-06	0.999992
C2H2+PhCH2	2.94722e-06	0.999995	2.94722e-06	0.999995
PhCCCH3+H	2.31532e-06	0.999997	2.31532e-06	0.999997
Ph+MeAc	1.74394e-06	0.999999	1.74394e-06	0.999999
rad67	5.26090e-07	1.000000	5.26090e-07	1.000000
rad35	2.31978e-07	1.000000	2.31978e-07	1.000000
Ph+Allene	1.56780e-07	1.000000	1.56780e-07	1.000000
PAH7+H	2.03304e-08	1.000000	2.03304e-08	1.000000
PhCH2CCH+H	1.95140e-08	1.000000	1.95140e-08	1.000000
rad39	5.73557e-09	1.000000	5.73557e-09	1.000000
rad37	5.31557e-09	1.000000	5.31557e-09	1.000000
rad30	4.34562e-09	1.000000	4.34562e-09	1.000000
PAH9+H	2.91201e-10	1.000000	2.91201e-10	1.000000
rad38	1.24178e-10	1.000000	1.24178e-10	1.000000
rad60syn	1.96290e-11	1.000000	1.96290e-11	1.000000
rad60anti	9.61776e-12	1.000000	9.61776e-12	1.000000
PAH3+H	8.20480e-12	1.000000	8.20480e-12	1.000000
rad46	7.54705e-12	1.000000	7.54705e-12	1.000000
PAH10+CH3	7.32915e-12	1.000000	7.32915e-12	1.000000
rad59	1.68948e-12	1.000000	1.68948e-12	1.000000
PhcycC3H3_A+H	8.34925e-13	1.000000	8.34925e-13	1.000000
Benzene+cycloprop-2-enylidene	5.28015e-13	1.000000	5.28015e-13	1.000000
rad43	3.32592e-13	1.000000	3.32592e-13	1.000000
rad54	2.71674e-13	1.000000	2.71674e-13	1.000000
rad62	7.18914e-14	1.000000	7.18914e-14	1.000000
rad50	5.34244e-14	1.000000	5.34244e-14	1.000000
rad70	4.52030e-15	1.000000	4.52030e-15	1.000000
rad55	1.99184e-15	1.000000	1.99184e-15	1.000000
PAH1+H	9.26891e-16	1.000000	9.26891e-16	1.000000
Phenyl+cycC3H4	7.87809e-16	1.000000	0.000000	1.000000
rad52	3.56970e-16	1.000000	3.56970e-16	1.000000
rad58	1.11992e-16	1.000000	1.11992e-16	1.000000
rad51	9.25585e-17	1.000000	9.25585e-17	1.000000
rad34	4.90697e-17	1.000000	4.90697e-17	1.000000
rad41	5.95425e-18	1.000000	5.95425e-18	1.000000
rad42	5.64284e-18	1.000000	5.64284e-18	1.000000
rad65	1.88238e-18	1.000000	1.88238e-18	1.000000
PhcycC3H3_B+H	2.38334e-19	1.000000	2.38334e-19	1.000000
Benzene+cycloprop-1-enylidene	1.03290e-23	1.000000	1.03290e-23	1.000000
rad53	5.56966e-24	1.000000	5.56966e-24	1.000000
rad64	3.39579e-26	1.000000	3.39579e-26	1.000000
rad6	9.90683e-27	1.000000	9.90683e-27	1.000000
rad28	3.45819e-29	1.000000	3.45819e-29	1.000000
rad26	1.67045e-29	1.000000	1.67045e-29	1.000000
rad2	3.86833e-30	1.000000	3.86833e-30	1.000000
rad47	9.65495e-31	1.000000	9.65495e-31	1.000000
rad7	7.18073e-31	1.000000	7.18073e-31	1.000000
rad1	2.46219e-31	1.000000	2.46219e-31	1.000000
rad10	1.98065e-31	1.000000	1.98065e-31	1.000000
rad11	1.76005e-31	1.000000	1.76005e-31	1.000000
rad61	5.68434e-32	1.000000	5.68434e-32	1.000000
rad3	2.47529e-32	1.000000	2.47529e-32	1.000000
rad4	1.25225e-32	1.000000	1.25225e-32	1.000000

rad13	3.97285e-33	1.00000	3.97285e-33	1.00000
rad14	4.00299e-34	1.00000	4.00299e-34	1.00000
rad9	2.70915e-34	1.00000	2.70915e-34	1.00000
rad25	1.93608e-34	1.00000	1.93608e-34	1.00000
rad19anti	1.14996e-34	1.00000	1.14996e-34	1.00000
rad27	4.23336e-35	1.00000	4.23336e-35	1.00000
rad56	2.32796e-35	1.00000	2.32796e-35	1.00000
rad33	7.48181e-36	1.00000	7.48181e-36	1.00000
rad5	1.90311e-36	1.00000	1.90311e-36	1.00000
rad15	1.17593e-37	1.00000	1.17593e-37	1.00000
rad31	5.33720e-39	1.00000	5.33720e-39	1.00000
rad68syn	8.35758e-41	1.00000	8.35758e-41	1.00000
rad68anti	7.12906e-41	1.00000	7.12906e-41	1.00000
rad20	3.42383e-41	1.00000	3.42383e-41	1.00000
rad21	2.61996e-41	1.00000	2.61996e-41	1.00000
rad23	2.63753e-42	1.00000	2.63753e-42	1.00000
rad12	1.43356e-42	1.00000	1.43356e-42	1.00000
rad18	2.31874e-43	1.00000	2.31874e-43	1.00000
rad22	3.82404e-44	1.00000	3.82404e-44	1.00000
rad19syn	3.07655e-44	1.00000	3.07655e-44	1.00000
rad45	1.71037e-44	1.00000	1.71037e-44	1.00000
rad36	1.04730e-45	1.00000	1.04730e-45	1.00000
rad24	2.41999e-47	1.00000	2.41999e-47	1.00000
rad73	9.69803e-49	1.00000	9.69803e-49	1.00000
rad40syn	2.86244e-49	1.00000	2.86244e-49	1.00000
rad40anti	2.34567e-49	1.00000	2.34567e-49	1.00000
PAH8+H	1.67110e-53	1.00000	1.67110e-53	1.00000
rad71	3.35710e-57	1.00000	3.35710e-57	1.00000
rad8	1.06794e-64	1.00000	1.06794e-64	1.00000

0.100000000E-04 Pa, 80.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.17084e-16 (1.00)	4.17084e-16 (1.00)
Formation of rad19	4.17084e-16 (1.000)	4.17084e-16 (1.000)
H-abstraction to cyc2enyl	8.98751e-27 (2.15e-11)	8.98751e-27 (2.15e-11)
H-abstraction to cyclenyl	4.00120e-36 (9.59e-21)	4.00120e-36 (9.59e-21)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999747	0.999747	0.999747	0.999747
PhCHCCH2+H	0.000240278	0.999987	0.000240278	0.999987
PhCCH+CH3	4.18618e-06	0.999991	4.18618e-06	0.999991
C2H2+PhCH2	3.03334e-06	0.999994	3.03334e-06	0.999994
PhCCCH3+H	2.37733e-06	0.999997	2.37733e-06	0.999997
Ph+MeAc	1.80101e-06	0.999999	1.80101e-06	0.999999
rad67	5.42408e-07	0.999999	5.42408e-07	0.999999
rad35	2.38874e-07	0.999999	2.38874e-07	0.999999
Ph+Allene	1.63685e-07	1.000000	1.63685e-07	1.000000
PAH7+H	2.10958e-08	1.000000	2.10958e-08	1.000000
PhCH2CCH+H	2.05145e-08	1.000000	2.05145e-08	1.000000
rad39	5.95204e-09	1.000000	5.95204e-09	1.000000
rad37	5.52806e-09	1.000000	5.52806e-09	1.000000
rad30	4.47786e-09	1.000000	4.47786e-09	1.000000
PAH9+H	3.02715e-10	1.000000	3.02715e-10	1.000000
rad38	1.29566e-10	1.000000	1.29566e-10	1.000000
Benzene+cycloprop-2-enylidene	2.15484e-11	1.000000	2.15484e-11	1.000000
rad60syn	2.04684e-11	1.000000	2.04684e-11	1.000000
rad60anti	1.00397e-11	1.000000	1.00397e-11	1.000000
PAH3+H	8.68357e-12	1.000000	8.68357e-12	1.000000
PAH10+CH3	7.94154e-12	1.000000	7.94154e-12	1.000000
rad46	7.89974e-12	1.000000	7.89974e-12	1.000000
rad59	1.78409e-12	1.000000	1.78409e-12	1.000000
PhcycC3H3_A+H	1.01061e-12	1.000000	1.01061e-12	1.000000
rad43	3.57097e-13	1.000000	3.57097e-13	1.000000
rad54	2.94052e-13	1.000000	2.94052e-13	1.000000
rad62	7.73782e-14	1.000000	7.73782e-14	1.000000
rad50	5.70977e-14	1.000000	5.70977e-14	1.000000
rad70	5.01443e-15	1.000000	5.01443e-15	1.000000
rad55	2.21134e-15	1.000000	2.21134e-15	1.000000
Phenyl+cycC3H4	1.32430e-15	1.000000	0.000000	1.000000
PAH1+H	1.07020e-15	1.000000	1.07020e-15	1.000000
rad52	3.87614e-16	1.000000	3.87614e-16	1.000000
rad58	1.25561e-16	1.000000	1.25561e-16	1.000000
rad51	1.02471e-16	1.000000	1.02471e-16	1.000000
rad34	5.67852e-17	1.000000	5.67852e-17	1.000000
rad41	7.33019e-18	1.000000	7.33019e-18	1.000000
rad42	6.74819e-18	1.000000	6.74819e-18	1.000000
rad65	2.10439e-18	1.000000	2.10439e-18	1.000000

PhcycC3H3_B+H	1.96138e-18	1.000000	1.96138e-18	1.000000
Benzene+cycloprop-1-enylidene	9.59328e-21	1.000000	9.59328e-21	1.000000
rad53	4.18958e-23	1.000000	4.18958e-23	1.000000
rad64	5.09113e-25	1.000000	5.09113e-25	1.000000
rad6	6.10452e-27	1.000000	6.10452e-27	1.000000
rad28	2.32411e-29	1.000000	2.32411e-29	1.000000
rad26	1.21938e-29	1.000000	1.21938e-29	1.000000
rad61	8.41956e-30	1.000000	8.41956e-30	1.000000
rad2	2.39484e-30	1.000000	2.39484e-30	1.000000
rad47	8.54875e-31	1.000000	8.54875e-31	1.000000
rad7	4.43030e-31	1.000000	4.43030e-31	1.000000
rad1	1.52834e-31	1.000000	1.52834e-31	1.000000
rad10	1.22841e-31	1.000000	1.22841e-31	1.000000
rad11	1.08606e-31	1.000000	1.08606e-31	1.000000
rad3	1.53237e-32	1.000000	1.53237e-32	1.000000
rad56	1.31870e-32	1.000000	1.31870e-32	1.000000
rad4	7.75698e-33	1.000000	7.75698e-33	1.000000
rad13	2.45330e-33	1.000000	2.45330e-33	1.000000
rad14	3.50297e-34	1.000000	3.50297e-34	1.000000
rad9	2.20447e-34	1.000000	2.20447e-34	1.000000
rad68syn	1.87140e-34	1.000000	1.87140e-34	1.000000
rad25	1.71535e-34	1.000000	1.71535e-34	1.000000
rad19anti	1.65194e-34	1.000000	1.65194e-34	1.000000
rad68anti	1.57604e-34	1.000000	1.57604e-34	1.000000
rad27	3.70979e-35	1.000000	3.70979e-35	1.000000
rad33	4.62478e-36	1.000000	4.62478e-36	1.000000
rad5	1.46014e-36	1.000000	1.46014e-36	1.000000
rad15	9.58113e-38	1.000000	9.58113e-38	1.000000
rad31	6.82825e-39	1.000000	6.82825e-39	1.000000
rad20	2.67558e-41	1.000000	2.67558e-41	1.000000
rad21	2.07244e-41	1.000000	2.07244e-41	1.000000
rad23	1.55284e-42	1.000000	1.55284e-42	1.000000
rad12	1.21833e-42	1.000000	1.21833e-42	1.000000
rad18	1.91967e-43	1.000000	1.91967e-43	1.000000
rad19syn	5.56519e-44	1.000000	5.56519e-44	1.000000
rad22	2.30524e-44	1.000000	2.30524e-44	1.000000
rad45	1.00348e-44	1.000000	1.00348e-44	1.000000
rad36	6.14337e-46	1.000000	6.14337e-46	1.000000
rad73	1.03571e-46	1.000000	1.03571e-46	1.000000
rad24	2.59805e-47	1.000000	2.59805e-47	1.000000
rad40syn	2.29078e-47	1.000000	2.29078e-47	1.000000
rad40anti	1.86934e-47	1.000000	1.86934e-47	1.000000
PAH8+H	1.56154e-51	1.000000	1.56154e-51	1.000000
rad71	3.88557e-55	1.000000	3.88557e-55	1.000000
rad8	1.28436e-64	1.000000	1.28436e-64	1.000000

0.100000000E-04 Pa, 90.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.74016e-16 (1.00)	7.74016e-16 (1.00)
Formation of rad19	7.74016e-16 (1.000)	7.74016e-16 (1.000)
H-abstraction to cyc2enyl	2.91736e-25 (3.77e-10)	2.91736e-25 (3.77e-10)
H-abstraction to cyclenyl	1.47814e-33 (1.91e-18)	1.47814e-33 (1.91e-18)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999741	0.999741	0.999741	0.999741
PhCHCCH2+H	0.000245933	0.999987	0.000245933	0.999987
PhCCH+CH3	4.29301e-06	0.999991	4.29301e-06	0.999991
C2H2+PhCH2	3.12644e-06	0.999994	3.12644e-06	0.999994
PhCCCH3+H	2.44411e-06	0.999997	2.44411e-06	0.999997
Ph+MeAc	1.86289e-06	0.999999	1.86289e-06	0.999999
rad67	5.60078e-07	0.999999	5.60078e-07	0.999999
rad35	2.46332e-07	0.999999	2.46332e-07	0.999999
Ph+Allene	1.71279e-07	1.000000	1.71279e-07	1.000000
PAH7+H	2.19314e-08	1.000000	2.19314e-08	1.000000
PhCH2CCH+H	2.16238e-08	1.000000	2.16238e-08	1.000000
rad39	6.18831e-09	1.000000	6.18831e-09	1.000000
rad37	5.76057e-09	1.000000	5.76057e-09	1.000000
rad30	4.62113e-09	1.000000	4.62113e-09	1.000000
Benzene+cycloprop-2-enylidene	3.76912e-10	1.000000	3.76912e-10	1.000000
PAH9+H	3.15328e-10	1.000000	3.15328e-10	1.000000
rad38	1.35501e-10	1.000000	1.35501e-10	1.000000
rad60syn	2.13909e-11	1.000000	2.13909e-11	1.000000
rad60anti	1.05039e-11	1.000000	1.05039e-11	1.000000
PAH3+H	9.21901e-12	1.000000	9.21901e-12	1.000000
PAH10+CH3	8.64383e-12	1.000000	8.64383e-12	1.000000
rad46	8.28936e-12	1.000000	8.28936e-12	1.000000
rad59	1.88961e-12	1.000000	1.88961e-12	1.000000

PhcycC3H3_A+H	1.23243e-12	1.000000	1.23243e-12	1.000000
rad43	3.84868e-13	1.000000	3.84868e-13	1.000000
rad54	3.19696e-13	1.000000	3.19696e-13	1.000000
rad62	8.36056e-14	1.000000	8.36056e-14	1.000000
rad50	6.12574e-14	1.000000	6.12574e-14	1.000000
rad70	5.59578e-15	1.000000	5.59578e-15	1.000000
rad55	2.46954e-15	1.000000	2.46954e-15	1.000000
Phenyl+cycC3H4	2.14284e-15	1.000000	0.000000	1.000000
PAH1+H	1.24556e-15	1.000000	1.24556e-15	1.000000
rad52	4.22954e-16	1.000000	4.22954e-16	1.000000
rad58	1.41714e-16	1.000000	1.41714e-16	1.000000
rad51	1.14154e-16	1.000000	1.14154e-16	1.000000
rad34	6.62488e-17	1.000000	6.62488e-17	1.000000
PhcycC3H3_B+H	1.04002e-17	1.000000	1.04002e-17	1.000000
rad41	9.07987e-18	1.000000	9.07987e-18	1.000000
rad42	8.13584e-18	1.000000	8.13584e-18	1.000000
rad65	2.36868e-18	1.000000	2.36868e-18	1.000000
Benzene+cycloprop-1-enylidene	1.90970e-18	1.000000	1.90970e-18	1.000000
rad53	2.02295e-22	1.000000	2.02295e-22	1.000000
rad64	4.24438e-24	1.000000	4.24438e-24	1.000000
rad6	4.04109e-27	1.000000	4.04109e-27	1.000000
rad61	4.05748e-28	1.000000	4.05748e-28	1.000000
rad28	1.65763e-29	1.000000	1.65763e-29	1.000000
rad26	9.33940e-30	1.000000	9.33940e-30	1.000000
rad2	1.60380e-30	1.000000	1.60380e-30	1.000000
rad56	1.28601e-30	1.000000	1.28601e-30	1.000000
rad47	7.75937e-31	1.000000	7.75937e-31	1.000000
rad7	2.93684e-31	1.000000	2.93684e-31	1.000000
rad1	1.02651e-31	1.000000	1.02651e-31	1.000000
rad10	8.24276e-32	1.000000	8.24276e-32	1.000000
rad11	7.20091e-32	1.000000	7.20091e-32	1.000000
rad68syn	2.85403e-32	1.000000	2.85403e-32	1.000000
rad68anti	2.36879e-32	1.000000	2.36879e-32	1.000000
rad3	1.02521e-32	1.000000	1.02521e-32	1.000000
rad4	5.19329e-33	1.000000	5.19329e-33	1.000000
rad13	1.62779e-33	1.000000	1.62779e-33	1.000000
rad14	3.15288e-34	1.000000	3.15288e-34	1.000000
rad19anti	2.57298e-34	1.000000	2.57298e-34	1.000000
rad9	1.93890e-34	1.000000	1.93890e-34	1.000000
rad25	1.56491e-34	1.000000	1.56491e-34	1.000000
rad27	3.37076e-35	1.000000	3.37076e-35	1.000000
rad33	3.07207e-36	1.000000	3.07207e-36	1.000000
rad5	1.16772e-36	1.000000	1.16772e-36	1.000000
rad15	8.43857e-38	1.000000	8.43857e-38	1.000000
rad31	9.38250e-39	1.000000	9.38250e-39	1.000000
rad73	1.45331e-39	1.000000	1.45331e-39	1.000000
rad20	2.29694e-41	1.000000	2.29694e-41	1.000000
rad21	1.80113e-41	1.000000	1.80113e-41	1.000000
rad12	1.12789e-42	1.000000	1.12789e-42	1.000000
rad23	1.08544e-42	1.000000	1.08544e-42	1.000000
rad18	1.69771e-43	1.000000	1.69771e-43	1.000000
rad19syn	1.05530e-43	1.000000	1.05530e-43	1.000000
rad22	1.52888e-44	1.000000	1.52888e-44	1.000000
rad45	6.99942e-45	1.000000	6.99942e-45	1.000000
rad40syn	5.28602e-45	1.000000	5.28602e-45	1.000000
rad40anti	4.29341e-45	1.000000	4.29341e-45	1.000000
rad36	4.28491e-46	1.000000	4.28491e-46	1.000000
rad24	2.91686e-47	1.000000	2.91686e-47	1.000000
PAH8+H	4.16085e-49	1.000000	4.16085e-49	1.000000
rad71	1.29283e-52	1.000000	1.29283e-52	1.000000
rad8	1.61986e-64	1.000000	1.61986e-64	1.000000

0.100000000E-04 Pa, 100.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.28255e-15 (1.00)	1.28255e-15 (1.00)
Formation of rad19	1.28255e-15 (1.000)	1.28255e-15 (1.000)
H-abstraction to cyc2enyl	4.68359e-24 (3.65e-09)	4.68359e-24 (3.65e-09)
H-abstraction to cyclenyl	1.66242e-31 (1.30e-16)	1.66242e-31 (1.30e-16)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999735	0.999735	0.999735	0.999735
PhCHCCH2+H	0.000251988	0.999987	0.000251988	0.999987
PhCCH+CH3	4.40736e-06	0.999991	4.40736e-06	0.999991
C2H2+PhCH2	3.22690e-06	0.999995	3.22690e-06	0.999995
PhCCCH3+H	2.51589e-06	0.999997	2.51589e-06	0.999997
Ph+MeAc	1.92987e-06	0.999999	1.92987e-06	0.999999
rad67	5.79181e-07	1.000000	5.79181e-07	1.000000

rad35	2.54382e-07	1.000000	2.54382e-07	1.000000
Ph+Allene	1.79626e-07	1.00000	1.79626e-07	1.00000
PhCH2CCH+H	2.28535e-08	1.00000	2.28535e-08	1.00000
PAH7+H	2.28426e-08	1.00000	2.28426e-08	1.00000
rad39	6.44588e-09	1.00000	6.44588e-09	1.00000
rad37	6.01471e-09	1.00000	6.01471e-09	1.00000
rad30	4.77610e-09	1.00000	4.77610e-09	1.00000
Benzene+cycloprop-2-enylidene	3.65179e-09	1.00000	3.65179e-09	1.00000
PAH9+H	3.29133e-10	1.00000	3.29133e-10	1.00000
rad38	1.42032e-10	1.00000	1.42032e-10	1.00000
rad60syn	2.24039e-11	1.00000	2.24039e-11	1.00000
rad60anti	1.10144e-11	1.00000	1.10144e-11	1.00000
PAH3+H	9.81801e-12	1.00000	9.81801e-12	1.00000
PAH10+CH3	9.45058e-12	1.00000	9.45058e-12	1.00000
rad46	8.71960e-12	1.00000	8.71960e-12	1.00000
rad59	2.00730e-12	1.00000	2.00730e-12	1.00000
PhcycC3H3_A+H	1.51348e-12	1.00000	1.51348e-12	1.00000
rad43	4.16367e-13	1.00000	4.16367e-13	1.00000
rad54	3.49134e-13	1.00000	3.49134e-13	1.00000
rad62	9.06789e-14	1.00000	9.06789e-14	1.00000
rad50	6.59738e-14	1.00000	6.59738e-14	1.00000
rad70	6.28186e-15	1.00000	6.28186e-15	1.00000
Phenyl+cycC3H4	3.36905e-15	1.00000	0.00000	1.00000
rad55	2.77426e-15	1.00000	2.77426e-15	1.00000
PAH1+H	1.46128e-15	1.00000	1.46128e-15	1.00000
rad52	4.63810e-16	1.00000	4.63810e-16	1.00000
rad58	1.61019e-16	1.00000	1.61019e-16	1.00000
Benzene+cycloprop-1-enylidene	1.29619e-16	1.00000	1.29619e-16	1.00000
rad51	1.27975e-16	1.00000	1.27975e-16	1.00000
rad34	7.79205e-17	1.00000	7.79205e-17	1.00000
PhcycC3H3_B+H	4.09123e-17	1.00000	4.09123e-17	1.00000
rad41	1.13185e-17	1.00000	1.13185e-17	1.00000
rad42	9.88343e-18	1.00000	9.88343e-18	1.00000
rad65	2.68463e-18	1.00000	2.68463e-18	1.00000
rad53	7.24657e-22	1.00000	7.24657e-22	1.00000
rad64	2.36967e-23	1.00000	2.36967e-23	1.00000
rad61	9.04334e-27	1.00000	9.04334e-27	1.00000
rad6	2.82533e-27	1.00000	2.82533e-27	1.00000
rad56	5.01134e-29	1.00000	5.01134e-29	1.00000
rad28	1.23604e-29	1.00000	1.23604e-29	1.00000
rad26	7.41693e-30	1.00000	7.41693e-30	1.00000
rad68syn	1.54810e-30	1.00000	1.54810e-30	1.00000
rad68anti	1.27120e-30	1.00000	1.27120e-30	1.00000
rad2	1.14604e-30	1.00000	1.14604e-30	1.00000
rad47	7.18621e-31	1.00000	7.18621e-31	1.00000
rad7	2.05633e-31	1.00000	2.05633e-31	1.00000
rad1	7.35892e-32	1.00000	7.35892e-32	1.00000
rad10	5.89999e-32	1.00000	5.89999e-32	1.00000
rad11	5.04315e-32	1.00000	5.04315e-32	1.00000
rad3	7.30921e-33	1.00000	7.30921e-33	1.00000
rad4	3.70545e-33	1.00000	3.70545e-33	1.00000
rad13	1.14086e-33	1.00000	1.14086e-33	1.00000
rad19anti	4.30716e-34	1.00000	4.30716e-34	1.00000
rad14	2.90007e-34	1.00000	2.90007e-34	1.00000
rad9	1.81304e-34	1.00000	1.81304e-34	1.00000
rad25	1.46016e-34	1.00000	1.46016e-34	1.00000
rad27	3.14590e-35	1.00000	3.14590e-35	1.00000
rad33	2.15584e-36	1.00000	2.15584e-36	1.00000
rad40syn	1.99128e-36	1.00000	1.99128e-36	1.00000
rad40anti	1.51571e-36	1.00000	1.51571e-36	1.00000
rad5	9.63532e-37	1.00000	9.63532e-37	1.00000
rad73	7.52969e-37	1.00000	7.52969e-37	1.00000
rad15	7.90231e-38	1.00000	7.90231e-38	1.00000
rad31	1.37065e-38	1.00000	1.37065e-38	1.00000
rad20	2.11769e-41	1.00000	2.11769e-41	1.00000
rad21	1.68072e-41	1.00000	1.68072e-41	1.00000
rad12	1.11953e-42	1.00000	1.11953e-42	1.00000
rad23	8.97374e-43	1.00000	8.97374e-43	1.00000
rad19syn	2.08907e-43	1.00000	2.08907e-43	1.00000
rad18	1.57286e-43	1.00000	1.57286e-43	1.00000
rad22	1.09072e-44	1.00000	1.09072e-44	1.00000
rad45	5.78090e-45	1.00000	5.78090e-45	1.00000
rad36	3.53939e-46	1.00000	3.53939e-46	1.00000
PAH8+H	2.22240e-46	1.00000	2.22240e-46	1.00000
rad24	3.39495e-47	1.00000	3.39495e-47	1.00000
rad71	8.99615e-50	1.00000	8.99615e-50	1.00000
rad8	2.12437e-64	1.00000	2.12437e-64	1.00000

0.100000000E-04 Pa, 110.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.95524e-15 (1.00)	1.95524e-15 (1.00)
Formation of rad19	1.95524e-15 (1.000)	1.95524e-15 (1.000)
H-abstraction to cyc2enyl	4.50936e-23 (2.31e-08)	4.50936e-23 (2.31e-08)
H-abstraction to cyc1enyl	7.87782e-30 (4.03e-15)	7.87782e-30 (4.03e-15)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999728	0.999728	0.999728	0.999728
PhCHCCH2+H	0.000258470	0.999986	0.000258470	0.999986
PhCCH+CH3	4.52973e-06	0.999991	4.52973e-06	0.999991
C2H2+PhCH2	3.33534e-06	0.999994	3.33534e-06	0.999994
PhCCCH3+H	2.59304e-06	0.999997	2.59304e-06	0.999997
Ph+MeAc	2.00241e-06	0.999999	2.00241e-06	0.999999
rad67	5.99841e-07	1.000000	5.99841e-07	1.000000
rad35	2.63077e-07	1.000000	2.63077e-07	1.000000
Ph+Allene	1.88812e-07	1.000000	1.88812e-07	1.000000
PhCH2CCH+H	2.42192e-08	1.000000	2.42192e-08	1.000000
PAH7+H	2.38370e-08	1.000000	2.38370e-08	1.000000
Benzene+cycloprop-2-enylidene	2.30629e-08	1.000000	2.30629e-08	1.000000
rad39	6.72690e-09	1.000000	6.72690e-09	1.000000
rad37	6.29278e-09	1.000000	6.29278e-09	1.000000
rad30	4.94382e-09	1.000000	4.94382e-09	1.000000
PAH9+H	3.44261e-10	1.000000	3.44261e-10	1.000000
rad38	1.49234e-10	1.000000	1.49234e-10	1.000000
rad60syn	2.35177e-11	1.000000	2.35177e-11	1.000000
rad60anti	1.15765e-11	1.000000	1.15765e-11	1.000000
PAH3+H	1.04898e-11	1.000000	1.04898e-11	1.000000
PAH10+CH3	1.03809e-11	1.000000	1.03809e-11	1.000000
rad46	9.19551e-12	1.000000	9.19551e-12	1.000000
rad59	2.13885e-12	1.000000	2.13885e-12	1.000000
PhcycC3H3_A+H	1.87147e-12	1.000000	1.87147e-12	1.000000
rad43	4.52199e-13	1.000000	4.52199e-13	1.000000
rad54	3.83057e-13	1.000000	3.83057e-13	1.000000
rad62	9.87357e-14	1.000000	9.87357e-14	1.000000
rad50	7.13394e-14	1.000000	7.13394e-14	1.000000
rad70	7.09587e-15	1.000000	7.09587e-15	1.000000
Phenyl+cycC3H4	5.18630e-15	1.000000	0.000000	1.000000
Benzene+cycloprop-1-enylidene	4.02908e-15	1.000000	4.02908e-15	1.000000
rad55	3.13588e-15	1.000000	3.13588e-15	1.000000
PAH1+H	1.72855e-15	1.000000	1.72855e-15	1.000000
rad52	5.11260e-16	1.000000	5.11260e-16	1.000000
rad58	1.84231e-16	1.000000	1.84231e-16	1.000000
rad51	1.44427e-16	1.000000	1.44427e-16	1.000000
PhcycC3H3_B+H	1.30407e-16	1.000000	1.30407e-16	1.000000
rad34	9.24225e-17	1.000000	9.24225e-17	1.000000
rad41	1.42061e-17	1.000000	1.42061e-17	1.000000
rad42	1.20969e-17	1.000000	1.20969e-17	1.000000
rad65	3.06483e-18	1.000000	3.06483e-18	1.000000
rad53	2.11092e-21	1.000000	2.11092e-21	1.000000
rad64	9.96381e-23	1.000000	9.96381e-23	1.000000
rad61	1.15972e-25	1.000000	1.15972e-25	1.000000
rad6	2.06315e-27	1.000000	2.06315e-27	1.000000
rad56	1.00969e-27	1.000000	1.00969e-27	1.000000
rad68syn	4.04802e-29	1.000000	4.04802e-29	1.000000
rad68anti	3.29761e-29	1.000000	3.29761e-29	1.000000
rad28	9.54078e-30	1.000000	9.54078e-30	1.000000
rad26	6.06024e-30	1.000000	6.06024e-30	1.000000
rad2	8.67239e-31	1.000000	8.67239e-31	1.000000
rad47	6.77046e-31	1.000000	6.77046e-31	1.000000
rad7	1.50395e-31	1.000000	1.50395e-31	1.000000
rad1	5.58840e-32	1.000000	5.58840e-32	1.000000
rad10	4.47381e-32	1.000000	4.47381e-32	1.000000
rad11	3.68941e-32	1.000000	3.68941e-32	1.000000
rad3	5.51124e-33	1.000000	5.51124e-33	1.000000
rad4	2.79640e-33	1.000000	2.79640e-33	1.000000
rad13	8.35249e-34	1.000000	8.35249e-34	1.000000
rad19anti	7.70506e-34	1.000000	7.70506e-34	1.000000
rad40syn	3.23201e-34	1.000000	3.23201e-34	1.000000
rad14	2.71449e-34	1.000000	2.71449e-34	1.000000
rad40anti	2.54378e-34	1.000000	2.54378e-34	1.000000
rad9	1.78265e-34	1.000000	1.78265e-34	1.000000
rad25	1.38723e-34	1.000000	1.38723e-34	1.000000
rad73	5.48405e-35	1.000000	5.48405e-35	1.000000
rad27	2.99829e-35	1.000000	2.99829e-35	1.000000
rad33	1.58059e-36	1.000000	1.58059e-36	1.000000
rad5	8.14652e-37	1.000000	8.14652e-37	1.000000
rad15	7.78174e-38	1.000000	7.78174e-38	1.000000
rad31	2.11556e-38	1.000000	2.11556e-38	1.000000

rad20	2.06345e-41	1.00000	2.06345e-41	1.00000
rad21	1.65695e-41	1.00000	1.65695e-41	1.00000
rad12	1.17925e-42	1.00000	1.17925e-42	1.00000
rad23	8.79799e-43	1.00000	8.79799e-43	1.00000
rad19syn	4.31564e-43	1.00000	4.31564e-43	1.00000
rad18	1.50801e-43	1.00000	1.50801e-43	1.00000
PAH8+H	1.08851e-43	1.00000	1.08851e-43	1.00000
rad22	8.24831e-45	1.00000	8.24831e-45	1.00000
rad45	5.66714e-45	1.00000	5.66714e-45	1.00000
rad36	3.47078e-46	1.00000	3.47078e-46	1.00000
rad71	5.50110e-47	1.00000	5.50110e-47	1.00000
rad24	4.07367e-47	1.00000	4.07367e-47	1.00000
rad8	2.88052e-64	1.00000	2.88052e-64	1.00000

0.100000000E-04 Pa, 120.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	2.79817e-15	(1.00)	2.79817e-15	(1.00)
Formation of rad19	2.79817e-15	(1.000)	2.79817e-15	(1.000)
H-abstraction to cyc2enyl	2.96039e-22	(1.06e-07)	2.96039e-22	(1.06e-07)
H-abstraction to cyclenyl	1.95323e-28	(6.98e-14)	1.95323e-28	(6.98e-14)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999721	0.999721	0.999721	0.999721
PhCHCCH2+H	0.000265418	0.999986	0.000265418	0.999986
PhCCH+CH3	4.66082e-06	0.999991	4.66082e-06	0.999991
C2H2+PhCH2	3.45258e-06	0.999994	3.45258e-06	0.999994
PhCCCH3+H	2.67609e-06	0.999997	2.67609e-06	0.999997
Ph+MeAc	2.08110e-06	0.999999	2.08110e-06	0.999999
rad67	6.22225e-07	1.000000	6.22225e-07	1.000000
rad35	2.72481e-07	1.000000	2.72481e-07	1.000000
Ph+Allene	1.98950e-07	1.000000	1.98950e-07	1.000000
Benzene+cycloprop-2-enylidene	1.05797e-07	1.000000	1.05797e-07	1.000000
PhCH2CCH+H	2.57406e-08	1.000000	2.57406e-08	1.000000
PAH7+H	2.49247e-08	1.000000	2.49247e-08	1.000000
rad39	7.03418e-09	1.000000	7.03418e-09	1.000000
rad37	6.59774e-09	1.000000	6.59774e-09	1.000000
rad30	5.12566e-09	1.000000	5.12566e-09	1.000000
PAH9+H	3.60881e-10	1.000000	3.60881e-10	1.000000
rad38	1.57196e-10	1.000000	1.57196e-10	1.000000
rad60syn	2.47458e-11	1.000000	2.47458e-11	1.000000
rad60anti	1.21972e-11	1.000000	1.21972e-11	1.000000
PAH10+CH3	1.14592e-11	1.000000	1.14592e-11	1.000000
PAH3+H	1.12460e-11	1.000000	1.12460e-11	1.000000
rad46	9.72360e-12	1.000000	9.72360e-12	1.000000
PhcycC3H3_A+H	2.33055e-12	1.000000	2.33055e-12	1.000000
rad59	2.28645e-12	1.000000	2.28645e-12	1.000000
rad43	4.93136e-13	1.000000	4.93136e-13	1.000000
rad54	4.22353e-13	1.000000	4.22353e-13	1.000000
rad62	1.07951e-13	1.000000	1.07951e-13	1.000000
rad50	7.74733e-14	1.000000	7.74733e-14	1.000000
Benzene+cycloprop-1-enylidene	6.98038e-14	1.000000	6.98038e-14	1.000000
rad70	8.06827e-15	1.000000	8.06827e-15	1.000000
Phenyl+cycC3H4	7.86468e-15	1.000000	0.000000	1.000000
rad55	3.56795e-15	1.000000	3.56795e-15	1.000000
PAH1+H	2.06259e-15	1.000000	2.06259e-15	1.000000
rad52	5.66711e-16	1.000000	5.66711e-16	1.000000
PhcycC3H3_B+H	3.56809e-16	1.000000	3.56809e-16	1.000000
rad58	2.12355e-16	1.000000	2.12355e-16	1.000000
rad51	1.64160e-16	1.000000	1.64160e-16	1.000000
rad34	1.10599e-16	1.000000	1.10599e-16	1.000000
rad41	1.79639e-17	1.000000	1.79639e-17	1.000000
rad42	1.49203e-17	1.000000	1.49203e-17	1.000000
rad65	3.52610e-18	1.000000	3.52610e-18	1.000000
rad53	5.31324e-21	1.000000	5.31324e-21	1.000000
rad64	3.40975e-22	1.000000	3.40975e-22	1.000000
rad61	9.89208e-25	1.000000	9.89208e-25	1.000000
rad56	1.24744e-26	1.000000	1.24744e-26	1.000000
rad6	1.56210e-27	1.000000	1.56210e-27	1.000000
rad68syn	6.17070e-28	1.000000	6.17070e-28	1.000000
rad68anti	4.99494e-28	1.000000	4.99494e-28	1.000000
rad28	7.57133e-30	1.000000	7.57133e-30	1.000000
rad26	5.06828e-30	1.000000	5.06828e-30	1.000000
rad2	6.95276e-31	1.000000	6.95276e-31	1.000000
rad47	6.47617e-31	1.000000	6.47617e-31	1.000000
rad7	1.14058e-31	1.000000	1.14058e-31	1.000000
rad1	4.49762e-32	1.000000	4.49762e-32	1.000000
rad10	3.59230e-32	1.000000	3.59230e-32	1.000000

rad11	2.79881e-32	1.00000	2.79881e-32	1.00000
rad40syn	1.64573e-32	1.00000	1.64573e-32	1.00000
rad40anti	1.29414e-32	1.00000	1.29414e-32	1.00000
rad3	4.39015e-33	1.00000	4.39015e-33	1.00000
rad4	2.22972e-33	1.00000	2.22972e-33	1.00000
rad73	1.92333e-33	1.00000	1.92333e-33	1.00000
rad19anti	1.46734e-33	1.00000	1.46734e-33	1.00000
rad13	6.34118e-34	1.00000	6.34118e-34	1.00000
rad14	2.57784e-34	1.00000	2.57784e-34	1.00000
rad9	1.82897e-34	1.00000	1.82897e-34	1.00000
rad25	1.33781e-34	1.00000	1.33781e-34	1.00000
PAH8+H	4.13571e-35	1.00000	4.13571e-35	1.00000
rad27	2.90704e-35	1.00000	2.90704e-35	1.00000
rad33	1.20190e-36	1.00000	1.20190e-36	1.00000
rad5	7.02315e-37	1.00000	7.02315e-37	1.00000
rad15	7.99668e-38	1.00000	7.99668e-38	1.00000
rad31	3.43663e-38	1.00000	3.43663e-38	1.00000
rad71	1.32207e-38	1.00000	1.32207e-38	1.00000
rad20	2.10053e-41	1.00000	2.10053e-41	1.00000
rad21	1.70593e-41	1.00000	1.70593e-41	1.00000
rad12	1.30909e-42	1.00000	1.30909e-42	1.00000
rad23	1.01969e-42	1.00000	1.01969e-42	1.00000
rad19syn	9.31466e-43	1.00000	9.31466e-43	1.00000
rad18	1.48442e-43	1.00000	1.48442e-43	1.00000
rad45	6.57098e-45	1.00000	6.57098e-45	1.00000
rad22	6.54961e-45	1.00000	6.54961e-45	1.00000
rad36	4.02631e-46	1.00000	4.02631e-46	1.00000
rad24	5.02076e-47	1.00000	5.02076e-47	1.00000
rad8	4.02251e-64	1.00000	4.02251e-64	1.00000

0.100000000E-04 Pa, 130.000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	3.81236e-15 (1.00)	3.81236e-15 (1.00)		
Formation of rad19	3.81236e-15 (1.000)	3.81236e-15 (1.000)		
H-abstraction to cyc2enyl	1.44825e-21 (3.80e-07)	1.44825e-21 (3.80e-07)		
H-abstraction to cyclenyl	2.94348e-27 (7.72e-13)	2.94348e-27 (7.72e-13)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999713	0.999713	0.999713	0.999713
PhCHCCH2+H	0.000272881	0.999986	0.000272881	0.999986
PhCCH+CH3	4.80154e-06	0.999990	4.80154e-06	0.999990
C2H2+PhCH2	3.57965e-06	0.999994	3.57965e-06	0.999994
PhCCCH3+H	2.76568e-06	0.999997	2.76568e-06	0.999997
Ph+MeAc	2.16669e-06	0.999999	2.16669e-06	0.999999
rad67	6.46538e-07	0.999999	6.46538e-07	0.999999
Benzene+cycloprop-2-enylidene	3.79882e-07	1.000000	3.79882e-07	1.000000
rad35	2.82679e-07	1.00000	2.82679e-07	1.00000
Ph+Allene	2.10176e-07	1.00000	2.10176e-07	1.00000
PhCH2CCH+H	2.74425e-08	1.00000	2.74425e-08	1.00000
PAH7+H	2.61181e-08	1.00000	2.61181e-08	1.00000
rad39	7.37117e-09	1.00000	7.37117e-09	1.00000
rad37	6.93326e-09	1.00000	6.93326e-09	1.00000
rad30	5.32333e-09	1.00000	5.32333e-09	1.00000
PAH9+H	3.79203e-10	1.00000	3.79203e-10	1.00000
rad38	1.66034e-10	1.00000	1.66034e-10	1.00000
rad60syn	2.61047e-11	1.00000	2.61047e-11	1.00000
rad60anti	1.28850e-11	1.00000	1.28850e-11	1.00000
PAH10+CH3	1.27171e-11	1.00000	1.27171e-11	1.00000
PAH3+H	1.21014e-11	1.00000	1.21014e-11	1.00000
rad46	1.03119e-11	1.00000	1.03119e-11	1.00000
PhcycC3H3_A+H	2.92361e-12	1.00000	2.92361e-12	1.00000
rad59	2.45281e-12	1.00000	2.45281e-12	1.00000
Benzene+cycloprop-1-enylidene	7.72089e-13	1.00000	7.72089e-13	1.00000
rad43	5.40149e-13	1.00000	5.40149e-13	1.00000
rad54	4.68161e-13	1.00000	4.68161e-13	1.00000
rad62	1.18546e-13	1.00000	1.18546e-13	1.00000
rad50	8.45267e-14	1.00000	8.45267e-14	1.00000
Phenyl+cycC3H4	1.18041e-14	1.00000	0.00000	1.00000
rad70	9.23894e-15	1.00000	9.23894e-15	1.00000
rad55	4.08824e-15	1.00000	4.08824e-15	1.00000
PAH1+H	2.48399e-15	1.00000	2.48399e-15	1.00000
PhcycC3H3_B+H	8.71416e-16	1.00000	8.71416e-16	1.00000
rad52	6.31978e-16	1.00000	6.31978e-16	1.00000
rad58	2.46721e-16	1.00000	2.46721e-16	1.00000
rad51	1.88039e-16	1.00000	1.88039e-16	1.00000
rad34	1.33599e-16	1.00000	1.33599e-16	1.00000
rad41	2.28987e-17	1.00000	2.28987e-17	1.00000

rad42	1.85493e-17	1.00000	1.85493e-17	1.00000
rad65	4.09093e-18	1.00000	4.09093e-18	1.00000
rad53	1.20428e-20	1.00000	1.20428e-20	1.00000
rad64	1.00148e-21	1.00000	1.00148e-21	1.00000
rad61	6.20139e-24	1.00000	6.20139e-24	1.00000
rad56	1.06324e-25	1.00000	1.06324e-25	1.00000
rad68syn	6.24506e-27	1.00000	6.24506e-27	1.00000
rad68anti	5.02760e-27	1.00000	5.02760e-27	1.00000
rad6	1.22077e-27	1.00000	1.22077e-27	1.00000
rad28	6.14777e-30	1.00000	6.14777e-30	1.00000
rad26	4.32357e-30	1.00000	4.32357e-30	1.00000
rad47	6.28101e-31	1.00000	6.28101e-31	1.00000
rad2	5.92723e-31	1.00000	5.92723e-31	1.00000
rad40syn	4.43601e-31	1.00000	4.43601e-31	1.00000
rad40anti	3.49255e-31	1.00000	3.49255e-31	1.00000
rad7	8.92880e-32	1.00000	8.92880e-32	1.00000
rad73	3.97404e-32	1.00000	3.97404e-32	1.00000
rad1	3.85042e-32	1.00000	3.85042e-32	1.00000
rad10	3.06854e-32	1.00000	3.06854e-32	1.00000
rad11	2.19168e-32	1.00000	2.19168e-32	1.00000
rad3	3.71230e-33	1.00000	3.71230e-33	1.00000
rad19anti	2.96680e-33	1.00000	2.96680e-33	1.00000
PAH8+H	2.25812e-33	1.00000	2.25812e-33	1.00000
rad4	1.88747e-33	1.00000	1.88747e-33	1.00000
rad13	4.96961e-34	1.00000	4.96961e-34	1.00000
rad14	2.47841e-34	1.00000	2.47841e-34	1.00000
rad9	1.94741e-34	1.00000	1.94741e-34	1.00000
rad25	1.30666e-34	1.00000	1.30666e-34	1.00000
rad27	2.85978e-35	1.00000	2.85978e-35	1.00000
rad71	1.12266e-36	1.00000	1.12266e-36	1.00000
rad33	9.43643e-37	1.00000	9.43643e-37	1.00000
rad5	6.15149e-37	1.00000	6.15149e-37	1.00000
rad15	8.52860e-38	1.00000	8.52860e-38	1.00000
rad31	5.86138e-38	1.00000	5.86138e-38	1.00000
rad20	2.21521e-41	1.00000	2.21521e-41	1.00000
rad21	1.81898e-41	1.00000	1.81898e-41	1.00000
rad19syn	2.10397e-42	1.00000	2.10397e-42	1.00000
rad12	1.52420e-42	1.00000	1.52420e-42	1.00000
rad23	1.37753e-42	1.00000	1.37753e-42	1.00000
rad18	1.49213e-43	1.00000	1.49213e-43	1.00000
rad45	8.89330e-45	1.00000	8.89330e-45	1.00000
rad22	5.43182e-45	1.00000	5.43182e-45	1.00000
rad36	5.45314e-46	1.00000	5.45314e-46	1.00000
rad24	6.33996e-47	1.00000	6.33996e-47	1.00000
rad8	5.76909e-64	1.00000	5.76909e-64	1.00000

0.100000000E-04 Pa, 140.000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	4.99515e-15 (1.00)	4.99515e-15 (1.00)		
Formation of rad19	4.99514e-15 (1.000)	4.99514e-15 (1.000)		
H-abstraction to cyc2enyl	5.62488e-21 (1.13e-06)	5.62488e-21 (1.13e-06)		
H-abstraction to cyclenyl	3.00047e-26 (6.01e-12)	3.00047e-26 (6.01e-12)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999703	0.999703	0.999703	0.999703
PhCHCCH2+H	0.000280917	0.999984	0.000280917	0.999984
PhCCH+CH3	4.95294e-06	0.999989	4.95294e-06	0.999989
C2H2+PhCH2	3.71777e-06	0.999992	3.71777e-06	0.999992
PhCCCH3+H	2.86259e-06	0.999995	2.86259e-06	0.999995
Ph+MeAc	2.26007e-06	0.999998	2.26007e-06	0.999998
Benzene+cycloprop-2-enylidene	1.12607e-06	0.999999	1.12607e-06	0.999999
rad67	6.73023e-07	0.999999	6.73023e-07	0.999999
rad35	2.93770e-07	1.000000	2.93770e-07	1.000000
Ph+Allene	2.22659e-07	1.000000	2.22659e-07	1.000000
PhCH2CCH+H	2.93551e-08	1.000000	2.93551e-08	1.000000
PAH7+H	2.74320e-08	1.000000	2.74320e-08	1.000000
rad39	7.74204e-09	1.000000	7.74204e-09	1.000000
rad37	7.30375e-09	1.000000	7.30375e-09	1.000000
rad30	5.53888e-09	1.000000	5.53888e-09	1.000000
PAH9+H	3.99479e-10	1.000000	3.99479e-10	1.000000
rad38	1.75886e-10	1.000000	1.75886e-10	1.000000
rad60syn	2.76144e-11	1.000000	2.76144e-11	1.000000
PAH10+CH3	1.41941e-11	1.000000	1.41941e-11	1.000000
rad60anti	1.36504e-11	1.000000	1.36504e-11	1.000000
PAH3+H	1.30742e-11	1.000000	1.30742e-11	1.000000
rad46	1.09703e-11	1.000000	1.09703e-11	1.000000
Benzene+cycloprop-1-enylidene	6.00677e-12	1.000000	6.00677e-12	1.000000

PhcycC3H3_A+H	3.69543e-12	1.000000	3.69543e-12	1.000000
rad59	2.64125e-12	1.000000	2.64125e-12	1.000000
rad43	5.94444e-13	1.000000	5.94444e-13	1.000000
rad54	5.21918e-13	1.000000	5.21918e-13	1.000000
rad62	1.30793e-13	1.000000	1.30793e-13	1.000000
rad50	9.26894e-14	1.000000	9.26894e-14	1.000000
Phenyl+cycC3H4	1.75978e-14	1.000000	0.000000	1.000000
rad70	1.06600e-14	1.000000	1.06600e-14	1.000000
rad55	4.71984e-15	1.000000	4.71984e-15	1.000000
PAH1+H	3.02078e-15	1.000000	3.02078e-15	1.000000
PhcycC3H3_B+H	1.95210e-15	1.000000	1.95210e-15	1.000000
rad52	7.09401e-16	1.000000	7.09401e-16	1.000000
rad58	2.89095e-16	1.000000	2.89095e-16	1.000000
rad51	2.17207e-16	1.000000	2.17207e-16	1.000000
rad34	1.62989e-16	1.000000	1.62989e-16	1.000000
rad41	2.94364e-17	1.000000	2.94364e-17	1.000000
rad42	2.32499e-17	1.000000	2.32499e-17	1.000000
rad65	4.78936e-18	1.000000	4.78936e-18	1.000000
rad53	2.52918e-20	1.000000	2.52918e-20	1.000000
rad64	2.62059e-21	1.000000	2.62059e-21	1.000000
rad61	3.06689e-23	1.000000	3.06689e-23	1.000000
rad56	6.80093e-25	1.000000	6.80093e-25	1.000000
rad68syn	4.60297e-26	1.000000	4.60297e-26	1.000000
rad68anti	3.68679e-26	1.000000	3.68679e-26	1.000000
rad6	9.82548e-28	1.000000	9.82548e-28	1.000000
rad40syn	7.53654e-30	1.000000	7.53654e-30	1.000000
rad40anti	5.95184e-30	1.000000	5.95184e-30	1.000000
rad28	5.09067e-30	1.000000	5.09067e-30	1.000000
rad26	3.75433e-30	1.000000	3.75433e-30	1.000000
rad47	6.17134e-31	1.000000	6.17134e-31	1.000000
rad73	5.47778e-31	1.000000	5.47778e-31	1.000000
rad2	5.43244e-31	1.000000	5.43244e-31	1.000000
rad7	7.19924e-32	1.000000	7.19924e-32	1.000000
PAH8+H	6.68141e-32	1.000000	6.68141e-32	1.000000
rad1	3.54527e-32	1.000000	3.54527e-32	1.000000
rad10	2.81709e-32	1.000000	2.81709e-32	1.000000
rad11	1.76774e-32	1.000000	1.76774e-32	1.000000
rad19anti	6.35586e-33	1.000000	6.35586e-33	1.000000
rad3	3.36243e-33	1.000000	3.36243e-33	1.000000
rad4	1.71162e-33	1.000000	1.71162e-33	1.000000
rad13	4.01166e-34	1.000000	4.01166e-34	1.000000
rad14	2.40850e-34	1.000000	2.40850e-34	1.000000
rad9	2.14330e-34	1.000000	2.14330e-34	1.000000
rad25	1.29042e-34	1.000000	1.29042e-34	1.000000
rad71	4.16930e-35	1.000000	4.16930e-35	1.000000
rad27	2.84920e-35	1.000000	2.84920e-35	1.000000
rad33	7.63309e-37	1.000000	7.63309e-37	1.000000
rad5	5.45915e-37	1.000000	5.45915e-37	1.000000
rad31	1.04805e-37	1.000000	1.04805e-37	1.000000
rad15	9.40260e-38	1.000000	9.40260e-38	1.000000
rad20	2.40540e-41	1.000000	2.40540e-41	1.000000
rad21	1.99653e-41	1.000000	1.99653e-41	1.000000
rad19syn	4.98180e-42	1.000000	4.98180e-42	1.000000
rad23	2.12506e-42	1.000000	2.12506e-42	1.000000
rad12	1.85504e-42	1.000000	1.85504e-42	1.000000
rad18	1.52592e-43	1.000000	1.52592e-43	1.000000
rad45	1.37481e-44	1.000000	1.37481e-44	1.000000
rad22	4.70040e-45	1.000000	4.70040e-45	1.000000
rad36	8.43782e-46	1.000000	8.43782e-46	1.000000
rad24	8.18794e-47	1.000000	8.18794e-47	1.000000
rad8	8.48096e-64	1.000000	8.48096e-64	1.000000

0.100000000E-04 Pa, 150.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.34137e-15 (1.00)	6.34137e-15 (1.00)
Formation of rad19	6.34135e-15 (1.000)	6.34135e-15 (1.000)
H-abstraction to cyc2enyl	1.81685e-20 (2.87e-06)	1.81685e-20 (2.87e-06)
H-abstraction to cyclenyl	2.23765e-25 (3.53e-11)	2.23765e-25 (3.53e-11)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999692	0.999692	0.999692	0.999692
PhCHCCH2+H	0.000289592	0.999982	0.000289592	0.999982
PhCCH+CH3	5.11623e-06	0.999987	5.11623e-06	0.999987
C2H2+PhCH2	3.86834e-06	0.999991	3.86834e-06	0.999991
PhCCCH3+H	2.96768e-06	0.999994	2.96768e-06	0.999994
Benzene+cycloprop-2-enylidene	2.86508e-06	0.999997	2.86508e-06	0.999997
Ph+MeAc	2.36224e-06	0.999999	2.36224e-06	0.999999

rad67	7.01968e-07	1.000000	7.01968e-07	1.000000
rad35	3.05869e-07	1.000000	3.05869e-07	1.000000
Ph+Allene	2.36597e-07	1.000000	2.36597e-07	1.000000
PhCH2CCH+H	3.15145e-08	1.000000	3.15145e-08	1.000000
PAH7+H	2.88839e-08	1.000000	2.88839e-08	1.000000
rad39	8.15166e-09	1.000000	8.15166e-09	1.000000
rad37	7.71444e-09	1.000000	7.71444e-09	1.000000
rad30	5.77470e-09	1.000000	5.77470e-09	1.000000
PAH9+H	4.22009e-10	1.000000	4.22009e-10	1.000000
rad38	1.86918e-10	1.000000	1.86918e-10	1.000000
Benzene+cycloprop-1-enylidene	3.52865e-11	1.000000	3.52865e-11	1.000000
rad60syn	2.92988e-11	1.000000	2.92988e-11	1.000000
PAH10+CH3	1.59406e-11	1.000000	1.59406e-11	1.000000
rad60anti	1.45059e-11	1.000000	1.45059e-11	1.000000
PAH3+H	1.41865e-11	1.000000	1.41865e-11	1.000000
rad46	1.17105e-11	1.000000	1.17105e-11	1.000000
PhcycC3H3_A+H	4.70694e-12	1.000000	4.70694e-12	1.000000
rad59	2.85583e-12	1.000000	2.85583e-12	1.000000
rad43	6.57518e-13	1.000000	6.57518e-13	1.000000
rad54	5.85443e-13	1.000000	5.85443e-13	1.000000
rad62	1.45031e-13	1.000000	1.45031e-13	1.000000
rad50	1.02199e-13	1.000000	1.02199e-13	1.000000
Phenyl+cycC3H4	2.61242e-14	1.000000	0.000000	1.000000
rad70	1.23994e-14	1.000000	1.23994e-14	1.000000
rad55	5.49291e-15	1.000000	5.49291e-15	1.000000
PhcycC3H3_B+H	4.08980e-15	1.000000	4.08980e-15	1.000000
PAH1+H	3.71110e-15	1.000000	3.71110e-15	1.000000
rad52	8.01984e-16	1.000000	8.01984e-16	1.000000
rad58	3.41820e-16	1.000000	3.41820e-16	1.000000
rad51	2.53177e-16	1.000000	2.53177e-16	1.000000
rad34	2.00907e-16	1.000000	2.00907e-16	1.000000
rad41	3.81682e-17	1.000000	3.81682e-17	1.000000
rad42	2.93832e-17	1.000000	2.93832e-17	1.000000
rad65	5.66163e-18	1.000000	5.66163e-18	1.000000
rad53	5.02098e-20	1.000000	5.02098e-20	1.000000
rad64	6.27503e-21	1.000000	6.27503e-21	1.000000
rad61	1.25963e-22	1.000000	1.25963e-22	1.000000
rad56	3.47178e-24	1.000000	3.47178e-24	1.000000
rad68syn	2.64356e-25	1.000000	2.64356e-25	1.000000
rad68anti	2.10658e-25	1.000000	2.10658e-25	1.000000
rad6	8.14647e-28	1.000000	8.14647e-28	1.000000
rad40syn	8.88016e-29	1.000000	8.88016e-29	1.000000
rad40anti	7.03998e-29	1.000000	7.03998e-29	1.000000
rad73	5.47735e-30	1.000000	5.47735e-30	1.000000
rad28	4.28962e-30	1.000000	4.28962e-30	1.000000
rad26	3.31571e-30	1.000000	3.31571e-30	1.000000
PAH8+H	1.26388e-30	1.000000	1.26388e-30	1.000000
rad47	6.13969e-31	1.000000	6.13969e-31	1.000000
rad2	5.42113e-31	1.000000	5.42113e-31	1.000000
rad7	5.98005e-32	1.000000	5.98005e-32	1.000000
rad1	3.55565e-32	1.000000	3.55565e-32	1.000000
rad10	2.81479e-32	1.000000	2.81479e-32	1.000000
rad11	1.46890e-32	1.000000	1.46890e-32	1.000000
rad19anti	1.44032e-32	1.000000	1.44032e-32	1.000000
rad3	3.30555e-33	1.000000	3.30555e-33	1.000000
rad4	1.68487e-33	1.000000	1.68487e-33	1.000000
rad71	9.41848e-34	1.000000	9.41848e-34	1.000000
rad13	3.33637e-34	1.000000	3.33637e-34	1.000000
rad9	2.43116e-34	1.000000	2.43116e-34	1.000000
rad14	2.36293e-34	1.000000	2.36293e-34	1.000000
rad25	1.28689e-34	1.000000	1.28689e-34	1.000000
rad27	2.87121e-35	1.000000	2.87121e-35	1.000000
rad33	6.36295e-37	1.000000	6.36295e-37	1.000000
rad5	4.89824e-37	1.000000	4.89824e-37	1.000000
rad31	1.96279e-37	1.000000	1.96279e-37	1.000000
rad15	1.06844e-37	1.000000	1.06844e-37	1.000000
rad20	2.67727e-41	1.000000	2.67727e-41	1.000000
rad21	2.24594e-41	1.000000	2.24594e-41	1.000000
rad19syn	1.23836e-41	1.000000	1.23836e-41	1.000000
rad23	3.67339e-42	1.000000	3.67339e-42	1.000000
rad12	2.35416e-42	1.000000	2.35416e-42	1.000000
rad18	1.58339e-43	1.000000	1.58339e-43	1.000000
rad45	2.38338e-44	1.000000	2.38338e-44	1.000000
rad22	4.26687e-45	1.000000	4.26687e-45	1.000000
rad36	1.46452e-45	1.000000	1.46452e-45	1.000000
rad24	1.08020e-46	1.000000	1.08020e-46	1.000000
rad8	1.27614e-63	1.000000	1.27614e-63	1.000000

0.100000000E-04 Pa, 160.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.84423e-15 (1.00)	7.84423e-15 (1.00)
Formation of rad19	7.84418e-15 (1.000)	7.84418e-15 (1.000)
H-abstraction to cyc2enyl	5.05321e-20 (6.44e-06)	5.05321e-20 (6.44e-06)
H-abstraction to cyc1enyl	1.29479e-24 (1.65e-10)	1.29479e-24 (1.65e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999679	0.999679	0.999679	0.999679
PhCHCCH2+H	0.000298982	0.999978	0.000298982	0.999978
Benzene+cycloprop-2-enylidene	6.44194e-06	0.999984	6.44194e-06	0.999984
PhCCH+CH3	5.29275e-06	0.999989	5.29275e-06	0.999989
C2H2+PhCH2	4.03297e-06	0.999993	4.03297e-06	0.999993
PhCCCH3+H	3.08198e-06	0.999996	3.08198e-06	0.999996
Ph+MeAc	2.47440e-06	0.999999	2.47440e-06	0.999999
rad67	7.33696e-07	1.000000	7.33696e-07	1.000000
rad35	3.19106e-07	1.000000	3.19106e-07	1.000000
Ph+Allene	2.52225e-07	1.000000	2.52225e-07	1.000000
PhCH2CCH+H	3.39642e-08	1.000000	3.39642e-08	1.000000
PAH7+H	3.04941e-08	1.000000	3.04941e-08	1.000000
rad39	8.60566e-09	1.000000	8.60566e-09	1.000000
rad37	8.17136e-09	1.000000	8.17136e-09	1.000000
rad30	6.03351e-09	1.000000	6.03351e-09	1.000000
PAH9+H	4.47144e-10	1.000000	4.47144e-10	1.000000
rad38	1.99330e-10	1.000000	1.99330e-10	1.000000
Benzene+cycloprop-1-enylidene	1.65062e-10	1.000000	1.65062e-10	1.000000
rad60syn	3.11859e-11	1.000000	3.11859e-11	1.000000
PAH10+CH3	1.80192e-11	1.000000	1.80192e-11	1.000000
rad60anti	1.54660e-11	1.000000	1.54660e-11	1.000000
PAH3+H	1.54653e-11	1.000000	1.54653e-11	1.000000
rad46	1.25466e-11	1.000000	1.25466e-11	1.000000
PhcycC3H3_A+H	6.04093e-12	1.000000	6.04093e-12	1.000000
rad59	3.10145e-12	1.000000	3.10145e-12	1.000000
rad43	7.31201e-13	1.000000	7.31201e-13	1.000000
rad54	6.61019e-13	1.000000	6.61019e-13	1.000000
rad62	1.61671e-13	1.000000	1.61671e-13	1.000000
rad50	1.13351e-13	1.000000	1.13351e-13	1.000000
Phenyl+cycC3H4	3.86829e-14	1.000000	0.000000	1.000000
rad70	1.45456e-14	1.000000	1.45456e-14	1.000000
PhcycC3H3_B+H	8.12740e-15	1.000000	8.12740e-15	1.000000
rad55	6.44667e-15	1.000000	6.44667e-15	1.000000
PAH1+H	4.60688e-15	1.000000	4.60688e-15	1.000000
rad52	9.13579e-16	1.000000	9.13579e-16	1.000000
rad58	4.08006e-16	1.000000	4.08006e-16	1.000000
rad51	2.97956e-16	1.000000	2.97956e-16	1.000000
rad34	2.50278e-16	1.000000	2.50278e-16	1.000000
rad41	4.99159e-17	1.000000	4.99159e-17	1.000000
rad42	3.74398e-17	1.000000	3.74398e-17	1.000000
rad65	6.76163e-18	1.000000	6.76163e-18	1.000000
rad53	9.55509e-20	1.000000	9.55509e-20	1.000000
rad64	1.40203e-20	1.000000	1.40203e-20	1.000000
rad61	4.46330e-22	1.000000	4.46330e-22	1.000000
rad56	1.48090e-23	1.000000	1.48090e-23	1.000000
rad68syn	1.24419e-24	1.000000	1.24419e-24	1.000000
rad68anti	9.86155e-25	1.000000	9.86155e-25	1.000000
rad40syn	7.79816e-28	1.000000	7.79816e-28	1.000000
rad6	6.97939e-28	1.000000	6.97939e-28	1.000000
rad40anti	6.20621e-28	1.000000	6.20621e-28	1.000000
rad73	4.23082e-29	1.000000	4.23082e-29	1.000000
PAH8+H	1.68146e-29	1.000000	1.68146e-29	1.000000
rad28	3.67467e-30	1.000000	3.67467e-30	1.000000
rad26	2.98010e-30	1.000000	2.98010e-30	1.000000
rad47	6.18326e-31	1.000000	6.18326e-31	1.000000
rad2	5.95428e-31	1.000000	5.95428e-31	1.000000
rad7	5.13316e-32	1.000000	5.13316e-32	1.000000
rad1	3.92670e-32	1.000000	3.92670e-32	1.000000
rad19anti	3.44722e-32	1.000000	3.44722e-32	1.000000
rad10	3.09642e-32	1.000000	3.09642e-32	1.000000
rad71	1.46142e-32	1.000000	1.46142e-32	1.000000
rad11	1.26134e-32	1.000000	1.26134e-32	1.000000
rad3	3.57104e-33	1.000000	3.57104e-33	1.000000
rad4	1.82281e-33	1.000000	1.82281e-33	1.000000
rad13	2.86755e-34	1.000000	2.86755e-34	1.000000
rad9	2.83617e-34	1.000000	2.83617e-34	1.000000
rad14	2.33828e-34	1.000000	2.33828e-34	1.000000
rad25	1.29466e-34	1.000000	1.29466e-34	1.000000
rad27	2.92421e-35	1.000000	2.92421e-35	1.000000
rad33	5.48307e-37	1.000000	5.48307e-37	1.000000
rad5	4.43592e-37	1.000000	4.43592e-37	1.000000

rad31	3.84794e-37	1.00000	3.84794e-37	1.00000
rad15	1.24872e-37	1.00000	1.24872e-37	1.00000
rad19syn	3.23538e-41	1.00000	3.23538e-41	1.00000
rad20	3.04449e-41	1.00000	3.04449e-41	1.00000
rad21	2.58117e-41	1.00000	2.58117e-41	1.00000
rad23	7.02384e-42	1.00000	7.02384e-42	1.00000
rad12	3.10954e-42	1.00000	3.10954e-42	1.00000
rad18	1.66399e-43	1.00000	1.66399e-43	1.00000
rad45	4.57447e-44	1.00000	4.57447e-44	1.00000
rad22	4.12990e-45	1.00000	4.12990e-45	1.00000
rad36	2.81495e-45	1.00000	2.81495e-45	1.00000
rad24	1.45450e-46	1.00000	1.45450e-46	1.00000
rad8	1.96347e-63	1.00000	1.96347e-63	1.00000

0.100000000E-04 Pa, 170.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.49598e-15 (1.00)	9.49598e-15 (1.00)
Formation of rad19	9.49586e-15 (1.000)	9.49586e-15 (1.000)
H-abstraction to cyc2enyl	1.24279e-19 (1.31e-05)	1.24279e-19 (1.31e-05)
H-abstraction to cyclenyl	6.08025e-24 (6.40e-10)	6.08025e-24 (6.40e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999661	0.999661	0.999661	0.999661
PhCHCCH2+H	0.000309167	0.999970	0.000309167	0.999970
Benzene+cycloprop-2-enylidene	1.30875e-05	0.999983	1.30875e-05	0.999983
PhCCH+CH3	5.48398e-06	0.999989	5.48398e-06	0.999989
C2H2+PhCH2	4.21347e-06	0.999993	4.21347e-06	0.999993
PhCCCH3+H	3.20659e-06	0.999996	3.20659e-06	0.999996
Ph+MeAc	2.59788e-06	0.999999	2.59788e-06	0.999999
rad67	7.68575e-07	0.999999	7.68575e-07	0.999999
rad35	3.33631e-07	1.000000	3.33631e-07	1.000000
Ph+Allene	2.69815e-07	1.000000	2.69815e-07	1.000000
PhCH2CCH+H	3.67553e-08	1.000000	3.67553e-08	1.000000
PAH7+H	3.22858e-08	1.000000	3.22858e-08	1.000000
rad39	9.11053e-09	1.000000	9.11053e-09	1.000000
rad37	8.68151e-09	1.000000	8.68151e-09	1.000000
rad30	6.31840e-09	1.000000	6.31840e-09	1.000000
Benzene+cycloprop-1-enylidene	6.40297e-10	1.000000	6.40297e-10	1.000000
PAH9+H	4.75293e-10	1.000000	4.75293e-10	1.000000
rad38	2.13351e-10	1.000000	2.13351e-10	1.000000
rad60syn	3.33085e-11	1.000000	3.33085e-11	1.000000
PAH10+CH3	2.05094e-11	1.000000	2.05094e-11	1.000000
PAH3+H	1.69431e-11	1.000000	1.69431e-11	1.000000
rad60anti	1.65480e-11	1.000000	1.65480e-11	1.000000
rad46	1.34952e-11	1.000000	1.34952e-11	1.000000
PhcycC3H3_A+H	7.80973e-12	1.000000	7.80973e-12	1.000000
rad59	3.38400e-12	1.000000	3.38400e-12	1.000000
rad43	8.17741e-13	1.000000	8.17741e-13	1.000000
rad54	7.51513e-13	1.000000	7.51513e-13	1.000000
rad62	1.81220e-13	1.000000	1.81220e-13	1.000000
rad50	1.26512e-13	1.000000	1.26512e-13	1.000000
Phenyl+cycC3H4	5.71891e-14	1.000000	0.000000	1.000000
rad70	1.72141e-14	1.000000	1.72141e-14	1.000000
PhcycC3H3_B+H	1.54798e-14	1.000000	1.54798e-14	1.000000
rad55	7.63213e-15	1.000000	7.63213e-15	1.000000
PAH1+H	5.77896e-15	1.000000	5.77896e-15	1.000000
rad52	1.04913e-15	1.000000	1.04913e-15	1.000000
rad58	4.91782e-16	1.000000	4.91782e-16	1.000000
rad51	3.54208e-16	1.000000	3.54208e-16	1.000000
rad34	3.15101e-16	1.000000	3.15101e-16	1.000000
rad41	6.58202e-17	1.000000	6.58202e-17	1.000000
rad42	4.80840e-17	1.000000	4.80840e-17	1.000000
rad65	8.16175e-18	1.000000	8.16175e-18	1.000000
rad53	1.76035e-19	1.000000	1.76035e-19	1.000000
rad64	2.96516e-20	1.000000	2.96516e-20	1.000000
rad61	1.40406e-21	1.000000	1.40406e-21	1.000000
rad56	5.46520e-23	1.000000	5.46520e-23	1.000000
rad68syn	4.98616e-24	1.000000	4.98616e-24	1.000000
rad68anti	3.92935e-24	1.000000	3.92935e-24	1.000000
rad40syn	5.38958e-27	1.000000	5.38958e-27	1.000000
rad40anti	4.30388e-27	1.000000	4.30388e-27	1.000000
rad6	6.22020e-28	1.000000	6.22020e-28	1.000000
rad73	2.64778e-28	1.000000	2.64778e-28	1.000000
PAH8+H	1.67789e-28	1.000000	1.67789e-28	1.000000
rad28	3.20123e-30	1.000000	3.20123e-30	1.000000
rad26	2.73226e-30	1.000000	2.73226e-30	1.000000
rad2	7.24347e-31	1.000000	7.24347e-31	1.000000

rad47	6.30333e-31	1.00000	6.30333e-31	1.00000
rad71	1.66935e-31	1.00000	1.66935e-31	1.00000
rad19anti	8.69992e-32	1.00000	8.69992e-32	1.00000
rad1	4.80537e-32	1.00000	4.80537e-32	1.00000
rad7	4.58386e-32	1.00000	4.58386e-32	1.00000
rad10	3.77069e-32	1.00000	3.77069e-32	1.00000
rad11	1.12682e-32	1.00000	1.12682e-32	1.00000
rad3	4.26828e-33	1.00000	4.26828e-33	1.00000
rad4	2.18215e-33	1.00000	2.18215e-33	1.00000
rad9	3.39804e-34	1.00000	3.39804e-34	1.00000
rad13	2.56415e-34	1.00000	2.56415e-34	1.00000
rad14	2.33245e-34	1.00000	2.33245e-34	1.00000
rad25	1.31294e-34	1.00000	1.31294e-34	1.00000
rad27	3.00876e-35	1.00000	3.00876e-35	1.00000
rad31	7.89307e-37	1.00000	7.89307e-37	1.00000
rad33	4.91687e-37	1.00000	4.91687e-37	1.00000
rad5	4.04910e-37	1.00000	4.04910e-37	1.00000
rad15	1.49893e-37	1.00000	1.49893e-37	1.00000
rad19syn	8.89196e-41	1.00000	8.89196e-41	1.00000
rad20	3.52887e-41	1.00000	3.52887e-41	1.00000
rad21	3.02375e-41	1.00000	3.02375e-41	1.00000
rad23	1.47557e-41	1.00000	1.47557e-41	1.00000
rad12	4.26908e-42	1.00000	4.26908e-42	1.00000
rad18	1.76878e-43	1.00000	1.76878e-43	1.00000
rad45	9.65770e-44	1.00000	9.65770e-44	1.00000
rad36	5.95339e-45	1.00000	5.95339e-45	1.00000
rad22	4.41374e-45	1.00000	4.41374e-45	1.00000
rad24	1.99788e-46	1.00000	1.99788e-46	1.00000
rad8	3.08694e-63	1.00000	3.08694e-63	1.00000

0.100000000E-04 Pa, 180.000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	1.12884e-14 (1.00)	1.12884e-14 (1.00)		
Formation of rad19	1.12881e-14 (1.000)	1.12881e-14 (1.000)		
H-abstraction to cyc2enyl	2.75916e-19 (2.44e-05)	2.75916e-19 (2.44e-05)		
H-abstraction to cyclenyl	2.39955e-23 (2.13e-09)	2.39955e-23 (2.13e-09)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999638	0.999638	0.999638	0.999638
PhCHCCH2+H	0.000320239	0.999958	0.000320239	0.999958
Benzene+cycloprop-2-enylidene	2.44424e-05	0.999982	2.44424e-05	0.999982
PhCCH+CH3	5.69151e-06	0.999988	5.69151e-06	0.999988
C2H2+PhCH2	4.41182e-06	0.999992	4.41182e-06	0.999992
PhCCCH3+H	3.34271e-06	0.999996	3.34271e-06	0.999996
Ph+MeAc	2.73412e-06	0.999998	2.73412e-06	0.999998
rad67	8.07010e-07	0.999999	8.07010e-07	0.999999
rad35	3.49603e-07	1.000000	3.49603e-07	1.000000
Ph+Allene	2.89684e-07	1.000000	2.89684e-07	1.000000
PhCH2CCH+H	3.99485e-08	1.000000	3.99485e-08	1.000000
PAH7+H	3.42855e-08	1.000000	3.42855e-08	1.000000
rad39	9.67358e-09	1.000000	9.67358e-09	1.000000
rad37	9.25289e-09	1.000000	9.25289e-09	1.000000
rad30	6.63280e-09	1.000000	6.63280e-09	1.000000
Benzene+cycloprop-1-enylidene	2.12567e-09	1.000000	2.12567e-09	1.000000
PAH9+H	5.06928e-10	1.000000	5.06928e-10	1.000000
rad38	2.29255e-10	1.000000	2.29255e-10	1.000000
rad60syn	3.57046e-11	1.000000	3.57046e-11	1.000000
PAH10+CH3	2.35102e-11	1.000000	2.35102e-11	1.000000
PAH3+H	1.86591e-11	1.000000	1.86591e-11	1.000000
rad60anti	1.77718e-11	1.000000	1.77718e-11	1.000000
rad46	1.45760e-11	1.000000	1.45760e-11	1.000000
PhcycC3H3_A+H	1.01655e-11	1.000000	1.01655e-11	1.000000
rad59	3.71052e-12	1.000000	3.71052e-12	1.000000
rad43	9.19879e-13	1.000000	9.19879e-13	1.000000
rad54	8.60521e-13	1.000000	8.60521e-13	1.000000
rad62	2.04291e-13	1.000000	2.04291e-13	1.000000
rad50	1.42141e-13	1.000000	1.42141e-13	1.000000
Phenyl+cycC3H4	8.44565e-14	1.000000	0.000000	1.000000
PhcycC3H3_B+H	2.84776e-14	1.000000	2.84776e-14	1.000000
rad70	2.05555e-14	1.000000	2.05555e-14	1.000000
rad55	9.11576e-15	1.000000	9.11576e-15	1.000000
PAH1+H	7.32392e-15	1.000000	7.32392e-15	1.000000
rad52	1.21498e-15	1.000000	1.21498e-15	1.000000
rad58	5.98635e-16	1.000000	5.98635e-16	1.000000
rad51	4.25484e-16	1.000000	4.25484e-16	1.000000
rad34	4.00856e-16	1.000000	4.00856e-16	1.000000
rad41	8.74643e-17	1.000000	8.74643e-17	1.000000

rad42	6.22156e-17	1.000000	6.22156e-17	1.000000
rad65	9.95946e-18	1.000000	9.95946e-18	1.000000
rad53	3.16149e-19	1.000000	3.16149e-19	1.000000
rad64	5.99924e-20	1.000000	5.99924e-20	1.000000
rad61	4.00801e-21	1.000000	4.00801e-21	1.000000
rad56	1.79227e-22	1.000000	1.79227e-22	1.000000
rad68syn	1.75240e-23	1.000000	1.75240e-23	1.000000
rad68anti	1.37247e-23	1.000000	1.37247e-23	1.000000
rad40syn	3.05803e-26	1.000000	3.05803e-26	1.000000
rad40anti	2.44831e-26	1.000000	2.44831e-26	1.000000
rad73	1.39313e-27	1.000000	1.39313e-27	1.000000
PAH8+H	1.32188e-27	1.000000	1.32188e-27	1.000000
rad6	5.83122e-28	1.000000	5.83122e-28	1.000000
rad28	2.84194e-30	1.000000	2.84194e-30	1.000000
rad26	2.56764e-30	1.000000	2.56764e-30	1.000000
rad71	1.48898e-30	1.000000	1.48898e-30	1.000000
rad2	9.70904e-31	1.000000	9.70904e-31	1.000000
rad47	6.50510e-31	1.000000	6.50510e-31	1.000000
rad19anti	2.31120e-31	1.000000	2.31120e-31	1.000000
rad1	6.48284e-32	1.000000	6.48284e-32	1.000000
rad10	5.06365e-32	1.000000	5.06365e-32	1.000000
rad7	4.30601e-32	1.000000	4.30601e-32	1.000000
rad11	1.05895e-32	1.000000	1.05895e-32	1.000000
rad3	5.62831e-33	1.000000	5.62831e-33	1.000000
rad4	2.88245e-33	1.000000	2.88245e-33	1.000000
rad9	4.17841e-34	1.000000	4.17841e-34	1.000000
rad13	2.41211e-34	1.000000	2.41211e-34	1.000000
rad14	2.34441e-34	1.000000	2.34441e-34	1.000000
rad25	1.34136e-34	1.000000	1.34136e-34	1.000000
rad27	3.12785e-35	1.000000	3.12785e-35	1.000000
rad31	1.69335e-36	1.000000	1.69335e-36	1.000000
rad33	4.63904e-37	1.000000	4.63904e-37	1.000000
rad5	3.72113e-37	1.000000	3.72113e-37	1.000000
rad15	1.84676e-37	1.000000	1.84676e-37	1.000000
rad19syn	2.57212e-40	1.000000	2.57212e-40	1.000000
rad20	4.16256e-41	1.000000	4.16256e-41	1.000000
rad21	3.60504e-41	1.000000	3.60504e-41	1.000000
rad23	3.39671e-41	1.000000	3.39671e-41	1.000000
rad12	6.08554e-42	1.000000	6.08554e-42	1.000000
rad45	2.23713e-43	1.000000	2.23713e-43	1.000000
rad18	1.90030e-43	1.000000	1.90030e-43	1.000000
rad36	1.38192e-44	1.000000	1.38192e-44	1.000000
rad22	5.52309e-45	1.000000	5.52309e-45	1.000000
rad24	2.79860e-46	1.000000	2.79860e-46	1.000000
rad8	4.95695e-63	1.000000	4.95695e-63	1.000000

0.100000000E-04 Pa, 190.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.32132e-14 (1.00)	1.32132e-14 (1.00)
Formation of rad19	1.32126e-14 (1.000)	1.32126e-14 (1.000)
H-abstraction to cyc2enyl	5.62053e-19 (4.25e-05)	5.62053e-19 (4.25e-05)
H-abstraction to cyclenyl	8.18073e-23 (6.19e-09)	8.18073e-23 (6.19e-09)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999606	0.999606	0.999606	0.999606
PhCHCCH2+H	0.000332293	0.999939	0.000332293	0.999939
Benzene+cycloprop-2-enylidene	4.25373e-05	0.999981	4.25373e-05	0.999981
PhCCH+CH3	5.91706e-06	0.999987	5.91706e-06	0.999987
C2H2+PhCH2	4.63023e-06	0.999992	4.63023e-06	0.999992
PhCCCH3+H	3.49167e-06	0.999995	3.49167e-06	0.999995
Ph+MeAc	2.88479e-06	0.999998	2.88479e-06	0.999998
rad67	8.49457e-07	0.999999	8.49457e-07	0.999999
rad35	3.67207e-07	0.999999	3.67207e-07	0.999999
Ph+Allene	3.12197e-07	1.000000	3.12197e-07	1.000000
PhCH2CCH+H	4.36150e-08	1.000000	4.36150e-08	1.000000
PAH7+H	3.65229e-08	1.000000	3.65229e-08	1.000000
rad39	1.03032e-08	1.000000	1.03032e-08	1.000000
rad37	9.89464e-09	1.000000	9.89464e-09	1.000000
rad30	6.98058e-09	1.000000	6.98058e-09	1.000000
Benzene+cycloprop-1-enylidene	6.19133e-09	1.000000	6.19133e-09	1.000000
PAH9+H	5.42589e-10	1.000000	5.42589e-10	1.000000
rad38	2.47359e-10	1.000000	2.47359e-10	1.000000
rad60syn	3.84183e-11	1.000000	3.84183e-11	1.000000
PAH10+CH3	2.71459e-11	1.000000	2.71459e-11	1.000000
PAH3+H	2.06610e-11	1.000000	2.06610e-11	1.000000
rad60anti	1.91607e-11	1.000000	1.91607e-11	1.000000
rad46	1.58119e-11	1.000000	1.58119e-11	1.000000

PhcycC3H3_A+H	1.33135e-11	1.000000	1.33135e-11	1.000000
rad59	4.08945e-12	1.000000	4.08945e-12	1.000000
rad43	1.04096e-12	1.000000	1.04096e-12	1.000000
rad54	9.92550e-13	1.000000	9.92550e-13	1.000000
rad62	2.31631e-13	1.000000	2.31631e-13	1.000000
rad50	1.60800e-13	1.000000	1.60800e-13	1.000000
Phenyl+cycC3H4	1.24603e-13	1.000000	0.000000	1.000000
PhcycC3H3_B+H	5.08976e-14	1.000000	5.08976e-14	1.000000
rad70	2.47657e-14	1.000000	2.47657e-14	1.000000
rad55	1.09840e-14	1.000000	1.09840e-14	1.000000
PAH1+H	9.37355e-15	1.000000	9.37355e-15	1.000000
rad52	1.41930e-15	1.000000	1.41930e-15	1.000000
rad58	7.35873e-16	1.000000	7.35873e-16	1.000000
rad51	5.16511e-16	1.000000	5.16511e-16	1.000000
rad34	5.15047e-16	1.000000	5.15047e-16	1.000000
rad41	1.17041e-16	1.000000	1.17041e-16	1.000000
rad42	8.10501e-17	1.000000	8.10501e-17	1.000000
rad65	1.22861e-17	1.000000	1.22861e-17	1.000000
rad53	5.56218e-19	1.000000	5.56218e-19	1.000000
rad64	1.17042e-19	1.000000	1.17042e-19	1.000000
rad61	1.05588e-20	1.000000	1.05588e-20	1.000000
rad56	5.33230e-22	1.000000	5.33230e-22	1.000000
rad68syn	5.52670e-23	1.000000	5.52670e-23	1.000000
rad68anti	4.30019e-23	1.000000	4.30019e-23	1.000000
rad40syn	1.47212e-25	1.000000	1.47212e-25	1.000000
rad40anti	1.18054e-25	1.000000	1.18054e-25	1.000000
PAH8+H	8.53886e-27	1.000000	8.53886e-27	1.000000
rad73	6.34252e-27	1.000000	6.34252e-27	1.000000
rad6	5.84094e-28	1.000000	5.84094e-28	1.000000
rad71	1.07847e-29	1.000000	1.07847e-29	1.000000
rad28	2.58296e-30	1.000000	2.58296e-30	1.000000
rad26	2.49327e-30	1.000000	2.49327e-30	1.000000
rad2	1.42214e-30	1.000000	1.42214e-30	1.000000
rad47	6.79801e-31	1.000000	6.79801e-31	1.000000
rad19anti	6.45013e-31	1.000000	6.45013e-31	1.000000
rad1	9.56278e-32	1.000000	9.56278e-32	1.000000
rad10	7.42758e-32	1.000000	7.42758e-32	1.000000
rad7	4.32232e-32	1.000000	4.32232e-32	1.000000
rad11	1.06342e-32	1.000000	1.06342e-32	1.000000
rad3	8.11407e-33	1.000000	8.11407e-33	1.000000
rad4	4.16340e-33	1.000000	4.16340e-33	1.000000
rad9	5.27540e-34	1.000000	5.27540e-34	1.000000
rad13	2.42483e-34	1.000000	2.42483e-34	1.000000
rad14	2.37423e-34	1.000000	2.37423e-34	1.000000
rad25	1.37992e-34	1.000000	1.37992e-34	1.000000
rad27	3.28775e-35	1.000000	3.28775e-35	1.000000
rad31	3.79763e-36	1.000000	3.79763e-36	1.000000
rad33	4.67670e-37	1.000000	4.67670e-37	1.000000
rad5	3.43977e-37	1.000000	3.43977e-37	1.000000
rad15	2.33632e-37	1.000000	2.33632e-37	1.000000
rad19syn	7.83212e-40	1.000000	7.83212e-40	1.000000
rad23	8.56081e-41	1.000000	8.56081e-41	1.000000
rad20	4.99189e-41	1.000000	4.99189e-41	1.000000
rad21	4.37014e-41	1.000000	4.37014e-41	1.000000
rad12	9.00062e-42	1.000000	9.00062e-42	1.000000
rad45	5.68829e-43	1.000000	5.68829e-43	1.000000
rad18	2.06308e-43	1.000000	2.06308e-43	1.000000
rad36	3.52233e-44	1.000000	3.52233e-44	1.000000
rad22	8.63369e-45	1.000000	8.63369e-45	1.000000
rad24	3.99735e-46	1.000000	3.99735e-46	1.000000
rad8	8.12781e-63	1.000000	8.12781e-63	1.000000

0.100000000E-04 Pa, 200.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.52621e-14 (1.00)	1.52621e-14 (1.00)
Formation of rad19	1.52610e-14 (1.000)	1.52610e-14 (1.000)
H-abstraction to cyc2enyl	1.06427e-18 (6.97e-05)	1.06427e-18 (6.97e-05)
H-abstraction to cyclenyl	2.46309e-22 (1.61e-08)	2.46309e-22 (1.61e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999565	0.999565	0.999565	0.999565
PhCHCCH2+H	0.000345433	0.999911	0.000345433	0.999911
Benzene+cycloprop-2-enylidene	6.97330e-05	0.999980	6.97330e-05	0.999980
PhCCH+CH3	6.16243e-06	0.999987	6.16243e-06	0.999987
C2H2+PhCH2	4.87109e-06	0.999991	4.87109e-06	0.999991
PhCCCH3+H	3.65492e-06	0.999995	3.65492e-06	0.999995
Ph+MeAc	3.05169e-06	0.999998	3.05169e-06	0.999998

rad67	8.96414e-07	0.999999	8.96414e-07	0.999999
rad35	3.86641e-07	0.999999	3.86641e-07	0.999999
Ph+Allene	3.37775e-07	1.000000	3.37775e-07	1.000000
PhCH2CCH+H	4.78388e-08	1.000000	4.78388e-08	1.000000
PAH7+H	3.90323e-08	1.000000	3.90323e-08	1.000000
Benzene+cycloprop-1-enylidene	1.61386e-08	1.000000	1.61386e-08	1.000000
rad39	1.10085e-08	1.000000	1.10085e-08	1.000000
rad37	1.06172e-08	1.000000	1.06172e-08	1.000000
rad30	7.36603e-09	1.000000	7.36603e-09	1.000000
PAH9+H	5.82902e-10	1.000000	5.82902e-10	1.000000
rad38	2.68036e-10	1.000000	2.68036e-10	1.000000
rad60syn	4.15004e-11	1.000000	4.15004e-11	1.000000
PAH10+CH3	3.15724e-11	1.000000	3.15724e-11	1.000000
PAH3+H	2.30055e-11	1.000000	2.30055e-11	1.000000
rad60anti	2.07415e-11	1.000000	2.07415e-11	1.000000
PhcycC3H3_A+H	1.75314e-11	1.000000	1.75314e-11	1.000000
rad46	1.72300e-11	1.000000	1.72300e-11	1.000000
rad59	4.53088e-12	1.000000	4.53088e-12	1.000000
rad43	1.18504e-12	1.000000	1.18504e-12	1.000000
rad54	1.15325e-12	1.000000	1.15325e-12	1.000000
rad62	2.64143e-13	1.000000	2.64143e-13	1.000000
Phenyl+cycC3H4	1.83626e-13	1.000000	0.00000	1.000000
rad50	1.83198e-13	1.000000	1.83198e-13	1.000000
PhcycC3H3_B+H	8.87690e-14	1.000000	8.87690e-14	1.000000
rad70	3.01009e-14	1.000000	3.01009e-14	1.000000
rad55	1.33495e-14	1.000000	1.33495e-14	1.000000
PAH1+H	1.21077e-14	1.000000	1.21077e-14	1.000000
rad52	1.67258e-15	1.000000	1.67258e-15	1.000000
rad58	9.13220e-16	1.000000	9.13220e-16	1.000000
rad34	6.67956e-16	1.000000	6.67956e-16	1.000000
rad51	6.33616e-16	1.000000	6.33616e-16	1.000000
rad41	1.57585e-16	1.000000	1.57585e-16	1.000000
rad42	1.06227e-16	1.000000	1.06227e-16	1.000000
rad65	1.53192e-17	1.000000	1.53192e-17	1.000000
rad53	9.61972e-19	1.000000	9.61972e-19	1.000000
rad64	2.21495e-19	1.000000	2.21495e-19	1.000000
rad61	2.60103e-20	1.000000	2.60103e-20	1.000000
rad56	1.46279e-21	1.000000	1.46279e-21	1.000000
rad68syn	1.59261e-22	1.000000	1.59261e-22	1.000000
rad68anti	1.23074e-22	1.000000	1.23074e-22	1.000000
rad40syn	6.17076e-25	1.000000	6.17076e-25	1.000000
rad40anti	4.95189e-25	1.000000	4.95189e-25	1.000000
PAH8+H	4.65852e-26	1.000000	4.65852e-26	1.000000
rad73	2.55582e-26	1.000000	2.55582e-26	1.000000
rad6	6.36771e-28	1.000000	6.36771e-28	1.000000
rad71	6.53613e-29	1.000000	6.53613e-29	1.000000
rad26	2.53200e-30	1.000000	2.53200e-30	1.000000
rad28	2.42359e-30	1.000000	2.42359e-30	1.000000
rad2	2.24436e-30	1.000000	2.24436e-30	1.000000
rad19anti	1.88665e-30	1.000000	1.88665e-30	1.000000
rad47	7.19641e-31	1.000000	7.19641e-31	1.000000
rad1	1.52074e-31	1.000000	1.52074e-31	1.000000
rad10	1.17425e-31	1.000000	1.17425e-31	1.000000
rad7	4.72242e-32	1.000000	4.72242e-32	1.000000
rad3	1.26095e-32	1.000000	1.26095e-32	1.000000
rad11	1.16239e-32	1.000000	1.16239e-32	1.000000
rad4	6.48350e-33	1.000000	6.48350e-33	1.000000
rad9	6.85423e-34	1.000000	6.85423e-34	1.000000
rad13	2.65339e-34	1.000000	2.65339e-34	1.000000
rad14	2.42324e-34	1.000000	2.42324e-34	1.000000
rad25	1.42900e-34	1.000000	1.42900e-34	1.000000
rad27	3.49985e-35	1.000000	3.49985e-35	1.000000
rad31	8.89692e-36	1.000000	8.89692e-36	1.000000
rad33	5.12969e-37	1.000000	5.12969e-37	1.000000
rad5	3.19586e-37	1.000000	3.19586e-37	1.000000
rad15	3.04185e-37	1.000000	3.04185e-37	1.000000
rad19syn	2.51002e-39	1.000000	2.51002e-39	1.000000
rad23	2.36048e-40	1.000000	2.36048e-40	1.000000
rad20	6.08405e-41	1.000000	6.08405e-41	1.000000
rad21	5.38428e-41	1.000000	5.38428e-41	1.000000
rad12	1.38070e-41	1.000000	1.38070e-41	1.000000
rad45	1.58502e-42	1.000000	1.58502e-42	1.000000
rad18	2.26453e-43	1.000000	2.26453e-43	1.000000
rad36	9.84255e-44	1.000000	9.84255e-44	1.000000
rad22	1.72719e-44	1.000000	1.72719e-44	1.000000
rad24	5.82218e-46	1.000000	5.82218e-46	1.000000
rad8	1.36072e-62	1.000000	1.36072e-62	1.000000

0.100000000E-04 Pa, 210.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.74272e-14 (1.00)	1.74272e-14 (1.00)
Formation of rad19	1.74253e-14 (1.000)	1.74253e-14 (1.000)
H-abstraction to cyc2enyl	1.89310e-18 (0.000109)	1.89310e-18 (0.000109)
H-abstraction to cyc1enyl	6.66714e-22 (3.83e-08)	6.66714e-22 (3.83e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999511	0.999511	0.999511	0.999511
PhCHCCH2+H	0.000359771	0.999871	0.000359771	0.999871
Benzene+cycloprop-2-enylidene	0.000108629	0.999980	0.000108629	0.999980
PhCCH+CH3	6.42954e-06	0.999986	6.42954e-06	0.999986
C2H2+PhCH2	5.13705e-06	0.999991	5.13705e-06	0.999991
PhCCCH3+H	3.83397e-06	0.999995	3.83397e-06	0.999995
Ph+MeAc	3.23682e-06	0.999998	3.23682e-06	0.999998
rad67	9.48433e-07	0.999999	9.48433e-07	0.999999
rad35	4.08123e-07	1.000000	4.08123e-07	1.000000
Ph+Allene	3.66908e-07	1.000000	3.66908e-07	1.000000
PhCH2CCH+H	5.27181e-08	1.000000	5.27181e-08	1.000000
PAH7+H	4.18516e-08	1.000000	4.18516e-08	1.000000
Benzene+cycloprop-1-enylidene	3.82571e-08	1.000000	3.82571e-08	1.000000
rad39	1.18003e-08	1.000000	1.18003e-08	1.000000
rad37	1.14322e-08	1.000000	1.14322e-08	1.000000
rad30	7.79386e-09	1.000000	7.79386e-09	1.000000
PAH9+H	6.28582e-10	1.000000	6.28582e-10	1.000000
rad38	2.91718e-10	1.000000	2.91718e-10	1.000000
rad60syn	4.50097e-11	1.000000	4.50097e-11	1.000000
PAH10+CH3	3.69848e-11	1.000000	3.69848e-11	1.000000
PAH3+H	2.57613e-11	1.000000	2.57613e-11	1.000000
PhcycC3H3_A+H	2.31914e-11	1.000000	2.31914e-11	1.000000
rad60anti	2.25454e-11	1.000000	2.25454e-11	1.000000
rad46	1.88621e-11	1.000000	1.88621e-11	1.000000
rad59	5.04686e-12	1.000000	5.04686e-12	1.000000
rad43	1.35708e-12	1.000000	1.35708e-12	1.000000
rad54	1.34969e-12	1.000000	1.34969e-12	1.000000
rad62	3.02921e-13	1.000000	3.02921e-13	1.000000
Phenyl+cycC3H4	2.70226e-13	1.000000	0.000000	1.000000
rad50	2.10210e-13	1.000000	2.10210e-13	1.000000
PhcycC3H3_B+H	1.51586e-13	1.000000	1.51586e-13	1.000000
rad70	3.68945e-14	1.000000	3.68945e-14	1.000000
rad55	1.63587e-14	1.000000	1.63587e-14	1.000000
PAH1+H	1.57712e-14	1.000000	1.57712e-14	1.000000
rad52	1.98838e-15	1.000000	1.98838e-15	1.000000
rad58	1.14364e-15	1.000000	1.14364e-15	1.000000
rad34	8.73662e-16	1.000000	8.73662e-16	1.000000
rad51	7.85266e-16	1.000000	7.85266e-16	1.000000
rad41	2.13280e-16	1.000000	2.13280e-16	1.000000
rad42	1.39947e-16	1.000000	1.39947e-16	1.000000
rad65	1.92990e-17	1.000000	1.92990e-17	1.000000
rad53	1.63949e-18	1.000000	1.63949e-18	1.000000
rad64	4.08413e-19	1.000000	4.08413e-19	1.000000
rad61	6.05363e-20	1.000000	6.05363e-20	1.000000
rad56	3.74745e-21	1.000000	3.74745e-21	1.000000
rad68syn	4.25367e-22	1.000000	4.25367e-22	1.000000
rad68anti	3.26442e-22	1.000000	3.26442e-22	1.000000
rad40syn	2.29907e-24	1.000000	2.29907e-24	1.000000
rad40anti	1.84461e-24	1.000000	1.84461e-24	1.000000
PAH8+H	2.19678e-25	1.000000	2.19678e-25	1.000000
rad73	9.27902e-26	1.000000	9.27902e-26	1.000000
rad6	7.68506e-28	1.000000	7.68506e-28	1.000000
rad71	3.39170e-28	1.000000	3.39170e-28	1.000000
rad19anti	5.76793e-30	1.000000	5.76793e-30	1.000000
rad2	3.77501e-30	1.000000	3.77501e-30	1.000000
rad26	2.73178e-30	1.000000	2.73178e-30	1.000000
rad28	2.37981e-30	1.000000	2.37981e-30	1.000000
rad47	7.72085e-31	1.000000	7.72085e-31	1.000000
rad1	2.57920e-31	1.000000	2.57920e-31	1.000000
rad10	1.97777e-31	1.000000	1.97777e-31	1.000000
rad7	5.71225e-32	1.000000	5.71225e-32	1.000000
rad3	2.08775e-32	1.000000	2.08775e-32	1.000000
rad11	1.40669e-32	1.000000	1.40669e-32	1.000000
rad4	1.07591e-32	1.000000	1.07591e-32	1.000000
rad9	9.22128e-34	1.000000	9.22128e-34	1.000000
rad13	3.21477e-34	1.000000	3.21477e-34	1.000000
rad14	2.49459e-34	1.000000	2.49459e-34	1.000000
rad25	1.48937e-34	1.000000	1.48937e-34	1.000000
rad27	3.78432e-35	1.000000	3.78432e-35	1.000000
rad31	2.17530e-35	1.000000	2.17530e-35	1.000000
rad33	6.22524e-37	1.000000	6.22524e-37	1.000000

rad15	4.10110e-37	1.00000	4.10110e-37	1.00000
rad5	2.98245e-37	1.00000	2.98245e-37	1.00000
rad19syn	8.46110e-39	1.00000	8.46110e-39	1.00000
rad23	7.10823e-40	1.00000	7.10823e-40	1.00000
rad20	7.53868e-41	1.00000	7.53868e-41	1.00000
rad21	6.74387e-41	1.00000	6.74387e-41	1.00000
rad12	2.19716e-41	1.00000	2.19716e-41	1.00000
rad45	4.84061e-42	1.00000	4.84061e-42	1.00000
rad36	3.01565e-43	1.00000	3.01565e-43	1.00000
rad18	2.51732e-43	1.00000	2.51732e-43	1.00000
rad22	4.26792e-44	1.00000	4.26792e-44	1.00000
rad24	8.64901e-46	1.00000	8.64901e-46	1.00000
rad8	2.32606e-62	1.00000	2.32606e-62	1.00000

0.100000000E-04 Pa, 220.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.97009e-14 (1.00)	1.97009e-14 (1.00)
Formation of rad19	1.96977e-14 (1.000)	1.96977e-14 (1.000)
H-abstraction to cyc2enyl	3.19064e-18 (0.000162)	3.19064e-18 (0.000162)
H-abstraction to cyclenyl	1.64627e-21 (8.36e-08)	1.64627e-21 (8.36e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999441	0.999441	0.999441	0.999441
PhCHCCH2+H	0.000375424	0.999816	0.000375424	0.999816
Benzene+cycloprop-2-enylidene	0.000161954	0.999978	0.000161954	0.999978
PhCCH+CH3	6.72039e-06	0.999985	6.72039e-06	0.999985
C2H2+PhCH2	5.43098e-06	0.999991	5.43098e-06	0.999991
PhCCCH3+H	4.03052e-06	0.999995	4.03052e-06	0.999995
Ph+MeAc	3.44236e-06	0.999998	3.44236e-06	0.999998
rad67	1.00612e-06	0.999999	1.00612e-06	0.999999
rad35	4.31892e-07	0.999999	4.31892e-07	0.999999
Ph+Allene	4.00151e-07	1.000000	4.00151e-07	1.000000
Benzene+cycloprop-1-enylidene	8.35632e-08	1.000000	8.35632e-08	1.000000
PhCH2CCH+H	5.83684e-08	1.000000	5.83684e-08	1.000000
PAH7+H	4.50238e-08	1.000000	4.50238e-08	1.000000
rad39	1.26902e-08	1.000000	1.26902e-08	1.000000
rad37	1.23532e-08	1.000000	1.23532e-08	1.000000
rad30	8.26934e-09	1.000000	8.26934e-09	1.000000
PAH9+H	6.80448e-10	1.000000	6.80448e-10	1.000000
rad38	3.18911e-10	1.000000	3.18911e-10	1.000000
rad60syn	4.90141e-11	1.000000	4.90141e-11	1.000000
PAH10+CH3	4.36275e-11	1.000000	4.36275e-11	1.000000
PhcycC3H3_A+H	3.07931e-11	1.000000	3.07931e-11	1.000000
PAH3+H	2.90111e-11	1.000000	2.90111e-11	1.000000
rad60anti	2.46085e-11	1.000000	2.46085e-11	1.000000
rad46	2.07451e-11	1.000000	2.07451e-11	1.000000
rad59	5.65179e-12	1.000000	5.65179e-12	1.000000
rad54	1.59075e-12	1.000000	1.59075e-12	1.000000
rad43	1.56310e-12	1.000000	1.56310e-12	1.000000
Phenyl+cycC3H4	3.96956e-13	1.000000	0.000000	1.000000
rad62	3.49289e-13	1.000000	3.49289e-13	1.000000
PhcycC3H3_B+H	2.54101e-13	1.000000	2.54101e-13	1.000000
rad50	2.42929e-13	1.000000	2.42929e-13	1.000000
rad70	4.55815e-14	1.000000	4.55815e-14	1.000000
PAH1+H	2.06978e-14	1.000000	2.06978e-14	1.000000
rad55	2.02024e-14	1.000000	2.02024e-14	1.000000
rad52	2.38419e-15	1.000000	2.38419e-15	1.000000
rad58	1.44438e-15	1.000000	1.44438e-15	1.000000
rad34	1.15142e-15	1.000000	1.15142e-15	1.000000
rad51	9.82813e-16	1.000000	9.82813e-16	1.000000
rad41	2.89888e-16	1.000000	2.89888e-16	1.000000
rad42	1.85167e-16	1.000000	1.85167e-16	1.000000
rad65	2.45505e-17	1.000000	2.45505e-17	1.000000
rad53	2.75829e-18	1.000000	2.75829e-18	1.000000
rad64	7.36242e-19	1.000000	7.36242e-19	1.000000
rad61	1.34204e-19	1.000000	1.34204e-19	1.000000
rad56	9.05590e-21	1.000000	9.05590e-21	1.000000
rad68syn	1.06496e-21	1.000000	1.06496e-21	1.000000
rad68anti	8.11645e-22	1.000000	8.11645e-22	1.000000
rad40syn	7.73817e-24	1.000000	7.73817e-24	1.000000
rad40anti	6.20298e-24	1.000000	6.20298e-24	1.000000
PAH8+H	9.11871e-25	1.000000	9.11871e-25	1.000000
rad73	3.07722e-25	1.000000	3.07722e-25	1.000000
rad71	1.53451e-27	1.000000	1.53451e-27	1.000000
rad6	1.03795e-27	1.000000	1.03795e-27	1.000000
rad19anti	1.83731e-29	1.000000	1.83731e-29	1.000000
rad2	6.70262e-30	1.000000	6.70262e-30	1.000000

rad26	3.18451e-30	1.00000	3.18451e-30	1.00000
rad28	2.49434e-30	1.00000	2.49434e-30	1.00000
rad47	8.39992e-31	1.00000	8.39992e-31	1.00000
rad1	4.62083e-31	1.00000	4.62083e-31	1.00000
rad10	3.51820e-31	1.00000	3.51820e-31	1.00000
rad7	7.73293e-32	1.00000	7.73293e-32	1.00000
rad3	3.64498e-32	1.00000	3.64498e-32	1.00000
rad11	1.90521e-32	1.00000	1.90521e-32	1.00000
rad4	1.88308e-32	1.00000	1.88308e-32	1.00000
rad9	1.30282e-33	1.00000	1.30282e-33	1.00000
rad13	4.35940e-34	1.00000	4.35940e-34	1.00000
rad14	2.59426e-34	1.00000	2.59426e-34	1.00000
rad25	1.56225e-34	1.00000	1.56225e-34	1.00000
rad31	5.54371e-35	1.00000	5.54371e-35	1.00000
rad27	4.17733e-35	1.00000	4.17733e-35	1.00000
rad33	8.44942e-37	1.00000	8.44942e-37	1.00000
rad15	5.80704e-37	1.00000	5.80704e-37	1.00000
rad5	2.79418e-37	1.00000	2.79418e-37	1.00000
rad19syn	2.99699e-38	1.00000	2.99699e-38	1.00000
rad23	2.33068e-39	1.00000	2.33068e-39	1.00000
rad20	9.50986e-41	1.00000	9.50986e-41	1.00000
rad21	8.59648e-41	1.00000	8.59648e-41	1.00000
rad12	3.63114e-41	1.00000	3.63114e-41	1.00000
rad45	1.61577e-41	1.00000	1.61577e-41	1.00000
rad36	1.01034e-42	1.00000	1.01034e-42	1.00000
rad18	2.84453e-43	1.00000	2.84453e-43	1.00000
rad22	1.23106e-43	1.00000	1.23106e-43	1.00000
rad24	1.31091e-45	1.00000	1.31091e-45	1.00000
rad8	4.06074e-62	1.00000	4.06074e-62	1.00000

0.100000000E-04 Pa, 230.000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	2.20761e-14 (1.00)	2.20761e-14 (1.00)		
Formation of rad19	2.20710e-14 (1.000)	2.20710e-14 (1.000)		
H-abstraction to cyc2enyl	5.13155e-18 (0.000232)	5.13155e-18 (0.000232)		
H-abstraction to cyclenyl	3.75316e-21 (1.70e-07)	3.75316e-21 (1.70e-07)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999352	0.999352	0.999352	0.999352
PhCHCCH2+H	0.000392520	0.999745	0.000392520	0.999745
Benzene+cycloprop-2-enylidene	0.000232448	0.999977	0.000232448	0.999977
PhCCH+CH3	7.03712e-06	0.999984	7.03712e-06	0.999984
C2H2+PhCH2	5.75601e-06	0.999990	5.75601e-06	0.999990
PhCCCH3+H	4.24633e-06	0.999994	4.24633e-06	0.999994
Ph+MeAc	3.67074e-06	0.999998	3.67074e-06	0.999998
rad67	1.07014e-06	0.999999	1.07014e-06	0.999999
rad35	4.58209e-07	1.000000	4.58209e-07	1.000000
Ph+Allene	4.38150e-07	1.000000	4.38150e-07	1.000000
Benzene+cycloprop-1-enylidene	1.70010e-07	1.000000	1.70010e-07	1.000000
PhCH2CCH+H	6.49255e-08	1.000000	6.49255e-08	1.000000
PAH7+H	4.85973e-08	1.000000	4.85973e-08	1.000000
rad39	1.36916e-08	1.000000	1.36916e-08	1.000000
rad37	1.33953e-08	1.000000	1.33953e-08	1.000000
rad30	8.79825e-09	1.000000	8.79825e-09	1.000000
PAH9+H	7.39443e-10	1.000000	7.39443e-10	1.000000
rad38	3.50209e-10	1.000000	3.50209e-10	1.000000
rad60syn	5.35915e-11	1.000000	5.35915e-11	1.000000
PAH10+CH3	5.18070e-11	1.000000	5.18070e-11	1.000000
PhcycC3H3_A+H	4.10038e-11	1.000000	4.10038e-11	1.000000
PAH3+H	3.28545e-11	1.000000	3.28545e-11	1.000000
rad60anti	2.69725e-11	1.000000	2.69725e-11	1.000000
rad46	2.29232e-11	1.000000	2.29232e-11	1.000000
rad59	6.36288e-12	1.000000	6.36288e-12	1.000000
rad54	1.88753e-12	1.000000	1.88753e-12	1.000000
rad43	1.81040e-12	1.000000	1.81040e-12	1.000000
Phenyl+cycC3H4	5.81829e-13	1.000000	0.000000	1.000000
PhcycC3H3_B+H	4.18958e-13	1.000000	4.18958e-13	1.000000
rad62	4.04843e-13	1.000000	4.04843e-13	1.000000
rad50	2.82714e-13	1.000000	2.82714e-13	1.000000
rad70	5.67286e-14	1.000000	5.67286e-14	1.000000
PAH1+H	2.73411e-14	1.000000	2.73411e-14	1.000000
rad55	2.51283e-14	1.000000	2.51283e-14	1.000000
rad52	2.88262e-15	1.000000	2.88262e-15	1.000000
rad58	1.83842e-15	1.000000	1.83842e-15	1.000000
rad34	1.52751e-15	1.000000	1.52751e-15	1.000000
rad51	1.24149e-15	1.000000	1.24149e-15	1.000000
rad41	3.95307e-16	1.000000	3.95307e-16	1.000000

rad42	2.45831e-16	1.00000	2.45831e-16	1.00000
rad65	3.15147e-17	1.00000	3.15147e-17	1.00000
rad53	4.58652e-18	1.00000	4.58652e-18	1.00000
rad64	1.30089e-18	1.00000	1.30089e-18	1.00000
rad61	2.85229e-19	1.00000	2.85229e-19	1.00000
rad56	2.08059e-20	1.00000	2.08059e-20	1.00000
rad68syn	2.52166e-21	1.00000	2.52166e-21	1.00000
rad68anti	1.90889e-21	1.00000	1.90889e-21	1.00000
rad40syn	2.38315e-23	1.00000	2.38315e-23	1.00000
rad40anti	1.90761e-23	1.00000	1.90761e-23	1.00000
PAH8+H	3.38041e-24	1.00000	3.38041e-24	1.00000
rad73	9.42054e-25	1.00000	9.42054e-25	1.00000
rad71	6.14189e-27	1.00000	6.14189e-27	1.00000
rad6	1.57378e-27	1.00000	1.57378e-27	1.00000
rad19anti	6.07591e-29	1.00000	6.07591e-29	1.00000
rad2	1.24828e-29	1.00000	1.24828e-29	1.00000
rad26	4.06306e-30	1.00000	4.06306e-30	1.00000
rad28	2.85980e-30	1.00000	2.85980e-30	1.00000
rad47	9.27306e-31	1.00000	9.27306e-31	1.00000
rad1	8.69001e-31	1.00000	8.69001e-31	1.00000
rad10	6.56471e-31	1.00000	6.56471e-31	1.00000
rad7	1.17531e-31	1.00000	1.17531e-31	1.00000
rad3	6.67578e-32	1.00000	6.67578e-32	1.00000
rad4	3.45820e-32	1.00000	3.45820e-32	1.00000
rad11	2.89712e-32	1.00000	2.89712e-32	1.00000
rad9	1.98990e-33	1.00000	1.98990e-33	1.00000
rad13	6.63763e-34	1.00000	6.63763e-34	1.00000
rad14	2.73315e-34	1.00000	2.73315e-34	1.00000
rad25	1.64949e-34	1.00000	1.64949e-34	1.00000
rad31	1.47017e-34	1.00000	1.47017e-34	1.00000
rad27	4.74567e-35	1.00000	4.74567e-35	1.00000
rad33	1.28707e-36	1.00000	1.28707e-36	1.00000
rad15	8.88981e-37	1.00000	8.88981e-37	1.00000
rad5	2.62689e-37	1.00000	2.62689e-37	1.00000
rad19syn	1.11381e-37	1.00000	1.11381e-37	1.00000
rad23	8.28594e-39	1.00000	8.28594e-39	1.00000
rad20	1.22515e-40	1.00000	1.22515e-40	1.00000
rad21	1.11811e-40	1.00000	1.11811e-40	1.00000
rad12	6.24922e-41	1.00000	6.24922e-41	1.00000
rad45	5.86974e-41	1.00000	5.86974e-41	1.00000
rad36	3.68572e-42	1.00000	3.68572e-42	1.00000
rad22	3.97205e-43	1.00000	3.97205e-43	1.00000
rad18	3.29279e-43	1.00000	3.29279e-43	1.00000
rad24	2.02844e-45	1.00000	2.02844e-45	1.00000
rad8	7.24169e-62	1.00000	7.24169e-62	1.00000

0.100000000E-04 Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.45462e-14 (1.00)	2.45462e-14 (1.00)
Formation of rad19	2.45383e-14 (1.000)	2.45383e-14 (1.000)
H-abstraction to cyc2enyl	7.92234e-18 (0.000323)	7.92234e-18 (0.000323)
H-abstraction to cyclenyl	7.97958e-21 (3.25e-07)	7.97958e-21 (3.25e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999241	0.999241	0.999241	0.999241
PhCHCCH2+H	0.000411192	0.999652	0.000411192	0.999652
Benzene+cycloprop-2-enylidene	0.000322752	0.999975	0.000322752	0.999975
PhCCH+CH3	7.38194e-06	0.999982	7.38194e-06	0.999982
C2H2+PhCH2	6.11553e-06	0.999989	6.11553e-06	0.999989
PhCCCH3+H	4.48334e-06	0.999993	4.48334e-06	0.999993
Ph+MeAc	3.92459e-06	0.999997	3.92459e-06	0.999997
rad67	1.14122e-06	0.999998	1.14122e-06	0.999998
rad35	4.87362e-07	0.999999	4.87362e-07	0.999999
Ph+Allene	4.81641e-07	0.999999	4.81641e-07	0.999999
Benzene+cycloprop-1-enylidene	3.25084e-07	0.999999	3.25084e-07	0.999999
PhCH2CCH+H	7.25479e-08	0.999999	7.25479e-08	0.999999
PAH7+H	5.26263e-08	0.999999	5.26263e-08	0.999999
rad39	1.48191e-08	0.999999	1.48191e-08	0.999999
rad37	1.45757e-08	1.000000	1.45757e-08	1.000000
rad30	9.38702e-09	1.000000	9.38702e-09	1.000000
PAH9+H	8.06648e-10	1.000000	8.06648e-10	1.000000
rad38	3.86297e-10	1.000000	3.86297e-10	1.000000
PAH10+CH3	6.19064e-11	1.000000	6.19064e-11	1.000000
rad60syn	5.88324e-11	1.000000	5.88324e-11	1.000000
PhcycC3H3_A+H	5.47108e-11	1.000000	5.47108e-11	1.000000
PAH3+H	3.74113e-11	1.000000	3.74113e-11	1.000000
rad60anti	2.96857e-11	1.000000	2.96857e-11	1.000000

rad46	2.54474e-11	1.000000	2.54474e-11	1.000000
rad59	7.20068e-12	1.000000	7.20068e-12	1.000000
rad54	2.25392e-12	1.000000	2.25392e-12	1.000000
rad43	2.10782e-12	1.000000	2.10782e-12	1.000000
Phenyl+cycC3H4	8.50545e-13	1.000000	0.00000	1.000000
PhcycC3H3_B+H	6.80482e-13	1.000000	6.80482e-13	1.000000
rad62	4.71505e-13	1.000000	4.71505e-13	1.000000
rad50	3.31266e-13	1.000000	3.31266e-13	1.000000
rad70	7.10726e-14	1.000000	7.10726e-14	1.000000
PAH1+H	3.63163e-14	1.000000	3.63163e-14	1.000000
rad55	3.14579e-14	1.000000	3.14579e-14	1.000000
rad52	3.51289e-15	1.000000	3.51289e-15	1.000000
rad58	2.35637e-15	1.000000	2.35637e-15	1.000000
rad34	2.03778e-15	1.000000	2.03778e-15	1.000000
rad51	1.58177e-15	1.000000	1.58177e-15	1.000000
rad41	5.40331e-16	1.000000	5.40331e-16	1.000000
rad42	3.27191e-16	1.000000	3.27191e-16	1.000000
rad65	4.07883e-17	1.000000	4.07883e-17	1.000000
rad53	7.54385e-18	1.000000	7.54385e-18	1.000000
rad64	2.25729e-18	1.000000	2.25729e-18	1.000000
rad61	5.84088e-19	1.000000	5.84088e-19	1.000000
rad56	4.57231e-20	1.000000	4.57231e-20	1.000000
rad68syn	5.68636e-21	1.000000	5.68636e-21	1.000000
rad68anti	4.27665e-21	1.000000	4.27665e-21	1.000000
rad40syn	6.78314e-23	1.000000	6.78314e-23	1.000000
rad40anti	5.41986e-23	1.000000	5.41986e-23	1.000000
PAH8+H	1.13224e-23	1.000000	1.13224e-23	1.000000
rad73	2.68346e-24	1.000000	2.68346e-24	1.000000
rad71	2.20097e-26	1.000000	2.20097e-26	1.000000
rad6	2.67484e-27	1.000000	2.67484e-27	1.000000
rad19anti	2.07742e-28	1.000000	2.07742e-28	1.000000
rad2	2.42951e-29	1.000000	2.42951e-29	1.000000
rad26	5.69525e-30	1.000000	5.69525e-30	1.000000
rad28	3.67170e-30	1.000000	3.67170e-30	1.000000
rad1	1.70928e-30	1.000000	1.70928e-30	1.000000
rad10	1.28018e-30	1.000000	1.28018e-30	1.000000
rad47	1.03946e-30	1.000000	1.03946e-30	1.000000
rad7	2.00252e-31	1.000000	2.00252e-31	1.000000
rad3	1.27547e-31	1.000000	1.27547e-31	1.000000
rad4	6.62661e-32	1.000000	6.62661e-32	1.000000
rad11	4.93858e-32	1.000000	4.93858e-32	1.000000
rad9	3.45148e-33	1.000000	3.45148e-33	1.000000
rad13	1.13306e-33	1.000000	1.13306e-33	1.000000
rad31	4.04874e-34	1.000000	4.04874e-34	1.000000
rad14	2.93119e-34	1.000000	2.93119e-34	1.000000
rad25	1.75401e-34	1.000000	1.75401e-34	1.000000
rad27	5.61654e-35	1.000000	5.61654e-35	1.000000
rad33	2.19783e-36	1.000000	2.19783e-36	1.000000
rad15	1.54558e-36	1.000000	1.54558e-36	1.000000
rad19syn	4.33470e-37	1.000000	4.33470e-37	1.000000
rad5	2.47731e-37	1.000000	2.47731e-37	1.000000
rad23	3.17799e-38	1.000000	3.17799e-38	1.000000
rad45	2.31466e-40	1.000000	2.31466e-40	1.000000
rad20	1.62235e-40	1.000000	1.62235e-40	1.000000
rad21	1.49181e-40	1.000000	1.49181e-40	1.000000
rad12	1.12614e-40	1.000000	1.12614e-40	1.000000
rad36	1.46028e-41	1.000000	1.46028e-41	1.000000
rad22	1.39841e-42	1.000000	1.39841e-42	1.000000
rad18	3.96673e-43	1.000000	3.96673e-43	1.000000
rad24	3.20758e-45	1.000000	3.20758e-45	1.000000
rad8	1.31972e-61	1.000000	1.31972e-61	1.000000

0.100000000E-04 Pa, 250.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.71048e-14 (1.00)	2.71048e-14 (1.00)
Formation of rad19	2.70930e-14 (1.000)	2.70930e-14 (1.000)
H-abstraction to cyc2enyl	1.17991e-17 (0.000435)	1.17991e-17 (0.000435)
H-abstraction to cyclenyl	1.59554e-20 (5.89e-07)	1.59554e-20 (5.89e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999107	0.999107	0.999107	0.999107
Benzene+cycloprop-2-enylidene	0.000435312	0.999543	0.000435312	0.999543
PhCHCCH2+H	0.000431584	0.999974	0.000431584	0.999974
PhCCH+CH3	7.75719e-06	0.999982	7.75719e-06	0.999982
C2H2+PhCH2	6.51326e-06	0.999988	6.51326e-06	0.999988
PhCCCH3+H	4.74360e-06	0.999993	4.74360e-06	0.999993
Ph+MeAc	4.20682e-06	0.999997	4.20682e-06	0.999997

rad67	1.22017e-06	0.999999	1.22017e-06	0.999999
Benzene+cycloprop-1-enylidene	5.88656e-07	0.999999	5.88656e-07	0.999999
Ph+Allene	5.31473e-07	1.000000	5.31473e-07	1.000000
rad35	5.19665e-07	1.000000	5.19665e-07	1.000000
PhCH2CCH+H	8.14214e-08	1.000000	8.14214e-08	1.000000
PAH7+H	5.71716e-08	1.000000	5.71716e-08	1.000000
rad39	1.60894e-08	1.000000	1.60894e-08	1.000000
rad37	1.59138e-08	1.000000	1.59138e-08	1.000000
rad30	1.00427e-08	1.000000	1.00427e-08	1.000000
PAH9+H	8.83301e-10	1.000000	8.83301e-10	1.000000
rad38	4.27984e-10	1.000000	4.27984e-10	1.000000
PAH10+CH3	7.44048e-11	1.000000	7.44048e-11	1.000000
PhcycC3H3_A+H	7.30900e-11	1.000000	7.30900e-11	1.000000
rad60syn	6.48406e-11	1.000000	6.48406e-11	1.000000
PAH3+H	4.28259e-11	1.000000	4.28259e-11	1.000000
rad60anti	3.28040e-11	1.000000	3.28040e-11	1.000000
rad46	2.83781e-11	1.000000	2.83781e-11	1.000000
rad59	8.18974e-12	1.000000	8.18974e-12	1.000000
rad54	2.70727e-12	1.000000	2.70727e-12	1.000000
rad43	2.46610e-12	1.000000	2.46610e-12	1.000000
Phenyl+cycC3H4	1.23952e-12	1.000000	0.000000	1.000000
PhcycC3H3_B+H	1.09005e-12	1.000000	1.09005e-12	1.000000
rad62	5.51586e-13	1.000000	5.51586e-13	1.000000
rad50	3.90700e-13	1.000000	3.90700e-13	1.000000
rad70	8.95707e-14	1.000000	8.95707e-14	1.000000
PAH1+H	4.84544e-14	1.000000	4.84544e-14	1.000000
rad55	3.96079e-14	1.000000	3.96079e-14	1.000000
rad52	4.31279e-15	1.000000	4.31279e-15	1.000000
rad58	3.03881e-15	1.000000	3.03881e-15	1.000000
rad34	2.73086e-15	1.000000	2.73086e-15	1.000000
rad51	2.03107e-15	1.000000	2.03107e-15	1.000000
rad41	7.39638e-16	1.000000	7.39638e-16	1.000000
rad42	4.36203e-16	1.000000	4.36203e-16	1.000000
rad65	5.31796e-17	1.000000	5.31796e-17	1.000000
rad53	1.22797e-17	1.000000	1.22797e-17	1.000000
rad64	3.85187e-18	1.000000	3.85187e-18	1.000000
rad61	1.15688e-18	1.000000	1.15688e-18	1.000000
rad56	9.65553e-20	1.000000	9.65553e-20	1.000000
rad68syn	1.22760e-20	1.000000	1.22760e-20	1.000000
rad68anti	9.17628e-21	1.000000	9.17628e-21	1.000000
rad40syn	1.79832e-22	1.000000	1.79832e-22	1.000000
rad40anti	1.43402e-22	1.000000	1.43402e-22	1.000000
PAH8+H	3.45930e-23	1.000000	3.45930e-23	1.000000
rad73	7.15481e-24	1.000000	7.15481e-24	1.000000
rad71	7.13356e-26	1.000000	7.13356e-26	1.000000
rad6	5.08160e-27	1.000000	5.08160e-27	1.000000
rad19anti	7.31049e-28	1.000000	7.31049e-28	1.000000
rad2	4.92481e-29	1.000000	4.92481e-29	1.000000
rad26	8.71394e-30	1.000000	8.71394e-30	1.000000
rad28	5.35101e-30	1.000000	5.35101e-30	1.000000
rad1	3.50452e-30	1.000000	3.50452e-30	1.000000
rad10	2.60033e-30	1.000000	2.60033e-30	1.000000
rad47	1.18402e-30	1.000000	1.18402e-30	1.000000
rad7	3.81403e-31	1.000000	3.81403e-31	1.000000
rad3	2.53614e-31	1.000000	2.53614e-31	1.000000
rad4	1.32185e-31	1.000000	1.32185e-31	1.000000
rad11	9.41034e-32	1.000000	9.41034e-32	1.000000
rad9	7.19267e-33	1.000000	7.19267e-33	1.000000
rad13	2.16233e-33	1.000000	2.16233e-33	1.000000
rad31	1.15497e-33	1.000000	1.15497e-33	1.000000
rad14	3.22535e-34	1.000000	3.22535e-34	1.000000
rad25	1.88068e-34	1.000000	1.88068e-34	1.000000
rad27	7.04058e-35	1.000000	7.04058e-35	1.000000
rad33	4.19661e-36	1.000000	4.19661e-36	1.000000
rad15	3.22875e-36	1.000000	3.22875e-36	1.000000
rad19syn	1.76219e-36	1.000000	1.76219e-36	1.000000
rad5	2.34284e-37	1.000000	2.34284e-37	1.000000
rad23	1.30772e-37	1.000000	1.30772e-37	1.000000
rad45	9.85437e-40	1.000000	9.85437e-40	1.000000
rad20	2.23651e-40	1.000000	2.23651e-40	1.000000
rad12	2.14599e-40	1.000000	2.14599e-40	1.000000
rad21	2.06365e-40	1.000000	2.06365e-40	1.000000
rad36	6.24969e-41	1.000000	6.24969e-41	1.000000
rad22	5.29556e-42	1.000000	5.29556e-42	1.000000
rad18	5.12636e-43	1.000000	5.12636e-43	1.000000
rad24	5.19345e-45	1.000000	5.19345e-45	1.000000
rad8	2.45881e-61	1.000000	2.45881e-61	1.000000

0.100000000E-04 Pa, 260.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.97464e-14 (1.00)	2.97464e-14 (1.00)
Formation of rad19	2.97293e-14 (0.999)	2.97293e-14 (0.999)
H-abstraction to cyc2enyl	1.70236e-17 (0.000572)	1.70236e-17 (0.000572)
H-abstraction to cyc1enyl	3.02186e-20 (1.02e-06)	3.02186e-20 (1.02e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998946	0.998946	0.998946	0.998946
Benzene+cycloprop-2-enylidene	0.000572291	0.999518	0.000572291	0.999518
PhCHCCH2+H	0.000453848	0.999972	0.000453848	0.999972
PhCCH+CH3	8.16529e-06	0.999980	8.16529e-06	0.999980
C2H2+PhCH2	6.95321e-06	0.999987	6.95321e-06	0.999987
PhCCCH3+H	5.02932e-06	0.999992	5.02932e-06	0.999992
Ph+MeAc	4.52059e-06	0.999997	4.52059e-06	0.999997
rad67	1.30786e-06	0.999998	1.30786e-06	0.999998
Benzene+cycloprop-1-enylidene	1.01588e-06	0.999999	1.01588e-06	0.999999
Ph+Allene	5.88618e-07	1.000000	5.88618e-07	1.000000
rad35	5.55458e-07	1.000000	5.55458e-07	1.000000
PhCH2CCH+H	9.17636e-08	1.000000	9.17636e-08	1.000000
PAH7+H	6.23016e-08	1.000000	6.23016e-08	1.000000
rad39	1.75209e-08	1.000000	1.75209e-08	1.000000
rad37	1.74317e-08	1.000000	1.74317e-08	1.000000
rad30	1.07732e-08	1.000000	1.07732e-08	1.000000
PAH9+H	9.70823e-10	1.000000	9.70823e-10	1.000000
rad38	4.76210e-10	1.000000	4.76210e-10	1.000000
PhcycC3H3_A+H	9.76900e-11	1.000000	9.76900e-11	1.000000
PAH10+CH3	8.98996e-11	1.000000	8.98996e-11	1.000000
rad60syn	7.17361e-11	1.000000	7.17361e-11	1.000000
PAH3+H	4.92719e-11	1.000000	4.92719e-11	1.000000
rad60anti	3.63918e-11	1.000000	3.63918e-11	1.000000
rad46	3.17862e-11	1.000000	3.17862e-11	1.000000
rad59	9.35934e-12	1.000000	9.35934e-12	1.000000
rad54	3.26922e-12	1.000000	3.26922e-12	1.000000
rad43	2.89822e-12	1.000000	2.89822e-12	1.000000
Phenyl+cycC3H4	1.79997e-12	1.000000	0.000000	1.000000
PhcycC3H3_B+H	1.72357e-12	1.000000	1.72357e-12	1.000000
rad62	6.47858e-13	1.000000	6.47858e-13	1.000000
rad50	4.63656e-13	1.000000	4.63656e-13	1.000000
rad70	1.13462e-13	1.000000	1.13462e-13	1.000000
PAH1+H	6.48746e-14	1.000000	6.48746e-14	1.000000
rad55	5.01162e-14	1.000000	5.01162e-14	1.000000
rad52	5.33109e-15	1.000000	5.33109e-15	1.000000
rad58	3.93954e-15	1.000000	3.93954e-15	1.000000
rad34	3.67252e-15	1.000000	3.67252e-15	1.000000
rad51	2.62615e-15	1.000000	2.62615e-15	1.000000
rad41	1.01308e-15	1.000000	1.01308e-15	1.000000
rad42	5.82033e-16	1.000000	5.82033e-16	1.000000
rad65	6.97793e-17	1.000000	6.97793e-17	1.000000
rad53	1.97860e-17	1.000000	1.97860e-17	1.000000
rad64	6.46998e-18	1.000000	6.46998e-18	1.000000
rad61	2.22252e-18	1.000000	2.22252e-18	1.000000
rad56	1.96583e-19	1.000000	1.96583e-19	1.000000
rad68syn	2.54704e-20	1.000000	2.54704e-20	1.000000
rad68anti	1.89312e-20	1.000000	1.89312e-20	1.000000
rad40syn	4.46797e-22	1.000000	4.46797e-22	1.000000
rad40anti	3.55555e-22	1.000000	3.55555e-22	1.000000
PAH8+H	9.71820e-23	1.000000	9.71820e-23	1.000000
rad73	1.79367e-23	1.000000	1.79367e-23	1.000000
rad71	2.10958e-25	1.000000	2.10958e-25	1.000000
rad6	1.07403e-26	1.000000	1.07403e-26	1.000000
rad19anti	2.63450e-27	1.000000	2.63450e-27	1.000000
rad2	1.03740e-28	1.000000	1.03740e-28	1.000000
rad26	1.43678e-29	1.000000	1.43678e-29	1.000000
rad28	8.83488e-30	1.000000	8.83488e-30	1.000000
rad1	7.47343e-30	1.000000	7.47343e-30	1.000000
rad10	5.48801e-30	1.000000	5.48801e-30	1.000000
rad47	1.37151e-30	1.000000	1.37151e-30	1.000000
rad7	8.08224e-31	1.000000	8.08224e-31	1.000000
rad3	5.23271e-31	1.000000	5.23271e-31	1.000000
rad4	2.73676e-31	1.000000	2.73676e-31	1.000000
rad11	1.99484e-31	1.000000	1.99484e-31	1.000000
rad9	1.84123e-32	1.000000	1.84123e-32	1.000000
rad13	4.59174e-33	1.000000	4.59174e-33	1.000000
rad31	3.40264e-33	1.000000	3.40264e-33	1.000000
rad14	3.68607e-34	1.000000	3.68607e-34	1.000000
rad25	2.03828e-34	1.000000	2.03828e-34	1.000000
rad27	9.52742e-35	1.000000	9.52742e-35	1.000000
rad33	8.91887e-36	1.000000	8.91887e-36	1.000000

rad15	8.28601e-36	1.00000	8.28601e-36	1.00000
rad19syn	7.46104e-36	1.00000	7.46104e-36	1.00000
rad23	5.73982e-37	1.00000	5.73982e-37	1.00000
rad5	2.22142e-37	1.00000	2.22142e-37	1.00000
rad45	4.50799e-39	1.00000	4.50799e-39	1.00000
rad12	4.39312e-40	1.00000	4.39312e-40	1.00000
rad20	3.28667e-40	1.00000	3.28667e-40	1.00000
rad21	3.02008e-40	1.00000	3.02008e-40	1.00000
rad36	2.87573e-40	1.00000	2.87573e-40	1.00000
rad22	2.13646e-41	1.00000	2.13646e-41	1.00000
rad18	7.47485e-43	1.00000	7.47485e-43	1.00000
rad24	8.64495e-45	1.00000	8.64495e-45	1.00000
rad8	4.68587e-61	1.00000	4.68587e-61	1.00000

0.100000000E-04 Pa, 270.000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	3.24655e-14 (1.00)	3.24655e-14 (1.00)		
Formation of rad19	3.24415e-14 (0.999)	3.24415e-14 (0.999)		
H-abstraction to cyc2enyl	2.38790e-17 (0.000736)	2.38790e-17 (0.000736)		
H-abstraction to cyclenyl	5.45397e-20 (1.68e-06)	5.45397e-20 (1.68e-06)		

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998755	0.998755	0.998755	0.998755
Benzene+cycloprop-2-enylidene	0.000735519	0.999491	0.000735519	0.999491
PhCHCCH2+H	0.000478146	0.999969	0.000478146	0.999969
PhCCH+CH3	8.60880e-06	0.999977	8.60880e-06	0.999977
C2H2+PhCH2	7.43973e-06	0.999985	7.43973e-06	0.999985
PhCCCH3+H	5.34286e-06	0.999990	5.34286e-06	0.999990
Ph+MeAc	4.86938e-06	0.999995	4.86938e-06	0.999995
Benzene+cycloprop-1-enylidene	1.67993e-06	0.999997	1.67993e-06	0.999997
rad67	1.40525e-06	0.999998	1.40525e-06	0.999998
Ph+Allene	6.54187e-07	0.999999	6.54187e-07	0.999999
rad35	5.95116e-07	0.999999	5.95116e-07	0.999999
PhCH2CCH+H	1.03828e-07	1.000000	1.03828e-07	1.000000
PAH7+H	6.80923e-08	1.000000	6.80923e-08	1.000000
rad37	1.91542e-08	1.000000	1.91542e-08	1.000000
rad39	1.91343e-08	1.000000	1.91343e-08	1.000000
rad30	1.15872e-08	1.000000	1.15872e-08	1.000000
PAH9+H	1.07084e-09	1.000000	1.07084e-09	1.000000
rad38	5.32068e-10	1.000000	5.32068e-10	1.000000
PhcycC3H3_A+H	1.30538e-10	1.000000	1.30538e-10	1.000000
PAH10+CH3	1.09134e-10	1.000000	1.09134e-10	1.000000
rad60syn	7.96566e-11	1.000000	7.96566e-11	1.000000
PAH3+H	5.69579e-11	1.000000	5.69579e-11	1.000000
rad60anti	4.05238e-11	1.000000	4.05238e-11	1.000000
rad46	3.57543e-11	1.000000	3.57543e-11	1.000000
rad59	1.07444e-11	1.000000	1.07444e-11	1.000000
rad54	3.96666e-12	1.000000	3.96666e-12	1.000000
rad43	3.41976e-12	1.000000	3.41976e-12	1.000000
PhcycC3H3_B+H	2.69151e-12	1.000000	2.69151e-12	1.000000
Phenyl+cycC3H4	2.60320e-12	1.000000	0.000000	1.000000
rad62	7.63634e-13	1.000000	7.63634e-13	1.000000
rad50	5.53420e-13	1.000000	5.53420e-13	1.000000
rad70	1.44343e-13	1.000000	1.44343e-13	1.000000
PAH1+H	8.70739e-14	1.000000	8.70739e-14	1.000000
rad55	6.36740e-14	1.000000	6.36740e-14	1.000000
rad52	6.63064e-15	1.000000	6.63064e-15	1.000000
rad58	5.12944e-15	1.000000	5.12944e-15	1.000000
rad34	4.95119e-15	1.000000	4.95119e-15	1.000000
rad51	3.41605e-15	1.000000	3.41605e-15	1.000000
rad41	1.38732e-15	1.000000	1.38732e-15	1.000000
rad42	7.76678e-16	1.000000	7.76678e-16	1.000000
rad65	9.20537e-17	1.000000	9.20537e-17	1.000000
rad53	3.15549e-17	1.000000	3.15549e-17	1.000000
rad64	1.07030e-17	1.000000	1.07030e-17	1.000000
rad61	4.14942e-18	1.000000	4.14942e-18	1.000000
rad56	3.86758e-19	1.000000	3.86758e-19	1.000000
rad68syn	5.09279e-20	1.000000	5.09279e-20	1.000000
rad68anti	3.76573e-20	1.000000	3.76573e-20	1.000000
rad40syn	1.04541e-21	1.000000	1.04541e-21	1.000000
rad40anti	8.30243e-22	1.000000	8.30243e-22	1.000000
PAH8+H	2.52772e-22	1.000000	2.52772e-22	1.000000
rad73	4.24307e-23	1.000000	4.24307e-23	1.000000
rad71	5.73648e-25	1.000000	5.73648e-25	1.000000
rad6	2.49996e-26	1.000000	2.49996e-26	1.000000
rad19anti	9.66952e-27	1.000000	9.66952e-27	1.000000
rad2	2.26627e-28	1.000000	2.26627e-28	1.000000

rad26	2.51767e-29	1.000000	2.51767e-29	1.000000
rad1	1.65433e-29	1.000000	1.65433e-29	1.000000
rad28	1.62758e-29	1.000000	1.62758e-29	1.000000
rad10	1.20109e-29	1.000000	1.20109e-29	1.000000
rad7	1.88627e-30	1.000000	1.88627e-30	1.000000
rad47	1.61684e-30	1.000000	1.61684e-30	1.000000
rad3	1.11975e-30	1.000000	1.11975e-30	1.000000
rad4	5.87832e-31	1.000000	5.87832e-31	1.000000
rad11	4.65653e-31	1.000000	4.65653e-31	1.000000
rad9	5.58811e-32	1.000000	5.58811e-32	1.000000
rad13	1.07401e-32	1.000000	1.07401e-32	1.000000
rad31	1.03174e-32	1.000000	1.03174e-32	1.000000
rad14	4.45097e-34	1.000000	4.45097e-34	1.000000
rad25	2.24435e-34	1.000000	2.24435e-34	1.000000
rad27	1.41442e-34	1.000000	1.41442e-34	1.000000
rad19syn	3.27847e-35	1.000000	3.27847e-35	1.000000
rad15	2.52130e-35	1.000000	2.52130e-35	1.000000
rad33	2.08820e-35	1.000000	2.08820e-35	1.000000
rad23	2.67097e-36	1.000000	2.67097e-36	1.000000
rad5	2.11137e-37	1.000000	2.11137e-37	1.000000
rad45	2.20792e-38	1.000000	2.20792e-38	1.000000
rad36	1.41757e-39	1.000000	1.41757e-39	1.000000
rad12	9.86353e-40	1.000000	9.86353e-40	1.000000
rad20	5.34596e-40	1.000000	5.34596e-40	1.000000
rad21	4.83581e-40	1.000000	4.83581e-40	1.000000
rad22	9.11296e-41	1.000000	9.11296e-41	1.000000
rad18	1.30343e-42	1.000000	1.30343e-42	1.000000
rad24	1.49317e-44	1.000000	1.49317e-44	1.000000
rad8	9.13969e-61	1.000000	9.13969e-61	1.000000

0.100000000E-04 Pa, 280.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.52572e-14 (1.00)	3.52572e-14 (1.00)
Formation of rad19	3.52244e-14 (0.999)	3.52244e-14 (0.999)
H-abstraction to cyc2enyl	3.26639e-17 (0.000926)	3.26639e-17 (0.000926)
H-abstraction to cyclenyl	9.42926e-20 (2.67e-06)	9.42926e-20 (2.67e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998535	0.998535	0.998535	0.998535
Benzene+cycloprop-2-enylidene	0.000926445	0.999462	0.000926445	0.999462
PhCHCCH2+H	0.000504654	0.999966	0.000504654	0.999966
PhCCH+CH3	9.09038e-06	0.999976	9.09038e-06	0.999976
C2H2+PhCH2	7.97755e-06	0.999984	7.97755e-06	0.999984
PhCCCH3+H	5.68676e-06	0.999989	5.68676e-06	0.999989
Ph+MeAc	5.25697e-06	0.999994	5.25697e-06	0.999994
Benzene+cycloprop-1-enylidene	2.67442e-06	0.999997	2.67442e-06	0.999997
rad67	1.51340e-06	0.999999	1.51340e-06	0.999999
Ph+Allene	7.29448e-07	0.999999	7.29448e-07	0.999999
rad35	6.39046e-07	1.00000	6.39046e-07	1.00000
PhCH2CCH+H	1.17909e-07	1.00000	1.17909e-07	1.00000
PAH7+H	7.46290e-08	1.00000	7.46290e-08	1.00000
rad37	2.11094e-08	1.00000	2.11094e-08	1.00000
rad39	2.09522e-08	1.00000	2.09522e-08	1.00000
rad30	1.24940e-08	1.00000	1.24940e-08	1.00000
PAH9+H	1.18522e-09	1.00000	1.18522e-09	1.00000
rad38	5.96837e-10	1.00000	5.96837e-10	1.00000
PhcycC3H3_A+H	1.74264e-10	1.00000	1.74264e-10	1.00000
PAH10+CH3	1.33029e-10	1.00000	1.33029e-10	1.00000
rad60syn	8.87606e-11	1.00000	8.87606e-11	1.00000
PAH3+H	6.61334e-11	1.00000	6.61334e-11	1.00000
rad60anti	4.52857e-11	1.00000	4.52857e-11	1.00000
rad46	4.03795e-11	1.00000	4.03795e-11	1.00000
rad59	1.23862e-11	1.00000	1.23862e-11	1.00000
rad54	4.83284e-12	1.00000	4.83284e-12	1.00000
PhcycC3H3_B+H	4.15199e-12	1.00000	4.15199e-12	1.00000
rad43	4.04946e-12	1.00000	4.04946e-12	1.00000
Phenyl+cycC3H4	3.74742e-12	1.00000	0.00000	1.00000
rad62	9.02853e-13	1.00000	9.02853e-13	1.00000
rad50	6.64060e-13	1.00000	6.64060e-13	1.00000
rad70	1.84259e-13	1.00000	1.84259e-13	1.00000
PAH1+H	1.17039e-13	1.00000	1.17039e-13	1.00000
rad55	8.11650e-14	1.00000	8.11650e-14	1.00000
rad52	8.29198e-15	1.00000	8.29198e-15	1.00000
rad58	6.70136e-15	1.00000	6.70136e-15	1.00000
rad34	6.68466e-15	1.00000	6.68466e-15	1.00000
rad51	4.46577e-15	1.00000	4.46577e-15	1.00000
rad41	1.89783e-15	1.00000	1.89783e-15	1.00000

rad42	1.03572e-15	1.00000	1.03572e-15	1.00000
rad65	1.21961e-16	1.00000	1.21961e-16	1.00000
rad53	4.97919e-17	1.00000	4.97919e-17	1.00000
rad64	1.74396e-17	1.00000	1.74396e-17	1.00000
rad61	7.53772e-18	1.00000	7.53772e-18	1.00000
rad56	7.36384e-19	1.00000	7.36384e-19	1.00000
rad68syn	9.83169e-20	1.00000	9.83169e-20	1.00000
rad68anti	7.23595e-20	1.00000	7.23595e-20	1.00000
rad40syn	2.31284e-21	1.00000	2.31284e-21	1.00000
rad40anti	1.83329e-21	1.00000	1.83329e-21	1.00000
PAH8+H	6.12419e-22	1.00000	6.12419e-22	1.00000
rad73	9.50003e-23	1.00000	9.50003e-23	1.00000
rad71	1.44434e-24	1.00000	1.44434e-24	1.00000
rad6	6.29673e-26	1.00000	6.29673e-26	1.00000
rad19anti	3.59339e-26	1.00000	3.59339e-26	1.00000
rad2	5.12096e-28	1.00000	5.12096e-28	1.00000
rad26	4.63368e-29	1.00000	4.63368e-29	1.00000
rad1	3.79156e-29	1.00000	3.79156e-29	1.00000
rad28	3.27267e-29	1.00000	3.27267e-29	1.00000
rad10	2.71827e-29	1.00000	2.71827e-29	1.00000
rad7	4.76383e-30	1.00000	4.76383e-30	1.00000
rad3	2.47673e-30	1.00000	2.47673e-30	1.00000
rad47	1.94125e-30	1.00000	1.94125e-30	1.00000
rad4	1.30543e-30	1.00000	1.30543e-30	1.00000
rad11	1.17596e-30	1.00000	1.17596e-30	1.00000
rad9	1.89186e-31	1.00000	1.89186e-31	1.00000
rad31	3.20738e-32	1.00000	3.20738e-32	1.00000
rad13	2.71882e-32	1.00000	2.71882e-32	1.00000
rad14	5.79550e-34	1.00000	5.79550e-34	1.00000
rad25	2.53646e-34	1.00000	2.53646e-34	1.00000
rad27	2.31847e-34	1.00000	2.31847e-34	1.00000
rad19syn	1.48909e-34	1.00000	1.48909e-34	1.00000
rad15	8.55870e-35	1.00000	8.55870e-35	1.00000
rad33	5.29123e-35	1.00000	5.29123e-35	1.00000
rad23	1.30951e-35	1.00000	1.30951e-35	1.00000
rad5	2.01133e-37	1.00000	2.01133e-37	1.00000
rad45	1.15022e-37	1.00000	1.15022e-37	1.00000
rad36	7.43729e-39	1.00000	7.43729e-39	1.00000
rad12	2.47676e-39	1.00000	2.47676e-39	1.00000
rad20	1.00418e-39	1.00000	1.00418e-39	1.00000
rad21	8.83720e-40	1.00000	8.83720e-40	1.00000
rad22	4.08108e-40	1.00000	4.08108e-40	1.00000
rad18	2.78443e-42	1.00000	2.78443e-42	1.00000
rad24	2.73290e-44	1.00000	2.73290e-44	1.00000
rad8	1.82566e-60	1.00000	1.82566e-60	1.00000

0.100000000E-04 Pa, 290.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.81171e-14 (1.00)	3.81171e-14 (1.00)
Formation of rad19	3.80733e-14 (0.999)	3.80733e-14 (0.999)
H-abstraction to cyc2enyl	4.36868e-17 (0.00115)	4.36868e-17 (0.00115)
H-abstraction to cyclenyl	1.56861e-19 (4.12e-06)	1.56861e-19 (4.12e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998282	0.998282	0.998282	0.998282
Benzene+cycloprop-2-enylidene	0.00114612	0.999429	0.00114612	0.999429
PhCHCCH2+H	0.000533552	0.999962	0.000533552	0.999962
PhCCH+CH3	9.61277e-06	0.999972	9.61277e-06	0.999972
C2H2+PhCH2	8.57172e-06	0.999980	8.57172e-06	0.999980
PhCCCH3+H	6.06370e-06	0.999986	6.06370e-06	0.999986
Ph+MeAc	5.68749e-06	0.999992	5.68749e-06	0.999992
Benzene+cycloprop-1-enylidene	4.11523e-06	0.999996	4.11523e-06	0.999996
rad67	1.63346e-06	0.999998	1.63346e-06	0.999998
Ph+Allene	8.15839e-07	0.999999	8.15839e-07	0.999999
rad35	6.87689e-07	0.999999	6.87689e-07	0.999999
PhCH2CCH+H	1.34349e-07	0.999999	1.34349e-07	0.999999
PAH7+H	8.20060e-08	0.999999	8.20060e-08	0.999999
rad37	2.33285e-08	1.000000	2.33285e-08	1.000000
rad39	2.30001e-08	1.000000	2.30001e-08	1.000000
rad30	1.35042e-08	1.000000	1.35042e-08	1.000000
PAH9+H	1.31607e-09	1.000000	1.31607e-09	1.000000
rad38	6.71987e-10	1.000000	6.71987e-10	1.000000
PhcycC3H3_A+H	2.32248e-10	1.000000	2.32248e-10	1.000000
PAH10+CH3	1.62717e-10	1.000000	1.62717e-10	1.000000
rad60syn	9.92285e-11	1.000000	9.92285e-11	1.000000
PAH3+H	7.70956e-11	1.000000	7.70956e-11	1.000000
rad60anti	5.07758e-11	1.000000	5.07758e-11	1.000000

rad46	4.57748e-11	1.000000	4.57748e-11	1.000000
rad59	1.43338e-11	1.000000	1.43338e-11	1.000000
PhcycC3H3_B+H	6.32701e-12	1.000000	6.32701e-12	1.000000
rad54	5.90859e-12	1.000000	5.90859e-12	1.000000
Phenyl+cycC3H4	5.36584e-12	1.000000	0.000000	1.000000
rad43	4.80968e-12	1.000000	4.80968e-12	1.000000
rad62	1.07018e-12	1.000000	1.07018e-12	1.000000
rad50	8.00596e-13	1.000000	8.00596e-13	1.000000
rad70	2.35807e-13	1.000000	2.35807e-13	1.000000
PAH1+H	1.57377e-13	1.000000	1.57377e-13	1.000000
rad55	1.03709e-13	1.000000	1.03709e-13	1.000000
rad52	1.04176e-14	1.000000	1.04176e-14	1.000000
rad34	9.02825e-15	1.000000	9.02825e-15	1.000000
rad58	8.77577e-15	1.000000	8.77577e-15	1.000000
rad51	5.86071e-15	1.000000	5.86071e-15	1.000000
rad41	2.59126e-15	1.000000	2.59126e-15	1.000000
rad42	1.37913e-15	1.000000	1.37913e-15	1.000000
rad65	1.62088e-16	1.000000	1.62088e-16	1.000000
rad53	7.76875e-17	1.000000	7.76875e-17	1.000000
rad64	2.79837e-17	1.000000	2.79837e-17	1.000000
rad61	1.33318e-17	1.000000	1.33318e-17	1.000000
rad56	1.35815e-18	1.000000	1.35815e-18	1.000000
rad68syn	1.83484e-19	1.000000	1.83484e-19	1.000000
rad68anti	1.34481e-19	1.000000	1.34481e-19	1.000000
rad40syn	4.85494e-21	1.000000	4.85494e-21	1.000000
rad40anti	3.84148e-21	1.000000	3.84148e-21	1.000000
PAH8+H	1.38965e-21	1.000000	1.38965e-21	1.000000
rad73	2.01863e-22	1.000000	2.01863e-22	1.000000
rad71	3.38824e-24	1.000000	3.38824e-24	1.000000
rad6	1.67791e-25	1.000000	1.67791e-25	1.000000
rad19anti	1.34354e-25	1.000000	1.34354e-25	1.000000
rad2	1.19267e-27	1.000000	1.19267e-27	1.000000
rad1	8.96558e-29	1.000000	8.96558e-29	1.000000
rad26	8.87683e-29	1.000000	8.87683e-29	1.000000
rad28	7.01681e-29	1.000000	7.01681e-29	1.000000
rad10	6.34525e-29	1.000000	6.34525e-29	1.000000
rad7	1.27286e-29	1.000000	1.27286e-29	1.000000
rad3	5.65432e-30	1.000000	5.65432e-30	1.000000
rad11	3.14087e-30	1.000000	3.14087e-30	1.000000
rad4	2.99317e-30	1.000000	2.99317e-30	1.000000
rad47	2.37556e-30	1.000000	2.37556e-30	1.000000
rad9	6.80130e-31	1.000000	6.80130e-31	1.000000
rad31	1.01788e-31	1.000000	1.01788e-31	1.000000
rad13	7.28277e-32	1.000000	7.28277e-32	1.000000
rad14	8.28209e-34	1.000000	8.28209e-34	1.000000
rad19syn	6.95957e-34	1.000000	6.95957e-34	1.000000
rad27	4.16885e-34	1.000000	4.16885e-34	1.000000
rad15	3.08537e-34	1.000000	3.08537e-34	1.000000
rad25	2.99908e-34	1.000000	2.99908e-34	1.000000
rad33	1.41828e-34	1.000000	1.41828e-34	1.000000
rad23	6.72012e-35	1.000000	6.72012e-35	1.000000
rad45	6.33934e-37	1.000000	6.33934e-37	1.000000
rad5	1.92020e-37	1.000000	1.92020e-37	1.000000
rad36	4.13069e-38	1.000000	4.13069e-38	1.000000
rad12	7.00626e-39	1.000000	7.00626e-39	1.000000
rad20	2.22104e-39	1.000000	2.22104e-39	1.000000
rad22	1.90578e-39	1.000000	1.90578e-39	1.000000
rad21	1.89383e-39	1.000000	1.89383e-39	1.000000
rad18	7.02598e-42	1.000000	7.02598e-42	1.000000
rad24	5.53697e-44	1.000000	5.53697e-44	1.000000
rad8	3.73728e-60	1.000000	3.73728e-60	1.000000

0.100000000E-04 Pa, 300.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.34809e-14 (1.00)	5.34809e-14 (1.00)
Formation of rad19	5.34010e-14 (0.999)	5.34010e-14 (0.999)
H-abstraction to cyc2enyl	7.95823e-17 (0.00149)	7.95823e-17 (0.00149)
H-abstraction to cyclenyl	3.44981e-19 (6.45e-06)	3.44981e-19 (6.45e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997939	0.997939	0.997939	0.997939
Benzene+cycloprop-2-enylidene	0.00148805	0.999427	0.00148805	0.999427
PhCHCCH2+H	0.000529814	0.999957	0.000529814	0.999957
PhCCH+CH3	1.04615e-05	0.999968	1.04615e-05	0.999968
C2H2+PhCH2	9.96265e-06	0.999978	9.96265e-06	0.999978
Benzene+cycloprop-1-enylidene	6.45054e-06	0.999984	6.45054e-06	0.999984
PhCCCH3+H	6.36715e-06	0.999990	6.36715e-06	0.999990

Ph+MeAc	5.99826e-06	0.999996	5.99826e-06	0.999996
rad67	1.76909e-06	0.999998	1.76909e-06	0.999998
Ph+Allene	8.18996e-07	0.999999	8.18996e-07	0.999999
rad35	7.31807e-07	1.000000	7.31807e-07	1.000000
PhCH2CCH+H	1.62469e-07	1.000000	1.62469e-07	1.000000
PAH7+H	1.00667e-07	1.000000	1.00667e-07	1.000000
rad37	2.83206e-08	1.000000	2.83206e-08	1.000000
rad39	2.48351e-08	1.000000	2.48351e-08	1.000000
rad30	1.39398e-08	1.000000	1.39398e-08	1.000000
PAH9+H	1.67898e-09	1.000000	1.67898e-09	1.000000
rad38	7.72652e-10	1.000000	7.72652e-10	1.000000
PhcycC3H3_A+H	3.25290e-10	1.000000	3.25290e-10	1.000000
PAH10+CH3	2.37266e-10	1.000000	2.37266e-10	1.000000
rad60syn	1.06834e-10	1.000000	1.06834e-10	1.000000
PAH3+H	9.84715e-11	1.000000	9.84715e-11	1.000000
rad60anti	5.51572e-11	1.000000	5.51572e-11	1.000000
rad46	5.45644e-11	1.000000	5.45644e-11	1.000000
rad59	1.67258e-11	1.000000	1.67258e-11	1.000000
PhcycC3H3_B+H	1.05896e-11	1.000000	1.05896e-11	1.000000
Phenyl+cycC3H4	8.20984e-12	1.000000	0.000000	1.000000
rad54	7.66783e-12	1.000000	7.66783e-12	1.000000
rad43	5.65558e-12	1.000000	5.65558e-12	1.000000
rad62	1.25276e-12	1.000000	1.25276e-12	1.000000
rad50	1.03315e-12	1.000000	1.03315e-12	1.000000
rad70	3.13392e-13	1.000000	3.13392e-13	1.000000
PAH1+H	1.93779e-13	1.000000	1.93779e-13	1.000000
rad55	1.33843e-13	1.000000	1.33843e-13	1.000000
rad52	1.45721e-14	1.000000	1.45721e-14	1.000000
rad34	1.28521e-14	1.000000	1.28521e-14	1.000000
rad58	1.11204e-14	1.000000	1.11204e-14	1.000000
rad51	8.23951e-15	1.000000	8.23951e-15	1.000000
rad41	3.58185e-15	1.000000	3.58185e-15	1.000000
rad42	1.81926e-15	1.000000	1.81926e-15	1.000000
rad65	2.32648e-16	1.000000	2.32648e-16	1.000000
rad53	1.29481e-16	1.000000	1.29481e-16	1.000000
rad64	4.98973e-17	1.000000	4.98973e-17	1.000000
rad61	2.74862e-17	1.000000	2.74862e-17	1.000000
rad56	3.01521e-18	1.000000	3.01521e-18	1.000000
rad68syn	3.96643e-19	1.000000	3.96643e-19	1.000000
rad68anti	2.85688e-19	1.000000	2.85688e-19	1.000000
rad40syn	1.34588e-20	1.000000	1.34588e-20	1.000000
rad40anti	1.02810e-20	1.000000	1.02810e-20	1.000000
PAH8+H	5.53972e-21	1.000000	5.53972e-21	1.000000
rad19anti	1.46846e-21	1.000000	1.46846e-21	1.000000
rad73	6.54843e-22	1.000000	6.54843e-22	1.000000
rad6	2.43879e-22	1.000000	2.43879e-22	1.000000
rad71	2.13406e-23	1.000000	2.13406e-23	1.000000
rad2	1.67477e-23	1.000000	1.67477e-23	1.000000
rad1	1.26201e-24	1.000000	1.26201e-24	1.000000
rad10	1.01397e-24	1.000000	1.01397e-24	1.000000
rad9	4.58176e-25	1.000000	4.58176e-25	1.000000
rad26	4.21117e-25	1.000000	4.21117e-25	1.000000
rad3	1.80670e-25	1.000000	1.80670e-25	1.000000
rad28	1.62305e-25	1.000000	1.62305e-25	1.000000
rad4	8.98477e-26	1.000000	8.98477e-26	1.000000
rad7	2.16683e-26	1.000000	2.16683e-26	1.000000
rad23	5.65420e-27	1.000000	5.65420e-27	1.000000
rad11	5.18115e-27	1.000000	5.18115e-27	1.000000
rad31	9.66300e-28	1.000000	9.66300e-28	1.000000
rad15	2.72123e-28	1.000000	2.72123e-28	1.000000
rad45	1.61497e-28	1.000000	1.61497e-28	1.000000
rad13	1.24774e-28	1.000000	1.24774e-28	1.000000
rad19syn	1.12386e-28	1.000000	1.12386e-28	1.000000
rad25	3.62943e-29	1.000000	3.62943e-29	1.000000
rad14	2.69675e-29	1.000000	2.69675e-29	1.000000
rad47	1.77284e-29	1.000000	1.77284e-29	1.000000
rad27	1.61921e-29	1.000000	1.61921e-29	1.000000
rad36	5.50439e-30	1.000000	5.50439e-30	1.000000
rad72	4.67174e-30	1.000000	4.67174e-30	1.000000
rad12	9.87255e-31	1.000000	9.87255e-31	1.000000
rad33	4.22903e-31	1.000000	4.22903e-31	1.000000
rad22	1.99277e-31	1.000000	1.99277e-31	1.000000
rad5	1.92853e-31	1.000000	1.92853e-31	1.000000
rad21	1.08431e-32	1.000000	1.08431e-32	1.000000
rad20	6.41032e-33	1.000000	6.41032e-33	1.000000
rad18	1.22120e-34	1.000000	1.22120e-34	1.000000
rad24	5.17104e-36	1.000000	5.17104e-36	1.000000
rad8	3.04177e-46	1.000000	3.04177e-46	1.000000

0.100000000E-04 Pa, 310.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.92544e-14 (1.00)	5.92544e-14 (1.00)
Formation of rad19	5.91462e-14 (0.998)	5.91462e-14 (0.998)
H-abstraction to cyc2enyl	1.07628e-16 (0.00182)	1.07628e-16 (0.00182)
H-abstraction to cyclenyl	5.62537e-19 (9.49e-06)	5.62537e-19 (9.49e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997536	0.997536	0.997536	0.997536
Benzene+cycloprop-2-enylidene	0.00181637	0.999353	0.00181637	0.999353
PhCHCCH2+H	0.000599213	0.999952	0.000599213	0.999952
PhCCH+CH3	1.07899e-05	0.999963	1.07899e-05	0.999963
C2H2+PhCH2	9.94973e-06	0.999973	9.94973e-06	0.999973
Benzene+cycloprop-1-enylidene	9.49359e-06	0.999982	9.49359e-06	0.999982
PhCCCH3+H	6.92725e-06	0.999989	6.92725e-06	0.999989
Ph+MeAc	6.69436e-06	0.999996	6.69436e-06	0.999996
rad67	1.91404e-06	0.999998	1.91404e-06	0.999998
Ph+Allene	1.02854e-06	0.999999	1.02854e-06	0.999999
rad35	8.00939e-07	0.999999	8.00939e-07	0.999999
PhCH2CCH+H	1.75897e-07	1.000000	1.75897e-07	1.000000
PAH7+H	9.96917e-08	1.000000	9.96917e-08	1.000000
rad37	2.86985e-08	1.000000	2.86985e-08	1.000000
rad39	2.78945e-08	1.000000	2.78945e-08	1.000000
rad30	1.58794e-08	1.000000	1.58794e-08	1.000000
PAH9+H	1.63684e-09	1.000000	1.63684e-09	1.000000
rad38	8.60335e-10	1.000000	8.60335e-10	1.000000
PhcycC3H3_A+H	4.09102e-10	1.000000	4.09102e-10	1.000000
PAH10+CH3	2.45221e-10	1.000000	2.45221e-10	1.000000
rad60syn	1.25085e-10	1.000000	1.25085e-10	1.000000
PAH3+H	1.05828e-10	1.000000	1.05828e-10	1.000000
rad60anti	6.43937e-11	1.000000	6.43937e-11	1.000000
rad46	5.94068e-11	1.000000	5.94068e-11	1.000000
rad59	1.93817e-11	1.000000	1.93817e-11	1.000000
PhcycC3H3_B+H	1.41415e-11	1.000000	1.41415e-11	1.000000
Phenyl+cycC3H4	1.07882e-11	1.000000	0.000000	1.000000
rad54	8.89606e-12	1.000000	8.89606e-12	1.000000
rad43	6.83075e-12	1.000000	6.83075e-12	1.000000
rad62	1.51159e-12	1.000000	1.51159e-12	1.000000
rad50	1.17696e-12	1.000000	1.17696e-12	1.000000
rad70	3.87563e-13	1.000000	3.87563e-13	1.000000
PAH1+H	2.83537e-13	1.000000	2.83537e-13	1.000000
rad55	1.69857e-13	1.000000	1.69857e-13	1.000000
rad52	1.66060e-14	1.000000	1.66060e-14	1.000000
rad34	1.64058e-14	1.000000	1.64058e-14	1.000000
rad58	1.50872e-14	1.000000	1.50872e-14	1.000000
rad51	1.01582e-14	1.000000	1.01582e-14	1.000000
rad41	4.78440e-15	1.000000	4.78440e-15	1.000000
rad42	2.42635e-15	1.000000	2.42635e-15	1.000000
rad65	2.87409e-16	1.000000	2.87409e-16	1.000000
rad53	1.82136e-16	1.000000	1.82136e-16	1.000000
rad64	6.86552e-17	1.000000	6.86552e-17	1.000000
rad61	3.85257e-17	1.000000	3.85257e-17	1.000000
rad56	4.20810e-18	1.000000	4.20810e-18	1.000000
rad68syn	5.79184e-19	1.000000	5.79184e-19	1.000000
rad68anti	4.21603e-19	1.000000	4.21603e-19	1.000000
rad40syn	1.84909e-20	1.000000	1.84909e-20	1.000000
rad40anti	1.45861e-20	1.000000	1.45861e-20	1.000000
PAH8+H	5.99118e-21	1.000000	5.99118e-21	1.000000
rad73	7.86975e-22	1.000000	7.86975e-22	1.000000
rad71	1.54165e-23	1.000000	1.54165e-23	1.000000
rad19anti	1.86169e-24	1.000000	1.86169e-24	1.000000
rad6	1.29118e-24	1.000000	1.29118e-24	1.000000
rad2	7.00585e-27	1.000000	7.00585e-27	1.000000
rad1	5.44569e-28	1.000000	5.44569e-28	1.000000
rad10	3.74167e-28	1.000000	3.74167e-28	1.000000
rad28	3.59284e-28	1.000000	3.59284e-28	1.000000
rad26	3.57547e-28	1.000000	3.57547e-28	1.000000
rad7	9.84657e-29	1.000000	9.84657e-29	1.000000
rad3	3.18525e-29	1.000000	3.18525e-29	1.000000
rad11	2.42444e-29	1.000000	2.42444e-29	1.000000
rad4	1.70232e-29	1.000000	1.70232e-29	1.000000
rad9	9.45574e-30	1.000000	9.45574e-30	1.000000
rad47	3.77537e-30	1.000000	3.77537e-30	1.000000
rad31	1.07023e-30	1.000000	1.07023e-30	1.000000
rad13	5.66543e-31	1.000000	5.66543e-31	1.000000
rad19syn	1.62279e-32	1.000000	1.62279e-32	1.000000
rad15	4.31435e-33	1.000000	4.31435e-33	1.000000
rad14	2.26194e-33	1.000000	2.26194e-33	1.000000

rad23	1.97375e-33	1.000000	1.97375e-33	1.000000
rad27	1.66275e-33	1.000000	1.66275e-33	1.000000
rad33	1.10287e-33	1.000000	1.10287e-33	1.000000
rad25	5.46020e-34	1.000000	5.46020e-34	1.000000
rad45	2.22697e-35	1.000000	2.22697e-35	1.000000
rad36	1.47649e-36	1.000000	1.47649e-36	1.000000
rad5	1.76094e-37	1.000000	1.76094e-37	1.000000
rad12	7.53441e-38	1.000000	7.53441e-38	1.000000
rad22	4.58157e-38	1.000000	4.58157e-38	1.000000
rad20	1.56836e-38	1.000000	1.56836e-38	1.000000
rad21	1.28573e-38	1.000000	1.28573e-38	1.000000
rad18	5.73022e-41	1.000000	5.73022e-41	1.000000
rad24	4.03318e-43	1.000000	4.03318e-43	1.000000
rad8	1.69031e-59	1.000000	1.69031e-59	1.000000

0.100000000E-04 Pa, 400.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.29463e-13 (1.00)	1.29463e-13 (1.00)
Formation of rad19	1.28526e-13 (0.993)	1.28526e-13 (0.993)
H-abstraction to cyc2enyl	9.19357e-16 (0.00710)	9.19357e-16 (0.00710)
H-abstraction to cyclenyl	1.69485e-17 (0.000131)	1.69485e-17 (0.000131)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.991683	0.991683	0.991683	0.991683
Benzene+cycloprop-2-enylidene	0.00710133	0.998784	0.00710133	0.998784
PhCHCCH2+H	0.00100586	0.999790	0.00100586	0.999790
Benzene+cycloprop-1-enylidene	0.000130914	0.999921	0.000130914	0.999921
C2H2+PhCH2	2.22468e-05	0.999943	2.22468e-05	0.999943
PhCCH+CH3	1.95098e-05	0.999963	1.95098e-05	0.999963
Ph+MeAc	1.45179e-05	0.999977	1.45179e-05	0.999977
PhCCCH3+H	1.31952e-05	0.999990	1.31952e-05	0.999990
rad67	4.22167e-06	0.999994	4.22167e-06	0.999994
Ph+Allene	2.97391e-06	0.999997	2.97391e-06	0.999997
rad35	1.68909e-06	0.999999	1.68909e-06	0.999999
PhCH2CCH+H	6.93048e-07	1.000000	6.93048e-07	1.000000
PAH7+H	2.89758e-07	1.000000	2.89758e-07	1.000000
rad37	8.82204e-08	1.000000	8.82204e-08	1.000000
rad39	7.05188e-08	1.000000	7.05188e-08	1.000000
rad30	3.41246e-08	1.000000	3.41246e-08	1.000000
PAH9+H	5.67069e-09	1.000000	5.67069e-09	1.000000
PhcycC3H3_A+H	4.88900e-09	1.000000	4.88900e-09	1.000000
rad38	3.07435e-09	1.000000	3.07435e-09	1.000000
PAH10+CH3	1.94150e-09	1.000000	1.94150e-09	1.000000
PAH3+H	5.34449e-10	1.000000	5.34449e-10	1.000000
PhcycC3H3_B+H	4.15151e-10	1.000000	4.15151e-10	1.000000
rad60syn	3.79130e-10	1.000000	3.79130e-10	1.000000
rad46	2.31290e-10	1.000000	2.31290e-10	1.000000
Phenyl+cycC3H4	2.22328e-10	1.000000	0.000000	1.000000
rad60anti	2.01850e-10	1.000000	2.01850e-10	1.000000
rad59	8.49299e-11	1.000000	8.49299e-11	1.000000
rad54	6.39706e-11	1.000000	6.39706e-11	1.000000
rad43	3.46932e-11	1.000000	3.46932e-11	1.000000
rad50	8.28672e-12	1.000000	8.28672e-12	1.000000
rad62	7.28467e-12	1.000000	7.28467e-12	1.000000
rad70	3.85328e-12	1.000000	3.85328e-12	1.000000
PAH1+H	3.61003e-12	1.000000	3.61003e-12	1.000000
rad55	1.60055e-12	1.000000	1.60055e-12	1.000000
rad34	2.43952e-13	1.000000	2.43952e-13	1.000000
rad52	1.72576e-13	1.000000	1.72576e-13	1.000000
rad58	1.69180e-13	1.000000	1.69180e-13	1.000000
rad51	1.42864e-13	1.000000	1.42864e-13	1.000000
rad41	6.83260e-14	1.000000	6.83260e-14	1.000000
rad42	2.71734e-14	1.000000	2.71734e-14	1.000000
rad53	6.88019e-15	1.000000	6.88019e-15	1.000000
rad65	4.39173e-15	1.000000	4.39173e-15	1.000000
rad61	3.43038e-15	1.000000	3.43038e-15	1.000000
rad64	3.05834e-15	1.000000	3.05834e-15	1.000000
rad56	5.30924e-16	1.000000	5.30924e-16	1.000000
rad68syn	7.48244e-17	1.000000	7.48244e-17	1.000000
rad68anti	5.24834e-17	1.000000	5.24834e-17	1.000000
rad40syn	6.39130e-18	1.000000	6.39130e-18	1.000000
PAH8+H	5.94551e-18	1.000000	5.94551e-18	1.000000
rad19anti	4.76696e-18	1.000000	4.76696e-18	1.000000
rad40anti	4.74371e-18	1.000000	4.74371e-18	1.000000
rad73	4.85676e-19	1.000000	4.85676e-19	1.000000
rad6	1.36022e-19	1.000000	1.36022e-19	1.000000
rad71	4.97335e-20	1.000000	4.97335e-20	1.000000

rad2	2.11255e-20	1.00000	2.11255e-20	1.00000
rad23	2.42965e-21	1.00000	2.42965e-21	1.00000
rad1	1.96610e-21	1.00000	1.96610e-21	1.00000
rad10	1.25121e-21	1.00000	1.25121e-21	1.00000
rad9	4.90164e-22	1.00000	4.90164e-22	1.00000
rad3	2.79560e-22	1.00000	2.79560e-22	1.00000
rad45	2.44646e-22	1.00000	2.44646e-22	1.00000
rad4	1.47266e-22	1.00000	1.47266e-22	1.00000
rad26	5.83434e-23	1.00000	5.83434e-23	1.00000
rad19syn	2.04434e-23	1.00000	2.04434e-23	1.00000
rad28	1.69333e-23	1.00000	1.69333e-23	1.00000
rad7	1.26052e-23	1.00000	1.26052e-23	1.00000
rad36	9.43393e-24	1.00000	9.43393e-24	1.00000
rad31	5.03677e-24	1.00000	5.03677e-24	1.00000
rad11	3.01363e-24	1.00000	3.01363e-24	1.00000
rad72	7.32152e-25	1.00000	7.32152e-25	1.00000
rad15	3.08554e-25	1.00000	3.08554e-25	1.00000
rad13	7.69016e-26	1.00000	7.69016e-26	1.00000
rad22	2.77492e-26	1.00000	2.77492e-26	1.00000
rad12	1.91220e-27	1.00000	1.91220e-27	1.00000
rad47	7.65193e-28	1.00000	7.65193e-28	1.00000
rad27	5.28918e-28	1.00000	5.28918e-28	1.00000
rad14	2.58965e-28	1.00000	2.58965e-28	1.00000
rad33	1.90643e-28	1.00000	1.90643e-28	1.00000
rad25	1.25979e-28	1.00000	1.25979e-28	1.00000
rad21	5.45441e-31	1.00000	5.45441e-31	1.00000
rad20	2.89999e-31	1.00000	2.89999e-31	1.00000
rad5	1.68719e-31	1.00000	1.68719e-31	1.00000
rad24	2.83370e-32	1.00000	2.83370e-32	1.00000
rad18	3.05545e-33	1.00000	3.05545e-33	1.00000
rad8	6.65009e-43	1.00000	6.65009e-43	1.00000

0.100000000E-04 Pa, 500.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.52837e-13 (1.00)	2.52837e-13 (1.00)
Formation of rad19	2.47941e-13 (0.981)	2.47941e-13 (0.981)
H-abstraction to cyc2enyl	4.69058e-15 (0.0186)	4.69058e-15 (0.0186)
H-abstraction to cyclenyl	2.05381e-16 (0.000812)	2.05381e-16 (0.000812)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.978428	0.978428	0.978428	0.978428
Benzene+cycloprop-2-enylidene	0.0185518	0.996979	0.0185518	0.996979
PhCHCCH2+H	0.00202477	0.999004	0.00202477	0.999004
Benzene+cycloprop-1-enylidene	0.000812306	0.999816	0.000812306	0.999816
C2H2+PhCH2	5.13363e-05	0.999868	5.13363e-05	0.999868
PhCCH+CH3	3.71182e-05	0.999905	3.71182e-05	0.999905
Ph+MeAc	3.63101e-05	0.999941	3.63101e-05	0.999941
PhCCCH3+H	2.84449e-05	0.999970	2.84449e-05	0.999970
Ph+Allene	1.09470e-05	0.999981	1.09470e-05	0.999981
rad67	1.05822e-05	0.999991	1.05822e-05	0.999991
rad35	4.10935e-06	0.999995	4.10935e-06	0.999995
PhCH2CCH+H	2.95392e-06	0.999998	2.95392e-06	0.999998
PAH7+H	8.51564e-07	0.999999	8.51564e-07	0.999999
rad37	2.86678e-07	0.999999	2.86678e-07	0.999999
rad39	2.02118e-07	1.000000	2.02118e-07	1.000000
rad30	8.94923e-08	1.000000	8.94923e-08	1.000000
PhcycC3H3_A+H	5.02850e-08	1.000000	5.02850e-08	1.000000
PAH9+H	2.06879e-08	1.000000	2.06879e-08	1.000000
PAH10+CH3	1.44052e-08	1.000000	1.44052e-08	1.000000
rad38	1.31834e-08	1.000000	1.31834e-08	1.000000
PhcycC3H3_B+H	7.81107e-09	1.000000	7.81107e-09	1.000000
Phenyl+cycC3H4	3.55660e-09	1.000000	0.000000	1.000000
PAH3+H	2.97649e-09	1.000000	2.97649e-09	1.000000
rad60syn	1.43183e-09	1.000000	1.43183e-09	1.000000
rad46	1.04913e-09	1.000000	1.04913e-09	1.000000
rad60anti	7.84373e-10	1.000000	7.84373e-10	1.000000
rad54	4.68691e-10	1.000000	4.68691e-10	1.000000
rad59	4.42102e-10	1.000000	4.42102e-10	1.000000
rad43	1.96278e-10	1.000000	1.96278e-10	1.000000
rad50	6.65687e-11	1.000000	6.65687e-11	1.000000
PAH1+H	4.68911e-11	1.000000	4.68911e-11	1.000000
rad62	3.77646e-11	1.000000	3.77646e-11	1.000000
rad70	3.76454e-11	1.000000	3.76454e-11	1.000000
rad55	1.50995e-11	1.000000	1.50995e-11	1.000000
rad34	3.22092e-12	1.000000	3.22092e-12	1.000000
rad51	2.08196e-12	1.000000	2.08196e-12	1.000000
rad58	2.05092e-12	1.000000	2.05092e-12	1.000000

rad52	1.88540e-12	1.000000	1.88540e-12	1.000000
rad41	8.63972e-13	1.000000	8.63972e-13	1.000000
rad42	2.74850e-13	1.000000	2.74850e-13	1.000000
rad53	1.70507e-13	1.000000	1.70507e-13	1.000000
rad61	1.40668e-13	1.000000	1.40668e-13	1.000000
rad64	7.73135e-14	1.000000	7.73135e-14	1.000000
rad65	6.64224e-14	1.000000	6.64224e-14	1.000000
rad56	2.62115e-14	1.000000	2.62115e-14	1.000000
rad68syn	3.88259e-15	1.000000	3.88259e-15	1.000000
rad68anti	2.67414e-15	1.000000	2.67414e-15	1.000000
PAH8+H	8.47559e-16	1.000000	8.47559e-16	1.000000
rad19anti	6.68017e-16	1.000000	6.68017e-16	1.000000
rad40syn	5.55784e-16	1.000000	5.55784e-16	1.000000
rad40anti	4.06573e-16	1.000000	4.06573e-16	1.000000
rad73	6.83537e-17	1.000000	6.83537e-17	1.000000
rad6	2.32498e-17	1.000000	2.32498e-17	1.000000
rad71	1.35738e-17	1.000000	1.35738e-17	1.000000
rad23	1.11971e-17	1.000000	1.11971e-17	1.000000
rad2	8.81888e-18	1.000000	8.81888e-18	1.000000
rad45	2.22432e-18	1.000000	2.22432e-18	1.000000
rad1	1.06100e-18	1.000000	1.06100e-18	1.000000
rad10	4.07705e-19	1.000000	4.07705e-19	1.000000
rad9	2.39472e-19	1.000000	2.39472e-19	1.000000
rad3	1.49827e-19	1.000000	1.49827e-19	1.000000
rad19syn	1.45990e-19	1.000000	1.45990e-19	1.000000
rad36	1.21948e-19	1.000000	1.21948e-19	1.000000
rad4	8.57589e-20	1.000000	8.57589e-20	1.000000
rad26	5.49456e-21	1.000000	5.49456e-21	1.000000
rad7	2.31741e-21	1.000000	2.31741e-21	1.000000
rad72	1.99299e-21	1.000000	1.99299e-21	1.000000
rad31	1.77645e-21	1.000000	1.77645e-21	1.000000
rad28	1.48791e-21	1.000000	1.48791e-21	1.000000
rad11	5.78678e-22	1.000000	5.78678e-22	1.000000
rad15	1.61562e-22	1.000000	1.61562e-22	1.000000
rad22	5.40360e-23	1.000000	5.40360e-23	1.000000
rad12	1.85421e-23	1.000000	1.85421e-23	1.000000
rad13	1.56105e-23	1.000000	1.56105e-23	1.000000
rad27	5.88385e-26	1.000000	5.88385e-26	1.000000
rad47	5.02583e-26	1.000000	5.02583e-26	1.000000
rad33	4.35952e-26	1.000000	4.35952e-26	1.000000
rad14	1.53999e-26	1.000000	1.53999e-26	1.000000
rad25	1.72619e-27	1.000000	1.72619e-27	1.000000
rad21	1.59273e-28	1.000000	1.59273e-28	1.000000
rad20	9.52147e-29	1.000000	9.52147e-29	1.000000
rad24	5.46932e-29	1.000000	5.46932e-29	1.000000
rad18	1.37010e-30	1.000000	1.37010e-30	1.000000
rad5	1.88304e-31	1.000000	1.88304e-31	1.000000
rad8	1.56286e-38	1.000000	1.56286e-38	1.000000

0.100000000E-04 Pa, 600.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.35570e-13 (1.00)	4.35570e-13 (1.00)
Formation of rad19	4.18892e-13 (0.962)	4.18892e-13 (0.962)
H-abstraction to cyc2enyl	1.54751e-14 (0.0355)	1.54751e-14 (0.0355)
H-abstraction to cyclenyl	1.20343e-15 (0.00276)	1.20343e-15 (0.00276)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.957276	0.957276	0.957276	0.957276
Benzene+cycloprop-2-enylidene	0.0355285	0.992805	0.0355285	0.992805
PhCHCCH2+H	0.00402172	0.996826	0.00402172	0.996826
Benzene+cycloprop-1-enylidene	0.00276289	0.999589	0.00276289	0.999589
C2H2+PhCH2	0.000111945	0.999701	0.000111945	0.999701
Ph+MeAc	8.57420e-05	0.999787	8.57420e-05	0.999787
PhCCH+CH3	6.75064e-05	0.999854	6.75064e-05	0.999854
PhCCCH3+H	5.90383e-05	0.999913	5.90383e-05	0.999913
Ph+Allene	3.56628e-05	0.999949	3.56628e-05	0.999949
rad67	2.54029e-05	0.999975	2.54029e-05	0.999975
PhCH2CCH+H	1.09199e-05	0.999985	1.09199e-05	0.999985
rad35	9.63305e-06	0.999995	9.63305e-06	0.999995
PAH7+H	2.26706e-06	0.999997	2.26706e-06	0.999997
rad37	8.64904e-07	0.999998	8.64904e-07	0.999998
rad39	5.20249e-07	0.999999	5.20249e-07	0.999999
PhcycC3H3_A+H	3.56529e-07	0.999999	3.56529e-07	0.999999
rad30	2.27441e-07	0.999999	2.27441e-07	0.999999
PAH10+CH3	8.50920e-08	0.999999	8.50920e-08	0.999999
PhcycC3H3_B+H	8.43895e-08	0.999999	8.43895e-08	0.999999
PAH9+H	7.13070e-08	1.000000	7.13070e-08	1.000000

rad38	5.21311e-08	1.000000	5.21311e-08	1.000000
Phenyl+cycC3H4	3.58023e-08	1.000000	0.00000	1.000000
PAH3+H	1.45691e-08	1.000000	1.45691e-08	1.000000
rad60syn	5.03972e-09	1.000000	5.03972e-09	1.000000
rad46	4.37621e-09	1.000000	4.37621e-09	1.000000
rad60anti	2.82886e-09	1.000000	2.82886e-09	1.000000
rad54	2.63022e-09	1.000000	2.63022e-09	1.000000
rad59	2.03126e-09	1.000000	2.03126e-09	1.000000
rad43	9.14301e-10	1.000000	9.14302e-10	1.000000
rad50	4.49074e-10	1.000000	4.49074e-10	1.000000
PAH1+H	4.05905e-10	1.000000	4.05905e-10	1.000000
rad70	2.63826e-10	1.000000	2.63826e-10	1.000000
rad62	1.58022e-10	1.000000	1.58022e-10	1.000000
rad55	1.01573e-10	1.000000	1.01573e-10	1.000000
rad34	2.81348e-11	1.000000	2.81348e-11	1.000000
rad51	2.21630e-11	1.000000	2.21630e-11	1.000000
rad58	1.79744e-11	1.000000	1.79744e-11	1.000000
rad52	1.61050e-11	1.000000	1.61050e-11	1.000000
rad41	7.27827e-12	1.000000	7.27827e-12	1.000000
rad61	2.69080e-12	1.000000	2.69080e-12	1.000000
rad53	2.26526e-12	1.000000	2.26526e-12	1.000000
rad42	1.88131e-12	1.000000	1.88131e-12	1.000000
rad64	9.96176e-13	1.000000	9.96176e-13	1.000000
rad65	7.15323e-13	1.000000	7.15323e-13	1.000000
rad56	5.47638e-13	1.000000	5.47638e-13	1.000000
rad68syn	8.54715e-14	1.000000	8.54715e-14	1.000000
rad68anti	5.81389e-14	1.000000	5.81389e-14	1.000000
PAH8+H	3.69241e-14	1.000000	3.69241e-14	1.000000
rad40syn	1.73285e-14	1.000000	1.73285e-14	1.000000
rad40anti	1.26417e-14	1.000000	1.26417e-14	1.000000
rad19anti	4.93441e-15	1.000000	4.93441e-15	1.000000
rad73	3.37842e-15	1.000000	3.37842e-15	1.000000
rad71	1.04456e-15	1.000000	1.04456e-15	1.000000
rad23	6.01965e-16	1.000000	6.01965e-16	1.000000
rad6	4.81817e-16	1.000000	4.81817e-16	1.000000
rad2	3.77780e-16	1.000000	3.77780e-16	1.000000
rad45	1.28312e-16	1.000000	1.28312e-16	1.000000
rad9	9.72297e-17	1.000000	9.72297e-17	1.000000
rad1	6.27975e-17	1.000000	6.27975e-17	1.000000
rad19syn	1.52297e-17	1.000000	1.52297e-17	1.000000
rad36	1.40806e-17	1.000000	1.40806e-17	1.000000
rad10	1.07790e-17	1.000000	1.07790e-17	1.000000
rad3	6.16702e-18	1.000000	6.16702e-18	1.000000
rad4	4.24630e-18	1.000000	4.24630e-18	1.000000
rad72	6.46701e-19	1.000000	6.46701e-19	1.000000
rad12	1.38524e-19	1.000000	1.38524e-19	1.000000
rad26	8.55150e-20	1.000000	8.55150e-20	1.000000
rad15	6.32709e-20	1.000000	6.32709e-20	1.000000
rad7	5.35282e-20	1.000000	5.35282e-20	1.000000
rad31	3.24820e-20	1.000000	3.24820e-20	1.000000
rad28	2.35290e-20	1.000000	2.35290e-20	1.000000
rad11	1.42719e-20	1.000000	1.42719e-20	1.000000
rad22	2.34531e-21	1.000000	2.34531e-21	1.000000
rad13	4.30192e-22	1.000000	4.30192e-22	1.000000
rad33	1.43409e-24	1.000000	1.43409e-24	1.000000
rad47	1.30363e-24	1.000000	1.30363e-24	1.000000
rad27	1.09260e-24	1.000000	1.09260e-24	1.000000
rad14	2.18180e-25	1.000000	2.18180e-25	1.000000
rad24	1.00446e-25	1.000000	1.00446e-25	1.000000
rad21	4.73168e-26	1.000000	4.73168e-26	1.000000
rad25	2.62646e-26	1.000000	2.62646e-26	1.000000
rad20	1.54426e-26	1.000000	1.54426e-26	1.000000
rad18	1.24477e-28	1.000000	1.24477e-28	1.000000
rad5	2.92319e-31	1.000000	2.92319e-31	1.000000
rad8	2.39366e-33	1.000000	2.39366e-33	1.000000

0.100000000E-04 Pa, 700.000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	6.91694e-13 (1.00)	6.91694e-13 (1.00)		
Formation of rad19	6.47922e-13 (0.937)	6.47922e-13 (0.937)		
H-abstraction to cyc2enyl	3.91858e-14 (0.0567)	3.91858e-14 (0.0567)		
H-abstraction to cyclenyl	4.58543e-15 (0.00663)	4.58542e-15 (0.00663)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.928261	0.928261	0.928261	0.928261
Benzene+cycloprop-2-enylidene	0.0566520	0.984913	0.0566520	0.984913
PhCHCCH2+H	0.00759850	0.992512	0.00759851	0.992512

Benzene+cycloprop-1-enylidene	0.00662927	0.999141	0.00662927	0.999141
C2H2+PhCH2	0.000223367	0.999364	0.000223367	0.999364
Ph+MeAc	0.000184762	0.999549	0.000184762	0.999549
PhCCH+CH3	0.000114475	0.999663	0.000114475	0.999663
PhCCCH3+H	0.000114174	0.999778	0.000114174	0.999778
Ph+Allene	9.86533e-05	0.999876	9.86533e-05	0.999876
rad67	5.61617e-05	0.999932	5.61618e-05	0.999932
PhCH2CCH+H	3.37385e-05	0.999966	3.37385e-05	0.999966
rad35	2.09201e-05	0.999987	2.09202e-05	0.999987
PAH7+H	5.25052e-06	0.999992	5.25052e-06	0.999992
rad37	2.31770e-06	0.999995	2.31770e-06	0.999995
PhcycC3H3_A+H	1.84668e-06	0.999997	1.84668e-06	0.999997
rad39	1.15814e-06	0.999998	1.15814e-06	0.999998
PhcycC3H3_B+H	5.97889e-07	0.999998	5.97889e-07	0.999998
rad30	5.35177e-07	0.999999	5.35177e-07	0.999999
PAH10+CH3	3.93624e-07	0.999999	3.93624e-07	0.999999
Phenyl+cycC3H4	2.47273e-07	0.999999	0.00000	0.999999
PAH9+H	2.20558e-07	1.000000	2.20558e-07	0.999999
rad38	1.79348e-07	1.000000	1.79348e-07	1.000000
PAH3+H	5.98815e-08	1.000000	5.98815e-08	1.000000
rad46	1.59383e-08	1.000000	1.59383e-08	1.000000
rad60syn	1.57198e-08	1.000000	1.57198e-08	1.000000
rad54	1.11959e-08	1.000000	1.11959e-08	1.000000
rad60anti	9.00502e-09	1.000000	9.00502e-09	1.000000
rad59	7.88061e-09	1.000000	7.88061e-09	1.000000
rad43	3.45953e-09	1.000000	3.45953e-09	1.000000
PAH1+H	2.45995e-09	1.000000	2.45995e-09	1.000000
rad50	2.44563e-09	1.000000	2.44563e-09	1.000000
rad70	1.34938e-09	1.000000	1.34938e-09	1.000000
rad62	5.31170e-10	1.000000	5.31170e-10	1.000000
rad55	4.95201e-10	1.000000	4.95201e-10	1.000000
rad51	1.72653e-10	1.000000	1.72653e-10	1.000000
rad34	1.70511e-10	1.000000	1.70511e-10	1.000000
rad58	1.15481e-10	1.000000	1.15481e-10	1.000000
rad52	1.05442e-10	1.000000	1.05442e-10	1.000000
rad41	4.33848e-11	1.000000	4.33848e-11	1.000000
rad61	2.93831e-11	1.000000	2.93831e-11	1.000000
rad53	1.83949e-11	1.000000	1.83949e-11	1.000000
rad42	9.22818e-12	1.000000	9.22818e-12	1.000000
rad64	7.68987e-12	1.000000	7.68987e-12	1.000000
rad56	6.14022e-12	1.000000	6.14022e-12	1.000000
rad65	5.56200e-12	1.000000	5.56200e-12	1.000000
rad68syn	1.01762e-12	1.000000	1.01762e-12	1.000000
PAH8+H	7.27467e-13	1.000000	7.27467e-13	1.000000
rad68anti	6.85898e-13	1.000000	6.85898e-13	1.000000
rad40syn	2.67923e-13	1.000000	2.67923e-13	1.000000
rad40anti	1.96404e-13	1.000000	1.96404e-13	1.000000
rad73	8.03991e-14	1.000000	8.03991e-14	1.000000
rad9	4.66378e-14	1.000000	4.66378e-14	1.000000
rad71	3.42969e-14	1.000000	3.42969e-14	1.000000
rad19anti	6.95729e-15	1.000000	6.95729e-15	1.000000
rad23	2.90022e-15	1.000000	2.90022e-15	1.000000
rad2	1.70112e-15	1.000000	1.70112e-15	1.000000
rad6	1.59397e-15	1.000000	1.59397e-15	1.000000
rad45	6.14498e-16	1.000000	6.14498e-16	1.000000
rad1	4.31587e-16	1.000000	4.31587e-16	1.000000
rad12	1.17947e-16	1.000000	1.17947e-16	1.000000
rad19syn	8.87889e-17	1.000000	8.87889e-17	1.000000
rad36	8.77707e-17	1.000000	8.77708e-17	1.000000
rad72	5.62377e-17	1.000000	5.62377e-17	1.000000
rad10	4.05257e-17	1.000000	4.05257e-17	1.000000
rad3	2.53420e-17	1.000000	2.53420e-17	1.000000
rad15	2.07103e-17	1.000000	2.07104e-17	1.000000
rad4	2.05006e-17	1.000000	2.05006e-17	1.000000
rad26	2.81033e-19	1.000000	2.81033e-19	1.000000
rad7	2.04566e-19	1.000000	2.04566e-19	1.000000
rad31	9.71078e-20	1.000000	9.71078e-20	1.000000
rad28	7.91035e-20	1.000000	7.91035e-20	1.000000
rad11	5.88999e-20	1.000000	5.88999e-20	1.000000
rad22	1.19907e-20	1.000000	1.19907e-20	1.000000
rad13	2.20960e-21	1.000000	2.20960e-21	1.000000
rad24	2.00387e-22	1.000000	2.00387e-22	1.000000
rad21	3.07250e-23	1.000000	3.07250e-23	1.000000
rad33	1.71238e-23	1.000000	1.71238e-23	1.000000
rad47	1.29142e-23	1.000000	1.29142e-23	1.000000
rad20	4.94961e-24	1.000000	4.94961e-24	1.000000
rad27	4.41983e-24	1.000000	4.41983e-24	1.000000
rad14	8.20526e-25	1.000000	8.20527e-25	1.000000
rad25	5.39850e-25	1.000000	5.39850e-25	1.000000
rad18	2.34882e-27	1.000000	2.34882e-27	1.000000

rad8	5.34063e-28	1.000000	5.34063e-28	1.000000
rad5	7.04241e-31	1.000000	7.04241e-31	1.000000

0.100000000E-04 Pa, 800.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.03759e-12 (1.00)	1.03758e-12 (1.00)
Formation of rad19	9.41065e-13 (0.907)	9.41063e-13 (0.907)
H-abstraction to cyc2enyl	8.32953e-14 (0.0803)	8.32953e-14 (0.0803)
H-abstraction to cyclenyl	1.32261e-14 (0.0127)	1.32261e-14 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.891851	0.891851	0.891852	0.891852
Benzene+cycloprop-2-enylidene	0.0802780	0.972129	0.0802781	0.972130
PhCHCCH2+H	0.0134622	0.985591	0.0134623	0.985592
Benzene+cycloprop-1-enylidene	0.0127470	0.998338	0.0127470	0.998339
C2H2+PhCH2	0.000407098	0.998746	0.000407098	0.998747
Ph+MeAc	0.000361138	0.999107	0.000361137	0.999108
Ph+Allene	0.000232338	0.999339	0.000232338	0.999340
PhCCCH3+H	0.000203971	0.999543	0.000203971	0.999544
PhCCH+CH3	0.000180552	0.999724	0.000180553	0.999725
rad67	0.000113174	0.999837	0.000113174	0.999838
PhCH2CCH+H	8.77930e-05	0.999924	8.77932e-05	0.999925
rad35	4.16128e-05	0.999966	4.16129e-05	0.999967
PAH7+H	1.05800e-05	0.999977	1.05800e-05	0.999978
PhcycC3H3_A+H	7.41209e-06	0.999984	7.41210e-06	0.999985
rad37	5.46662e-06	0.999990	5.46663e-06	0.999991
PhcycC3H3_B+H	3.06124e-06	0.999993	3.06124e-06	0.999994
rad39	2.23427e-06	0.999995	2.23428e-06	0.999996
PAH10+CH3	1.45372e-06	0.999996	1.45373e-06	0.999997
Phenyl+cycC3H4	1.26413e-06	0.999998	0.000000	0.999997
rad30	1.14933e-06	0.999999	1.14933e-06	0.999998
PAH9+H	6.06281e-07	0.999999	6.06282e-07	0.999999
rad38	5.31254e-07	1.000000	5.31255e-07	1.000000
PAH3+H	2.06534e-07	1.000000	2.06535e-07	1.000000
rad46	5.03837e-08	1.000000	5.03838e-08	1.000000
rad60syn	4.30113e-08	1.000000	4.30113e-08	1.000000
rad54	3.72615e-08	1.000000	3.72615e-08	1.000000
rad59	2.58004e-08	1.000000	2.58004e-08	1.000000
rad60anti	2.50612e-08	1.000000	2.50612e-08	1.000000
PAH1+H	1.11102e-08	1.000000	1.11102e-08	1.000000
rad50	1.08530e-08	1.000000	1.08530e-08	1.000000
rad43	1.08255e-08	1.000000	1.08255e-08	1.000000
rad70	5.27763e-09	1.000000	5.27763e-09	1.000000
rad55	1.83174e-09	1.000000	1.83175e-09	1.000000
rad62	1.46956e-09	1.000000	1.46956e-09	1.000000
rad51	1.02140e-09	1.000000	1.02140e-09	1.000000
rad34	7.64053e-10	1.000000	7.64054e-10	1.000000
rad58	5.66064e-10	1.000000	5.66065e-10	1.000000
rad52	5.41768e-10	1.000000	5.41769e-10	1.000000
rad61	2.09071e-10	1.000000	2.09072e-10	1.000000
rad41	1.94594e-10	1.000000	1.94595e-10	1.000000
rad53	1.01501e-10	1.000000	1.01501e-10	1.000000
rad56	4.31932e-11	1.000000	4.31933e-11	1.000000
rad64	4.01362e-11	1.000000	4.01363e-11	1.000000
rad42	3.44813e-11	1.000000	3.44814e-11	1.000000
rad65	3.26029e-11	1.000000	3.26029e-11	1.000000
PAH8+H	8.11496e-12	1.000000	8.11497e-12	1.000000
rad68syn	7.66845e-12	1.000000	7.66846e-12	1.000000
rad68anti	5.13228e-12	1.000000	5.13229e-12	1.000000
rad9	3.32703e-12	1.000000	3.32703e-12	1.000000
rad40syn	2.48636e-12	1.000000	2.48636e-12	1.000000
rad40anti	1.83893e-12	1.000000	1.83893e-12	1.000000
rad73	1.11382e-12	1.000000	1.11382e-12	1.000000
rad71	6.08046e-13	1.000000	6.08047e-13	1.000000
rad12	6.62387e-15	1.000000	6.62388e-15	1.000000
rad19anti	6.02835e-15	1.000000	6.02835e-15	1.000000
rad23	5.04115e-15	1.000000	5.04116e-15	1.000000
rad2	2.51909e-15	1.000000	2.51909e-15	1.000000
rad72	2.02060e-15	1.000000	2.02061e-15	1.000000
rad6	1.99411e-15	1.000000	1.99411e-15	1.000000
rad45	1.35466e-15	1.000000	1.35466e-15	1.000000
rad15	8.90757e-16	1.000000	8.90757e-16	1.000000
rad1	7.61386e-16	1.000000	7.61388e-16	1.000000
rad36	1.67757e-16	1.000000	1.67758e-16	1.000000
rad19syn	1.44428e-16	1.000000	1.44428e-16	1.000000
rad10	6.03843e-17	1.000000	6.03844e-17	1.000000
rad3	3.28527e-17	1.000000	3.28527e-17	1.000000

rad4	2.71420e-17	1.00000	2.71421e-17	1.00000
rad26	3.85429e-19	1.00000	3.85430e-19	1.00000
rad7	3.13415e-19	1.00000	3.13415e-19	1.00000
rad31	1.51028e-19	1.00000	1.51028e-19	1.00000
rad28	1.10227e-19	1.00000	1.10227e-19	1.00000
rad11	9.86344e-20	1.00000	9.86344e-20	1.00000
rad24	4.04465e-20	1.00000	4.04465e-20	1.00000
rad22	2.35236e-20	1.00000	2.35237e-20	1.00000
rad21	1.34482e-20	1.00000	1.34482e-20	1.00000
rad13	5.21077e-21	1.00000	5.21078e-21	1.00000
rad33	2.38411e-21	1.00000	2.38411e-21	1.00000
rad20	2.16491e-21	1.00000	2.16491e-21	1.00000
rad47	8.53940e-23	1.00000	8.53940e-23	1.00000
rad27	4.31826e-23	1.00000	4.31827e-23	1.00000
rad25	3.68273e-23	1.00000	3.68274e-23	1.00000
rad8	2.39851e-23	1.00000	2.39851e-23	1.00000
rad14	4.94749e-24	1.00000	4.94749e-24	1.00000
rad18	2.47625e-26	1.00000	2.47625e-26	1.00000
rad5	3.07113e-30	1.00000	3.07114e-30	1.00000

0.100000000E-04 Pa, 900.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.49199e-12 (1.00)	1.49199e-12 (1.00)
Formation of rad19	1.30395e-12 (0.874)	1.30394e-12 (0.874)
H-abstraction to cyc2enyl	1.56554e-13 (0.105)	1.56554e-13 (0.105)
H-abstraction to cyclenyl	3.14892e-14 (0.0211)	3.14890e-14 (0.0211)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.848699	0.848699	0.848703	0.848703
Benzene+cycloprop-2-enylidene	0.104929	0.953628	0.104930	0.953634
PhCHCCH2+H	0.0222941	0.975922	0.0222941	0.975928
Benzene+cycloprop-1-enylidene	0.0211054	0.997028	0.0211054	0.997033
C2H2+PhCH2	0.000683868	0.997712	0.000683871	0.997717
Ph+MeAc	0.000643403	0.998355	0.000643406	0.998360
Ph+Allene	0.000474185	0.998829	0.000474187	0.998835
PhCCCH3+H	0.000337156	0.999166	0.000337157	0.999172
PhCCH+CH3	0.000266833	0.999433	0.000266834	0.999439
rad67	0.000208252	0.999641	0.000208253	0.999647
PhCH2CCH+H	0.000196562	0.999838	0.000196563	0.999843
rad35	7.58728e-05	0.999914	7.58733e-05	0.999919
PhcycC3H3_A+H	2.42103e-05	0.999938	2.42105e-05	0.999943
PAH7+H	1.88375e-05	0.999957	1.88376e-05	0.999962
PhcycC3H3_B+H	1.21561e-05	0.999969	1.21561e-05	0.999974
rad37	1.14050e-05	0.999980	1.14050e-05	0.999986
Phenyl+cycC3H4	5.07995e-06	0.999986	0.00000	0.999986
PAH10+CH3	4.40461e-06	0.999990	4.40463e-06	0.999990
rad39	3.79886e-06	0.999994	3.79888e-06	0.999994
rad30	2.25163e-06	0.999996	2.25165e-06	0.999996
PAH9+H	1.48864e-06	0.999997	1.48865e-06	0.999998
rad38	1.36505e-06	0.999999	1.36505e-06	0.999999
PAH3+H	6.06186e-07	0.999999	6.06189e-07	1.000000
rad46	1.39482e-07	1.000000	1.39483e-07	1.000000
rad60syn	1.03783e-07	1.000000	1.03784e-07	1.000000
rad54	1.00666e-07	1.000000	1.00667e-07	1.000000
rad59	7.22570e-08	1.000000	7.22573e-08	1.000000
rad60anti	6.13421e-08	1.000000	6.13425e-08	1.000000
rad50	4.00788e-08	1.000000	4.00791e-08	1.000000
PAH1+H	3.94732e-08	1.000000	3.94734e-08	1.000000
rad43	2.87031e-08	1.000000	2.87033e-08	1.000000
rad70	1.65408e-08	1.000000	1.65408e-08	1.000000
rad55	5.38699e-09	1.000000	5.38702e-09	1.000000
rad51	4.77134e-09	1.000000	4.77137e-09	1.000000
rad62	3.44637e-09	1.000000	3.44638e-09	1.000000
rad34	2.67892e-09	1.000000	2.67894e-09	1.000000
rad52	2.25237e-09	1.000000	2.25238e-09	1.000000
rad58	2.20457e-09	1.000000	2.20458e-09	1.000000
rad61	1.06256e-09	1.000000	1.06257e-09	1.000000
rad41	6.91191e-10	1.000000	6.91194e-10	1.000000
rad53	4.12665e-10	1.000000	4.12668e-10	1.000000
rad56	2.12371e-10	1.000000	2.12372e-10	1.000000
rad64	1.54860e-10	1.000000	1.54860e-10	1.000000
rad65	1.50319e-10	1.000000	1.50320e-10	1.000000
rad42	1.03376e-10	1.000000	1.03377e-10	1.000000
PAH8+H	5.91172e-11	1.000000	5.91175e-11	1.000000
rad68syn	4.07132e-11	1.000000	4.07134e-11	1.000000
rad68anti	2.70946e-11	1.000000	2.70947e-11	1.000000
rad9	2.62384e-11	1.000000	2.62384e-11	1.000000

rad40syn	1.56733e-11	1.00000	1.56733e-11	1.00000
rad40anti	1.17159e-11	1.00000	1.17159e-11	1.00000
rad73	1.01667e-11	1.00000	1.01667e-11	1.00000
rad71	6.75151e-12	1.00000	6.75155e-12	1.00000
rad12	4.04548e-14	1.00000	4.04550e-14	1.00000
rad72	3.83083e-14	1.00000	3.83085e-14	1.00000
rad23	5.64960e-15	1.00000	5.64962e-15	1.00000
rad15	5.22185e-15	1.00000	5.22188e-15	1.00000
rad19anti	4.57501e-15	1.00000	4.57503e-15	1.00000
rad2	2.44103e-15	1.00000	2.44104e-15	1.00000
rad45	1.86816e-15	1.00000	1.86818e-15	1.00000
rad6	1.47047e-15	1.00000	1.47048e-15	1.00000
rad1	7.39446e-16	1.00000	7.39450e-16	1.00000
rad36	2.09496e-16	1.00000	2.09496e-16	1.00000
rad19syn	1.51735e-16	1.00000	1.51736e-16	1.00000
rad10	5.67061e-17	1.00000	5.67064e-17	1.00000
rad3	2.74609e-17	1.00000	2.74611e-17	1.00000
rad4	2.27830e-17	1.00000	2.27832e-17	1.00000
rad21	1.24313e-18	1.00000	1.24313e-18	1.00000
rad24	8.13232e-19	1.00000	8.13237e-19	1.00000
rad26	3.07780e-19	1.00000	3.07781e-19	1.00000
rad7	3.04453e-19	1.00000	3.04454e-19	1.00000
rad20	2.39355e-19	1.00000	2.39356e-19	1.00000
rad31	1.88477e-19	1.00000	1.88478e-19	1.00000
rad33	1.64405e-19	1.00000	1.64406e-19	1.00000
rad11	1.03707e-19	1.00000	1.03708e-19	1.00000
rad28	9.04720e-20	1.00000	9.04728e-20	1.00000
rad8	5.47269e-20	1.00000	5.47271e-20	1.00000
rad13	4.13390e-20	1.00000	4.13392e-20	1.00000
rad22	2.96835e-20	1.00000	2.96837e-20	1.00000
rad25	2.46150e-21	1.00000	2.46151e-21	1.00000
rad27	2.21548e-21	1.00000	2.21549e-21	1.00000
rad47	4.17543e-22	1.00000	4.17545e-22	1.00000
rad14	1.66897e-22	1.00000	1.66898e-22	1.00000
rad18	1.70799e-24	1.00000	1.70800e-24	1.00000
rad5	2.42287e-29	1.00000	2.42288e-29	1.00000

0.100000000E-04 Pa, 1000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.07591e-12 (1.00)	2.07587e-12 (1.00)
Formation of rad19	1.74189e-12 (0.839)	1.74186e-12 (0.839)
H-abstraction to cyc2enyl	2.68753e-13 (0.129)	2.68753e-13 (0.129)
H-abstraction to cyc1enyl	6.52627e-14 (0.0314)	6.52614e-14 (0.0314)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.799582	0.799582	0.799596	0.799596
Benzene+cycloprop-2-enylidene	0.129463	0.929045	0.129465	0.929061
PhCHCCH2+H	0.0345727	0.963618	0.0345733	0.963635
Benzene+cycloprop-1-enylidene	0.0314382	0.995056	0.0314381	0.995073
C2H2+PhCH2	0.00107013	0.996126	0.00107014	0.996143
Ph+MeAc	0.00105356	0.997180	0.00105357	0.997197
Ph+Allene	0.000856132	0.998036	0.000856147	0.998053
PhCCCH3+H	0.000518388	0.998554	0.000518396	0.998571
PhCH2CCH+H	0.000387329	0.998942	0.000387336	0.998958
PhCCH+CH3	0.000373412	0.999315	0.000373419	0.999332
rad67	0.000352154	0.999667	0.000352160	0.999684
rad35	0.000127506	0.999795	0.000127508	0.999812
PhcycC3H3_A+H	6.68787e-05	0.999862	6.68799e-05	0.999878
PhcycC3H3_B+H	3.94287e-05	0.999901	3.94293e-05	0.999918
PAH7+H	3.02070e-05	0.999931	3.02075e-05	0.999948
rad37	2.12565e-05	0.999953	2.12568e-05	0.999969
Phenyl+cycC3H4	1.68078e-05	0.999969	0.00000	0.999969
PAH10+CH3	1.12446e-05	0.999981	1.12447e-05	0.999981
rad39	5.81024e-06	0.999986	5.81034e-06	0.999986
rad30	4.04406e-06	0.999990	4.04413e-06	0.999990
PAH9+H	3.29361e-06	0.999994	3.29367e-06	0.999994
rad38	3.08261e-06	0.999997	3.08266e-06	0.999997
PAH3+H	1.54070e-06	0.999998	1.54073e-06	0.999998
rad46	3.42239e-07	0.999999	3.42245e-07	0.999999
rad54	2.28520e-07	0.999999	2.28524e-07	0.999999
rad60syn	2.23169e-07	0.999999	2.23173e-07	0.999999
rad59	1.76070e-07	0.999999	1.76073e-07	0.999999
rad60anti	1.33518e-07	1.000000	1.33520e-07	0.999999
rad50	1.25826e-07	1.000000	1.25828e-07	1.000000
PAH1+H	1.15144e-07	1.000000	1.15145e-07	1.000000
rad43	6.59875e-08	1.000000	6.59887e-08	1.000000
rad70	4.32135e-08	1.000000	4.32143e-08	1.000000

rad51	1.82048e-08	1.000000	1.82051e-08	1.000000
rad55	1.31137e-08	1.000000	1.31139e-08	1.000000
rad52	7.79284e-09	1.000000	7.79297e-09	1.000000
rad34	7.69222e-09	1.000000	7.69236e-09	1.000000
rad58	7.06658e-09	1.000000	7.06670e-09	1.000000
rad62	7.03940e-09	1.000000	7.03953e-09	1.000000
rad61	4.12272e-09	1.000000	4.12278e-09	1.000000
rad41	2.02447e-09	1.000000	2.02451e-09	1.000000
rad53	1.31432e-09	1.000000	1.31434e-09	1.000000
rad56	7.88429e-10	1.000000	7.88442e-10	1.000000
rad65	5.65099e-10	1.000000	5.65110e-10	1.000000
rad64	4.71855e-10	1.000000	4.71863e-10	1.000000
PAH8+H	3.09750e-10	1.000000	3.09755e-10	1.000000
rad42	2.59222e-10	1.000000	2.59226e-10	1.000000
rad68syn	1.64237e-10	1.000000	1.64240e-10	1.000000
rad68anti	1.08793e-10	1.000000	1.08795e-10	1.000000
rad40syn	7.30616e-11	1.000000	7.30629e-11	1.000000
rad73	6.65985e-11	1.000000	6.65997e-11	1.000000
rad40anti	5.52184e-11	1.000000	5.52194e-11	1.000000
rad71	5.18858e-11	1.000000	5.18867e-11	1.000000
rad9	4.55533e-11	1.000000	4.55541e-11	1.000000
rad72	4.47191e-13	1.000000	4.47198e-13	1.000000
rad12	7.27751e-14	1.000000	7.27764e-14	1.000000
rad15	8.21864e-15	1.000000	8.21879e-15	1.000000
rad23	5.64060e-15	1.000000	5.64069e-15	1.000000
rad19anti	3.42048e-15	1.000000	3.42054e-15	1.000000
rad45	2.12779e-15	1.000000	2.12783e-15	1.000000
rad2	2.03686e-15	1.000000	2.03690e-15	1.000000
rad6	9.67691e-16	1.000000	9.67705e-16	1.000000
rad1	6.09739e-16	1.000000	6.09750e-16	1.000000
rad36	2.26542e-16	1.000000	2.26546e-16	1.000000
rad19syn	1.42443e-16	1.000000	1.42446e-16	1.000000
rad10	4.75081e-17	1.000000	4.75089e-17	1.000000
rad21	2.11576e-17	1.000000	2.11580e-17	1.000000
rad3	2.07742e-17	1.000000	2.07746e-17	1.000000
rad4	1.71774e-17	1.000000	1.71776e-17	1.000000
rad8	6.27706e-18	1.000000	6.27717e-18	1.000000
rad20	4.93246e-18	1.000000	4.93255e-18	1.000000
rad24	3.61522e-18	1.000000	3.61528e-18	1.000000
rad33	2.31463e-18	1.000000	2.31466e-18	1.000000
rad13	2.20976e-18	1.000000	2.20979e-18	1.000000
rad7	2.79635e-19	1.000000	2.79640e-19	1.000000
rad26	2.21114e-19	1.000000	2.21118e-19	1.000000
rad31	2.18570e-19	1.000000	2.18575e-19	1.000000
rad11	1.99707e-19	1.000000	1.99711e-19	1.000000
rad25	7.69191e-20	1.000000	7.69204e-20	1.000000
rad28	6.68955e-20	1.000000	6.68966e-20	1.000000
rad27	5.63097e-20	1.000000	5.63107e-20	1.000000
rad22	3.45350e-20	1.000000	3.45357e-20	1.000000
rad14	4.01811e-21	1.000000	4.01818e-21	1.000000
rad47	1.62908e-21	1.000000	1.62911e-21	1.000000
rad18	4.30618e-22	1.000000	4.30625e-22	1.000000
rad5	3.79094e-28	1.000000	3.79100e-28	1.000000

0.100000000E-04 Pa, 1100.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.81236e-12 (1.00)	2.81222e-12 (1.00)
Formation of rad19	2.25993e-12 (0.804)	2.25980e-12 (0.804)
H-abstraction to cyc2enyl	4.30538e-13 (0.153)	4.30538e-13 (0.153)
H-abstraction to cyclenyl	1.21896e-13 (0.0433)	1.21889e-13 (0.0433)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.745455	0.745455	0.745493	0.745493
Benzene+cycloprop-2-enylidene	0.153088	0.898543	0.153095	0.898588
PhCHCCH2+H	0.0504085	0.948951	0.0504110	0.948999
Benzene+cycloprop-1-enylidene	0.0433429	0.992294	0.0433425	0.992342
Ph+MeAc	0.00159989	0.993894	0.00159997	0.993942
C2H2+PhCH2	0.00157393	0.995468	0.00157401	0.995516
Ph+Allene	0.00139377	0.996862	0.00139384	0.996909
PhCCCH3+H	0.000746146	0.997608	0.000746184	0.997656
PhCH2CCH+H	0.000685299	0.998293	0.000685333	0.998341
rad67	0.000551509	0.998845	0.000551537	0.998892
PhCCH+CH3	0.000499927	0.999345	0.000499952	0.999392
rad35	0.000198904	0.999544	0.000198914	0.999591
PhcycC3H3_A+H	0.000160985	0.999705	0.000160994	0.999752
PhcycC3H3_B+H	0.000108569	0.999813	0.000108575	0.999861
Phenyl+cycC3H4	4.74535e-05	0.999861	0.000000	0.999861

PAH7+H	4.44306e-05	0.999905	4.44328e-05	0.999905
rad37	3.57976e-05	0.999941	3.57993e-05	0.999941
PAH10+CH3	2.47740e-05	0.999966	2.47753e-05	0.999966
rad39	8.15502e-06	0.999974	8.15543e-06	0.999974
rad30	6.70503e-06	0.999981	6.70536e-06	0.999981
PAH9+H	6.62670e-06	0.999987	6.62703e-06	0.999987
rad38	6.20642e-06	0.999993	6.20672e-06	0.999994
PAH3+H	3.44988e-06	0.999997	3.45006e-06	0.999997
rad46	7.53032e-07	0.999998	7.53070e-07	0.999998
rad54	4.48842e-07	0.999998	4.48864e-07	0.999998
rad60syn	4.32688e-07	0.999998	4.32709e-07	0.999999
rad59	3.79560e-07	0.999999	3.79579e-07	0.999999
rad50	3.42341e-07	0.999999	3.42358e-07	0.999999
PAH1+H	2.85109e-07	0.999999	2.85123e-07	1.000000
rad60anti	2.61576e-07	1.000000	2.61589e-07	1.000000
rad43	1.34197e-07	1.000000	1.34204e-07	1.000000
rad70	9.71315e-08	1.000000	9.71362e-08	1.000000
rad51	5.83466e-08	1.000000	5.83495e-08	1.000000
rad55	2.73128e-08	1.000000	2.73142e-08	1.000000
rad52	2.29834e-08	1.000000	2.29845e-08	1.000000
rad58	1.92024e-08	1.000000	1.92034e-08	1.000000
rad34	1.87451e-08	1.000000	1.87461e-08	1.000000
rad61	1.28390e-08	1.000000	1.28397e-08	1.000000
rad62	1.28154e-08	1.000000	1.28161e-08	1.000000
rad41	5.04814e-09	1.000000	5.04840e-09	1.000000
rad53	3.43664e-09	1.000000	3.43682e-09	1.000000
rad56	2.33966e-09	1.000000	2.33978e-09	1.000000
rad65	1.78385e-09	1.000000	1.78394e-09	1.000000
PAH8+H	1.24981e-09	1.000000	1.24987e-09	1.000000
rad64	1.19311e-09	1.000000	1.19317e-09	1.000000
rad42	5.61778e-10	1.000000	5.61806e-10	1.000000
rad68syn	5.31777e-10	1.000000	5.31804e-10	1.000000
rad68anti	3.50889e-10	1.000000	3.50907e-10	1.000000
rad73	3.32911e-10	1.000000	3.32927e-10	1.000000
rad71	2.96146e-10	1.000000	2.96160e-10	1.000000
rad40syn	2.67659e-10	1.000000	2.67673e-10	1.000000
rad40anti	2.04456e-10	1.000000	2.04466e-10	1.000000
rad9	4.10477e-11	1.000000	4.10497e-11	1.000000
rad72	3.56688e-12	1.000000	3.56706e-12	1.000000
rad12	7.93739e-14	1.000000	7.93779e-14	1.000000
rad15	7.34609e-15	1.000000	7.34645e-15	1.000000
rad23	5.34708e-15	1.000000	5.34735e-15	1.000000
rad19anti	2.56276e-15	1.000000	2.56289e-15	1.000000
rad45	2.19511e-15	1.000000	2.19522e-15	1.000000
rad2	1.60725e-15	1.000000	1.60733e-15	1.000000
rad6	6.87051e-16	1.000000	6.87086e-16	1.000000
rad1	4.73826e-16	1.000000	4.73849e-16	1.000000
rad36	2.28861e-16	1.000000	2.28872e-16	1.000000
rad19syn	1.28391e-16	1.000000	1.28398e-16	1.000000
rad21	9.63737e-17	1.000000	9.63784e-17	1.000000
rad8	7.65078e-17	1.000000	7.65117e-17	1.000000
rad10	3.88849e-17	1.000000	3.88868e-17	1.000000
rad13	3.15591e-17	1.000000	3.15606e-17	1.000000
rad20	2.48655e-17	1.000000	2.48667e-17	1.000000
rad3	1.50748e-17	1.000000	1.50755e-17	1.000000
rad4	1.23983e-17	1.000000	1.23989e-17	1.000000
rad33	8.69060e-18	1.000000	8.69109e-18	1.000000
rad24	7.72326e-18	1.000000	7.72364e-18	1.000000
rad11	5.60981e-18	1.000000	5.61009e-18	1.000000
rad25	7.88055e-19	1.000000	7.88094e-19	1.000000
rad27	4.73304e-19	1.000000	4.73328e-19	1.000000
rad7	4.44634e-19	1.000000	4.44657e-19	1.000000
rad31	2.41068e-19	1.000000	2.41079e-19	1.000000
rad26	1.62716e-19	1.000000	1.62725e-19	1.000000
rad28	5.08636e-20	1.000000	5.08661e-20	1.000000
rad18	4.94647e-20	1.000000	4.94672e-20	1.000000
rad22	3.85925e-20	1.000000	3.85945e-20	1.000000
rad14	3.73381e-20	1.000000	3.73399e-20	1.000000
rad47	5.24230e-21	1.000000	5.24256e-21	1.000000
rad5	1.11265e-26	1.000000	1.11270e-26	1.000000

0.100000000E-04 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.72623e-12 (1.00)	3.72576e-12 (1.00)
Formation of rad19	2.86288e-12 (0.768)	2.86245e-12 (0.768)
H-abstraction to cyc2enyl	6.53266e-13 (0.175)	6.53266e-13 (0.175)
H-abstraction to cyclenyl	2.10085e-13 (0.0564)	2.10053e-13 (0.0564)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.687506	0.687506	0.687593	0.687593
Benzene+cycloprop-2-enylidene	0.175315	0.862821	0.175337	0.862930
PhCHCCH2+H	0.0694470	0.932268	0.0694557	0.932386
Benzene+cycloprop-1-enylidene	0.0563801	0.988648	0.0563786	0.988764
Ph+MeAc	0.00227272	0.990921	0.00227301	0.991037
C2H2+PhCH2	0.00219121	0.993112	0.00219148	0.993229
Ph+Allene	0.00207994	0.995192	0.00208020	0.995309
PhCH2CCH+H	0.00110691	0.996299	0.00110706	0.996416
PhCCCH3+H	0.00101200	0.997311	0.00101213	0.997428
rad67	0.000806305	0.998117	0.000806406	0.998235
PhCCH+CH3	0.000645716	0.998763	0.000645798	0.998880
PhcycC3H3_A+H	0.000345598	0.999109	0.000345641	0.999226
rad35	0.000290169	0.999399	0.000290206	0.999516
PhcycC3H3_B+H	0.000261273	0.999660	0.000261306	0.999778
Phenyl+cycC3H4	0.000117514	0.999778	0.000000	0.999778
PAH7+H	6.09151e-05	0.999838	6.09229e-05	0.999839
rad37	5.50993e-05	0.999894	5.51063e-05	0.999894
PAH10+CH3	4.81021e-05	0.999942	4.81082e-05	0.999942
PAH9+H	1.22285e-05	0.999954	1.22300e-05	0.999954
rad38	1.12958e-05	0.999965	1.12972e-05	0.999965
rad39	1.06983e-05	0.999976	1.06996e-05	0.999976
rad30	1.03391e-05	0.999986	1.03403e-05	0.999986
PAH3+H	6.91379e-06	0.999993	6.91466e-06	0.999993
rad46	1.50176e-06	0.999995	1.50195e-06	0.999995
rad50	8.20642e-07	0.999995	8.20743e-07	0.999996
rad54	7.81497e-07	0.999996	7.81598e-07	0.999996
rad60syn	7.65102e-07	0.999997	7.65199e-07	0.999997
rad59	7.35018e-07	0.999998	7.35111e-07	0.999998
PAH1+H	6.15259e-07	0.999998	6.15337e-07	0.999998
rad60anti	4.66711e-07	0.999999	4.66769e-07	0.999999
rad43	2.45550e-07	0.999999	2.45581e-07	0.999999
rad70	1.92605e-07	0.999999	1.92629e-07	0.999999
rad51	1.60721e-07	0.999999	1.60741e-07	1.000000
rad52	5.89508e-08	1.000000	5.89583e-08	1.000000
rad55	4.99974e-08	1.000000	5.00038e-08	1.000000
rad58	4.53331e-08	1.000000	4.53389e-08	1.000000
rad34	3.98655e-08	1.000000	3.98705e-08	1.000000
rad61	3.33579e-08	1.000000	3.33621e-08	1.000000
rad62	2.11968e-08	1.000000	2.11994e-08	1.000000
rad41	1.09917e-08	1.000000	1.09931e-08	1.000000
rad53	7.65059e-09	1.000000	7.65156e-09	1.000000
rad56	5.79402e-09	1.000000	5.79474e-09	1.000000
rad65	4.84114e-09	1.000000	4.84175e-09	1.000000
PAH8+H	4.08163e-09	1.000000	4.08215e-09	1.000000
rad64	2.59994e-09	1.000000	2.60027e-09	1.000000
rad68syn	1.43965e-09	1.000000	1.43983e-09	1.000000
rad73	1.32831e-09	1.000000	1.32848e-09	1.000000
rad71	1.32075e-09	1.000000	1.32091e-09	1.000000
rad42	1.07985e-09	1.000000	1.07999e-09	1.000000
rad68anti	9.46805e-10	1.000000	9.46926e-10	1.000000
rad40syn	8.05959e-10	1.000000	8.06061e-10	1.000000
rad40anti	6.21769e-10	1.000000	6.21848e-10	1.000000
rad9	2.96858e-11	1.000000	2.96895e-11	1.000000
rad72	2.08613e-11	1.000000	2.08640e-11	1.000000
rad12	7.13600e-14	1.000000	7.13690e-14	1.000000
rad15	5.82437e-15	1.000000	5.82511e-15	1.000000
rad23	4.93439e-15	1.000000	4.93502e-15	1.000000
rad45	2.14542e-15	1.000000	2.14569e-15	1.000000
rad19anti	1.93811e-15	1.000000	1.93836e-15	1.000000
rad2	1.22415e-15	1.000000	1.22430e-15	1.000000
rad6	6.01428e-16	1.000000	6.01504e-16	1.000000
rad1	3.58904e-16	1.000000	3.58949e-16	1.000000
rad8	2.53541e-16	1.000000	2.53574e-16	1.000000
rad36	2.22601e-16	1.000000	2.22629e-16	1.000000
rad21	2.06285e-16	1.000000	2.06311e-16	1.000000
rad13	1.26209e-16	1.000000	1.26225e-16	1.000000
rad19syn	1.13955e-16	1.000000	1.13970e-16	1.000000
rad11	9.73404e-17	1.000000	9.73524e-17	1.000000
rad20	5.30461e-17	1.000000	5.30528e-17	1.000000
rad10	3.45433e-17	1.000000	3.45477e-17	1.000000
rad33	1.49700e-17	1.000000	1.49719e-17	1.000000
rad24	1.18501e-17	1.000000	1.18516e-17	1.000000
rad3	1.07116e-17	1.000000	1.07129e-17	1.000000
rad4	8.76697e-18	1.000000	8.76812e-18	1.000000
rad7	7.06074e-18	1.000000	7.06162e-18	1.000000
rad25	2.92600e-18	1.000000	2.92637e-18	1.000000
rad18	1.64157e-18	1.000000	1.64178e-18	1.000000
rad27	1.52386e-18	1.000000	1.52405e-18	1.000000

rad31	2.55729e-19	1.000000	2.55762e-19	1.000000
rad14	1.32731e-19	1.000000	1.32748e-19	1.000000
rad26	1.27811e-19	1.000000	1.27826e-19	1.000000
rad22	4.13203e-20	1.000000	4.13255e-20	1.000000
rad28	4.12939e-20	1.000000	4.12991e-20	1.000000
rad47	1.43379e-20	1.000000	1.43397e-20	1.000000
rad5	5.08763e-25	1.000000	5.08827e-25	1.000000

0.100000000E-04 Pa, 1300.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.84401e-12 (1.00)	4.84262e-12 (1.00)
Formation of rad19	3.55537e-12 (0.734)	3.55411e-12 (0.734)
H-abstraction to cyc2enyl	9.48893e-13 (0.196)	9.48893e-13 (0.196)
H-abstraction to cyclenyl	3.39740e-13 (0.0701)	3.39620e-13 (0.0701)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.627161	0.627161	0.627340	0.627340
Benzene+cycloprop-2-enylidene	0.195890	0.823052	0.195946	0.823286
PhCHCCH2+H	0.0908777	0.913929	0.0909037	0.914190
Benzene+cycloprop-1-enylidene	0.0701362	0.984065	0.0701313	0.984321
Ph+MeAc	0.00304441	0.987110	0.00304527	0.987366
C2H2+PhCH2	0.00290372	0.990014	0.00290454	0.990271
Ph+Allene	0.00288470	0.992898	0.00288553	0.993157
PhCH2CCH+H	0.00165448	0.994553	0.00165495	0.994812
PhCCCH3+H	0.00130153	0.995854	0.00130190	0.996113
rad67	0.00110883	0.996963	0.00110915	0.997223
PhCCH+CH3	0.000809514	0.997773	0.000809751	0.998032
PhcycC3H3_A+H	0.000673391	0.998446	0.000673584	0.998706
PhcycC3H3_B+H	0.000561394	0.999007	0.000561554	0.999267
rad35	0.000398725	0.999406	0.000398838	0.999666
Phenyl+cycC3H4	0.000260506	0.999667	0.000000	0.999666
PAH10+CH3	8.38007e-05	0.999750	8.38250e-05	0.999750
PAH7+H	7.89117e-05	0.999829	7.89341e-05	0.999829
rad37	7.83568e-05	0.999908	7.83785e-05	0.999907
PAH9+H	2.08511e-05	0.999929	2.08571e-05	0.999928
rad38	1.88167e-05	0.999947	1.88221e-05	0.999947
rad30	1.49360e-05	0.999962	1.49402e-05	0.999962
rad39	1.33374e-05	0.999976	1.33412e-05	0.999975
PAH3+H	1.25732e-05	0.999988	1.25768e-05	0.999988
rad46	2.73965e-06	0.999991	2.74043e-06	0.999991
rad50	1.75696e-06	0.999993	1.75746e-06	0.999992
rad59	1.29584e-06	0.999994	1.29620e-06	0.999994
rad60syn	1.24692e-06	0.999995	1.24728e-06	0.999995
rad54	1.23055e-06	0.999996	1.23091e-06	0.999996
PAH1+H	1.18164e-06	0.999998	1.18197e-06	0.999997
rad60anti	7.66599e-07	0.999998	7.66824e-07	0.999998
rad43	4.10006e-07	0.999999	4.10123e-07	0.999999
rad51	3.87406e-07	0.999999	3.87517e-07	0.999999
rad70	3.43677e-07	1.000000	3.43775e-07	0.999999
rad52	1.33628e-07	1.000000	1.33666e-07	0.999999
rad58	9.48433e-08	1.000000	9.48705e-08	1.000000
rad55	8.22139e-08	1.000000	8.22375e-08	1.000000
rad34	7.56235e-08	1.000000	7.56447e-08	1.000000
rad61	7.45086e-08	1.000000	7.45298e-08	1.000000
rad62	3.23565e-08	1.000000	3.23657e-08	1.000000
rad41	2.13212e-08	1.000000	2.13273e-08	1.000000
rad53	1.49188e-08	1.000000	1.49231e-08	1.000000
rad56	1.23746e-08	1.000000	1.23782e-08	1.000000
rad65	1.15036e-08	1.000000	1.15069e-08	1.000000
PAH8+H	1.11832e-08	1.000000	1.11864e-08	1.000000
rad64	5.02551e-09	1.000000	5.02694e-09	1.000000
rad71	4.76253e-09	1.000000	4.76389e-09	1.000000
rad73	4.36513e-09	1.000000	4.36638e-09	1.000000
rad68syn	3.35945e-09	1.000000	3.36041e-09	1.000000
rad68anti	2.20311e-09	1.000000	2.20373e-09	1.000000
rad40syn	2.06131e-09	1.000000	2.06190e-09	1.000000
rad42	1.87919e-09	1.000000	1.87972e-09	1.000000
rad40anti	1.60444e-09	1.000000	1.60490e-09	1.000000
rad72	9.34613e-11	1.000000	9.34878e-11	1.000000
rad9	1.96469e-11	1.000000	1.96525e-11	1.000000
rad12	5.89852e-14	1.000000	5.90021e-14	1.000000
rad15	1.07568e-14	1.000000	1.07598e-14	1.000000
rad23	4.49139e-15	1.000000	4.49267e-15	1.000000
rad45	2.02987e-15	1.000000	2.03045e-15	1.000000
rad19anti	1.48394e-15	1.000000	1.48436e-15	1.000000
rad2	9.13907e-16	1.000000	9.14167e-16	1.000000
rad6	6.97720e-16	1.000000	6.97920e-16	1.000000

rad11	5.70104e-16	1.00000	5.70267e-16	1.000000
rad8	4.42248e-16	1.00000	4.42375e-16	1.000000
rad21	3.03536e-16	1.00000	3.03622e-16	1.000000
rad1	2.69034e-16	1.00000	2.69110e-16	1.000000
rad13	2.24561e-16	1.00000	2.24625e-16	1.000000
rad36	2.11145e-16	1.00000	2.11205e-16	1.000000
rad19syn	1.00706e-16	1.00000	1.00735e-16	1.000000
rad7	8.20964e-17	1.00000	8.21201e-17	1.000000
rad10	7.42414e-17	1.00000	7.42627e-17	1.000000
rad20	7.38165e-17	1.00000	7.38377e-17	1.000000
rad33	1.76734e-17	1.00000	1.76784e-17	1.000000
rad18	1.53529e-17	1.00000	1.53573e-17	1.000000
rad24	1.53474e-17	1.00000	1.53518e-17	1.000000
rad3	7.54540e-18	1.00000	7.54759e-18	1.000000
rad4	6.14445e-18	1.00000	6.14621e-18	1.000000
rad25	5.66799e-18	1.00000	5.66960e-18	1.000000
rad27	2.70871e-18	1.00000	2.70948e-18	1.000000
rad31	2.62744e-19	1.00000	2.62819e-19	1.000000
rad14	2.40834e-19	1.00000	2.40903e-19	1.000000
rad26	2.19748e-19	1.00000	2.19811e-19	1.000000
rad22	4.21218e-20	1.00000	4.21338e-20	1.000000
rad28	3.97701e-20	1.00000	3.97815e-20	1.000000
rad47	3.40948e-20	1.00000	3.41046e-20	1.000000
rad5	2.68038e-23	1.00000	2.68115e-23	1.000000

0.100000000E-04 Pa, 1400.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.19360e-12 (1.00)	6.18997e-12 (1.00)
Formation of rad19	4.34185e-12 (0.701)	4.33861e-12 (0.701)
H-abstraction to cyc2enyl	1.32990e-12 (0.215)	1.32990e-12 (0.215)
H-abstraction to cyclenyl	5.21850e-13 (0.0843)	5.21461e-13 (0.0842)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.566028	0.566028	0.566360	0.566360
Benzene+cycloprop-2-enylidene	0.214721	0.780749	0.214847	0.781207
PhCHCCH2+H	0.113526	0.894275	0.113593	0.894800
Benzene+cycloprop-1-enylidene	0.0842564	0.978532	0.0842429	0.979043
Ph+MeAc	0.00387284	0.982405	0.00387511	0.982918
Ph+Allene	0.00376036	0.986165	0.00376256	0.986680
C2H2+PhCH2	0.00367929	0.989844	0.00368145	0.990362
PhCH2CCH+H	0.00231297	0.992157	0.00231433	0.992676
PhCCCH3+H	0.00159640	0.993754	0.00159734	0.994274
rad67	0.00144409	0.995198	0.00144494	0.995719
PhcycC3H3_A+H	0.00120489	0.996403	0.00120559	0.996924
PhcycC3H3_B+H	0.00109183	0.997495	0.00109247	0.998017
PhCCH+CH3	0.000988680	0.998483	0.000989264	0.999006
Phenyl+cycC3H4	0.000523345	0.999007	0.000000	0.999006
rad35	0.000519418	0.999526	0.000519722	0.999526
PAH10+CH3	0.000132940	0.999659	0.000133019	0.999659
rad37	0.000103969	0.999763	0.000104030	0.999763
PAH7+H	9.76629e-05	0.999861	9.77202e-05	0.999860
PAH9+H	3.30451e-05	0.999894	3.30646e-05	0.999893
rad38	2.89869e-05	0.999923	2.90039e-05	0.999922
PAH3+H	2.09773e-05	0.999944	2.09896e-05	0.999943
rad30	2.03484e-05	0.999964	2.03603e-05	0.999964
rad39	1.60326e-05	0.999980	1.60420e-05	0.999980
rad46	4.60489e-06	0.999985	4.60759e-06	0.999984
rad50	3.39256e-06	0.999988	3.39455e-06	0.999988
rad59	2.10237e-06	0.999990	2.10360e-06	0.999990
PAH1+H	2.05214e-06	0.999992	2.05334e-06	0.999992
rad60syn	1.88965e-06	0.999994	1.89076e-06	0.999994
rad54	1.78086e-06	0.999996	1.78190e-06	0.999996
rad60anti	1.16973e-06	0.999997	1.17042e-06	0.999997
rad51	8.27129e-07	0.999998	8.27613e-07	0.999998
rad43	6.31782e-07	0.999998	6.32153e-07	0.999998
rad70	5.60217e-07	0.999999	5.60546e-07	0.999999
rad52	2.70713e-07	0.999999	2.70872e-07	0.999999
rad58	1.78428e-07	0.999999	1.78532e-07	0.999999
rad61	1.46277e-07	1.000000	1.46363e-07	0.999999
rad34	1.30056e-07	1.000000	1.30132e-07	1.000000
rad55	1.23571e-07	1.000000	1.23644e-07	1.000000
rad62	4.61529e-08	1.000000	4.61799e-08	1.000000
rad41	3.74002e-08	1.000000	3.74221e-08	1.000000
PAH8+H	2.63148e-08	1.000000	2.63303e-08	1.000000
rad53	2.60384e-08	1.000000	2.60537e-08	1.000000
rad65	2.42340e-08	1.000000	2.42482e-08	1.000000
rad56	2.33522e-08	1.000000	2.33659e-08	1.000000

rad71	1.41523e-08	1.00000	1.41606e-08	1.000000
rad73	1.20322e-08	1.00000	1.20393e-08	1.000000
rad64	8.79755e-09	1.00000	8.80273e-09	1.000000
rad68syn	6.90097e-09	1.00000	6.90502e-09	1.000000
rad40syn	4.57744e-09	1.00000	4.58013e-09	1.000000
rad68anti	4.51464e-09	1.00000	4.51729e-09	1.000000
rad40anti	3.59045e-09	1.00000	3.59256e-09	1.000000
rad42	3.00666e-09	1.00000	3.00843e-09	1.000000
rad72	3.28506e-10	1.00000	3.28699e-10	1.000000
rad9	1.25435e-11	1.00000	1.25508e-11	1.000000
rad12	4.68956e-14	1.00000	4.69231e-14	1.000000
rad15	3.69557e-14	1.00000	3.69773e-14	1.000000
rad23	4.05197e-15	1.00000	4.05434e-15	1.000000
rad45	1.87784e-15	1.00000	1.87894e-15	1.000000
rad11	1.44875e-15	1.00000	1.44959e-15	1.000000
rad19anti	1.15118e-15	1.00000	1.15186e-15	1.000000
rad6	9.17842e-16	1.00000	9.18374e-16	1.000000
rad2	6.76195e-16	1.00000	6.76592e-16	1.000000
rad8	5.66687e-16	1.00000	5.67019e-16	1.000000
rad21	3.67060e-16	1.00000	3.67275e-16	1.000000
rad7	3.48369e-16	1.00000	3.48574e-16	1.000000
rad13	2.61025e-16	1.00000	2.61178e-16	1.000000
rad10	2.50333e-16	1.00000	2.50480e-16	1.000000
rad1	2.01063e-16	1.00000	2.01181e-16	1.000000
rad36	1.96414e-16	1.00000	1.96529e-16	1.000000
rad19syn	8.90593e-17	1.00000	8.91116e-17	1.000000
rad20	8.28826e-17	1.00000	8.29310e-17	1.000000
rad18	5.37820e-17	1.00000	5.38136e-17	1.000000
rad24	1.80313e-17	1.00000	1.80420e-17	1.000000
rad33	1.72625e-17	1.00000	1.72727e-17	1.000000
rad25	7.72646e-18	1.00000	7.73097e-18	1.000000
rad3	5.30769e-18	1.00000	5.31080e-18	1.000000
rad4	4.29474e-18	1.00000	4.29726e-18	1.000000
rad27	3.50744e-18	1.00000	3.50950e-18	1.000000
rad26	2.35372e-18	1.00000	2.35511e-18	1.000000
rad14	3.02573e-19	1.00000	3.02751e-19	1.000000
rad31	2.62635e-19	1.00000	2.62789e-19	1.000000
rad28	7.25004e-20	1.00000	7.25435e-20	1.000000
rad47	7.15113e-20	1.00000	7.15531e-20	1.000000
rad22	4.87457e-20	1.00000	4.87744e-20	1.000000
rad5	1.14673e-21	1.00000	1.14741e-21	1.000000

0.100000000E-04 Pa, 1500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.80417e-12 (1.00)	7.79561e-12 (1.00)
Formation of rad19	5.22661e-12 (0.670)	5.21915e-12 (0.669)
H-abstraction to cyc2enyl	1.80920e-12 (0.232)	1.80920e-12 (0.232)
H-abstraction to cyclenyl	7.68359e-13 (0.0985)	7.67262e-13 (0.0984)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.505870	0.505870	0.506425	0.506425
Benzene+cycloprop-2-enylidene	0.231825	0.737695	0.232079	0.738505
PhCHCCH2+H	0.135967	0.873662	0.136116	0.874621
Benzene+cycloprop-1-enylidene	0.0984549	0.972117	0.0984223	0.973043
Ph+MeAc	0.00470570	0.976823	0.00471086	0.977754
Ph+Allene	0.00464760	0.981470	0.00465271	0.982407
C2H2+PhCH2	0.00447301	0.985943	0.00447791	0.986885
PhCH2CCH+H	0.00304819	0.988991	0.00305154	0.989936
PhcycC3H3_A+H	0.00198976	0.990981	0.00199195	0.991928
PhcycC3H3_B+H	0.00193280	0.992914	0.00193492	0.993863
PhCCCH3+H	0.00187667	0.994791	0.00187873	0.995742
rad67	0.00179097	0.996582	0.00179294	0.997535
PhCCH+CH3	0.00117783	0.997759	0.00117912	0.998714
Phenyl+cycC3H4	0.000956146	0.998716	0.000000	0.998714
rad35	0.000644848	0.999360	0.000645555	0.999360
PAH10+CH3	0.000194190	0.999555	0.000194404	0.999554
rad37	0.000129806	0.999684	0.000129949	0.999684
PAH7+H	0.000116417	0.999801	0.000116546	0.999800
PAH9+H	4.88535e-05	0.999850	4.89071e-05	0.999849
rad38	4.16011e-05	0.999891	4.16467e-05	0.999891
PAH3+H	3.23374e-05	0.999924	3.23729e-05	0.999923
rad30	2.62808e-05	0.999950	2.63097e-05	0.999950
rad39	1.87895e-05	0.999969	1.88102e-05	0.999968
rad46	7.16199e-06	0.999976	7.16986e-06	0.999976
rad50	5.93797e-06	0.999982	5.94449e-06	0.999982
PAH1+H	3.25722e-06	0.999985	3.26081e-06	0.999985
rad59	3.16156e-06	0.999988	3.16503e-06	0.999988

rad60syn	2.67968e-06	0.999991	2.68262e-06	0.999991
rad54	2.39838e-06	0.999993	2.40102e-06	0.999993
rad60anti	1.66867e-06	0.999995	1.67050e-06	0.999995
rad51	1.57342e-06	0.999996	1.57515e-06	0.999996
rad43	9.05576e-07	0.999997	9.06568e-07	0.999997
rad70	8.42763e-07	0.999998	8.43688e-07	0.999998
rad52	4.92950e-07	0.999999	4.93491e-07	0.999999
rad58	3.04448e-07	0.999999	3.04782e-07	0.999999
rad61	2.56145e-07	0.999999	2.56426e-07	0.999999
rad34	2.04934e-07	1.000000	2.05159e-07	0.999999
rad55	1.72012e-07	1.000000	1.72201e-07	1.000000
rad62	6.20586e-08	1.000000	6.21267e-08	1.000000
rad41	5.99063e-08	1.000000	5.99721e-08	1.000000
PAH8+H	5.38671e-08	1.000000	5.39262e-08	1.000000
rad65	4.55485e-08	1.000000	4.55985e-08	1.000000
rad53	4.12866e-08	1.000000	4.13319e-08	1.000000
rad56	3.95671e-08	1.000000	3.96105e-08	1.000000
rad71	3.49994e-08	1.000000	3.50378e-08	1.000000
rad73	2.80690e-08	1.000000	2.80998e-08	1.000000
rad64	1.41255e-08	1.000000	1.41409e-08	1.000000
rad68syn	1.26336e-08	1.000000	1.26475e-08	1.000000
rad40syn	8.93581e-09	1.000000	8.94564e-09	1.000000
rad68anti	8.24821e-09	1.000000	8.25726e-09	1.000000
rad40anti	7.05383e-09	1.000000	7.06153e-09	1.000000
rad42	4.46777e-09	1.000000	4.47268e-09	1.000000
rad72	9.20557e-10	1.000000	9.21571e-10	1.000000
rad9	7.93344e-12	1.000000	7.94212e-12	1.000000
rad15	7.50797e-14	1.000000	7.51619e-14	1.000000
rad12	3.66370e-14	1.000000	3.66772e-14	1.000000
rad23	3.61470e-15	1.000000	3.61867e-15	1.000000
rad11	2.20562e-15	1.000000	2.20804e-15	1.000000
rad45	1.70690e-15	1.000000	1.70877e-15	1.000000
rad6	1.21797e-15	1.000000	1.21930e-15	1.000000
rad19anti	9.04718e-16	1.000000	9.05717e-16	1.000000
rad7	7.03802e-16	1.000000	7.04580e-16	1.000000
rad8	6.24614e-16	1.000000	6.25299e-16	1.000000
rad10	5.37538e-16	1.000000	5.38128e-16	1.000000
rad2	4.99077e-16	1.000000	4.99625e-16	1.000000
rad21	3.97611e-16	1.000000	3.98048e-16	1.000000
rad13	2.43538e-16	1.000000	2.43806e-16	1.000000
rad36	1.79697e-16	1.000000	1.79894e-16	1.000000
rad1	1.50405e-16	1.000000	1.50570e-16	1.000000
rad18	1.01390e-16	1.000000	1.01502e-16	1.000000
rad20	8.29636e-17	1.000000	8.30546e-17	1.000000
rad19syn	7.89908e-17	1.000000	7.90771e-17	1.000000
rad26	2.52416e-17	1.000000	2.52693e-17	1.000000
rad24	1.99082e-17	1.000000	1.99301e-17	1.000000
rad33	1.52243e-17	1.000000	1.52410e-17	1.000000
rad25	8.67515e-18	1.000000	8.68467e-18	1.000000
rad27	3.81185e-18	1.000000	3.81603e-18	1.000000
rad3	3.74489e-18	1.000000	3.74901e-18	1.000000
rad4	3.00474e-18	1.000000	3.00804e-18	1.000000
rad28	4.63959e-19	1.000000	4.64468e-19	1.000000
rad22	3.39928e-19	1.000000	3.40301e-19	1.000000
rad14	3.12704e-19	1.000000	3.13047e-19	1.000000
rad31	2.56266e-19	1.000000	2.56547e-19	1.000000
rad47	1.33181e-19	1.000000	1.33327e-19	1.000000
rad5	2.92015e-20	1.000000	2.92336e-20	1.000000

0.100000000E-05 Pa, 20.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.24541e-22 (1.00)	1.24541e-22 (1.00)
Formation of rad19	1.24541e-22 (1.00)	1.24541e-22 (1.00)
H-abstraction to cyc2enyl	3.84323e-68 (3.09e-46)	3.84323e-68 (3.09e-46)
H-abstraction to cyclenyl	6.26313e-106 (5.03e-84)	6.26313e-106 (5.03e-84)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999772	0.999772	0.999772	0.999772
PhCHCCH2+H	0.000217190	0.999989	0.000217190	0.999989
PhCCH+CH3	3.74993e-06	0.999993	3.74993e-06	0.999993
C2H2+PhCH2	2.66078e-06	0.999996	2.66078e-06	0.999996
PhCCCH3+H	2.10744e-06	0.999998	2.10744e-06	0.999998
Ph+MeAc	1.55535e-06	0.999999	1.55535e-06	0.999999
rad67	4.72016e-07	1.000000	4.72016e-07	1.000000
rad35	2.09059e-07	1.000000	2.09059e-07	1.000000
Ph+Allene	1.34638e-07	1.000000	1.34638e-07	1.000000
PAH7+H	1.78372e-08	1.000000	1.78372e-08	1.000000

PhCH2CCH+H	1.63594e-08	1.00000	1.63594e-08	1.00000
rad39	5.03015e-09	1.00000	5.03015e-09	1.00000
rad37	4.62672e-09	1.00000	4.62672e-09	1.00000
rad30	3.90781e-09	1.00000	3.90781e-09	1.00000
PAH9+H	2.53961e-10	1.00000	2.53961e-10	1.00000
rad38	1.06938e-10	1.00000	1.06938e-10	1.00000
rad60syn	1.69319e-11	1.00000	1.69319e-11	1.00000
rad60anti	8.26559e-12	1.00000	8.26559e-12	1.00000
PAH3+H	6.72155e-12	1.00000	6.72155e-12	1.00000
rad46	6.42599e-12	1.00000	6.42599e-12	1.00000
PAH10+CH3	5.52880e-12	1.00000	5.52880e-12	1.00000
rad59	1.39467e-12	1.00000	1.39467e-12	1.00000
PhcycC3H3_A+H	4.13677e-13	1.00000	4.13677e-13	1.00000
rad43	2.58810e-13	1.00000	2.58810e-13	1.00000
rad54	2.05784e-13	1.00000	2.05784e-13	1.00000
rad62	5.54304e-14	1.00000	5.54304e-14	1.00000
rad50	4.23314e-14	1.00000	4.23314e-14	1.00000
rad70	3.14360e-15	1.00000	3.14360e-15	1.00000
rad55	1.37811e-15	1.00000	1.37811e-15	1.00000
PAH1+H	5.58589e-16	1.00000	5.58589e-16	1.00000
rad52	2.67813e-16	1.00000	2.67813e-16	1.00000
rad58	7.50233e-17	1.00000	7.50233e-17	1.00000
rad51	6.49686e-17	1.00000	6.49686e-17	1.00000
rad34	2.91047e-17	1.00000	2.91047e-17	1.00000
Phenyl+cycC3H4	2.77347e-17	1.00000	0.00000	1.00000
rad42	3.04828e-18	1.00000	3.04828e-18	1.00000
rad41	2.76406e-18	1.00000	2.76406e-18	1.00000
rad65	1.27713e-18	1.00000	1.27713e-18	1.00000
rad6	1.90001e-27	1.00000	1.90001e-27	1.00000
PhcycC3H3_B+H	2.48349e-29	1.00000	2.48349e-29	1.00000
rad28	1.00334e-29	1.00000	1.00334e-29	1.00000
rad26	6.39777e-30	1.00000	6.39777e-30	1.00000
rad53	1.11872e-30	1.00000	1.11872e-30	1.00000
rad2	7.15883e-31	1.00000	7.15883e-31	1.00000
rad47	5.36323e-31	1.00000	5.36323e-31	1.00000
rad7	1.37114e-31	1.00000	1.37114e-31	1.00000
rad1	4.52201e-32	1.00000	4.52201e-32	1.00000
rad10	3.65995e-32	1.00000	3.65995e-32	1.00000
rad11	3.35688e-32	1.00000	3.35688e-32	1.00000
rad64	4.89222e-33	1.00000	4.89222e-33	1.00000
rad3	4.61323e-33	1.00000	4.61323e-33	1.00000
rad4	2.33002e-33	1.00000	2.33002e-33	1.00000
rad13	7.56986e-34	1.00000	7.56986e-34	1.00000
rad14	2.30566e-34	1.00000	2.30566e-34	1.00000
rad25	1.06282e-34	1.00000	1.06282e-34	1.00000
rad9	3.83097e-35	1.00000	3.83097e-35	1.00000
rad27	2.20785e-35	1.00000	2.20785e-35	1.00000
rad19anti	1.76073e-35	1.00000	1.76073e-35	1.00000
rad33	1.42243e-36	1.00000	1.42243e-36	1.00000
rad5	7.33417e-37	1.00000	7.33417e-37	1.00000
rad15	1.65642e-38	1.00000	1.65642e-38	1.00000
rad31	1.08616e-39	1.00000	1.08616e-39	1.00000
rad61	5.02970e-40	1.00000	5.02970e-40	1.00000
rad20	9.10906e-42	1.00000	9.10906e-42	1.00000
rad21	7.01859e-42	1.00000	7.01859e-42	1.00000
rad56	3.36999e-42	1.00000	3.36999e-42	1.00000
rad23	2.21398e-43	1.00000	2.21398e-43	1.00000
rad12	2.18442e-43	1.00000	2.18442e-43	1.00000
rad18	8.61487e-44	1.00000	8.61487e-44	1.00000
rad68syn	2.54067e-44	1.00000	2.54067e-44	1.00000
rad68anti	2.17435e-44	1.00000	2.17435e-44	1.00000
rad22	5.00038e-45	1.00000	5.00038e-45	1.00000
rad45	1.41264e-45	1.00000	1.41264e-45	1.00000
rad19syn	1.37416e-45	1.00000	1.37416e-45	1.00000
Benzene+cycloprop-2-enylidene	3.08591e-46	1.00000	3.08591e-46	1.00000
rad36	8.66418e-47	1.00000	8.66418e-47	1.00000
rad24	7.44560e-48	1.00000	7.44560e-48	1.00000
rad73	2.07039e-52	1.00000	2.07039e-52	1.00000
rad40syn	2.93473e-53	1.00000	2.93473e-53	1.00000
rad40anti	2.41849e-53	1.00000	2.41849e-53	1.00000
PAH8+H	1.12095e-57	1.00000	1.12095e-57	1.00000
rad71	3.49462e-61	1.00000	3.49462e-61	1.00000
rad8	2.40365e-65	1.00000	2.40365e-65	1.00000
Benzene+cycloprop-1-enylidene	5.02895e-84	1.00000	5.02895e-84	1.00000

0.100000000E-05 Pa, 30.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.13009e-20 (1.00)	8.13009e-20 (1.00)

Formation of rad19 | 8.13009e-20 (1.00) 8.13009e-20 (1.00)
H-abstraction to cyc2enyl | 1.08880e-49 (1.34e-30) 1.08880e-49 (1.34e-30)
H-abstraction to cyclenyl | 7.55172e-75 (9.29e-56) 7.55172e-75 (9.29e-56)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999770	0.999770	0.999770	0.999770
PhCHCCH2+H	0.000218740	0.999989	0.000218740	0.999989
PhCCH+CH3	3.77922e-06	0.999993	3.77922e-06	0.999993
C2H2+PhCH2	2.68544e-06	0.999995	2.68544e-06	0.999995
PhCCCH3+H	2.12543e-06	0.999997	2.12543e-06	0.999997
Ph+MeAc	1.57151e-06	0.999999	1.57151e-06	0.999999
rad67	4.76660e-07	0.999999	4.76660e-07	0.999999
rad35	2.11031e-07	1.000000	2.11031e-07	1.000000
Ph+Allene	1.36498e-07	1.000000	1.36498e-07	1.000000
PAH7+H	1.80489e-08	1.000000	1.80489e-08	1.000000
PhCH2CCH+H	1.66214e-08	1.000000	1.66214e-08	1.000000
rad39	5.09006e-09	1.000000	5.09006e-09	1.000000
rad37	4.68501e-09	1.000000	4.68501e-09	1.000000
rad30	3.94539e-09	1.000000	3.94539e-09	1.000000
PAH9+H	2.57108e-10	1.000000	2.57108e-10	1.000000
rad38	1.08384e-10	1.000000	1.08384e-10	1.000000
rad60syn	1.71588e-11	1.000000	1.71588e-11	1.000000
rad60anti	8.37914e-12	1.000000	8.37914e-12	1.000000
PAH3+H	6.84326e-12	1.000000	6.84326e-12	1.000000
rad46	6.51963e-12	1.000000	6.51963e-12	1.000000
PAH10+CH3	5.67120e-12	1.000000	5.67120e-12	1.000000
rad59	1.41896e-12	1.000000	1.41896e-12	1.000000
PhcycC3H3_A+H	4.42422e-13	1.000000	4.42422e-13	1.000000
rad43	2.64743e-13	1.000000	2.64743e-13	1.000000
rad54	2.11003e-13	1.000000	2.11003e-13	1.000000
rad62	5.67504e-14	1.000000	5.67504e-14	1.000000
rad50	4.32260e-14	1.000000	4.32260e-14	1.000000
rad70	3.24821e-15	1.000000	3.24821e-15	1.000000
rad55	1.42504e-15	1.000000	1.42504e-15	1.000000
PAH1+H	5.84853e-16	1.000000	5.84853e-16	1.000000
rad52	2.74819e-16	1.000000	2.74819e-16	1.000000
rad58	7.77933e-17	1.000000	7.77933e-17	1.000000
rad51	6.70681e-17	1.000000	6.70681e-17	1.000000
Phenyl+cycC3H4	5.25631e-17	1.000000	0.000000	1.000000
rad34	3.05742e-17	1.000000	3.05742e-17	1.000000
rad42	3.20851e-18	1.000000	3.20851e-18	1.000000
rad41	2.96188e-18	1.000000	2.96188e-18	1.000000
rad65	1.32250e-18	1.000000	1.32250e-18	1.000000
rad6	2.22647e-28	1.000000	2.22647e-28	1.000000
PhcycC3H3_B+H	6.03248e-29	1.000000	6.03248e-29	1.000000
rad28	2.00714e-30	1.000000	2.00714e-30	1.000000
rad26	1.75908e-30	1.000000	1.75908e-30	1.000000
Benzene+cycloprop-2-enylidene	1.33923e-30	1.000000	1.33923e-30	1.000000
rad53	8.32720e-31	1.000000	8.32720e-31	1.000000
rad47	2.66203e-31	1.000000	2.66203e-31	1.000000
rad2	8.36027e-32	1.000000	8.36027e-32	1.000000
rad7	1.60692e-32	1.000000	1.60692e-32	1.000000
rad1	5.28371e-33	1.000000	5.28371e-33	1.000000
rad10	4.28528e-33	1.000000	4.28528e-33	1.000000
rad11	3.93349e-33	1.000000	3.93349e-33	1.000000
rad64	3.66442e-33	1.000000	3.66442e-33	1.000000
rad3	5.42266e-34	1.000000	5.42266e-34	1.000000
rad4	2.73914e-34	1.000000	2.73914e-34	1.000000
rad14	1.12378e-34	1.000000	1.12378e-34	1.000000
rad13	8.87464e-35	1.000000	8.87464e-35	1.000000
rad25	5.19473e-35	1.000000	5.19473e-35	1.000000
rad27	1.06285e-35	1.000000	1.06285e-35	1.000000
rad19anti	9.43586e-36	1.000000	9.43586e-36	1.000000
rad9	6.69992e-36	1.000000	6.69992e-36	1.000000
rad5	2.15601e-37	1.000000	2.15601e-37	1.000000
rad33	1.67113e-37	1.000000	1.67113e-37	1.000000
rad15	2.89813e-39	1.000000	2.89813e-39	1.000000
rad31	5.66579e-40	1.000000	5.66579e-40	1.000000
rad61	3.99442e-40	1.000000	3.99442e-40	1.000000
rad20	3.26847e-42	1.000000	3.26847e-42	1.000000
rad56	2.62111e-42	1.000000	2.62111e-42	1.000000
rad21	2.56629e-42	1.000000	2.56629e-42	1.000000
rad12	5.15333e-44	1.000000	5.15333e-44	1.000000
rad18	3.76140e-44	1.000000	3.76140e-44	1.000000
rad23	2.10153e-44	1.000000	2.10153e-44	1.000000
rad68syn	1.99237e-44	1.000000	1.99237e-44	1.000000
rad68anti	1.70467e-44	1.000000	1.70467e-44	1.000000
rad19syn	8.38610e-46	1.000000	8.38610e-46	1.000000
rad22	6.68079e-46	1.000000	6.68079e-46	1.000000

rad45	1.32895e-46	1.000000	1.32895e-46	1.000000
rad36	8.14950e-48	1.000000	8.14950e-48	1.000000
rad24	3.80191e-48	1.000000	3.80191e-48	1.000000
rad73	1.66968e-52	1.000000	1.66968e-52	1.000000
rad40syn	2.57254e-53	1.000000	2.57254e-53	1.000000
rad40anti	2.11974e-53	1.000000	2.11974e-53	1.000000
Benzene+cycloprop-1-enylidene	9.28861e-56	1.000000	9.28861e-56	1.000000
PAH8+H	1.00611e-57	1.000000	1.00611e-57	1.000000
rad71	2.96455e-61	1.000000	2.96455e-61	1.000000
rad8	1.26714e-65	1.000000	1.26714e-65	1.000000

0.100000000E-05 Pa, 40.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.24819e-18 (1.00)	2.24819e-18 (1.00)
Formation of rad19	2.24819e-18 (1.00)	2.24819e-18 (1.00)
H-abstraction to cyc2enyl	1.72361e-40 (7.67e-23)	1.72361e-40 (7.67e-23)
H-abstraction to cyclenyl	2.48792e-59 (1.11e-41)	2.48792e-59 (1.11e-41)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999767	0.999767	0.999767	0.999767
PhCHCCH2+H	0.000221748	0.999989	0.000221748	0.999989
PhCCH+CH3	3.83605e-06	0.999993	3.83605e-06	0.999993
C2H2+PhCH2	2.73340e-06	0.999995	2.73340e-06	0.999995
PhCCH3+H	2.16038e-06	0.999997	2.16038e-06	0.999997
Ph+MeAc	1.60299e-06	0.999999	1.60299e-06	0.999999
rad67	4.85697e-07	1.000000	4.85697e-07	1.000000
rad35	2.14867e-07	1.000000	2.14867e-07	1.000000
Ph+Allene	1.40139e-07	1.000000	1.40139e-07	1.000000
PAH7+H	1.84620e-08	1.000000	1.84620e-08	1.000000
PhCH2CCH+H	1.71356e-08	1.000000	1.71356e-08	1.000000
rad39	5.20698e-09	1.000000	5.20698e-09	1.000000
rad37	4.79888e-09	1.000000	4.79888e-09	1.000000
rad30	4.01853e-09	1.000000	4.01853e-09	1.000000
PAH9+H	2.63258e-10	1.000000	2.63258e-10	1.000000
rad38	1.11216e-10	1.000000	1.11216e-10	1.000000
rad60syn	1.76027e-11	1.000000	1.76027e-11	1.000000
rad60anti	8.60137e-12	1.000000	8.60137e-12	1.000000
PAH3+H	7.08284e-12	1.000000	7.08284e-12	1.000000
rad46	6.70312e-12	1.000000	6.70312e-12	1.000000
PAH10+CH3	5.95405e-12	1.000000	5.95405e-12	1.000000
rad59	1.46672e-12	1.000000	1.46672e-12	1.000000
PhcycC3H3_A+H	5.01394e-13	1.000000	5.01394e-13	1.000000
rad43	2.76481e-13	1.000000	2.76481e-13	1.000000
rad54	2.21364e-13	1.000000	2.21364e-13	1.000000
rad62	5.93636e-14	1.000000	5.93636e-14	1.000000
rad50	4.49943e-14	1.000000	4.49943e-14	1.000000
rad70	3.45812e-15	1.000000	3.45812e-15	1.000000
rad55	1.51896e-15	1.000000	1.51896e-15	1.000000
PAH1+H	6.38441e-16	1.000000	6.38441e-16	1.000000
rad52	2.88755e-16	1.000000	2.88755e-16	1.000000
Phenyl+cycC3H4	1.15738e-16	1.000000	0.000000	1.000000
rad58	8.33663e-17	1.000000	8.33663e-17	1.000000
rad51	7.12774e-17	1.000000	7.12774e-17	1.000000
rad34	3.35232e-17	1.000000	3.35232e-17	1.000000
rad42	3.55448e-18	1.000000	3.55448e-18	1.000000
rad41	3.38724e-18	1.000000	3.38724e-18	1.000000
rad65	1.41378e-18	1.000000	1.41378e-18	1.000000
Benzene+cycloprop-2-enylidene	7.66665e-23	1.000000	7.66665e-23	1.000000
PhcycC3H3_B+H	8.31319e-25	1.000000	8.31319e-25	1.000000
rad6	6.89327e-29	1.000000	6.89327e-29	1.000000
rad53	2.53036e-29	1.000000	2.53036e-29	1.000000
rad26	8.72989e-31	1.000000	8.72989e-31	1.000000
rad28	8.49739e-31	1.000000	8.49739e-31	1.000000
rad47	1.79768e-31	1.000000	1.79768e-31	1.000000
rad2	2.64439e-32	1.000000	2.64439e-32	1.000000
rad64	8.25055e-33	1.000000	8.25055e-33	1.000000
rad7	4.97799e-33	1.000000	4.97799e-33	1.000000
rad1	1.67314e-33	1.000000	1.67314e-33	1.000000
rad10	1.35732e-33	1.000000	1.35732e-33	1.000000
rad11	1.21864e-33	1.000000	1.21864e-33	1.000000
rad3	1.72430e-34	1.000000	1.72430e-34	1.000000
rad4	8.71192e-35	1.000000	8.71192e-35	1.000000
rad14	7.46482e-35	1.000000	7.46482e-35	1.000000
rad25	3.47701e-35	1.000000	3.47701e-35	1.000000
rad13	2.75034e-35	1.000000	2.75034e-35	1.000000
rad19anti	7.57597e-36	1.000000	7.57597e-36	1.000000
rad27	7.10490e-36	1.000000	7.10490e-36	1.000000

rad9	2.76854e-36	1.000000	2.76854e-36	1.000000
rad5	1.10160e-37	1.000000	1.10160e-37	1.000000
rad33	5.19682e-38	1.000000	5.19682e-38	1.000000
rad15	1.19844e-39	1.000000	1.19844e-39	1.000000
rad61	6.80057e-40	1.000000	6.80057e-40	1.000000
rad31	4.37025e-40	1.000000	4.37025e-40	1.000000
Benzene+cycloprop-1-enylidene	1.10663e-41	1.000000	1.10663e-41	1.000000
rad56	4.28757e-42	1.000000	4.28757e-42	1.000000
rad20	2.13462e-42	1.000000	2.13462e-42	1.000000
rad21	1.68750e-42	1.000000	1.68750e-42	1.000000
rad68syn	3.31672e-44	1.000000	3.31672e-44	1.000000
rad68anti	2.83620e-44	1.000000	2.83620e-44	1.000000
rad12	2.80103e-44	1.000000	2.80103e-44	1.000000
rad18	2.51192e-44	1.000000	2.51192e-44	1.000000
rad23	7.32246e-45	1.000000	7.32246e-45	1.000000
rad19syn	8.61360e-46	1.000000	8.61360e-46	1.000000
rad22	2.83342e-46	1.000000	2.83342e-46	1.000000
rad45	4.62444e-47	1.000000	4.62444e-47	1.000000
rad36	2.83486e-48	1.000000	2.83486e-48	1.000000
rad24	2.78176e-48	1.000000	2.78176e-48	1.000000
rad73	2.95424e-52	1.000000	2.95424e-52	1.000000
rad40syn	5.41710e-53	1.000000	5.41710e-53	1.000000
rad40anti	4.46185e-53	1.000000	4.46185e-53	1.000000
PAH8+H	2.23571e-57	1.000000	2.23571e-57	1.000000
rad71	5.87072e-61	1.000000	5.87072e-61	1.000000
rad8	9.75567e-66	1.000000	9.75567e-66	1.000000

0.100000000E-05 Pa, 50.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.72707e-17 (1.00)	1.72707e-17 (1.00)
Formation of rad19	1.72707e-17 (1.00)	1.72707e-17 (1.00)
H-abstraction to cyc2enyl	5.49905e-35 (3.18e-18)	5.49905e-35 (3.18e-18)
H-abstraction to cyclenyl	4.93090e-50 (2.86e-33)	4.93090e-50 (2.86e-33)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999763	0.999763	0.999763	0.999763
PhCHCCH2+H	0.000225658	0.999989	0.000225658	0.999989
PhCCH+CH3	3.90994e-06	0.999993	3.90994e-06	0.999993
C2H2+PhCH2	2.79605e-06	0.999995	2.79605e-06	0.999995
PhCCCH3+H	2.20592e-06	0.999998	2.20592e-06	0.999998
Ph+MeAc	1.64418e-06	0.999999	1.64418e-06	0.999999
rad67	4.97514e-07	1.000000	4.97514e-07	1.000000
rad35	2.19879e-07	1.000000	2.19879e-07	1.000000
Ph+Allene	1.44942e-07	1.000000	1.44942e-07	1.000000
PAH7+H	1.90048e-08	1.000000	1.90048e-08	1.000000
PhCH2CCH+H	1.78173e-08	1.000000	1.78173e-08	1.000000
rad39	5.36056e-09	1.000000	5.36056e-09	1.000000
rad37	4.94868e-09	1.000000	4.94868e-09	1.000000
rad30	4.11419e-09	1.000000	4.11419e-09	1.000000
PAH9+H	2.71352e-10	1.000000	2.71352e-10	1.000000
rad38	1.14954e-10	1.000000	1.14954e-10	1.000000
rad60syn	1.81880e-11	1.000000	1.81880e-11	1.000000
rad60anti	8.89466e-12	1.000000	8.89466e-12	1.000000
PAH3+H	7.40206e-12	1.000000	7.40206e-12	1.000000
rad46	6.94584e-12	1.000000	6.94584e-12	1.000000
PAH10+CH3	6.33665e-12	1.000000	6.33665e-12	1.000000
rad59	1.53025e-12	1.000000	1.53025e-12	1.000000
PhcycC3H3_A+H	5.85937e-13	1.000000	5.85937e-13	1.000000
rad43	2.92252e-13	1.000000	2.92252e-13	1.000000
rad54	2.35373e-13	1.000000	2.35373e-13	1.000000
rad62	6.28790e-14	1.000000	6.28790e-14	1.000000
rad50	4.73674e-14	1.000000	4.73674e-14	1.000000
rad70	3.74676e-15	1.000000	3.74676e-15	1.000000
rad55	1.64775e-15	1.000000	1.64775e-15	1.000000
PAH1+H	7.14027e-16	1.000000	7.14027e-16	1.000000
rad52	3.07655e-16	1.000000	3.07655e-16	1.000000
Phenyl+cycC3H4	2.36668e-16	1.000000	0.000000	1.000000
rad58	9.10706e-17	1.000000	9.10706e-17	1.000000
rad51	7.70606e-17	1.000000	7.70606e-17	1.000000
rad34	3.76206e-17	1.000000	3.76206e-17	1.000000
rad42	4.07396e-18	1.000000	4.07396e-18	1.000000
rad41	4.02391e-18	1.000000	4.02391e-18	1.000000
Benzene+cycloprop-2-enylidene	3.18404e-18	1.000000	3.18404e-18	1.000000
rad65	1.53994e-18	1.000000	1.53994e-18	1.000000
PhcycC3H3_B+H	2.98283e-22	1.000000	2.98283e-22	1.000000
rad53	8.14123e-27	1.000000	8.14123e-27	1.000000
rad6	3.08424e-29	1.000000	3.08424e-29	1.000000

rad64	5.79906e-30	1.00000	5.79906e-30	1.00000
rad26	5.39381e-31	1.00000	5.39381e-31	1.00000
rad28	4.72845e-31	1.00000	4.72845e-31	1.00000
rad47	1.37437e-31	1.00000	1.37437e-31	1.00000
rad2	1.22892e-32	1.00000	1.22892e-32	1.00000
Benzene+cycloprop-1-enylidene	2.85507e-33	1.00000	2.85507e-33	1.00000
rad7	2.22924e-33	1.00000	2.22924e-33	1.00000
rad1	7.78810e-34	1.00000	7.78810e-34	1.00000
rad10	6.31887e-34	1.00000	6.31887e-34	1.00000
rad11	5.45834e-34	1.00000	5.45834e-34	1.00000
rad3	8.06926e-35	1.00000	8.06926e-35	1.00000
rad14	5.62483e-35	1.00000	5.62483e-35	1.00000
rad4	4.07833e-35	1.00000	4.07833e-35	1.00000
rad25	2.64733e-35	1.00000	2.64733e-35	1.00000
rad13	1.23231e-35	1.00000	1.23231e-35	1.00000
rad19anti	7.56649e-36	1.00000	7.56649e-36	1.00000
rad27	5.41841e-36	1.00000	5.41841e-36	1.00000
rad9	1.62006e-36	1.00000	1.62006e-36	1.00000
rad5	6.96041e-38	1.00000	6.96041e-38	1.00000
rad33	2.33971e-38	1.00000	2.33971e-38	1.00000
rad61	1.95110e-39	1.00000	1.95110e-39	1.00000
rad15	7.01968e-40	1.00000	7.01968e-40	1.00000
rad31	4.11062e-40	1.00000	4.11062e-40	1.00000
rad56	1.18501e-41	1.00000	1.18501e-41	1.00000
rad20	1.68794e-42	1.00000	1.68794e-42	1.00000
rad21	1.34122e-42	1.00000	1.34122e-42	1.00000
rad68syn	9.39672e-44	1.00000	9.39672e-44	1.00000
rad68anti	8.02895e-44	1.00000	8.02895e-44	1.00000
rad12	2.09722e-44	1.00000	2.09722e-44	1.00000
rad18	1.95162e-44	1.00000	1.95162e-44	1.00000
rad23	3.95125e-45	1.00000	3.95125e-45	1.00000
rad19syn	1.15714e-45	1.00000	1.15714e-45	1.00000
rad22	1.73640e-46	1.00000	1.73640e-46	1.00000
rad45	2.49837e-47	1.00000	2.49837e-47	1.00000
rad24	2.40271e-48	1.00000	2.40271e-48	1.00000
rad36	1.53091e-48	1.00000	1.53091e-48	1.00000
rad73	9.15286e-52	1.00000	9.15286e-52	1.00000
rad40syn	2.11572e-52	1.00000	2.11572e-52	1.00000
rad40anti	1.74112e-52	1.00000	1.74112e-52	1.00000
PAH8+H	9.50869e-57	1.00000	9.50869e-57	1.00000
rad71	2.15906e-60	1.00000	2.15906e-60	1.00000
rad8	9.04688e-66	1.00000	9.04688e-66	1.00000

0.100000000E-05 Pa, 60.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.93738e-17 (1.00)	6.93738e-17 (1.00)
Formation of rad19	6.93738e-17 (1.000)	6.93738e-17 (1.000)
H-abstraction to cyc2enyl	2.50609e-31 (3.61e-15)	2.50609e-31 (3.61e-15)
H-abstraction to cyclenyl	7.62015e-44 (1.10e-27)	7.62015e-44 (1.10e-27)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999758	0.999758	0.999758	0.999758
PhCHCCH2+H	0.000230121	0.999988	0.000230121	0.999988
PhCCH+CH3	3.99427e-06	0.999992	3.99427e-06	0.999992
C2H2+PhCH2	2.86797e-06	0.999995	2.86797e-06	0.999995
PhCCCH3+H	2.25806e-06	0.999997	2.25806e-06	0.999997
Ph+MeAc	1.69157e-06	0.999999	1.69157e-06	0.999999
rad67	5.11098e-07	0.999999	5.11098e-07	0.999999
rad35	2.25634e-07	1.000000	2.25634e-07	1.000000
Ph+Allene	1.50530e-07	1.000000	1.50530e-07	1.000000
PAH7+H	1.96327e-08	1.000000	1.96327e-08	1.000000
PhCH2CCH+H	1.86153e-08	1.000000	1.86153e-08	1.000000
rad39	5.53819e-09	1.000000	5.53819e-09	1.000000
rad37	5.12226e-09	1.000000	5.12226e-09	1.000000
rad30	4.22418e-09	1.000000	4.22418e-09	1.000000
PAH9+H	2.80739e-10	1.000000	2.80739e-10	1.000000
rad38	1.19306e-10	1.000000	1.19306e-10	1.000000
rad60syn	1.88685e-11	1.000000	1.88685e-11	1.000000
rad60anti	9.23591e-12	1.000000	9.23591e-12	1.000000
PAH3+H	7.77808e-12	1.000000	7.77808e-12	1.000000
rad46	7.22907e-12	1.000000	7.22907e-12	1.000000
PAH10+CH3	6.79612e-12	1.000000	6.79612e-12	1.000000
rad59	1.60493e-12	1.000000	1.60493e-12	1.000000
PhcycC3H3_A+H	6.95715e-13	1.000000	6.95715e-13	1.000000
rad43	3.11028e-13	1.000000	3.11028e-13	1.000000
rad54	2.52186e-13	1.000000	2.52186e-13	1.000000
rad62	6.70704e-14	1.000000	6.70704e-14	1.000000

rad50	5.01887e-14	1.000000	5.01887e-14	1.000000
rad70	4.10054e-15	1.000000	4.10054e-15	1.000000
Benzene+cycloprop-2-enylidene	3.61245e-15	1.000000	3.61245e-15	1.000000
rad55	1.80524e-15	1.000000	1.80524e-15	1.000000
PAH1+H	8.09569e-16	1.000000	8.09569e-16	1.000000
Phenyl+cycC3H4	4.45921e-16	1.000000	0.000000	1.000000
rad52	3.30433e-16	1.000000	3.30433e-16	1.000000
rad58	1.00588e-16	1.000000	1.00588e-16	1.000000
rad51	8.41469e-17	1.000000	8.41469e-17	1.000000
rad34	4.27628e-17	1.000000	4.27628e-17	1.000000
rad41	4.87030e-18	1.000000	4.87030e-18	1.000000
rad42	4.76393e-18	1.000000	4.76393e-18	1.000000
rad65	1.69576e-18	1.000000	1.69576e-18	1.000000
PhcycC3H3_B+H	1.47017e-20	1.000000	1.47017e-20	1.000000
rad53	3.73130e-25	1.000000	3.73130e-25	1.000000
Benzene+cycloprop-1-enylidene	1.09842e-27	1.000000	1.09842e-27	1.000000
rad64	9.21681e-28	1.000000	9.21681e-28	1.000000
rad6	1.67966e-29	1.000000	1.67966e-29	1.000000
rad26	3.74656e-31	1.000000	3.74656e-31	1.000000
rad28	3.03705e-31	1.000000	3.03705e-31	1.000000
rad47	1.12621e-31	1.000000	1.12621e-31	1.000000
rad2	7.08335e-33	1.000000	7.08335e-33	1.000000
rad7	1.21535e-33	1.000000	1.21535e-33	1.000000
rad1	4.49800e-34	1.000000	4.49800e-34	1.000000
rad10	3.64846e-34	1.000000	3.64846e-34	1.000000
rad11	2.97658e-34	1.000000	2.97658e-34	1.000000
rad61	4.85071e-35	1.000000	4.85071e-35	1.000000
rad3	4.70089e-35	1.000000	4.70089e-35	1.000000
rad14	4.55956e-35	1.000000	4.55956e-35	1.000000
rad4	2.37694e-35	1.000000	2.37694e-35	1.000000
rad25	2.17200e-35	1.000000	2.17200e-35	1.000000
rad19anti	8.79995e-36	1.000000	8.79995e-36	1.000000
rad13	6.72262e-36	1.000000	6.72262e-36	1.000000
rad27	4.46004e-36	1.000000	4.46004e-36	1.000000
rad9	1.15307e-36	1.000000	1.15307e-36	1.000000
rad5	4.93404e-38	1.000000	4.93404e-38	1.000000
rad33	1.28455e-38	1.000000	1.28455e-38	1.000000
rad15	5.00180e-40	1.000000	5.00180e-40	1.000000
rad31	4.42100e-40	1.000000	4.42100e-40	1.000000
rad56	6.11515e-41	1.000000	6.11515e-41	1.000000
rad20	1.47836e-42	1.000000	1.47836e-42	1.000000
rad21	1.18059e-42	1.000000	1.18059e-42	1.000000
rad68syn	4.98107e-43	1.000000	4.98107e-43	1.000000
rad68anti	4.25212e-43	1.000000	4.25212e-43	1.000000
rad12	1.87049e-44	1.000000	1.87049e-44	1.000000
rad18	1.65074e-44	1.000000	1.65074e-44	1.000000
rad23	2.70119e-45	1.000000	2.70119e-45	1.000000
rad19syn	1.80508e-45	1.000000	1.80508e-45	1.000000
rad22	1.26162e-46	1.000000	1.26162e-46	1.000000
rad45	1.71566e-47	1.000000	1.71566e-47	1.000000
rad24	2.29926e-48	1.000000	2.29926e-48	1.000000
rad36	1.05087e-48	1.000000	1.05087e-48	1.000000
rad73	5.37842e-51	1.000000	5.37842e-51	1.000000
rad40syn	1.54572e-51	1.000000	1.54572e-51	1.000000
rad40anti	1.27007e-51	1.000000	1.27007e-51	1.000000
PAH8+H	7.80381e-56	1.000000	7.80381e-56	1.000000
rad71	1.56446e-59	1.000000	1.56446e-59	1.000000
rad8	9.43552e-66	1.000000	9.43552e-66	1.000000

0.100000000E-05 Pa, 70.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.91520e-16 (1.00)	1.91520e-16 (1.00)
Formation of rad19	1.91520e-16 (1.000)	1.91520e-16 (1.000)
H-abstraction to cyc2enyl	1.01125e-28 (5.28e-13)	1.01125e-28 (5.28e-13)
H-abstraction to cyclenyl	1.97822e-39 (1.03e-23)	1.97822e-39 (1.03e-23)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999753	0.999753	0.999753	0.999753
PhCHCCH2+H	0.000235006	0.999988	0.000235006	0.999988
PhCCH+CH3	4.08659e-06	0.999992	4.08659e-06	0.999992
C2H2+PhCH2	2.94722e-06	0.999995	2.94722e-06	0.999995
PhCCCH3+H	2.31532e-06	0.999997	2.31532e-06	0.999997
Ph+MeAc	1.74394e-06	0.999999	1.74394e-06	0.999999
rad67	5.26090e-07	1.000000	5.26090e-07	1.000000
rad35	2.31978e-07	1.000000	2.31978e-07	1.000000
Ph+Allene	1.56781e-07	1.000000	1.56781e-07	1.000000
PAH7+H	2.03305e-08	1.000000	2.03305e-08	1.000000

PhCH2CCH+H	1.95142e-08	1.00000	1.95142e-08	1.00000
rad39	5.73559e-09	1.00000	5.73559e-09	1.00000
rad37	5.31557e-09	1.00000	5.31557e-09	1.00000
rad30	4.34562e-09	1.00000	4.34562e-09	1.00000
PAH9+H	2.91202e-10	1.00000	2.91202e-10	1.00000
rad38	1.24178e-10	1.00000	1.24178e-10	1.00000
rad60syn	1.96290e-11	1.00000	1.96290e-11	1.00000
rad60anti	9.61777e-12	1.00000	9.61777e-12	1.00000
PAH3+H	8.20481e-12	1.00000	8.20481e-12	1.00000
rad46	7.54708e-12	1.00000	7.54708e-12	1.00000
PAH10+CH3	7.32916e-12	1.00000	7.32916e-12	1.00000
rad59	1.68948e-12	1.00000	1.68948e-12	1.00000
PhcycC3H3_A+H	8.34926e-13	1.00000	8.34926e-13	1.00000
Benzene+cycloprop-2-enylidene	5.28015e-13	1.00000	5.28015e-13	1.00000
rad43	3.32593e-13	1.00000	3.32593e-13	1.00000
rad54	2.71678e-13	1.00000	2.71678e-13	1.00000
rad62	7.18916e-14	1.00000	7.18916e-14	1.00000
rad50	5.34248e-14	1.00000	5.34248e-14	1.00000
rad70	4.52036e-15	1.00000	4.52036e-15	1.00000
rad55	1.99186e-15	1.00000	1.99186e-15	1.00000
PAH1+H	9.26901e-16	1.00000	9.26901e-16	1.00000
Phenyl+cycC3H4	7.87809e-16	1.00000	0.00000	1.00000
rad52	3.56973e-16	1.00000	3.56973e-16	1.00000
rad58	1.11992e-16	1.00000	1.11992e-16	1.00000
rad51	9.25594e-17	1.00000	9.25594e-17	1.00000
rad34	4.90705e-17	1.00000	4.90705e-17	1.00000
rad41	5.95426e-18	1.00000	5.95426e-18	1.00000
rad42	5.64287e-18	1.00000	5.64287e-18	1.00000
rad65	1.88240e-18	1.00000	1.88240e-18	1.00000
PhcycC3H3_B+H	2.38334e-19	1.00000	2.38334e-19	1.00000
Benzene+cycloprop-1-enylidene	1.03290e-23	1.00000	1.03290e-23	1.00000
rad53	5.56946e-24	1.00000	5.56946e-24	1.00000
rad64	3.39558e-26	1.00000	3.39558e-26	1.00000
rad6	1.03411e-29	1.00000	1.03411e-29	1.00000
rad26	2.80006e-31	1.00000	2.80006e-31	1.00000
rad28	2.13117e-31	1.00000	2.13117e-31	1.00000
rad47	9.65476e-32	1.00000	9.65476e-32	1.00000
rad61	5.68424e-32	1.00000	5.68424e-32	1.00000
rad2	4.73453e-33	1.00000	4.73453e-33	1.00000
rad7	7.49182e-34	1.00000	7.49182e-34	1.00000
rad1	3.01352e-34	1.00000	3.01352e-34	1.00000
rad10	2.43782e-34	1.00000	2.43782e-34	1.00000
rad11	1.83543e-34	1.00000	1.83543e-34	1.00000
rad14	3.87967e-35	1.00000	3.87967e-35	1.00000
rad3	3.18724e-35	1.00000	3.18724e-35	1.00000
rad56	2.32710e-35	1.00000	2.32710e-35	1.00000
rad25	1.87259e-35	1.00000	1.87259e-35	1.00000
rad4	1.61243e-35	1.00000	1.61243e-35	1.00000
rad19anti	1.14994e-35	1.00000	1.14994e-35	1.00000
rad13	4.14701e-36	1.00000	4.14701e-36	1.00000
rad27	3.86227e-36	1.00000	3.86227e-36	1.00000
rad9	9.32227e-37	1.00000	9.32227e-37	1.00000
rad5	3.75989e-38	1.00000	3.75989e-38	1.00000
rad33	7.98947e-39	1.00000	7.98947e-39	1.00000
rad31	5.25795e-40	1.00000	5.25795e-40	1.00000
rad15	4.04878e-40	1.00000	4.04878e-40	1.00000
rad68syn	8.35696e-42	1.00000	8.35696e-42	1.00000
rad68anti	7.12853e-42	1.00000	7.12853e-42	1.00000
rad20	1.38298e-42	1.00000	1.38298e-42	1.00000
rad21	1.11022e-42	1.00000	1.11022e-42	1.00000
rad12	1.86637e-44	1.00000	1.86637e-44	1.00000
rad18	1.47615e-44	1.00000	1.47615e-44	1.00000
rad19syn	3.07655e-45	1.00000	3.07655e-45	1.00000
rad23	2.17843e-45	1.00000	2.17843e-45	1.00000
rad22	1.00896e-46	1.00000	1.00896e-46	1.00000
rad45	1.39362e-47	1.00000	1.39362e-47	1.00000
rad24	2.36186e-48	1.00000	2.36186e-48	1.00000
rad36	8.53350e-49	1.00000	8.53350e-49	1.00000
rad73	9.69711e-50	1.00000	9.69711e-50	1.00000
rad40syn	2.86238e-50	1.00000	2.86238e-50	1.00000
rad40anti	2.34563e-50	1.00000	2.34563e-50	1.00000
PAH8+H	1.67105e-54	1.00000	1.67105e-54	1.00000
rad71	3.35679e-58	1.00000	3.35679e-58	1.00000
rad8	1.06794e-65	1.00000	1.06794e-65	1.00000

0.100000000E-05 Pa, 80.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.17084e-16 (1.00)	4.17084e-16 (1.00)

Formation of rad19 | 4.17084e-16 (1.000) 4.17084e-16 (1.000)
H-abstraction to cyc2enyl | 8.98751e-27 (2.15e-11) 8.98751e-27 (2.15e-11)
H-abstraction to cyc1enyl | 4.00120e-36 (9.59e-21) 4.00120e-36 (9.59e-21)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999747	0.999747	0.999747	0.999747
PhCHCCH2+H	0.000240278	0.999987	0.000240278	0.999987
PhCCH+CH3	4.18618e-06	0.999991	4.18618e-06	0.999991
C2H2+PhCH2	3.03335e-06	0.999994	3.03335e-06	0.999994
PhCCCH3+H	2.37733e-06	0.999997	2.37733e-06	0.999997
Ph+MeAc	1.80101e-06	0.999999	1.80101e-06	0.999999
rad67	5.42408e-07	0.999999	5.42408e-07	0.999999
rad35	2.38874e-07	0.999999	2.38874e-07	0.999999
Ph+Allene	1.63685e-07	1.000000	1.63685e-07	1.000000
PAH7+H	2.10959e-08	1.000000	2.10959e-08	1.000000
PhCH2CCH+H	2.05146e-08	1.000000	2.05146e-08	1.000000
rad39	5.95207e-09	1.000000	5.95207e-09	1.000000
rad37	5.52806e-09	1.000000	5.52806e-09	1.000000
rad30	4.47786e-09	1.000000	4.47786e-09	1.000000
PAH9+H	3.02715e-10	1.000000	3.02715e-10	1.000000
rad38	1.29567e-10	1.000000	1.29567e-10	1.000000
Benzene+cycloprop-2-enylidene	2.15484e-11	1.000000	2.15484e-11	1.000000
rad60syn	2.04685e-11	1.000000	2.04685e-11	1.000000
rad60anti	1.00397e-11	1.000000	1.00397e-11	1.000000
PAH3+H	8.68358e-12	1.000000	8.68358e-12	1.000000
PAH10+CH3	7.94154e-12	1.000000	7.94154e-12	1.000000
rad46	7.89977e-12	1.000000	7.89977e-12	1.000000
rad59	1.78410e-12	1.000000	1.78410e-12	1.000000
PhcycC3H3_A+H	1.01061e-12	1.000000	1.01061e-12	1.000000
rad43	3.57097e-13	1.000000	3.57097e-13	1.000000
rad54	2.94055e-13	1.000000	2.94055e-13	1.000000
rad62	7.73784e-14	1.000000	7.73784e-14	1.000000
rad50	5.70980e-14	1.000000	5.70980e-14	1.000000
rad70	5.01448e-15	1.000000	5.01448e-15	1.000000
rad55	2.21137e-15	1.000000	2.21137e-15	1.000000
Phenyl+cycC3H4	1.32430e-15	1.000000	0.000000	1.000000
PAH1+H	1.07021e-15	1.000000	1.07021e-15	1.000000
rad52	3.87616e-16	1.000000	3.87616e-16	1.000000
rad58	1.25561e-16	1.000000	1.25561e-16	1.000000
rad51	1.02472e-16	1.000000	1.02472e-16	1.000000
rad34	5.67859e-17	1.000000	5.67859e-17	1.000000
rad41	7.33020e-18	1.000000	7.33020e-18	1.000000
rad42	6.74821e-18	1.000000	6.74821e-18	1.000000
rad65	2.10441e-18	1.000000	2.10441e-18	1.000000
PhcycC3H3_B+H	1.96138e-18	1.000000	1.96138e-18	1.000000
Benzene+cycloprop-1-enylidene	9.59328e-21	1.000000	9.59328e-21	1.000000
rad53	4.18956e-23	1.000000	4.18956e-23	1.000000
rad64	5.09108e-25	1.000000	5.09108e-25	1.000000
rad61	8.41955e-30	1.000000	8.41955e-30	1.000000
rad6	6.92380e-30	1.000000	6.92380e-30	1.000000
rad26	2.19969e-31	1.000000	2.19969e-31	1.000000
rad28	1.58754e-31	1.000000	1.58754e-31	1.000000
rad47	8.54861e-32	1.000000	8.54861e-32	1.000000
rad56	1.31867e-32	1.000000	1.31867e-32	1.000000
rad2	3.53069e-33	1.000000	3.53069e-33	1.000000
rad7	5.02288e-34	1.000000	5.02288e-34	1.000000
rad1	2.25321e-34	1.000000	2.25321e-34	1.000000
rad68syn	1.87136e-34	1.000000	1.87136e-34	1.000000
rad10	1.82313e-34	1.000000	1.82313e-34	1.000000
rad68anti	1.57601e-34	1.000000	1.57601e-34	1.000000
rad11	1.23100e-34	1.000000	1.23100e-34	1.000000
rad14	3.41735e-35	1.000000	3.41735e-35	1.000000
rad3	2.43485e-35	1.000000	2.43485e-35	1.000000
rad25	1.67256e-35	1.000000	1.67256e-35	1.000000
rad19anti	1.65192e-35	1.000000	1.65192e-35	1.000000
rad4	1.23254e-35	1.000000	1.23254e-35	1.000000
rad27	3.46824e-36	1.000000	3.46824e-36	1.000000
rad13	2.78255e-36	1.000000	2.78255e-36	1.000000
rad9	8.24991e-37	1.000000	8.24991e-37	1.000000
rad5	3.01020e-38	1.000000	3.01020e-38	1.000000
rad33	5.41701e-39	1.000000	5.41701e-39	1.000000
rad31	6.77698e-40	1.000000	6.77698e-40	1.000000
rad15	3.58771e-40	1.000000	3.58771e-40	1.000000
rad20	1.35560e-42	1.000000	1.35560e-42	1.000000
rad21	1.09432e-42	1.000000	1.09432e-42	1.000000
rad12	2.01594e-44	1.000000	2.01594e-44	1.000000
rad18	1.37310e-44	1.000000	1.37310e-44	1.000000
rad19syn	5.56519e-45	1.000000	5.56519e-45	1.000000
rad23	2.01275e-45	1.000000	2.01275e-45	1.000000

rad22	8.57527e-47	1.000000	8.57527e-47	1.000000
rad45	1.29921e-47	1.000000	1.29921e-47	1.000000
rad73	1.03569e-47	1.000000	1.03569e-47	1.000000
rad24	2.55723e-48	1.000000	2.55723e-48	1.000000
rad40syn	2.29076e-48	1.000000	2.29076e-48	1.000000
rad40anti	1.86932e-48	1.000000	1.86932e-48	1.000000
rad36	7.95386e-49	1.000000	7.95386e-49	1.000000
PAH8+H	1.56151e-52	1.000000	1.56151e-52	1.000000
rad71	3.88541e-56	1.000000	3.88541e-56	1.000000
rad8	1.28435e-65	1.000000	1.28435e-65	1.000000

0.100000000E-05 Pa, 90.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.74016e-16 (1.00)	7.74016e-16 (1.00)
Formation of rad19	7.74016e-16 (1.000)	7.74016e-16 (1.000)
H-abstraction to cyc2enyl	2.91736e-25 (3.77e-10)	2.91736e-25 (3.77e-10)
H-abstraction to cyclenyl	1.47814e-33 (1.91e-18)	1.47814e-33 (1.91e-18)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999741	0.999741	0.999741	0.999741
PhCHCCH2+H	0.000245933	0.999987	0.000245933	0.999987
PhCCH+CH3	4.29301e-06	0.999991	4.29301e-06	0.999991
C2H2+PhCH3	3.12644e-06	0.999994	3.12644e-06	0.999994
PhCCCH3+H	2.44411e-06	0.999997	2.44411e-06	0.999997
Ph+MeAc	1.86289e-06	0.999999	1.86289e-06	0.999999
rad67	5.60078e-07	0.999999	5.60078e-07	0.999999
rad35	2.46332e-07	0.999999	2.46332e-07	0.999999
Ph+Allene	1.71280e-07	1.000000	1.71280e-07	1.000000
PAH7+H	2.19315e-08	1.000000	2.19315e-08	1.000000
PhCH2CCH+H	2.16239e-08	1.000000	2.16239e-08	1.000000
rad39	6.18833e-09	1.000000	6.18833e-09	1.000000
rad37	5.76057e-09	1.000000	5.76057e-09	1.000000
rad30	4.62113e-09	1.000000	4.62113e-09	1.000000
Benzene+cycloprop-2-enylidene	3.76912e-10	1.000000	3.76912e-10	1.000000
PAH9+H	3.15328e-10	1.000000	3.15328e-10	1.000000
rad38	1.35501e-10	1.000000	1.35501e-10	1.000000
rad60syn	2.13909e-11	1.000000	2.13909e-11	1.000000
rad60anti	1.05039e-11	1.000000	1.05039e-11	1.000000
PAH3+H	9.21901e-12	1.000000	9.21901e-12	1.000000
PAH10+CH3	8.64384e-12	1.000000	8.64384e-12	1.000000
rad46	8.28938e-12	1.000000	8.28938e-12	1.000000
rad59	1.88961e-12	1.000000	1.88961e-12	1.000000
PhcycC3H3_A+H	1.23243e-12	1.000000	1.23243e-12	1.000000
rad43	3.84868e-13	1.000000	3.84868e-13	1.000000
rad54	3.19699e-13	1.000000	3.19699e-13	1.000000
rad62	8.36058e-14	1.000000	8.36058e-14	1.000000
rad50	6.12577e-14	1.000000	6.12577e-14	1.000000
rad70	5.59583e-15	1.000000	5.59583e-15	1.000000
rad55	2.46956e-15	1.000000	2.46956e-15	1.000000
Phenyl+cycC3H4	2.14284e-15	1.000000	0.000000	1.000000
PAH1+H	1.24557e-15	1.000000	1.24557e-15	1.000000
rad52	4.22957e-16	1.000000	4.22957e-16	1.000000
rad58	1.41714e-16	1.000000	1.41714e-16	1.000000
rad51	1.14155e-16	1.000000	1.14155e-16	1.000000
rad34	6.62495e-17	1.000000	6.62495e-17	1.000000
PhcycC3H3_B+H	1.04002e-17	1.000000	1.04002e-17	1.000000
rad41	9.07988e-18	1.000000	9.07988e-18	1.000000
rad42	8.13587e-18	1.000000	8.13587e-18	1.000000
rad65	2.36870e-18	1.000000	2.36870e-18	1.000000
Benzene+cycloprop-1-enylidene	1.90970e-18	1.000000	1.90970e-18	1.000000
rad53	2.02296e-22	1.000000	2.02296e-22	1.000000
rad64	4.24438e-24	1.000000	4.24438e-24	1.000000
rad61	4.05748e-28	1.000000	4.05748e-28	1.000000
rad6	4.92846e-30	1.000000	4.92846e-30	1.000000
rad56	1.28601e-30	1.000000	1.28601e-30	1.000000
rad26	1.79144e-31	1.000000	1.79144e-31	1.000000
rad28	1.23433e-31	1.000000	1.23433e-31	1.000000
rad47	7.75926e-32	1.000000	7.75926e-32	1.000000
rad68syn	2.85402e-32	1.000000	2.85402e-32	1.000000
rad68anti	2.36878e-32	1.000000	2.36878e-32	1.000000
rad2	2.90854e-33	1.000000	2.90854e-33	1.000000
rad7	3.58056e-34	1.000000	3.58056e-34	1.000000
rad1	1.86161e-34	1.000000	1.86161e-34	1.000000
rad10	1.50360e-34	1.000000	1.50360e-34	1.000000
rad11	8.77873e-35	1.000000	8.77873e-35	1.000000
rad14	3.08942e-35	1.000000	3.08942e-35	1.000000
rad19anti	2.57295e-35	1.000000	2.57295e-35	1.000000

rad3	2.06029e-35	1.000000	2.06029e-35	1.000000
rad25	1.53420e-35	1.000000	1.53420e-35	1.000000
rad4	1.04366e-35	1.000000	1.04366e-35	1.000000
rad27	3.20090e-36	1.000000	3.20090e-36	1.000000
rad13	1.98523e-36	1.000000	1.98523e-36	1.000000
rad9	7.81699e-37	1.000000	7.81699e-37	1.000000
rad5	2.49758e-38	1.000000	2.49758e-38	1.000000
rad33	3.91585e-39	1.000000	3.91585e-39	1.000000
rad73	1.45329e-39	1.000000	1.45329e-39	1.000000
rad31	9.34621e-40	1.000000	9.34621e-40	1.000000
rad15	3.40409e-40	1.000000	3.40409e-40	1.000000
rad20	1.37660e-42	1.000000	1.37660e-42	1.000000
rad21	1.11788e-42	1.000000	1.11788e-42	1.000000
rad12	2.31265e-44	1.000000	2.31265e-44	1.000000
rad18	1.31551e-44	1.000000	1.31551e-44	1.000000
rad19syn	1.05530e-44	1.000000	1.05530e-44	1.000000
rad23	2.10395e-45	1.000000	2.10395e-45	1.000000
rad40syn	5.28600e-46	1.000000	5.28600e-46	1.000000
rad40anti	4.29340e-46	1.000000	4.29340e-46	1.000000
rad22	7.59976e-47	1.000000	7.59976e-47	1.000000
rad45	1.37316e-47	1.000000	1.37316e-47	1.000000
rad24	2.88573e-48	1.000000	2.88573e-48	1.000000
rad36	8.40621e-49	1.000000	8.40621e-49	1.000000
PAH8+H	4.16082e-50	1.000000	4.16082e-50	1.000000
rad71	1.29280e-53	1.000000	1.29280e-53	1.000000
rad8	1.61985e-65	1.000000	1.61985e-65	1.000000

0.100000000E-05 Pa, 100.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.28255e-15 (1.00)	1.28255e-15 (1.00)
Formation of rad19	1.28255e-15 (1.000)	1.28255e-15 (1.000)
H-abstraction to cyc2enyl	4.68359e-24 (3.65e-09)	4.68359e-24 (3.65e-09)
H-abstraction to cyc1enyl	1.66242e-31 (1.30e-16)	1.66242e-31 (1.30e-16)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999735	0.999735	0.999735	0.999735
PhCHCCH2+H	0.000251988	0.999987	0.000251988	0.999987
PhCCH+CH3	4.40736e-06	0.999991	4.40736e-06	0.999991
C2H2+PhCH2	3.22690e-06	0.999995	3.22690e-06	0.999995
PhCCCH3+H	2.51589e-06	0.999997	2.51589e-06	0.999997
Ph+MeAc	1.92987e-06	0.999999	1.92987e-06	0.999999
rad67	5.79181e-07	1.000000	5.79181e-07	1.000000
rad35	2.54382e-07	1.000000	2.54382e-07	1.000000
Ph+Allene	1.79627e-07	1.000000	1.79627e-07	1.000000
PhCH2CCH+H	2.28536e-08	1.000000	2.28536e-08	1.000000
PAH7+H	2.28426e-08	1.000000	2.28426e-08	1.000000
rad39	6.44590e-09	1.000000	6.44590e-09	1.000000
rad37	6.01471e-09	1.000000	6.01471e-09	1.000000
rad30	4.77610e-09	1.000000	4.77610e-09	1.000000
Benzene+cycloprop-2-enylidene	3.65179e-09	1.000000	3.65179e-09	1.000000
PAH9+H	3.29134e-10	1.000000	3.29134e-10	1.000000
rad38	1.42033e-10	1.000000	1.42033e-10	1.000000
rad60syn	2.24039e-11	1.000000	2.24039e-11	1.000000
rad60anti	1.10144e-11	1.000000	1.10144e-11	1.000000
PAH3+H	9.81802e-12	1.000000	9.81802e-12	1.000000
PAH10+CH3	9.45058e-12	1.000000	9.45058e-12	1.000000
rad46	8.71962e-12	1.000000	8.71962e-12	1.000000
rad59	2.00730e-12	1.000000	2.00730e-12	1.000000
PhcycC3H3_A+H	1.51348e-12	1.000000	1.51348e-12	1.000000
rad43	4.16368e-13	1.000000	4.16368e-13	1.000000
rad54	3.49137e-13	1.000000	3.49137e-13	1.000000
rad62	9.06791e-14	1.000000	9.06791e-14	1.000000
rad50	6.59741e-14	1.000000	6.59741e-14	1.000000
rad70	6.28191e-15	1.000000	6.28191e-15	1.000000
Phenyl+cycC3H4	3.36905e-15	1.000000	0.000000	1.000000
rad55	2.77429e-15	1.000000	2.77429e-15	1.000000
PAH1+H	1.46128e-15	1.000000	1.46128e-15	1.000000
rad52	4.63812e-16	1.000000	4.63812e-16	1.000000
rad58	1.61019e-16	1.000000	1.61019e-16	1.000000
Benzene+cycloprop-1-enylidene	1.29619e-16	1.000000	1.29619e-16	1.000000
rad51	1.27976e-16	1.000000	1.27976e-16	1.000000
rad34	7.79213e-17	1.000000	7.79213e-17	1.000000
PhcycC3H3_B+H	4.09123e-17	1.000000	4.09123e-17	1.000000
rad41	1.13186e-17	1.000000	1.13186e-17	1.000000
rad42	9.88346e-18	1.000000	9.88346e-18	1.000000
rad65	2.68464e-18	1.000000	2.68464e-18	1.000000
rad53	7.24662e-22	1.000000	7.24662e-22	1.000000

rad64	2.36968e-23	1.00000	2.36968e-23	1.00000
rad61	9.04334e-27	1.00000	9.04334e-27	1.00000
rad56	5.01134e-29	1.00000	5.01134e-29	1.00000
rad6	3.67769e-30	1.00000	3.67769e-30	1.00000
rad68syn	1.54810e-30	1.00000	1.54810e-30	1.00000
rad68anti	1.27120e-30	1.00000	1.27120e-30	1.00000
rad26	1.49920e-31	1.00000	1.49920e-31	1.00000
rad28	9.91067e-32	1.00000	9.91067e-32	1.00000
rad47	7.18612e-32	1.00000	7.18612e-32	1.00000
rad2	2.63031e-33	1.00000	2.63031e-33	1.00000
rad7	2.67598e-34	1.00000	2.67598e-34	1.00000
rad1	1.68896e-34	1.00000	1.68896e-34	1.00000
rad10	1.35866e-34	1.00000	1.35866e-34	1.00000
rad11	6.56380e-35	1.00000	6.56380e-35	1.00000
rad19anti	4.30712e-35	1.00000	4.30712e-35	1.00000
rad14	2.85053e-35	1.00000	2.85053e-35	1.00000
rad3	1.92136e-35	1.00000	1.92136e-35	1.00000
rad25	1.43704e-35	1.00000	1.43704e-35	1.00000
rad4	9.74045e-36	1.00000	9.74045e-36	1.00000
rad27	3.01870e-36	1.00000	3.01870e-36	1.00000
rad40syn	1.99128e-36	1.00000	1.99128e-36	1.00000
rad40anti	1.51571e-36	1.00000	1.51571e-36	1.00000
rad13	1.48505e-36	1.00000	1.48505e-36	1.00000
rad9	7.81968e-37	1.00000	7.81968e-37	1.00000
rad73	7.52968e-37	1.00000	7.52968e-37	1.00000
rad5	2.12883e-38	1.00000	2.12883e-38	1.00000
rad33	2.97750e-39	1.00000	2.97750e-39	1.00000
rad31	1.36787e-39	1.00000	1.36787e-39	1.00000
rad15	3.41009e-40	1.00000	3.41009e-40	1.00000
rad20	1.43791e-42	1.00000	1.43791e-42	1.00000
rad21	1.17505e-42	1.00000	1.17505e-42	1.00000
rad12	2.78473e-44	1.00000	2.78473e-44	1.00000
rad19syn	2.08907e-44	1.00000	2.08907e-44	1.00000
rad18	1.28979e-44	1.00000	1.28979e-44	1.00000
rad23	2.47153e-45	1.00000	2.47153e-45	1.00000
rad22	6.94452e-47	1.00000	6.94452e-47	1.00000
PAH8+H	2.22239e-47	1.00000	2.22239e-47	1.00000
rad45	1.63762e-47	1.00000	1.63762e-47	1.00000
rad24	3.36961e-48	1.00000	3.36961e-48	1.00000
rad36	1.00264e-48	1.00000	1.00264e-48	1.00000
rad71	8.99608e-51	1.00000	8.99608e-51	1.00000
rad8	2.12436e-65	1.00000	2.12436e-65	1.00000

0.100000000E-05 Pa, 110.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.95524e-15 (1.00)	1.95524e-15 (1.00)
Formation of rad19	1.95524e-15 (1.000)	1.95524e-15 (1.000)
H-abstraction to cyc2enyl	4.50936e-23 (2.31e-08)	4.50936e-23 (2.31e-08)
H-abstraction to cyclenyl	7.87782e-30 (4.03e-15)	7.87782e-30 (4.03e-15)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999728	0.999728	0.999728	0.999728
PhCHCCH2+H	0.000258470	0.999986	0.000258470	0.999986
PhCCH+CH3	4.52973e-06	0.999991	4.52973e-06	0.999991
C2H2+PhCH2	3.33534e-06	0.999994	3.33534e-06	0.999994
PhCCCH3+H	2.59304e-06	0.999997	2.59304e-06	0.999997
Ph+MeAc	2.00241e-06	0.999999	2.00241e-06	0.999999
rad67	5.99841e-07	1.000000	5.99841e-07	1.000000
rad35	2.63077e-07	1.000000	2.63077e-07	1.000000
Ph+Allene	1.88813e-07	1.000000	1.88813e-07	1.000000
PhCH2CCH+H	2.42192e-08	1.000000	2.42192e-08	1.000000
PAH7+H	2.38370e-08	1.000000	2.38370e-08	1.000000
Benzene+cycloprop-2-enylidene	2.30629e-08	1.000000	2.30629e-08	1.000000
rad39	6.72692e-09	1.000000	6.72692e-09	1.000000
rad37	6.29278e-09	1.000000	6.29278e-09	1.000000
rad30	4.94382e-09	1.000000	4.94382e-09	1.000000
PAH9+H	3.44262e-10	1.000000	3.44262e-10	1.000000
rad38	1.49234e-10	1.000000	1.49234e-10	1.000000
rad60syn	2.35177e-11	1.000000	2.35177e-11	1.000000
rad60anti	1.15765e-11	1.000000	1.15765e-11	1.000000
PAH3+H	1.04898e-11	1.000000	1.04898e-11	1.000000
PAH10+CH3	1.03809e-11	1.000000	1.03809e-11	1.000000
rad46	9.19554e-12	1.000000	9.19554e-12	1.000000
rad59	2.13885e-12	1.000000	2.13885e-12	1.000000
PhcycC3H3_A+H	1.87147e-12	1.000000	1.87147e-12	1.000000
rad43	4.52200e-13	1.000000	4.52200e-13	1.000000
rad54	3.83059e-13	1.000000	3.83059e-13	1.000000

rad62	9.87359e-14	1.00000	9.87359e-14	1.00000
rad50	7.13397e-14	1.00000	7.13397e-14	1.00000
rad70	7.09592e-15	1.00000	7.09592e-15	1.00000
Phenyl+cycC3H4	5.18630e-15	1.00000	0.00000	1.00000
Benzene+cycloprop-1-enylidene	4.02908e-15	1.00000	4.02908e-15	1.00000
rad55	3.13590e-15	1.00000	3.13590e-15	1.00000
PAH1+H	1.72856e-15	1.00000	1.72856e-15	1.00000
rad52	5.11263e-16	1.00000	5.11263e-16	1.00000
rad58	1.84232e-16	1.00000	1.84232e-16	1.00000
rad51	1.44427e-16	1.00000	1.44427e-16	1.00000
PhcycC3H3_B+H	1.30407e-16	1.00000	1.30407e-16	1.00000
rad34	9.24232e-17	1.00000	9.24232e-17	1.00000
rad41	1.42061e-17	1.00000	1.42061e-17	1.00000
rad42	1.20969e-17	1.00000	1.20969e-17	1.00000
rad65	3.06484e-18	1.00000	3.06484e-18	1.00000
rad53	2.11093e-21	1.00000	2.11093e-21	1.00000
rad64	9.96386e-23	1.00000	9.96386e-23	1.00000
rad61	1.15972e-25	1.00000	1.15972e-25	1.00000
rad56	1.00969e-27	1.00000	1.00969e-27	1.00000
rad68syn	4.04803e-29	1.00000	4.04803e-29	1.00000
rad68anti	3.29762e-29	1.00000	3.29762e-29	1.00000
rad6	2.85157e-30	1.00000	2.85157e-30	1.00000
rad26	1.28162e-31	1.00000	1.28162e-31	1.00000
rad28	8.15882e-32	1.00000	8.15882e-32	1.00000
rad47	6.77038e-32	1.00000	6.77038e-32	1.00000
rad2	2.60175e-33	1.00000	2.60175e-33	1.00000
rad40syn	3.23201e-34	1.00000	3.23201e-34	1.00000
rad40anti	2.54378e-34	1.00000	2.54378e-34	1.00000
rad7	2.07822e-34	1.00000	2.07822e-34	1.00000
rad1	1.67654e-34	1.00000	1.67654e-34	1.00000
rad10	1.34034e-34	1.00000	1.34034e-34	1.00000
rad19anti	7.70499e-35	1.00000	7.70499e-35	1.00000
rad73	5.48405e-35	1.00000	5.48405e-35	1.00000
rad11	5.10006e-35	1.00000	5.10006e-35	1.00000
rad14	2.67405e-35	1.00000	2.67405e-35	1.00000
rad3	1.96142e-35	1.00000	1.96142e-35	1.00000
rad25	1.36917e-35	1.00000	1.36917e-35	1.00000
rad4	9.95222e-36	1.00000	9.95222e-36	1.00000
rad27	2.89760e-36	1.00000	2.89760e-36	1.00000
rad13	1.15444e-36	1.00000	1.15444e-36	1.00000
rad9	8.18140e-37	1.00000	8.18140e-37	1.00000
rad5	1.85303e-38	1.00000	1.85303e-38	1.00000
rad33	2.36176e-39	1.00000	2.36176e-39	1.00000
rad31	2.11326e-39	1.00000	2.11326e-39	1.00000
rad15	3.57309e-40	1.00000	3.57309e-40	1.00000
rad20	1.53759e-42	1.00000	1.53759e-42	1.00000
rad21	1.26493e-42	1.00000	1.26493e-42	1.00000
rad19syn	4.31564e-44	1.00000	4.31564e-44	1.00000
rad12	3.49302e-44	1.00000	3.49302e-44	1.00000
rad18	1.28851e-44	1.00000	1.28851e-44	1.00000
PAH8+H	1.08851e-44	1.00000	1.08851e-44	1.00000
rad23	3.24281e-45	1.00000	3.24281e-45	1.00000
rad22	6.49680e-47	1.00000	6.49680e-47	1.00000
rad45	2.18519e-47	1.00000	2.18519e-47	1.00000
rad71	5.50109e-48	1.00000	5.50109e-48	1.00000
rad24	4.05191e-48	1.00000	4.05191e-48	1.00000
rad36	1.33830e-48	1.00000	1.33830e-48	1.00000
rad8	2.88051e-65	1.00000	2.88051e-65	1.00000

0.100000000E-05 Pa, 120.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.79817e-15 (1.00)	2.79817e-15 (1.00)
Formation of rad19	2.79817e-15 (1.000)	2.79817e-15 (1.000)
H-abstraction to cyc2enyl	2.96039e-22 (1.06e-07)	2.96039e-22 (1.06e-07)
H-abstraction to cyclenyl	1.95323e-28 (6.98e-14)	1.95323e-28 (6.98e-14)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999721	0.999721	0.999721	0.999721
PhCHCCH2+H	0.000265418	0.999986	0.000265418	0.999986
PhCCH+CH3	4.66083e-06	0.999991	4.66083e-06	0.999991
C2H2+PhCH2	3.45258e-06	0.999994	3.45258e-06	0.999994
PhCCCH3+H	2.67609e-06	0.999997	2.67609e-06	0.999997
Ph+MeAc	2.08110e-06	0.999999	2.08110e-06	0.999999
rad67	6.22225e-07	1.000000	6.22225e-07	1.000000
rad35	2.72481e-07	1.00000	2.72481e-07	1.00000
Ph+Allene	1.98950e-07	1.00000	1.98950e-07	1.00000
Benzene+cycloprop-2-enylidene	1.05797e-07	1.00000	1.05797e-07	1.00000

PhCH2CCH+H	2.57406e-08	1.00000	2.57406e-08	1.00000
PAH7+H	2.49247e-08	1.00000	2.49247e-08	1.00000
rad39	7.03419e-09	1.00000	7.03419e-09	1.00000
rad37	6.59774e-09	1.00000	6.59774e-09	1.00000
rad30	5.12566e-09	1.00000	5.12566e-09	1.00000
PAH9+H	3.60882e-10	1.00000	3.60882e-10	1.00000
rad38	1.57196e-10	1.00000	1.57196e-10	1.00000
rad60syn	2.47458e-11	1.00000	2.47458e-11	1.00000
rad60anti	1.21972e-11	1.00000	1.21972e-11	1.00000
PAH10+CH3	1.14592e-11	1.00000	1.14592e-11	1.00000
PAH3+H	1.12460e-11	1.00000	1.12460e-11	1.00000
rad46	9.72362e-12	1.00000	9.72362e-12	1.00000
PhcycC3H3_A+H	2.33055e-12	1.00000	2.33055e-12	1.00000
rad59	2.28645e-12	1.00000	2.28645e-12	1.00000
rad43	4.93136e-13	1.00000	4.93136e-13	1.00000
rad54	4.22356e-13	1.00000	4.22356e-13	1.00000
rad62	1.07952e-13	1.00000	1.07952e-13	1.00000
rad50	7.74736e-14	1.00000	7.74736e-14	1.00000
Benzene+cycloprop-1-enylidene	6.98038e-14	1.00000	6.98038e-14	1.00000
rad70	8.06831e-15	1.00000	8.06831e-15	1.00000
Phenyl+cycC3H4	7.86468e-15	1.00000	0.00000	1.00000
rad55	3.56798e-15	1.00000	3.56798e-15	1.00000
PAH1+H	2.06260e-15	1.00000	2.06260e-15	1.00000
rad52	5.66713e-16	1.00000	5.66713e-16	1.00000
PhcycC3H3_B+H	3.56809e-16	1.00000	3.56809e-16	1.00000
rad58	2.12355e-16	1.00000	2.12355e-16	1.00000
rad51	1.64161e-16	1.00000	1.64161e-16	1.00000
rad34	1.10600e-16	1.00000	1.10600e-16	1.00000
rad41	1.79639e-17	1.00000	1.79639e-17	1.00000
rad42	1.49203e-17	1.00000	1.49203e-17	1.00000
rad65	3.52612e-18	1.00000	3.52612e-18	1.00000
rad53	5.31327e-21	1.00000	5.31327e-21	1.00000
rad64	3.40977e-22	1.00000	3.40977e-22	1.00000
rad61	9.89208e-25	1.00000	9.89208e-25	1.00000
rad56	1.24744e-26	1.00000	1.24744e-26	1.00000
rad68syn	6.17070e-28	1.00000	6.17070e-28	1.00000
rad68anti	4.99495e-28	1.00000	4.99495e-28	1.00000
rad6	2.28515e-30	1.00000	2.28515e-30	1.00000
rad26	1.11458e-31	1.00000	1.11458e-31	1.00000
rad28	6.85226e-32	1.00000	6.85226e-32	1.00000
rad47	6.47611e-32	1.00000	6.47611e-32	1.00000
rad40syn	1.64573e-32	1.00000	1.64573e-32	1.00000
rad40anti	1.29414e-32	1.00000	1.29414e-32	1.00000
rad2	2.78145e-33	1.00000	2.78145e-33	1.00000
rad73	1.92333e-33	1.00000	1.92333e-33	1.00000
rad1	1.79927e-34	1.00000	1.79927e-34	1.00000
rad7	1.66822e-34	1.00000	1.66822e-34	1.00000
rad19anti	1.46733e-34	1.00000	1.46733e-34	1.00000
rad10	1.43640e-34	1.00000	1.43640e-34	1.00000
PAH8+H	4.13571e-35	1.00000	4.13571e-35	1.00000
rad11	4.09604e-35	1.00000	4.09604e-35	1.00000
rad14	2.54344e-35	1.00000	2.54344e-35	1.00000
rad3	2.17610e-35	1.00000	2.17610e-35	1.00000
rad25	1.32326e-35	1.00000	1.32326e-35	1.00000
rad4	1.10522e-35	1.00000	1.10522e-35	1.00000
rad27	2.82300e-36	1.00000	2.82300e-36	1.00000
rad13	9.27639e-37	1.00000	9.27639e-37	1.00000
rad9	8.89480e-37	1.00000	8.89480e-37	1.00000
rad5	1.64026e-38	1.00000	1.64026e-38	1.00000
rad71	1.32207e-38	1.00000	1.32207e-38	1.00000
rad31	3.43457e-39	1.00000	3.43457e-39	1.00000
rad33	1.94489e-39	1.00000	1.94489e-39	1.00000
rad15	3.89057e-40	1.00000	3.89057e-40	1.00000
rad20	1.67766e-42	1.00000	1.67766e-42	1.00000
rad21	1.38997e-42	1.00000	1.38997e-42	1.00000
rad19syn	9.31466e-44	1.00000	9.31466e-44	1.00000
rad12	4.54114e-44	1.00000	4.54114e-44	1.00000
rad18	1.30753e-44	1.00000	1.30753e-44	1.00000
rad23	4.71901e-45	1.00000	4.71901e-45	1.00000
rad22	6.19407e-47	1.00000	6.19407e-47	1.00000
rad45	3.22548e-47	1.00000	3.22548e-47	1.00000
rad24	5.00118e-48	1.00000	5.00118e-48	1.00000
rad36	1.97639e-48	1.00000	1.97639e-48	1.00000
rad8	4.02249e-65	1.00000	4.02249e-65	1.00000

0.100000000E-05 Pa, 130.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.81236e-15 (1.00)	3.81236e-15 (1.00)

Formation of rad19 | 3.81236e-15 (1.000) 3.81236e-15 (1.000)
H-abstraction to cyc2enyl | 1.44825e-21 (3.80e-07) 1.44825e-21 (3.80e-07)
H-abstraction to cyc1enyl | 2.94348e-27 (7.72e-13) 2.94348e-27 (7.72e-13)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999713	0.999713	0.999713	0.999713
PhCHCCH2+H	0.000272881	0.999986	0.000272881	0.999986
PhCCH+CH3	4.80155e-06	0.999990	4.80155e-06	0.999990
C2H2+PhCH2	3.57965e-06	0.999994	3.57965e-06	0.999994
PhCCCH3+H	2.76568e-06	0.999997	2.76568e-06	0.999997
Ph+MeAc	2.16669e-06	0.999999	2.16669e-06	0.999999
rad67	6.46538e-07	0.999999	6.46538e-07	0.999999
Benzene+cycloprop-2-enylidene	3.79882e-07	1.000000	3.79882e-07	1.000000
rad35	2.82679e-07	1.000000	2.82679e-07	1.000000
Ph+Allene	2.10177e-07	1.000000	2.10177e-07	1.000000
PhCH2CCH+H	2.74426e-08	1.000000	2.74426e-08	1.000000
PAH7+H	2.61181e-08	1.000000	2.61181e-08	1.000000
rad39	7.37119e-09	1.000000	7.37119e-09	1.000000
rad37	6.93326e-09	1.000000	6.93326e-09	1.000000
rad30	5.32333e-09	1.000000	5.32333e-09	1.000000
PAH9+H	3.79203e-10	1.000000	3.79203e-10	1.000000
rad38	1.66034e-10	1.000000	1.66034e-10	1.000000
rad60syn	2.61047e-11	1.000000	2.61047e-11	1.000000
rad60anti	1.28850e-11	1.000000	1.28850e-11	1.000000
PAH10+CH3	1.27171e-11	1.000000	1.27171e-11	1.000000
PAH3+H	1.21014e-11	1.000000	1.21014e-11	1.000000
rad46	1.03119e-11	1.000000	1.03119e-11	1.000000
PhcycC3H3_A+H	2.92361e-12	1.000000	2.92361e-12	1.000000
rad59	2.45281e-12	1.000000	2.45281e-12	1.000000
Benzene+cycloprop-1-enylidene	7.72089e-13	1.000000	7.72089e-13	1.000000
rad43	5.40149e-13	1.000000	5.40149e-13	1.000000
rad54	4.68163e-13	1.000000	4.68163e-13	1.000000
rad62	1.18546e-13	1.000000	1.18546e-13	1.000000
rad50	8.45270e-14	1.000000	8.45270e-14	1.000000
Phenyl+cycC3H4	1.18041e-14	1.000000	0.000000	1.000000
rad70	9.23899e-15	1.000000	9.23899e-15	1.000000
rad55	4.08826e-15	1.000000	4.08826e-15	1.000000
PAH1+H	2.48400e-15	1.000000	2.48400e-15	1.000000
PhcycC3H3_B+H	8.71416e-16	1.000000	8.71416e-16	1.000000
rad52	6.31980e-16	1.000000	6.31980e-16	1.000000
rad58	2.46721e-16	1.000000	2.46721e-16	1.000000
rad51	1.88040e-16	1.000000	1.88040e-16	1.000000
rad34	1.33600e-16	1.000000	1.33600e-16	1.000000
rad41	2.28987e-17	1.000000	2.28987e-17	1.000000
rad42	1.85493e-17	1.000000	1.85493e-17	1.000000
rad65	4.09095e-18	1.000000	4.09095e-18	1.000000
rad53	1.20428e-20	1.000000	1.20428e-20	1.000000
rad64	1.00149e-21	1.000000	1.00149e-21	1.000000
rad61	6.20139e-24	1.000000	6.20139e-24	1.000000
rad56	1.06325e-25	1.000000	1.06325e-25	1.000000
rad68syn	6.24507e-27	1.000000	6.24507e-27	1.000000
rad68anti	5.02760e-27	1.000000	5.02760e-27	1.000000
rad6	1.88788e-30	1.000000	1.88788e-30	1.000000
rad40syn	4.43601e-31	1.000000	4.43601e-31	1.000000
rad40anti	3.49255e-31	1.000000	3.49255e-31	1.000000
rad26	9.83168e-32	1.000000	9.83168e-32	1.000000
rad47	6.28096e-32	1.000000	6.28096e-32	1.000000
rad28	5.84999e-32	1.000000	5.84999e-32	1.000000
rad73	3.97404e-32	1.000000	3.97404e-32	1.000000
rad2	3.23209e-33	1.000000	3.23209e-33	1.000000
PAH8+H	2.25812e-33	1.000000	2.25812e-33	1.000000
rad19anti	2.96678e-34	1.000000	2.96678e-34	1.000000
rad1	2.09962e-34	1.000000	2.09962e-34	1.000000
rad10	1.66861e-34	1.000000	1.66861e-34	1.000000
rad7	1.38062e-34	1.000000	1.38062e-34	1.000000
rad11	3.39178e-35	1.000000	3.39178e-35	1.000000
rad3	2.59381e-35	1.000000	2.59381e-35	1.000000
rad14	2.44795e-35	1.000000	2.44795e-35	1.000000
rad4	1.31879e-35	1.000000	1.31879e-35	1.000000
rad25	1.29463e-35	1.000000	1.29463e-35	1.000000
rad27	2.78576e-36	1.000000	2.78576e-36	1.000000
rad71	1.12266e-36	1.000000	1.12266e-36	1.000000
rad9	1.00025e-36	1.000000	1.00025e-36	1.000000
rad13	7.68546e-37	1.000000	7.68546e-37	1.000000
rad5	1.47192e-38	1.000000	1.47192e-38	1.000000
rad31	5.85937e-39	1.000000	5.85937e-39	1.000000
rad33	1.65923e-39	1.000000	1.65923e-39	1.000000
rad15	4.38195e-40	1.000000	4.38195e-40	1.000000
rad20	1.86337e-42	1.000000	1.86337e-42	1.000000

rad21	1.55544e-42	1.00000	1.55544e-42	1.00000
rad19syn	2.10397e-43	1.00000	2.10397e-43	1.00000
rad12	6.09777e-44	1.00000	6.09777e-44	1.00000
rad18	1.34472e-44	1.00000	1.34472e-44	1.00000
rad23	7.56231e-45	1.00000	7.56231e-45	1.00000
rad22	6.00095e-47	1.00000	6.00095e-47	1.00000
rad45	5.29069e-47	1.00000	5.29069e-47	1.00000
rad24	6.32157e-48	1.00000	6.32157e-48	1.00000
rad36	3.24411e-48	1.00000	3.24411e-48	1.00000
rad8	5.76907e-65	1.00000	5.76907e-65	1.00000

0.100000000E-05 Pa, 140.000000 K

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Rate constant          | True (fraction)          Effective (fraction)
-----
Total                  | 4.99515e-15 (1.00      ) 4.99515e-15 (1.00      )
Formation of rad19    | 4.99514e-15 (1.000    ) 4.99514e-15 (1.000    )
H-abstraction to cyc2enyl | 5.62488e-21 (1.13e-06) 5.62488e-21 (1.13e-06)
H-abstraction to cyclenyl | 3.00047e-26 (6.01e-12) 3.00047e-26 (6.01e-12)

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species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999703	0.999703	0.999703	0.999703
PhCHCCH2+H	0.000280917	0.999984	0.000280917	0.999984
PhCCH+CH3	4.95294e-06	0.999989	4.95294e-06	0.999989
C2H2+PhCH2	3.71777e-06	0.999992	3.71777e-06	0.999992
PhCCCH3+H	2.86259e-06	0.999995	2.86259e-06	0.999995
Ph+MeAc	2.26007e-06	0.999998	2.26007e-06	0.999998
Benzene+cycloprop-2-enylidene	1.12607e-06	0.999999	1.12607e-06	0.999999
rad67	6.73023e-07	0.999999	6.73023e-07	0.999999
rad35	2.93770e-07	1.000000	2.93770e-07	1.000000
Ph+Allene	2.22660e-07	1.000000	2.22660e-07	1.000000
PhCH2CCH+H	2.93552e-08	1.000000	2.93552e-08	1.000000
PAH7+H	2.74321e-08	1.000000	2.74321e-08	1.000000
rad39	7.74205e-09	1.000000	7.74205e-09	1.000000
rad37	7.30375e-09	1.000000	7.30375e-09	1.000000
rad30	5.53888e-09	1.000000	5.53888e-09	1.000000
PAH9+H	3.99479e-10	1.000000	3.99479e-10	1.000000
rad38	1.75886e-10	1.000000	1.75886e-10	1.000000
rad60syn	2.76144e-11	1.000000	2.76144e-11	1.000000
PAH10+CH3	1.41941e-11	1.000000	1.41941e-11	1.000000
rad60anti	1.36504e-11	1.000000	1.36504e-11	1.000000
PAH3+H	1.30742e-11	1.000000	1.30742e-11	1.000000
rad46	1.09703e-11	1.000000	1.09703e-11	1.000000
Benzene+cycloprop-1-enylidene	6.00677e-12	1.000000	6.00677e-12	1.000000
PhcycC3H3_A+H	3.69543e-12	1.000000	3.69543e-12	1.000000
rad59	2.64125e-12	1.000000	2.64125e-12	1.000000
rad43	5.94445e-13	1.000000	5.94445e-13	1.000000
rad54	5.21920e-13	1.000000	5.21920e-13	1.000000
rad62	1.30794e-13	1.000000	1.30794e-13	1.000000
rad50	9.26896e-14	1.000000	9.26896e-14	1.000000
Phenyl+cycC3H4	1.75978e-14	1.000000	0.000000	1.000000
rad70	1.06600e-14	1.000000	1.06600e-14	1.000000
rad55	4.71987e-15	1.000000	4.71987e-15	1.000000
PAH1+H	3.02080e-15	1.000000	3.02080e-15	1.000000
PhcycC3H3_B+H	1.95210e-15	1.000000	1.95210e-15	1.000000
rad52	7.09403e-16	1.000000	7.09403e-16	1.000000
rad58	2.89095e-16	1.000000	2.89095e-16	1.000000
rad51	2.17208e-16	1.000000	2.17208e-16	1.000000
rad34	1.62990e-16	1.000000	1.62990e-16	1.000000
rad41	2.94364e-17	1.000000	2.94364e-17	1.000000
rad42	2.32499e-17	1.000000	2.32499e-17	1.000000
rad65	4.78938e-18	1.000000	4.78938e-18	1.000000
rad53	2.52919e-20	1.000000	2.52919e-20	1.000000
rad64	2.62060e-21	1.000000	2.62060e-21	1.000000
rad61	3.06689e-23	1.000000	3.06689e-23	1.000000
rad56	6.80095e-25	1.000000	6.80095e-25	1.000000
rad68syn	4.60298e-26	1.000000	4.60298e-26	1.000000
rad68anti	3.68680e-26	1.000000	3.68680e-26	1.000000
rad40syn	7.53654e-30	1.000000	7.53654e-30	1.000000
rad40anti	5.95184e-30	1.000000	5.95184e-30	1.000000
rad6	1.60838e-30	1.000000	1.60838e-30	1.000000
rad73	5.47778e-31	1.000000	5.47778e-31	1.000000
rad26	8.77784e-32	1.000000	8.77784e-32	1.000000
PAH8+H	6.68141e-32	1.000000	6.68141e-32	1.000000
rad47	6.17130e-32	1.000000	6.17130e-32	1.000000
rad28	5.06345e-32	1.000000	5.06345e-32	1.000000
rad2	4.05494e-33	1.000000	4.05494e-33	1.000000
rad19anti	6.35582e-34	1.000000	6.35582e-34	1.000000
rad1	2.64629e-34	1.000000	2.64629e-34	1.000000

rad10	2.09364e-34	1.000000	2.09364e-34	1.000000
rad7	1.17835e-34	1.000000	1.17835e-34	1.000000
rad71	4.16930e-35	1.000000	4.16930e-35	1.000000
rad3	3.30162e-35	1.000000	3.30162e-35	1.000000
rad11	2.89657e-35	1.000000	2.89657e-35	1.000000
rad14	2.38035e-35	1.000000	2.38035e-35	1.000000
rad4	1.68066e-35	1.000000	1.68066e-35	1.000000
rad25	1.28024e-35	1.000000	1.28024e-35	1.000000
rad27	2.78010e-36	1.000000	2.78010e-36	1.000000
rad9	1.15951e-36	1.000000	1.15951e-36	1.000000
rad13	6.56699e-37	1.000000	6.56699e-37	1.000000
rad5	1.33588e-38	1.000000	1.33588e-38	1.000000
rad31	1.04783e-38	1.000000	1.04783e-38	1.000000
rad33	1.46674e-39	1.000000	1.46674e-39	1.000000
rad15	5.08794e-40	1.000000	5.08794e-40	1.000000
rad20	2.10321e-42	1.000000	2.10321e-42	1.000000
rad21	1.76959e-42	1.000000	1.76959e-42	1.000000
rad19syn	4.98180e-43	1.000000	4.98180e-43	1.000000
rad12	8.43689e-44	1.000000	8.43689e-44	1.000000
rad18	1.39918e-44	1.000000	1.39918e-44	1.000000
rad23	1.32697e-44	1.000000	1.32697e-44	1.000000
rad45	9.43607e-47	1.000000	9.43607e-47	1.000000
rad22	5.89984e-47	1.000000	5.89984e-47	1.000000
rad24	8.16996e-48	1.000000	8.16996e-48	1.000000
rad36	5.79134e-48	1.000000	5.79134e-48	1.000000
rad8	8.48093e-65	1.000000	8.48093e-65	1.000000

0.100000000E-05 Pa, 150.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.34137e-15 (1.00)	6.34137e-15 (1.00)
Formation of rad19	6.34135e-15 (1.000)	6.34135e-15 (1.000)
H-abstraction to cyc2enyl	1.81685e-20 (2.87e-06)	1.81685e-20 (2.87e-06)
H-abstraction to cyc1enyl	2.23765e-25 (3.53e-11)	2.23765e-25 (3.53e-11)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999692	0.999692	0.999692	0.999692
PhCHCCH2+H	0.000289592	0.999982	0.000289592	0.999982
PhCCH+CH3	5.11623e-06	0.999987	5.11623e-06	0.999987
C2H2+PhCH2	3.86834e-06	0.999991	3.86834e-06	0.999991
PhCCCH3+H	2.96768e-06	0.999994	2.96768e-06	0.999994
Benzene+cycloprop-2-enylidene	2.86508e-06	0.999997	2.86508e-06	0.999997
Ph+MeAc	2.36224e-06	0.999999	2.36224e-06	0.999999
rad67	7.01968e-07	1.000000	7.01968e-07	1.000000
rad35	3.05869e-07	1.000000	3.05869e-07	1.000000
Ph+Allene	2.36598e-07	1.000000	2.36598e-07	1.000000
PhCH2CCH+H	3.15146e-08	1.000000	3.15146e-08	1.000000
PAH7+H	2.88839e-08	1.000000	2.88839e-08	1.000000
rad39	8.15167e-09	1.000000	8.15167e-09	1.000000
rad37	7.71444e-09	1.000000	7.71444e-09	1.000000
rad30	5.77470e-09	1.000000	5.77470e-09	1.000000
PAH9+H	4.22009e-10	1.000000	4.22009e-10	1.000000
rad38	1.86919e-10	1.000000	1.86919e-10	1.000000
Benzene+cycloprop-1-enylidene	3.52865e-11	1.000000	3.52865e-11	1.000000
rad60syn	2.92988e-11	1.000000	2.92988e-11	1.000000
PAH10+CH3	1.59406e-11	1.000000	1.59406e-11	1.000000
rad60anti	1.45059e-11	1.000000	1.45059e-11	1.000000
PAH3+H	1.41866e-11	1.000000	1.41866e-11	1.000000
rad46	1.17105e-11	1.000000	1.17105e-11	1.000000
PhcycC3H3_A+H	4.70694e-12	1.000000	4.70694e-12	1.000000
rad59	2.85583e-12	1.000000	2.85583e-12	1.000000
rad43	6.57518e-13	1.000000	6.57518e-13	1.000000
rad54	5.85445e-13	1.000000	5.85445e-13	1.000000
rad62	1.45031e-13	1.000000	1.45031e-13	1.000000
rad50	1.02199e-13	1.000000	1.02199e-13	1.000000
Phenyl+cycC3H4	2.61242e-14	1.000000	0.000000	1.000000
rad70	1.23994e-14	1.000000	1.23994e-14	1.000000
rad55	5.49294e-15	1.000000	5.49294e-15	1.000000
PhcycC3H3_B+H	4.08980e-15	1.000000	4.08980e-15	1.000000
PAH1+H	3.71111e-15	1.000000	3.71111e-15	1.000000
rad52	8.01986e-16	1.000000	8.01986e-16	1.000000
rad58	3.41821e-16	1.000000	3.41821e-16	1.000000
rad51	2.53178e-16	1.000000	2.53178e-16	1.000000
rad34	2.00908e-16	1.000000	2.00908e-16	1.000000
rad41	3.81682e-17	1.000000	3.81682e-17	1.000000
rad42	2.93833e-17	1.000000	2.93833e-17	1.000000
rad65	5.66164e-18	1.000000	5.66164e-18	1.000000
rad53	5.02100e-20	1.000000	5.02100e-20	1.000000

rad64	6.27506e-21	1.00000	6.27506e-21	1.00000
rad61	1.25963e-22	1.00000	1.25963e-22	1.00000
rad56	3.47179e-24	1.00000	3.47179e-24	1.00000
rad68syn	2.64356e-25	1.00000	2.64356e-25	1.00000
rad68anti	2.10658e-25	1.00000	2.10658e-25	1.00000
rad40syn	8.88016e-29	1.00000	8.88016e-29	1.00000
rad40anti	7.03998e-29	1.00000	7.03998e-29	1.00000
rad73	5.47735e-30	1.00000	5.47735e-30	1.00000
rad6	1.41806e-30	1.00000	1.41806e-30	1.00000
PAH8+H	1.26388e-30	1.00000	1.26388e-30	1.00000
rad26	7.92074e-32	1.00000	7.92074e-32	1.00000
rad47	6.13965e-32	1.00000	6.13965e-32	1.00000
rad28	4.43496e-32	1.00000	4.43496e-32	1.00000
rad2	5.44311e-33	1.00000	5.44311e-33	1.00000
rad19anti	1.44032e-33	1.00000	1.44032e-33	1.00000
rad71	9.41848e-34	1.00000	9.41848e-34	1.00000
rad1	3.57007e-34	1.00000	3.57007e-34	1.00000
rad10	2.80519e-34	1.00000	2.80519e-34	1.00000
rad7	1.04087e-34	1.00000	1.04087e-34	1.00000
rad3	4.47586e-35	1.00000	4.47586e-35	1.00000
rad11	2.56016e-35	1.00000	2.56016e-35	1.00000
rad14	2.33568e-35	1.00000	2.33568e-35	1.00000
rad4	2.28138e-35	1.00000	2.28138e-35	1.00000
rad25	1.27807e-35	1.00000	1.27807e-35	1.00000
rad27	2.80248e-36	1.00000	2.80248e-36	1.00000
rad9	1.38218e-36	1.00000	1.38218e-36	1.00000
rad13	5.80779e-37	1.00000	5.80779e-37	1.00000
rad31	1.96254e-38	1.00000	1.96254e-38	1.00000
rad5	1.22395e-38	1.00000	1.22395e-38	1.00000
rad33	1.34683e-39	1.00000	1.34683e-39	1.00000
rad15	6.07520e-40	1.00000	6.07520e-40	1.00000
rad20	2.40933e-42	1.00000	2.40933e-42	1.00000
rad21	2.04416e-42	1.00000	2.04416e-42	1.00000
rad19syn	1.23836e-42	1.00000	1.23836e-42	1.00000
rad12	1.20084e-43	1.00000	1.20084e-43	1.00000
rad23	2.54124e-44	1.00000	2.54124e-44	1.00000
rad18	1.47096e-44	1.00000	1.47096e-44	1.00000
rad45	1.84946e-46	1.00000	1.84946e-46	1.00000
rad22	5.88976e-47	1.00000	5.88976e-47	1.00000
rad36	1.13644e-47	1.00000	1.13644e-47	1.00000
rad24	1.07837e-47	1.00000	1.07837e-47	1.00000
rad8	1.27613e-64	1.00000	1.27613e-64	1.00000

0.100000000E-05 Pa, 160.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.84423e-15 (1.00)	7.84423e-15 (1.00)
Formation of rad19	7.84418e-15 (1.000)	7.84418e-15 (1.000)
H-abstraction to cyc2enyl	5.05321e-20 (6.44e-06)	5.05321e-20 (6.44e-06)
H-abstraction to cyclenyl	1.29479e-24 (1.65e-10)	1.29479e-24 (1.65e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999679	0.999679	0.999679	0.999679
PhCHCCH2+H	0.000298982	0.999978	0.000298982	0.999978
Benzene+cycloprop-2-enylidene	6.44194e-06	0.999984	6.44194e-06	0.999984
PhCCH+CH3	5.29275e-06	0.999989	5.29275e-06	0.999989
C2H2+PhCH2	4.03297e-06	0.999993	4.03297e-06	0.999993
PhCCCH3+H	3.08198e-06	0.999996	3.08198e-06	0.999996
Ph+MeAc	2.47440e-06	0.999999	2.47440e-06	0.999999
rad67	7.33696e-07	1.000000	7.33696e-07	1.000000
rad35	3.19106e-07	1.000000	3.19106e-07	1.000000
Ph+Allene	2.52225e-07	1.000000	2.52225e-07	1.000000
PhCH2CCH+H	3.39643e-08	1.000000	3.39643e-08	1.000000
PAH7+H	3.04941e-08	1.000000	3.04941e-08	1.000000
rad39	8.60567e-09	1.000000	8.60567e-09	1.000000
rad37	8.17136e-09	1.000000	8.17136e-09	1.000000
rad30	6.03351e-09	1.000000	6.03351e-09	1.000000
PAH9+H	4.47144e-10	1.000000	4.47144e-10	1.000000
rad38	1.99330e-10	1.000000	1.99330e-10	1.000000
Benzene+cycloprop-1-enylidene	1.65062e-10	1.000000	1.65062e-10	1.000000
rad60syn	3.11859e-11	1.000000	3.11859e-11	1.000000
PAH10+CH3	1.80192e-11	1.000000	1.80192e-11	1.000000
rad60anti	1.54660e-11	1.000000	1.54660e-11	1.000000
PAH3+H	1.54653e-11	1.000000	1.54653e-11	1.000000
rad46	1.25466e-11	1.000000	1.25466e-11	1.000000
PhcycC3H3_A+H	6.04093e-12	1.000000	6.04093e-12	1.000000
rad59	3.10145e-12	1.000000	3.10145e-12	1.000000
rad43	7.31202e-13	1.000000	7.31202e-13	1.000000

rad54	6.61022e-13	1.00000	6.61022e-13	1.00000
rad62	1.61671e-13	1.00000	1.61671e-13	1.00000
rad50	1.13351e-13	1.00000	1.13351e-13	1.00000
Phenyl+cycC3H4	3.86829e-14	1.00000	0.00000	1.00000
rad70	1.45456e-14	1.00000	1.45456e-14	1.00000
PhcycC3H3_B+H	8.12740e-15	1.00000	8.12740e-15	1.00000
rad55	6.44670e-15	1.00000	6.44670e-15	1.00000
PAH1+H	4.60690e-15	1.00000	4.60690e-15	1.00000
rad52	9.13581e-16	1.00000	9.13581e-16	1.00000
rad58	4.08006e-16	1.00000	4.08006e-16	1.00000
rad51	2.97957e-16	1.00000	2.97957e-16	1.00000
rad34	2.50279e-16	1.00000	2.50279e-16	1.00000
rad41	4.99159e-17	1.00000	4.99159e-17	1.00000
rad42	3.74399e-17	1.00000	3.74399e-17	1.00000
rad65	6.76165e-18	1.00000	6.76165e-18	1.00000
rad53	9.55513e-20	1.00000	9.55513e-20	1.00000
rad64	1.40204e-20	1.00000	1.40204e-20	1.00000
rad61	4.46330e-22	1.00000	4.46330e-22	1.00000
rad56	1.48090e-23	1.00000	1.48090e-23	1.00000
rad68syn	1.24419e-24	1.00000	1.24419e-24	1.00000
rad68anti	9.86157e-25	1.00000	9.86157e-25	1.00000
rad40syn	7.79816e-28	1.00000	7.79816e-28	1.00000
rad40anti	6.20621e-28	1.00000	6.20621e-28	1.00000
rad73	4.23082e-29	1.00000	4.23082e-29	1.00000
PAH8+H	1.68146e-29	1.00000	1.68146e-29	1.00000
rad6	1.30389e-30	1.00000	1.30389e-30	1.00000
rad26	7.21789e-32	1.00000	7.21789e-32	1.00000
rad47	6.18322e-32	1.00000	6.18322e-32	1.00000
rad28	3.92595e-32	1.00000	3.92595e-32	1.00000
rad71	1.46142e-32	1.00000	1.46142e-32	1.00000
rad2	7.75606e-33	1.00000	7.75606e-33	1.00000
rad19anti	3.44720e-33	1.00000	3.44720e-33	1.00000
rad1	5.11495e-34	1.00000	5.11495e-34	1.00000
rad10	4.00281e-34	1.00000	4.00281e-34	1.00000
rad7	9.58924e-35	1.00000	9.58924e-35	1.00000
rad3	6.36268e-35	1.00000	6.36268e-35	1.00000
rad4	3.24777e-35	1.00000	3.24777e-35	1.00000
rad11	2.35998e-35	1.00000	2.35998e-35	1.00000
rad14	2.31055e-35	1.00000	2.31055e-35	1.00000
rad25	1.28685e-35	1.00000	1.28685e-35	1.00000
rad27	2.85097e-36	1.00000	2.85097e-36	1.00000
rad9	1.69112e-36	1.00000	1.69112e-36	1.00000
rad13	5.35733e-37	1.00000	5.35733e-37	1.00000
rad31	3.84760e-38	1.00000	3.84760e-38	1.00000
rad5	1.13038e-38	1.00000	1.13038e-38	1.00000
rad33	1.29102e-39	1.00000	1.29102e-39	1.00000
rad15	7.44608e-40	1.00000	7.44608e-40	1.00000
rad19syn	3.23538e-42	1.00000	3.23538e-42	1.00000
rad20	2.79854e-42	1.00000	2.79854e-42	1.00000
rad21	2.39540e-42	1.00000	2.39540e-42	1.00000
rad12	1.75628e-43	1.00000	1.75628e-43	1.00000
rad23	5.30720e-44	1.00000	5.30720e-44	1.00000
rad18	1.56082e-44	1.00000	1.56082e-44	1.00000
rad45	3.97426e-46	1.00000	3.97426e-46	1.00000
rad22	5.99491e-47	1.00000	5.99491e-47	1.00000
rad36	2.44561e-47	1.00000	2.44561e-47	1.00000
rad24	1.45255e-47	1.00000	1.45255e-47	1.00000
rad8	1.96347e-64	1.00000	1.96347e-64	1.00000

0.100000000E-05 Pa, 170.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.49598e-15 (1.00)	9.49598e-15 (1.00)
Formation of rad19	9.49586e-15 (1.000)	9.49586e-15 (1.000)
H-abstraction to cyc2enyl	1.24279e-19 (1.31e-05)	1.24279e-19 (1.31e-05)
H-abstraction to cyclenyl	6.08025e-24 (6.40e-10)	6.08025e-24 (6.40e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999661	0.999661	0.999661	0.999661
PhCHCCH2+H	0.000309167	0.999970	0.000309167	0.999970
Benzene+cycloprop-2-enylidene	1.30875e-05	0.999983	1.30875e-05	0.999983
PhCCH+CH3	5.48398e-06	0.999989	5.48398e-06	0.999989
C2H2+PhCH2	4.21347e-06	0.999993	4.21347e-06	0.999993
PhCCCH3+H	3.20659e-06	0.999996	3.20659e-06	0.999996
Ph+MeAc	2.59788e-06	0.999999	2.59788e-06	0.999999
rad67	7.68575e-07	0.999999	7.68575e-07	0.999999
rad35	3.33631e-07	1.000000	3.33631e-07	1.000000
Ph+Allene	2.69815e-07	1.000000	2.69815e-07	1.000000

PhCH2CCH+H	3.67554e-08	1.00000	3.67554e-08	1.00000
PAH7+H	3.22859e-08	1.00000	3.22859e-08	1.00000
rad39	9.11054e-09	1.00000	9.11054e-09	1.00000
rad37	8.68151e-09	1.00000	8.68151e-09	1.00000
rad30	6.31840e-09	1.00000	6.31840e-09	1.00000
Benzene+cycloprop-1-enylidene	6.40297e-10	1.00000	6.40297e-10	1.00000
PAH9+H	4.75294e-10	1.00000	4.75294e-10	1.00000
rad38	2.13351e-10	1.00000	2.13351e-10	1.00000
rad60syn	3.33085e-11	1.00000	3.33085e-11	1.00000
PAH10+CH3	2.05094e-11	1.00000	2.05094e-11	1.00000
PAH3+H	1.69431e-11	1.00000	1.69431e-11	1.00000
rad60anti	1.65480e-11	1.00000	1.65480e-11	1.00000
rad46	1.34952e-11	1.00000	1.34952e-11	1.00000
PhcycC3H3_A+H	7.80973e-12	1.00000	7.80973e-12	1.00000
rad59	3.38400e-12	1.00000	3.38400e-12	1.00000
rad43	8.17741e-13	1.00000	8.17741e-13	1.00000
rad54	7.51515e-13	1.00000	7.51515e-13	1.00000
rad62	1.81221e-13	1.00000	1.81221e-13	1.00000
rad50	1.26512e-13	1.00000	1.26512e-13	1.00000
Phenyl+cycC3H4	5.71891e-14	1.00000	0.00000	1.00000
rad70	1.72142e-14	1.00000	1.72142e-14	1.00000
PhcycC3H3_B+H	1.54798e-14	1.00000	1.54798e-14	1.00000
rad55	7.63216e-15	1.00000	7.63216e-15	1.00000
PAH1+H	5.77897e-15	1.00000	5.77897e-15	1.00000
rad52	1.04913e-15	1.00000	1.04913e-15	1.00000
rad58	4.91782e-16	1.00000	4.91782e-16	1.00000
rad51	3.54209e-16	1.00000	3.54209e-16	1.00000
rad34	3.15103e-16	1.00000	3.15103e-16	1.00000
rad41	6.58203e-17	1.00000	6.58203e-17	1.00000
rad42	4.80841e-17	1.00000	4.80841e-17	1.00000
rad65	8.16177e-18	1.00000	8.16177e-18	1.00000
rad53	1.76035e-19	1.00000	1.76035e-19	1.00000
rad64	2.96517e-20	1.00000	2.96517e-20	1.00000
rad61	1.40406e-21	1.00000	1.40406e-21	1.00000
rad56	5.46521e-23	1.00000	5.46521e-23	1.00000
rad68syn	4.98616e-24	1.00000	4.98616e-24	1.00000
rad68anti	3.92935e-24	1.00000	3.92935e-24	1.00000
rad40syn	5.38958e-27	1.00000	5.38958e-27	1.00000
rad40anti	4.30388e-27	1.00000	4.30388e-27	1.00000
rad73	2.64778e-28	1.00000	2.64778e-28	1.00000
PAH8+H	1.67789e-28	1.00000	1.67789e-28	1.00000
rad6	1.26628e-30	1.00000	1.26628e-30	1.00000
rad71	1.66935e-31	1.00000	1.66935e-31	1.00000
rad26	6.64184e-32	1.00000	6.64184e-32	1.00000
rad47	6.30330e-32	1.00000	6.30330e-32	1.00000
rad28	3.51058e-32	1.00000	3.51058e-32	1.00000
rad2	1.17128e-32	1.00000	1.17128e-32	1.00000
rad19anti	8.69987e-33	1.00000	8.69987e-33	1.00000
rad1	7.77042e-34	1.00000	7.77042e-34	1.00000
rad10	6.03334e-34	1.00000	6.03334e-34	1.00000
rad3	9.50464e-35	1.00000	9.50464e-35	1.00000
rad7	9.33133e-35	1.00000	9.33133e-35	1.00000
rad4	4.85923e-35	1.00000	4.85923e-35	1.00000
rad14	2.30257e-35	1.00000	2.30257e-35	1.00000
rad11	2.29772e-35	1.00000	2.29772e-35	1.00000
rad25	1.30583e-35	1.00000	1.30583e-35	1.00000
rad27	2.92485e-36	1.00000	2.92485e-36	1.00000
rad9	2.12092e-36	1.00000	2.12092e-36	1.00000
rad13	5.22016e-37	1.00000	5.22016e-37	1.00000
rad31	7.89258e-38	1.00000	7.89258e-38	1.00000
rad5	1.05109e-38	1.00000	1.05109e-38	1.00000
rad33	1.30161e-39	1.00000	1.30161e-39	1.00000
rad15	9.35538e-40	1.00000	9.35538e-40	1.00000
rad19syn	8.89196e-42	1.00000	8.89196e-42	1.00000
rad20	3.29367e-42	1.00000	3.29367e-42	1.00000
rad21	2.84555e-42	1.00000	2.84555e-42	1.00000
rad12	2.63752e-43	1.00000	2.63752e-43	1.00000
rad23	1.20991e-43	1.00000	1.20991e-43	1.00000
rad18	1.67024e-44	1.00000	1.67024e-44	1.00000
rad45	9.34179e-46	1.00000	9.34179e-46	1.00000
rad22	6.29481e-47	1.00000	6.29481e-47	1.00000
rad36	5.75864e-47	1.00000	5.75864e-47	1.00000
rad24	1.99570e-47	1.00000	1.99570e-47	1.00000
rad8	3.08693e-64	1.00000	3.08693e-64	1.00000

0.100000000E-05 Pa, 180.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.12884e-14 (1.00) 1.12884e-14 (1.00)

Formation of rad19 | 1.12881e-14 (1.000) 1.12881e-14 (1.000)
H-abstraction to cyc2enyl | 2.75916e-19 (2.44e-05) 2.75916e-19 (2.44e-05)
H-abstraction to cyc1enyl | 2.39955e-23 (2.13e-09) 2.39955e-23 (2.13e-09)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999638	0.999638	0.999638	0.999638
PhCHCCH2+H	0.000320239	0.999958	0.000320239	0.999958
Benzene+cycloprop-2-enylidene	2.44424e-05	0.999982	2.44424e-05	0.999982
PhCCH+CH3	5.69151e-06	0.999988	5.69151e-06	0.999988
C2H2+PhCH2	4.41182e-06	0.999992	4.41182e-06	0.999992
PhCCCH3+H	3.34271e-06	0.999996	3.34271e-06	0.999996
Ph+MeAc	2.73412e-06	0.999998	2.73412e-06	0.999998
rad67	8.07010e-07	0.999999	8.07010e-07	0.999999
rad35	3.49603e-07	1.000000	3.49603e-07	1.000000
Ph+Allene	2.89684e-07	1.000000	2.89684e-07	1.000000
PhCH2CCH+H	3.99486e-08	1.000000	3.99486e-08	1.000000
PAH7+H	3.42855e-08	1.000000	3.42855e-08	1.000000
rad39	9.67359e-09	1.000000	9.67359e-09	1.000000
rad37	9.25289e-09	1.000000	9.25289e-09	1.000000
rad30	6.63280e-09	1.000000	6.63280e-09	1.000000
Benzene+cycloprop-1-enylidene	2.12567e-09	1.000000	2.12567e-09	1.000000
PAH9+H	5.06928e-10	1.000000	5.06928e-10	1.000000
rad38	2.29255e-10	1.000000	2.29255e-10	1.000000
rad60syn	3.57046e-11	1.000000	3.57046e-11	1.000000
PAH10+CH3	2.35102e-11	1.000000	2.35102e-11	1.000000
PAH3+H	1.86591e-11	1.000000	1.86591e-11	1.000000
rad60anti	1.77718e-11	1.000000	1.77718e-11	1.000000
rad46	1.45760e-11	1.000000	1.45760e-11	1.000000
PhcycC3H3_A+H	1.01655e-11	1.000000	1.01655e-11	1.000000
rad59	3.71052e-12	1.000000	3.71052e-12	1.000000
rad43	9.19879e-13	1.000000	9.19879e-13	1.000000
rad54	8.60523e-13	1.000000	8.60523e-13	1.000000
rad62	2.04291e-13	1.000000	2.04291e-13	1.000000
rad50	1.42141e-13	1.000000	1.42141e-13	1.000000
Phenyl+cycC3H4	8.44565e-14	1.000000	0.000000	1.000000
PhcycC3H3_B+H	2.84776e-14	1.000000	2.84776e-14	1.000000
rad70	2.05555e-14	1.000000	2.05555e-14	1.000000
rad55	9.11579e-15	1.000000	9.11579e-15	1.000000
PAH1+H	7.32394e-15	1.000000	7.32394e-15	1.000000
rad52	1.21498e-15	1.000000	1.21498e-15	1.000000
rad58	5.98636e-16	1.000000	5.98636e-16	1.000000
rad51	4.25485e-16	1.000000	4.25485e-16	1.000000
rad34	4.00857e-16	1.000000	4.00857e-16	1.000000
rad41	8.74643e-17	1.000000	8.74643e-17	1.000000
rad42	6.22157e-17	1.000000	6.22157e-17	1.000000
rad65	9.95948e-18	1.000000	9.95948e-18	1.000000
rad53	3.16150e-19	1.000000	3.16150e-19	1.000000
rad64	5.99926e-20	1.000000	5.99926e-20	1.000000
rad61	4.00801e-21	1.000000	4.00801e-21	1.000000
rad56	1.79227e-22	1.000000	1.79227e-22	1.000000
rad68syn	1.75240e-23	1.000000	1.75240e-23	1.000000
rad68anti	1.37247e-23	1.000000	1.37247e-23	1.000000
rad40syn	3.05803e-26	1.000000	3.05803e-26	1.000000
rad40anti	2.44831e-26	1.000000	2.44831e-26	1.000000
rad73	1.39313e-27	1.000000	1.39313e-27	1.000000
PAH8+H	1.32188e-27	1.000000	1.32188e-27	1.000000
rad71	1.48898e-30	1.000000	1.48898e-30	1.000000
rad6	1.32195e-30	1.000000	1.32195e-30	1.000000
rad47	6.50507e-32	1.000000	6.50507e-32	1.000000
rad26	6.17721e-32	1.000000	6.17721e-32	1.000000
rad28	3.17205e-32	1.000000	3.17205e-32	1.000000
rad19anti	2.31119e-32	1.000000	2.31119e-32	1.000000
rad2	1.86258e-32	1.000000	1.86258e-32	1.000000
rad1	1.24367e-33	1.000000	1.24367e-33	1.000000
rad10	9.58830e-34	1.000000	9.58830e-34	1.000000
rad3	1.46998e-34	1.000000	1.46998e-34	1.000000
rad7	9.76169e-35	1.000000	9.76169e-35	1.000000
rad4	7.52829e-35	1.000000	7.52829e-35	1.000000
rad11	2.40466e-35	1.000000	2.40466e-35	1.000000
rad14	2.31022e-35	1.000000	2.31022e-35	1.000000
rad25	1.33468e-35	1.000000	1.33468e-35	1.000000
rad27	3.02451e-36	1.000000	3.02451e-36	1.000000
rad9	2.72401e-36	1.000000	2.72401e-36	1.000000
rad13	5.46853e-37	1.000000	5.46853e-37	1.000000
rad31	1.69328e-37	1.000000	1.69328e-37	1.000000
rad5	9.83053e-39	1.000000	9.83053e-39	1.000000
rad33	1.39427e-39	1.000000	1.39427e-39	1.000000
rad15	1.20380e-39	1.000000	1.20380e-39	1.000000
rad19syn	2.57212e-41	1.000000	2.57212e-41	1.000000

rad20	3.92576e-42	1.000000	3.92576e-42	1.000000
rad21	3.42507e-42	1.000000	3.42507e-42	1.000000
rad12	4.06552e-43	1.000000	4.06552e-43	1.000000
rad23	3.01615e-43	1.000000	3.01615e-43	1.000000
rad18	1.80132e-44	1.000000	1.80132e-44	1.000000
rad45	2.40570e-45	1.000000	2.40570e-45	1.000000
rad36	1.48605e-46	1.000000	1.48605e-46	1.000000
rad22	7.01502e-47	1.000000	7.01502e-47	1.000000
rad24	2.79599e-47	1.000000	2.79599e-47	1.000000
rad8	4.95694e-64	1.000000	4.95694e-64	1.000000

0.100000000E-05 Pa, 190.000000 K

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Rate constant          | True (fraction)          Effective (fraction)
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Total                  | 1.32132e-14 (1.00      ) 1.32132e-14 (1.00      )
Formation of rad19    | 1.32126e-14 (1.000    ) 1.32126e-14 (1.000    )
H-abstraction to cyc2enyl | 5.62053e-19 (4.25e-05) 5.62053e-19 (4.25e-05)
H-abstraction to cyclenyl | 8.18073e-23 (6.19e-09) 8.18073e-23 (6.19e-09)

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species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999606	0.999606	0.999606	0.999606
PhCHCCH2+H	0.000332293	0.999939	0.000332293	0.999939
Benzene+cycloprop-2-enylidene	4.25373e-05	0.999981	4.25373e-05	0.999981
PhCCH+CH3	5.91707e-06	0.999987	5.91707e-06	0.999987
C2H2+PhCH2	4.63023e-06	0.999992	4.63023e-06	0.999992
PhCCCH3+H	3.49167e-06	0.999995	3.49167e-06	0.999995
Ph+MeAc	2.88479e-06	0.999998	2.88479e-06	0.999998
rad67	8.49457e-07	0.999999	8.49457e-07	0.999999
rad35	3.67207e-07	0.999999	3.67207e-07	0.999999
Ph+Allene	3.12197e-07	1.000000	3.12197e-07	1.000000
PhCH2CCH+H	4.36151e-08	1.000000	4.36151e-08	1.000000
PAH7+H	3.65230e-08	1.000000	3.65230e-08	1.000000
rad39	1.03032e-08	1.000000	1.03032e-08	1.000000
rad37	9.89464e-09	1.000000	9.89464e-09	1.000000
rad30	6.98058e-09	1.000000	6.98058e-09	1.000000
Benzene+cycloprop-1-enylidene	6.19133e-09	1.000000	6.19133e-09	1.000000
PAH9+H	5.42590e-10	1.000000	5.42590e-10	1.000000
rad38	2.47359e-10	1.000000	2.47359e-10	1.000000
rad60syn	3.84183e-11	1.000000	3.84183e-11	1.000000
PAH10+CH3	2.71459e-11	1.000000	2.71459e-11	1.000000
PAH3+H	2.06610e-11	1.000000	2.06610e-11	1.000000
rad60anti	1.91607e-11	1.000000	1.91607e-11	1.000000
rad46	1.58119e-11	1.000000	1.58119e-11	1.000000
PhcycC3H3_A+H	1.33135e-11	1.000000	1.33135e-11	1.000000
rad59	4.08945e-12	1.000000	4.08945e-12	1.000000
rad43	1.04096e-12	1.000000	1.04096e-12	1.000000
rad54	9.92552e-13	1.000000	9.92552e-13	1.000000
rad62	2.31631e-13	1.000000	2.31631e-13	1.000000
rad50	1.60801e-13	1.000000	1.60801e-13	1.000000
Phenyl+cycC3H4	1.24603e-13	1.000000	0.000000	1.000000
PhcycC3H3_B+H	5.08976e-14	1.000000	5.08976e-14	1.000000
rad70	2.47658e-14	1.000000	2.47658e-14	1.000000
rad55	1.09840e-14	1.000000	1.09840e-14	1.000000
PAH1+H	9.37357e-15	1.000000	9.37357e-15	1.000000
rad52	1.41930e-15	1.000000	1.41930e-15	1.000000
rad58	7.35874e-16	1.000000	7.35874e-16	1.000000
rad51	5.16512e-16	1.000000	5.16512e-16	1.000000
rad34	5.15048e-16	1.000000	5.15048e-16	1.000000
rad41	1.17041e-16	1.000000	1.17041e-16	1.000000
rad42	8.10502e-17	1.000000	8.10502e-17	1.000000
rad65	1.22862e-17	1.000000	1.22862e-17	1.000000
rad53	5.56219e-19	1.000000	5.56219e-19	1.000000
rad64	1.17042e-19	1.000000	1.17042e-19	1.000000
rad61	1.05588e-20	1.000000	1.05588e-20	1.000000
rad56	5.33231e-22	1.000000	5.33231e-22	1.000000
rad68syn	5.52671e-23	1.000000	5.52671e-23	1.000000
rad68anti	4.30019e-23	1.000000	4.30019e-23	1.000000
rad40syn	1.47212e-25	1.000000	1.47212e-25	1.000000
rad40anti	1.18054e-25	1.000000	1.18054e-25	1.000000
PAH8+H	8.53886e-27	1.000000	8.53886e-27	1.000000
rad73	6.34253e-27	1.000000	6.34253e-27	1.000000
rad71	1.07847e-29	1.000000	1.07847e-29	1.000000
rad6	1.51355e-30	1.000000	1.51355e-30	1.000000
rad47	6.79798e-32	1.000000	6.79798e-32	1.000000
rad19anti	6.45010e-32	1.000000	6.45010e-32	1.000000
rad26	5.82049e-32	1.000000	5.82049e-32	1.000000
rad2	3.08087e-32	1.000000	3.08087e-32	1.000000
rad28	2.90107e-32	1.000000	2.90107e-32	1.000000

rad1	2.07165e-33	1.000000	2.07165e-33	1.000000
rad10	1.59388e-33	1.000000	1.59388e-33	1.000000
rad3	2.37353e-34	1.000000	2.37353e-34	1.000000
rad4	1.21788e-34	1.000000	1.21788e-34	1.000000
rad7	1.12004e-34	1.000000	1.12004e-34	1.000000
rad11	2.75976e-35	1.000000	2.75976e-35	1.000000
rad14	2.33264e-35	1.000000	2.33264e-35	1.000000
rad25	1.37338e-35	1.000000	1.37338e-35	1.000000
rad9	3.58081e-36	1.000000	3.58081e-36	1.000000
rad27	3.15136e-36	1.000000	3.15136e-36	1.000000
rad13	6.28364e-37	1.000000	6.28364e-37	1.000000
rad31	3.79750e-37	1.000000	3.79750e-37	1.000000
rad5	9.24034e-39	1.000000	9.24034e-39	1.000000
rad33	1.60610e-39	1.000000	1.60610e-39	1.000000
rad15	1.58550e-39	1.000000	1.58550e-39	1.000000
rad19syn	7.83212e-41	1.000000	7.83212e-41	1.000000
rad20	4.73717e-42	1.000000	4.73717e-42	1.000000
rad21	4.17589e-42	1.000000	4.17589e-42	1.000000
rad23	8.23178e-43	1.000000	8.23178e-43	1.000000
rad12	6.43102e-43	1.000000	6.43102e-43	1.000000
rad18	1.95694e-44	1.000000	1.95694e-44	1.000000
rad45	6.85912e-45	1.000000	6.85912e-45	1.000000
rad36	4.24734e-46	1.000000	4.24734e-46	1.000000
rad22	8.80828e-47	1.000000	8.80828e-47	1.000000
rad24	3.99396e-47	1.000000	3.99396e-47	1.000000
rad8	8.12779e-64	1.000000	8.12779e-64	1.000000

0.100000000E-05 Pa, 200.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.52621e-14 (1.00)	1.52621e-14 (1.00)
Formation of rad19	1.52610e-14 (1.000)	1.52610e-14 (1.000)
H-abstraction to cyc2enyl	1.06427e-18 (6.97e-05)	1.06427e-18 (6.97e-05)
H-abstraction to cyc1enyl	2.46309e-22 (1.61e-08)	2.46309e-22 (1.61e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.9999565	0.9999565	0.9999565	0.9999565
PhCHCCH2+H	0.000345433	0.999911	0.000345433	0.999911
Benzene+cycloprop-2-enylidene	6.97330e-05	0.999980	6.97330e-05	0.999980
PhCCH+CH3	6.16243e-06	0.999987	6.16243e-06	0.999987
C2H2+PhCH2	4.87109e-06	0.999991	4.87109e-06	0.999991
PhCCCH3+H	3.65492e-06	0.999995	3.65492e-06	0.999995
Ph+MeAc	3.05169e-06	0.999998	3.05169e-06	0.999998
rad67	8.96414e-07	0.999999	8.96414e-07	0.999999
rad35	3.86641e-07	0.999999	3.86641e-07	0.999999
Ph+Allene	3.37776e-07	1.000000	3.37776e-07	1.000000
PhCH2CCH+H	4.78388e-08	1.000000	4.78388e-08	1.000000
PAH7+H	3.90324e-08	1.000000	3.90324e-08	1.000000
Benzene+cycloprop-1-enylidene	1.61386e-08	1.000000	1.61386e-08	1.000000
rad39	1.10085e-08	1.000000	1.10085e-08	1.000000
rad37	1.06172e-08	1.000000	1.06172e-08	1.000000
rad30	7.36603e-09	1.000000	7.36603e-09	1.000000
PAH9+H	5.82902e-10	1.000000	5.82902e-10	1.000000
rad38	2.68036e-10	1.000000	2.68036e-10	1.000000
rad60syn	4.15004e-11	1.000000	4.15004e-11	1.000000
PAH10+CH3	3.15724e-11	1.000000	3.15724e-11	1.000000
PAH3+H	2.30055e-11	1.000000	2.30055e-11	1.000000
rad60anti	2.07416e-11	1.000000	2.07416e-11	1.000000
PhcycC3H3_A+H	1.75314e-11	1.000000	1.75314e-11	1.000000
rad46	1.72300e-11	1.000000	1.72300e-11	1.000000
rad59	4.53088e-12	1.000000	4.53088e-12	1.000000
rad43	1.18504e-12	1.000000	1.18504e-12	1.000000
rad54	1.15325e-12	1.000000	1.15325e-12	1.000000
rad62	2.64143e-13	1.000000	2.64143e-13	1.000000
Phenyl+cycC3H4	1.83626e-13	1.000000	0.00000	1.000000
rad50	1.83198e-13	1.000000	1.83198e-13	1.000000
PhcycC3H3_B+H	8.87690e-14	1.000000	8.87690e-14	1.000000
rad70	3.01009e-14	1.000000	3.01009e-14	1.000000
rad55	1.33496e-14	1.000000	1.33496e-14	1.000000
PAH1+H	1.21077e-14	1.000000	1.21077e-14	1.000000
rad52	1.67258e-15	1.000000	1.67258e-15	1.000000
rad58	9.13220e-16	1.000000	9.13220e-16	1.000000
rad34	6.67958e-16	1.000000	6.67958e-16	1.000000
rad51	6.33617e-16	1.000000	6.33617e-16	1.000000
rad41	1.57585e-16	1.000000	1.57585e-16	1.000000
rad42	1.06227e-16	1.000000	1.06227e-16	1.000000
rad65	1.53192e-17	1.000000	1.53192e-17	1.000000
rad53	9.61974e-19	1.000000	9.61974e-19	1.000000

rad64	2.21495e-19	1.000000	2.21495e-19	1.000000
rad61	2.60103e-20	1.000000	2.60103e-20	1.000000
rad56	1.46279e-21	1.000000	1.46279e-21	1.000000
rad68syn	1.59261e-22	1.000000	1.59261e-22	1.000000
rad68anti	1.23075e-22	1.000000	1.23075e-22	1.000000
rad40syn	6.17076e-25	1.000000	6.17076e-25	1.000000
rad40anti	4.95189e-25	1.000000	4.95189e-25	1.000000
PAH8+H	4.65852e-26	1.000000	4.65852e-26	1.000000
rad73	2.55582e-26	1.000000	2.55582e-26	1.000000
rad71	6.53613e-29	1.000000	6.53613e-29	1.000000
rad6	1.93402e-30	1.000000	1.93402e-30	1.000000
rad19anti	1.88664e-31	1.000000	1.88664e-31	1.000000
rad47	7.19639e-32	1.000000	7.19639e-32	1.000000
rad26	5.58288e-32	1.000000	5.58288e-32	1.000000
rad2	5.38376e-32	1.000000	5.38376e-32	1.000000
rad28	2.69607e-32	1.000000	2.69607e-32	1.000000
rad1	3.64795e-33	1.000000	3.64795e-33	1.000000
rad10	2.77810e-33	1.000000	2.77810e-33	1.000000
rad3	3.99073e-34	1.000000	3.99073e-34	1.000000
rad4	2.05194e-34	1.000000	2.05194e-34	1.000000
rad7	1.43433e-34	1.000000	1.43433e-34	1.000000
rad11	3.53457e-35	1.000000	3.53457e-35	1.000000
rad14	2.36947e-35	1.000000	2.36947e-35	1.000000
rad25	1.42225e-35	1.000000	1.42225e-35	1.000000
rad9	4.81694e-36	1.000000	4.81694e-36	1.000000
rad27	3.30807e-36	1.000000	3.30807e-36	1.000000
rad31	8.89669e-37	1.000000	8.89669e-37	1.000000
rad13	8.05923e-37	1.000000	8.05923e-37	1.000000
rad5	8.72332e-39	1.000000	8.72332e-39	1.000000
rad15	2.13709e-39	1.000000	2.13709e-39	1.000000
rad33	2.01589e-39	1.000000	2.01589e-39	1.000000
rad19syn	2.51002e-40	1.000000	2.51002e-40	1.000000
rad20	5.78604e-42	1.000000	5.78604e-42	1.000000
rad21	5.15628e-42	1.000000	5.15628e-42	1.000000
rad23	2.45956e-42	1.000000	2.45956e-42	1.000000
rad12	1.04399e-42	1.000000	1.04399e-42	1.000000
rad45	2.14897e-44	1.000000	2.14897e-44	1.000000
rad18	2.14088e-44	1.000000	2.14088e-44	1.000000
rad36	1.33446e-45	1.000000	1.33446e-45	1.000000
rad22	1.36726e-46	1.000000	1.36726e-46	1.000000
rad24	5.81724e-47	1.000000	5.81724e-47	1.000000
rad8	1.36072e-63	1.000000	1.36072e-63	1.000000

0.100000000E-05 Pa, 210.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.74272e-14 (1.00)	1.74272e-14 (1.00)
Formation of rad19	1.74253e-14 (1.000)	1.74253e-14 (1.000)
H-abstraction to cyc2enyl	1.89310e-18 (0.000109)	1.89310e-18 (0.000109)
H-abstraction to cyclenyl	6.66714e-22 (3.83e-08)	6.66714e-22 (3.83e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999511	0.999511	0.999511	0.999511
PhCHCCH2+H	0.000359771	0.999871	0.000359771	0.999871
Benzene+cycloprop-2-enylidene	0.000108629	0.999980	0.000108629	0.999980
PhCCH+CH3	6.42954e-06	0.999986	6.42954e-06	0.999986
C2H2+PhCH2	5.13705e-06	0.999991	5.13705e-06	0.999991
PhCCCH3+H	3.83397e-06	0.999995	3.83397e-06	0.999995
Ph+MeAc	3.23682e-06	0.999998	3.23682e-06	0.999998
rad67	9.48433e-07	0.999999	9.48433e-07	0.999999
rad35	4.08123e-07	1.000000	4.08123e-07	1.000000
Ph+Allene	3.66908e-07	1.000000	3.66908e-07	1.000000
PhCH2CCH+H	5.27181e-08	1.000000	5.27181e-08	1.000000
PAH7+H	4.18517e-08	1.000000	4.18517e-08	1.000000
Benzene+cycloprop-1-enylidene	3.82571e-08	1.000000	3.82571e-08	1.000000
rad39	1.18003e-08	1.000000	1.18003e-08	1.000000
rad37	1.14322e-08	1.000000	1.14322e-08	1.000000
rad30	7.79386e-09	1.000000	7.79386e-09	1.000000
PAH9+H	6.28582e-10	1.000000	6.28582e-10	1.000000
rad38	2.91718e-10	1.000000	2.91718e-10	1.000000
rad60syn	4.50097e-11	1.000000	4.50097e-11	1.000000
PAH10+CH3	3.69848e-11	1.000000	3.69848e-11	1.000000
PAH3+H	2.57613e-11	1.000000	2.57613e-11	1.000000
PhcycC3H3_A+H	2.31914e-11	1.000000	2.31914e-11	1.000000
rad60anti	2.25454e-11	1.000000	2.25454e-11	1.000000
rad46	1.88621e-11	1.000000	1.88621e-11	1.000000
rad59	5.04687e-12	1.000000	5.04687e-12	1.000000
rad43	1.35708e-12	1.000000	1.35708e-12	1.000000

rad54	1.34969e-12	1.00000	1.34969e-12	1.00000
rad62	3.02922e-13	1.00000	3.02922e-13	1.00000
Phenyl+cycC3H4	2.70226e-13	1.00000	0.00000	1.00000
rad50	2.10210e-13	1.00000	2.10210e-13	1.00000
PhcycC3H3_B+H	1.51586e-13	1.00000	1.51586e-13	1.00000
rad70	3.68946e-14	1.00000	3.68946e-14	1.00000
rad55	1.63588e-14	1.00000	1.63588e-14	1.00000
PAH1+H	1.57712e-14	1.00000	1.57712e-14	1.00000
rad52	1.98838e-15	1.00000	1.98838e-15	1.00000
rad58	1.14364e-15	1.00000	1.14364e-15	1.00000
rad34	8.73664e-16	1.00000	8.73664e-16	1.00000
rad51	7.85267e-16	1.00000	7.85267e-16	1.00000
rad41	2.13280e-16	1.00000	2.13280e-16	1.00000
rad42	1.39947e-16	1.00000	1.39947e-16	1.00000
rad65	1.92990e-17	1.00000	1.92990e-17	1.00000
rad53	1.63950e-18	1.00000	1.63950e-18	1.00000
rad64	4.08414e-19	1.00000	4.08414e-19	1.00000
rad61	6.05363e-20	1.00000	6.05363e-20	1.00000
rad56	3.74745e-21	1.00000	3.74745e-21	1.00000
rad68syn	4.25367e-22	1.00000	4.25367e-22	1.00000
rad68anti	3.26442e-22	1.00000	3.26442e-22	1.00000
rad40syn	2.29907e-24	1.00000	2.29907e-24	1.00000
rad40anti	1.84461e-24	1.00000	1.84461e-24	1.00000
PAH8+H	2.19678e-25	1.00000	2.19678e-25	1.00000
rad73	9.27903e-26	1.00000	9.27903e-26	1.00000
rad71	3.39170e-28	1.00000	3.39170e-28	1.00000
rad6	2.78636e-30	1.00000	2.78636e-30	1.00000
rad19anti	5.76791e-31	1.00000	5.76791e-31	1.00000
rad2	9.80943e-32	1.00000	9.80943e-32	1.00000
rad47	7.72082e-32	1.00000	7.72082e-32	1.00000
rad26	5.49770e-32	1.00000	5.49770e-32	1.00000
rad28	2.56592e-32	1.00000	2.56592e-32	1.00000
rad1	6.70209e-33	1.00000	6.70209e-33	1.00000
rad10	5.06021e-33	1.00000	5.06021e-33	1.00000
rad3	6.93175e-34	1.00000	6.93175e-34	1.00000
rad4	3.57224e-34	1.00000	3.57224e-34	1.00000
rad7	2.07114e-34	1.00000	2.07114e-34	1.00000
rad11	5.10395e-35	1.00000	5.10395e-35	1.00000
rad14	2.42097e-35	1.00000	2.42097e-35	1.00000
rad25	1.48191e-35	1.00000	1.48191e-35	1.00000
rad9	6.63394e-36	1.00000	6.63394e-36	1.00000
rad27	3.49888e-36	1.00000	3.49888e-36	1.00000
rad31	2.17526e-36	1.00000	2.17526e-36	1.00000
rad13	1.16560e-36	1.00000	1.16560e-36	1.00000
rad5	8.26645e-39	1.00000	8.26645e-39	1.00000
rad15	2.94931e-39	1.00000	2.94931e-39	1.00000
rad33	2.79345e-39	1.00000	2.79345e-39	1.00000
rad19syn	8.46110e-40	1.00000	8.46110e-40	1.00000
rad23	8.03158e-42	1.00000	8.03158e-42	1.00000
rad20	7.15315e-42	1.00000	7.15315e-42	1.00000
rad21	6.44791e-42	1.00000	6.44791e-42	1.00000
rad12	1.73960e-42	1.00000	1.73960e-42	1.00000
rad45	7.41897e-44	1.00000	7.41897e-44	1.00000
rad18	2.35810e-44	1.00000	2.35810e-44	1.00000
rad36	4.62194e-45	1.00000	4.62194e-45	1.00000
rad22	2.81326e-46	1.00000	2.81326e-46	1.00000
rad24	8.64062e-47	1.00000	8.64062e-47	1.00000
rad8	2.32606e-63	1.00000	2.32606e-63	1.00000

0.100000000E-05 Pa, 220.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.97009e-14 (1.00)	1.97009e-14 (1.00)
Formation of rad19	1.96977e-14 (1.000)	1.96977e-14 (1.000)
H-abstraction to cyc2enyl	3.19064e-18 (0.000162)	3.19064e-18 (0.000162)
H-abstraction to cyc1enyl	1.64627e-21 (8.36e-08)	1.64627e-21 (8.36e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999441	0.999441	0.999441	0.999441
PhCHCCH2+H	0.000375424	0.999816	0.000375424	0.999816
Benzene+cycloprop-2-enylidene	0.000161954	0.999978	0.000161954	0.999978
PhCCH+CH3	6.72039e-06	0.999985	6.72039e-06	0.999985
C2H2+PhCH2	5.43098e-06	0.999991	5.43098e-06	0.999991
PhCCCH3+H	4.03052e-06	0.999995	4.03052e-06	0.999995
Ph+MeAc	3.44236e-06	0.999998	3.44236e-06	0.999998
rad67	1.00612e-06	0.999999	1.00612e-06	0.999999
rad35	4.31892e-07	0.999999	4.31892e-07	0.999999
Ph+Allene	4.00152e-07	1.000000	4.00152e-07	1.000000

Benzene+cycloprop-1-enylidene	8.35632e-08	1.000000	8.35632e-08	1.000000
PhCH2CCH+H	5.83685e-08	1.00000	5.83685e-08	1.00000
PAH7+H	4.50238e-08	1.00000	4.50238e-08	1.00000
rad39	1.26902e-08	1.00000	1.26902e-08	1.00000
rad37	1.23532e-08	1.00000	1.23532e-08	1.00000
rad30	8.26934e-09	1.00000	8.26934e-09	1.00000
PAH9+H	6.80449e-10	1.00000	6.80449e-10	1.00000
rad38	3.18912e-10	1.00000	3.18912e-10	1.00000
rad60syn	4.90141e-11	1.00000	4.90141e-11	1.00000
PAH10+CH3	4.36275e-11	1.00000	4.36275e-11	1.00000
PhcycC3H3_A+H	3.07931e-11	1.00000	3.07931e-11	1.00000
PAH3+H	2.90111e-11	1.00000	2.90111e-11	1.00000
rad60anti	2.46085e-11	1.00000	2.46085e-11	1.00000
rad46	2.07451e-11	1.00000	2.07451e-11	1.00000
rad59	5.65179e-12	1.00000	5.65179e-12	1.00000
rad54	1.59075e-12	1.00000	1.59075e-12	1.00000
rad43	1.56310e-12	1.00000	1.56310e-12	1.00000
Phenyl+cycC3H4	3.96956e-13	1.00000	0.00000	1.00000
rad62	3.49289e-13	1.00000	3.49289e-13	1.00000
PhcycC3H3_B+H	2.54101e-13	1.00000	2.54101e-13	1.00000
rad50	2.42929e-13	1.00000	2.42929e-13	1.00000
rad70	4.55816e-14	1.00000	4.55816e-14	1.00000
PAH1+H	2.06978e-14	1.00000	2.06978e-14	1.00000
rad55	2.02024e-14	1.00000	2.02024e-14	1.00000
rad52	2.38419e-15	1.00000	2.38419e-15	1.00000
rad58	1.44438e-15	1.00000	1.44438e-15	1.00000
rad34	1.15142e-15	1.00000	1.15142e-15	1.00000
rad51	9.82815e-16	1.00000	9.82815e-16	1.00000
rad41	2.89888e-16	1.00000	2.89888e-16	1.00000
rad42	1.85167e-16	1.00000	1.85167e-16	1.00000
rad65	2.45506e-17	1.00000	2.45506e-17	1.00000
rad53	2.75830e-18	1.00000	2.75830e-18	1.00000
rad64	7.36243e-19	1.00000	7.36243e-19	1.00000
rad61	1.34204e-19	1.00000	1.34204e-19	1.00000
rad56	9.05590e-21	1.00000	9.05590e-21	1.00000
rad68syn	1.06496e-21	1.00000	1.06496e-21	1.00000
rad68anti	8.11646e-22	1.00000	8.11646e-22	1.00000
rad40syn	7.73817e-24	1.00000	7.73817e-24	1.00000
rad40anti	6.20298e-24	1.00000	6.20298e-24	1.00000
PAH8+H	9.11871e-25	1.00000	9.11871e-25	1.00000
rad73	3.07722e-25	1.00000	3.07722e-25	1.00000
rad71	1.53452e-27	1.00000	1.53452e-27	1.00000
rad6	4.54111e-30	1.00000	4.54111e-30	1.00000
rad19anti	1.83731e-30	1.00000	1.83731e-30	1.00000
rad2	1.85636e-31	1.00000	1.85636e-31	1.00000
rad47	8.39990e-32	1.00000	8.39990e-32	1.00000
rad26	5.63625e-32	1.00000	5.63625e-32	1.00000
rad28	2.53729e-32	1.00000	2.53729e-32	1.00000
rad1	1.27978e-32	1.00000	1.27978e-32	1.00000
rad10	9.59500e-33	1.00000	9.59500e-33	1.00000
rad3	1.25737e-33	1.00000	1.25737e-33	1.00000
rad4	6.49586e-34	1.00000	6.49586e-34	1.00000
rad7	3.38334e-34	1.00000	3.38334e-34	1.00000
rad11	8.33741e-35	1.00000	8.33741e-35	1.00000
rad14	2.48797e-35	1.00000	2.48797e-35	1.00000
rad25	1.55327e-35	1.00000	1.55327e-35	1.00000
rad9	9.36809e-36	1.00000	9.36809e-36	1.00000
rad31	5.54362e-36	1.00000	5.54362e-36	1.00000
rad27	3.73045e-36	1.00000	3.73045e-36	1.00000
rad13	1.90730e-36	1.00000	1.90730e-36	1.00000
rad5	7.85961e-39	1.00000	7.85961e-39	1.00000
rad33	4.32948e-39	1.00000	4.32948e-39	1.00000
rad15	4.17377e-39	1.00000	4.17377e-39	1.00000
rad19syn	2.99699e-39	1.00000	2.99699e-39	1.00000
rad23	2.85667e-41	1.00000	2.85667e-41	1.00000
rad20	8.95220e-42	1.00000	8.95220e-42	1.00000
rad21	8.16695e-42	1.00000	8.16695e-42	1.00000
rad12	2.97630e-42	1.00000	2.97630e-42	1.00000
rad45	2.81069e-43	1.00000	2.81069e-43	1.00000
rad18	2.61543e-44	1.00000	2.61543e-44	1.00000
rad36	1.75752e-44	1.00000	1.75752e-44	1.00000
rad22	7.49135e-46	1.00000	7.49135e-46	1.00000
rad24	1.30920e-46	1.00000	1.30920e-46	1.00000
rad8	4.06073e-63	1.00000	4.06073e-63	1.00000

0.100000000E-05 Pa, 230.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.20761e-14 (1.00) 2.20761e-14 (1.00)

Formation of rad19 | 2.20710e-14 (1.000) 2.20710e-14 (1.000)
H-abstraction to cyc2enyl | 5.13155e-18 (0.000232) 5.13155e-18 (0.000232)
H-abstraction to cyclenyl | 3.75316e-21 (1.70e-07) 3.75316e-21 (1.70e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999352	0.999352	0.999352	0.999352
PhCHCCH2+H	0.000392520	0.999745	0.000392520	0.999745
Benzene+cycloprop-2-enylidene	0.000232448	0.999977	0.000232448	0.999977
PhCCH+CH3	7.03712e-06	0.999984	7.03712e-06	0.999984
C2H2+PhCH2	5.75601e-06	0.999990	5.75601e-06	0.999990
PhCCCH3+H	4.24633e-06	0.999994	4.24633e-06	0.999994
Ph+MeAc	3.67074e-06	0.999998	3.67074e-06	0.999998
rad67	1.07014e-06	0.999999	1.07014e-06	0.999999
rad35	4.58209e-07	1.000000	4.58209e-07	1.000000
Ph+Allene	4.38150e-07	1.000000	4.38150e-07	1.000000
Benzene+cycloprop-1-enylidene	1.70010e-07	1.000000	1.70010e-07	1.000000
PhCH2CCH+H	6.49255e-08	1.000000	6.49255e-08	1.000000
PAH7+H	4.85973e-08	1.000000	4.85973e-08	1.000000
rad39	1.36916e-08	1.000000	1.36916e-08	1.000000
rad37	1.33953e-08	1.000000	1.33953e-08	1.000000
rad30	8.79825e-09	1.000000	8.79825e-09	1.000000
PAH9+H	7.39444e-10	1.000000	7.39444e-10	1.000000
rad38	3.50209e-10	1.000000	3.50209e-10	1.000000
rad60syn	5.35915e-11	1.000000	5.35915e-11	1.000000
PAH10+CH3	5.18070e-11	1.000000	5.18070e-11	1.000000
PhcycC3H3_A+H	4.10038e-11	1.000000	4.10038e-11	1.000000
PAH3+H	3.28545e-11	1.000000	3.28545e-11	1.000000
rad60anti	2.69725e-11	1.000000	2.69725e-11	1.000000
rad46	2.29232e-11	1.000000	2.29232e-11	1.000000
rad59	6.36289e-12	1.000000	6.36289e-12	1.000000
rad54	1.88753e-12	1.000000	1.88753e-12	1.000000
rad43	1.81040e-12	1.000000	1.81040e-12	1.000000
Phenyl+cycC3H4	5.81829e-13	1.000000	0.000000	1.000000
PhcycC3H3_B+H	4.18958e-13	1.000000	4.18958e-13	1.000000
rad62	4.04844e-13	1.000000	4.04844e-13	1.000000
rad50	2.82714e-13	1.000000	2.82714e-13	1.000000
rad70	5.67286e-14	1.000000	5.67286e-14	1.000000
PAH1+H	2.73412e-14	1.000000	2.73412e-14	1.000000
rad55	2.51284e-14	1.000000	2.51284e-14	1.000000
rad52	2.88263e-15	1.000000	2.88263e-15	1.000000
rad58	1.83842e-15	1.000000	1.83842e-15	1.000000
rad34	1.52752e-15	1.000000	1.52752e-15	1.000000
rad51	1.24150e-15	1.000000	1.24150e-15	1.000000
rad41	3.95307e-16	1.000000	3.95307e-16	1.000000
rad42	2.45831e-16	1.000000	2.45831e-16	1.000000
rad65	3.15147e-17	1.000000	3.15147e-17	1.000000
rad53	4.58652e-18	1.000000	4.58652e-18	1.000000
rad64	1.30089e-18	1.000000	1.30089e-18	1.000000
rad61	2.85229e-19	1.000000	2.85229e-19	1.000000
rad56	2.08059e-20	1.000000	2.08059e-20	1.000000
rad68syn	2.52167e-21	1.000000	2.52167e-21	1.000000
rad68anti	1.90889e-21	1.000000	1.90889e-21	1.000000
rad40syn	2.38315e-23	1.000000	2.38315e-23	1.000000
rad40anti	1.90761e-23	1.000000	1.90761e-23	1.000000
PAH8+H	3.38041e-24	1.000000	3.38041e-24	1.000000
rad73	9.42054e-25	1.000000	9.42054e-25	1.000000
rad71	6.14189e-27	1.000000	6.14189e-27	1.000000
rad6	8.38317e-30	1.000000	8.38317e-30	1.000000
rad19anti	6.07589e-30	1.000000	6.07589e-30	1.000000
rad2	3.64406e-31	1.000000	3.64406e-31	1.000000
rad47	9.27304e-32	1.000000	9.27304e-32	1.000000
rad26	6.14009e-32	1.000000	6.14009e-32	1.000000
rad28	2.67242e-32	1.000000	2.67242e-32	1.000000
rad1	2.53686e-32	1.000000	2.53686e-32	1.000000
rad10	1.89188e-32	1.000000	1.89188e-32	1.000000
rad3	2.35743e-33	1.000000	2.35743e-33	1.000000
rad4	1.22120e-33	1.000000	1.22120e-33	1.000000
rad7	6.26078e-34	1.000000	6.26078e-34	1.000000
rad11	1.54266e-34	1.000000	1.54266e-34	1.000000
rad14	2.57216e-35	1.000000	2.57216e-35	1.000000
rad25	1.63762e-35	1.000000	1.63762e-35	1.000000
rad31	1.47015e-35	1.000000	1.47015e-35	1.000000
rad9	1.36176e-35	1.000000	1.36176e-35	1.000000
rad27	4.01331e-36	1.000000	4.01331e-36	1.000000
rad13	3.53570e-36	1.000000	3.53570e-36	1.000000
rad19syn	1.11381e-38	1.000000	1.11381e-38	1.000000
rad33	7.60410e-39	1.000000	7.60410e-39	1.000000
rad5	7.49489e-39	1.000000	7.49489e-39	1.000000
rad15	6.08050e-39	1.000000	6.08050e-39	1.000000

rad23	1.10174e-40	1.00000	1.10174e-40	1.00000
rad20	1.13467e-41	1.00000	1.13467e-41	1.00000
rad21	1.04817e-41	1.00000	1.04817e-41	1.00000
rad12	5.23085e-42	1.00000	5.23085e-42	1.00000
rad45	1.16182e-42	1.00000	1.16182e-42	1.00000
rad36	7.29527e-44	1.00000	7.29527e-44	1.00000
rad18	2.92299e-44	1.00000	2.92299e-44	1.00000
rad22	2.38225e-45	1.00000	2.38225e-45	1.00000
rad24	2.02424e-46	1.00000	2.02424e-46	1.00000
rad8	7.24168e-63	1.00000	7.24168e-63	1.00000

0.100000000E-05 Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.45462e-14 (1.00)	2.45462e-14 (1.00)
Formation of rad19	2.45383e-14 (1.000)	2.45383e-14 (1.000)
H-abstraction to cyc2enyl	7.92234e-18 (0.000323)	7.92234e-18 (0.000323)
H-abstraction to cyclenyl	7.97958e-21 (3.25e-07)	7.97958e-21 (3.25e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999241	0.999241	0.999241	0.999241
PhCHCCH2+H	0.000411192	0.999652	0.000411192	0.999652
Benzene+cycloprop-2-enylidene	0.000322752	0.999975	0.000322752	0.999975
PhCCH+CH3	7.38194e-06	0.999982	7.38194e-06	0.999982
C2H2+PhCH2	6.11553e-06	0.999989	6.11553e-06	0.999989
PhCCCH3+H	4.48334e-06	0.999993	4.48334e-06	0.999993
Ph+MeAc	3.92459e-06	0.999997	3.92459e-06	0.999997
rad67	1.14122e-06	0.999998	1.14122e-06	0.999998
rad35	4.87362e-07	0.999999	4.87362e-07	0.999999
Ph+Allene	4.81641e-07	0.999999	4.81641e-07	0.999999
Benzene+cycloprop-1-enylidene	3.25084e-07	0.999999	3.25084e-07	0.999999
PhCH2CCH+H	7.25479e-08	0.999999	7.25479e-08	0.999999
PAH7+H	5.26263e-08	0.999999	5.26263e-08	0.999999
rad39	1.48191e-08	0.999999	1.48191e-08	0.999999
rad37	1.45757e-08	1.000000	1.45757e-08	1.000000
rad30	9.38702e-09	1.000000	9.38702e-09	1.000000
PAH9+H	8.06648e-10	1.000000	8.06648e-10	1.000000
rad38	3.86297e-10	1.000000	3.86297e-10	1.000000
PAH10+CH3	6.19064e-11	1.000000	6.19064e-11	1.000000
rad60syn	5.88324e-11	1.000000	5.88324e-11	1.000000
PhcycC3H3_A+H	5.47108e-11	1.000000	5.47108e-11	1.000000
PAH3+H	3.74113e-11	1.000000	3.74113e-11	1.000000
rad60anti	2.96857e-11	1.000000	2.96857e-11	1.000000
rad46	2.54475e-11	1.000000	2.54475e-11	1.000000
rad59	7.20068e-12	1.000000	7.20068e-12	1.000000
rad54	2.25392e-12	1.000000	2.25392e-12	1.000000
rad43	2.10782e-12	1.000000	2.10782e-12	1.000000
Phenyl+cycC3H4	8.50545e-13	1.000000	0.00000	1.000000
PhcycC3H3_B+H	6.80482e-13	1.000000	6.80482e-13	1.000000
rad62	4.71505e-13	1.000000	4.71505e-13	1.000000
rad50	3.31266e-13	1.000000	3.31266e-13	1.000000
rad70	7.10727e-14	1.000000	7.10727e-14	1.000000
PAH1+H	3.63163e-14	1.000000	3.63163e-14	1.000000
rad55	3.14580e-14	1.000000	3.14580e-14	1.000000
rad52	3.51289e-15	1.000000	3.51289e-15	1.000000
rad58	2.35637e-15	1.000000	2.35637e-15	1.000000
rad34	2.03778e-15	1.000000	2.03778e-15	1.000000
rad51	1.58177e-15	1.000000	1.58177e-15	1.000000
rad41	5.40331e-16	1.000000	5.40331e-16	1.000000
rad42	3.27191e-16	1.000000	3.27191e-16	1.000000
rad65	4.07884e-17	1.000000	4.07884e-17	1.000000
rad53	7.54386e-18	1.000000	7.54386e-18	1.000000
rad64	2.25729e-18	1.000000	2.25729e-18	1.000000
rad61	5.84088e-19	1.000000	5.84088e-19	1.000000
rad56	4.57232e-20	1.000000	4.57232e-20	1.000000
rad68syn	5.68636e-21	1.000000	5.68636e-21	1.000000
rad68anti	4.27665e-21	1.000000	4.27665e-21	1.000000
rad40syn	6.78314e-23	1.000000	6.78314e-23	1.000000
rad40anti	5.41986e-23	1.000000	5.41986e-23	1.000000
PAH8+H	1.13224e-23	1.000000	1.13224e-23	1.000000
rad73	2.68346e-24	1.000000	2.68346e-24	1.000000
rad71	2.20097e-26	1.000000	2.20097e-26	1.000000
rad19anti	2.07742e-29	1.000000	2.07742e-29	1.000000
rad6	1.75673e-29	1.000000	1.75673e-29	1.000000
rad2	7.52413e-31	1.000000	7.52413e-31	1.000000
rad47	1.03946e-31	1.000000	1.03946e-31	1.000000
rad26	7.28723e-32	1.000000	7.28723e-32	1.000000
rad1	5.29355e-32	1.000000	5.29355e-32	1.000000

rad10	3.89392e-32	1.000000	3.89392e-32	1.000000
rad28	3.11212e-32	1.000000	3.11212e-32	1.000000
rad3	4.56917e-33	1.000000	4.56917e-33	1.000000
rad4	2.37389e-33	1.000000	2.37389e-33	1.000000
rad7	1.31516e-33	1.000000	1.31516e-33	1.000000
rad11	3.23960e-34	1.000000	3.23960e-34	1.000000
rad31	4.04870e-35	1.000000	4.04870e-35	1.000000
rad14	2.67645e-35	1.000000	2.67645e-35	1.000000
rad9	2.05609e-35	1.000000	2.05609e-35	1.000000
rad25	1.73665e-35	1.000000	1.73665e-35	1.000000
rad13	7.44132e-36	1.000000	7.44132e-36	1.000000
rad27	4.36511e-36	1.000000	4.36511e-36	1.000000
rad19syn	4.33470e-38	1.000000	4.33470e-38	1.000000
rad33	1.53053e-38	1.000000	1.53053e-38	1.000000
rad15	9.20193e-39	1.000000	9.20193e-39	1.000000
rad5	7.16602e-39	1.000000	7.16602e-39	1.000000
rad23	4.58290e-40	1.000000	4.58290e-40	1.000000
rad20	1.45795e-41	1.000000	1.45795e-41	1.000000
rad21	1.36428e-41	1.000000	1.36428e-41	1.000000
rad12	9.44901e-42	1.000000	9.44901e-42	1.000000
rad45	5.21824e-42	1.000000	5.21824e-42	1.000000
rad36	3.29210e-43	1.000000	3.29210e-43	1.000000
rad18	3.29845e-44	1.000000	3.29845e-44	1.000000
rad22	8.48843e-45	1.000000	8.48843e-45	1.000000
rad24	3.19540e-46	1.000000	3.19540e-46	1.000000
rad8	1.31971e-62	1.000000	1.31971e-62	1.000000

0.100000000E-05 Pa, 250.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.71048e-14 (1.00)	2.71048e-14 (1.00)
Formation of rad19	2.70930e-14 (1.000)	2.70930e-14 (1.000)
H-abstraction to cyc2enyl	1.17991e-17 (0.000435)	1.17991e-17 (0.000435)
H-abstraction to cyc1enyl	1.59554e-20 (5.89e-07)	1.59554e-20 (5.89e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999107	0.999107	0.999107	0.999107
Benzene+cycloprop-2-enylidene	0.000435312	0.999543	0.000435312	0.999543
PhCHCCH2+H	0.000431584	0.999974	0.000431584	0.999974
PhCCH+CH3	7.75719e-06	0.999982	7.75719e-06	0.999982
C2H2+PhCH2	6.51326e-06	0.999988	6.51326e-06	0.999988
PhCCCH3+H	4.74360e-06	0.999993	4.74360e-06	0.999993
Ph+MeAc	4.20682e-06	0.999997	4.20682e-06	0.999997
rad67	1.22017e-06	0.999999	1.22017e-06	0.999999
Benzene+cycloprop-1-enylidene	5.88656e-07	0.999999	5.88656e-07	0.999999
Ph+Allene	5.31474e-07	1.000000	5.31474e-07	1.000000
rad35	5.19665e-07	1.000000	5.19665e-07	1.000000
PhCH2CCH+H	8.14215e-08	1.000000	8.14215e-08	1.000000
PAH7+H	5.71717e-08	1.000000	5.71717e-08	1.000000
rad39	1.60894e-08	1.000000	1.60894e-08	1.000000
rad37	1.59138e-08	1.000000	1.59138e-08	1.000000
rad30	1.00427e-08	1.000000	1.00427e-08	1.000000
PAH9+H	8.83301e-10	1.000000	8.83301e-10	1.000000
rad38	4.27984e-10	1.000000	4.27984e-10	1.000000
PAH10+CH3	7.44048e-11	1.000000	7.44048e-11	1.000000
PhcycC3H3_A+H	7.30900e-11	1.000000	7.30900e-11	1.000000
rad60syn	6.48407e-11	1.000000	6.48407e-11	1.000000
PAH3+H	4.28259e-11	1.000000	4.28259e-11	1.000000
rad60anti	3.28040e-11	1.000000	3.28040e-11	1.000000
rad46	2.83782e-11	1.000000	2.83782e-11	1.000000
rad59	8.18974e-12	1.000000	8.18974e-12	1.000000
rad54	2.70728e-12	1.000000	2.70728e-12	1.000000
rad43	2.46610e-12	1.000000	2.46610e-12	1.000000
Phenyl+cycC3H4	1.23952e-12	1.000000	0.000000	1.000000
PhcycC3H3_B+H	1.09005e-12	1.000000	1.09005e-12	1.000000
rad62	5.51586e-13	1.000000	5.51586e-13	1.000000
rad50	3.90700e-13	1.000000	3.90700e-13	1.000000
rad70	8.95708e-14	1.000000	8.95708e-14	1.000000
PAH1+H	4.84545e-14	1.000000	4.84545e-14	1.000000
rad55	3.96080e-14	1.000000	3.96080e-14	1.000000
rad52	4.31279e-15	1.000000	4.31279e-15	1.000000
rad58	3.03881e-15	1.000000	3.03881e-15	1.000000
rad34	2.73086e-15	1.000000	2.73086e-15	1.000000
rad51	2.03107e-15	1.000000	2.03107e-15	1.000000
rad41	7.39638e-16	1.000000	7.39638e-16	1.000000
rad42	4.36203e-16	1.000000	4.36203e-16	1.000000
rad65	5.31796e-17	1.000000	5.31796e-17	1.000000
rad53	1.22797e-17	1.000000	1.22797e-17	1.000000

rad64	3.85188e-18	1.00000	3.85188e-18	1.00000
rad61	1.15688e-18	1.00000	1.15688e-18	1.00000
rad56	9.65553e-20	1.00000	9.65553e-20	1.00000
rad68syn	1.22760e-20	1.00000	1.22760e-20	1.00000
rad68anti	9.17629e-21	1.00000	9.17629e-21	1.00000
rad40syn	1.79832e-22	1.00000	1.79832e-22	1.00000
rad40anti	1.43402e-22	1.00000	1.43402e-22	1.00000
PAH8+H	3.45930e-23	1.00000	3.45930e-23	1.00000
rad73	7.15481e-24	1.00000	7.15481e-24	1.00000
rad71	7.13356e-26	1.00000	7.13356e-26	1.00000
rad19anti	7.31047e-29	1.00000	7.31047e-29	1.00000
rad6	4.17341e-29	1.00000	4.17341e-29	1.00000
rad2	1.59624e-30	1.00000	1.59624e-30	1.00000
rad47	1.18402e-31	1.00000	1.18402e-31	1.00000
rad1	1.13589e-31	1.00000	1.13589e-31	1.00000
rad26	9.62950e-32	1.00000	9.62950e-32	1.00000
rad10	8.28647e-32	1.00000	8.28647e-32	1.00000
rad28	4.18212e-32	1.00000	4.18212e-32	1.00000
rad3	9.24954e-33	1.00000	9.24954e-33	1.00000
rad4	4.82091e-33	1.00000	4.82091e-33	1.00000
rad7	3.13206e-33	1.00000	3.13206e-33	1.00000
rad11	7.70973e-34	1.00000	7.70973e-34	1.00000
rad31	1.15496e-34	1.00000	1.15496e-34	1.00000
rad9	3.28879e-35	1.00000	3.28879e-35	1.00000
rad14	2.80578e-35	1.00000	2.80578e-35	1.00000
rad25	1.85266e-35	1.00000	1.85266e-35	1.00000
rad13	1.77573e-35	1.00000	1.77573e-35	1.00000
rad27	4.81700e-36	1.00000	4.81700e-36	1.00000
rad19syn	1.76219e-37	1.00000	1.76219e-37	1.00000
rad33	3.53926e-38	1.00000	3.53926e-38	1.00000
rad15	1.47541e-38	1.00000	1.47541e-38	1.00000
rad5	6.86808e-39	1.00000	6.86808e-39	1.00000
rad23	2.04445e-39	1.00000	2.04445e-39	1.00000
rad45	2.52756e-41	1.00000	2.52756e-41	1.00000
rad20	1.90351e-41	1.00000	1.90351e-41	1.00000
rad21	1.80430e-41	1.00000	1.80430e-41	1.00000
rad12	1.75560e-41	1.00000	1.75560e-41	1.00000
rad36	1.60299e-42	1.00000	1.60299e-42	1.00000
rad18	3.77992e-44	1.00000	3.77992e-44	1.00000
rad22	3.27839e-44	1.00000	3.27839e-44	1.00000
rad24	5.15314e-46	1.00000	5.15314e-46	1.00000
rad8	2.45880e-62	1.00000	2.45880e-62	1.00000

0.100000000E-05 Pa, 260.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.97464e-14 (1.00)	2.97464e-14 (1.00)
Formation of rad19	2.97293e-14 (0.999)	2.97293e-14 (0.999)
H-abstraction to cyc2enyl	1.70236e-17 (0.000572)	1.70236e-17 (0.000572)
H-abstraction to cyclenyl	3.02186e-20 (1.02e-06)	3.02186e-20 (1.02e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998946	0.998946	0.998946	0.998946
Benzene+cycloprop-2-enylidene	0.000572291	0.999518	0.000572291	0.999518
PhCHCCH2+H	0.000453848	0.999972	0.000453848	0.999972
PhCCH+CH3	8.16530e-06	0.999980	8.16530e-06	0.999980
C2H2+PhCH2	6.95321e-06	0.999987	6.95321e-06	0.999987
PhCCCH3+H	5.02932e-06	0.999992	5.02932e-06	0.999992
Ph+MeAc	4.52059e-06	0.999997	4.52059e-06	0.999997
rad67	1.30786e-06	0.999998	1.30786e-06	0.999998
Benzene+cycloprop-1-enylidene	1.01588e-06	0.999999	1.01588e-06	0.999999
Ph+Allene	5.88618e-07	1.000000	5.88618e-07	1.000000
rad35	5.55458e-07	1.000000	5.55458e-07	1.000000
PhCH2CCH+H	9.17637e-08	1.000000	9.17637e-08	1.000000
PAH7+H	6.23016e-08	1.000000	6.23016e-08	1.000000
rad39	1.75209e-08	1.000000	1.75209e-08	1.000000
rad37	1.74317e-08	1.000000	1.74317e-08	1.000000
rad30	1.07732e-08	1.000000	1.07732e-08	1.000000
PAH9+H	9.70823e-10	1.000000	9.70823e-10	1.000000
rad38	4.76210e-10	1.000000	4.76210e-10	1.000000
PhcycC3H3_A+H	9.76900e-11	1.000000	9.76900e-11	1.000000
PAH10+CH3	8.98996e-11	1.000000	8.98996e-11	1.000000
rad60syn	7.17361e-11	1.000000	7.17361e-11	1.000000
PAH3+H	4.92719e-11	1.000000	4.92719e-11	1.000000
rad60anti	3.63918e-11	1.000000	3.63918e-11	1.000000
rad46	3.17862e-11	1.000000	3.17862e-11	1.000000
rad59	9.35934e-12	1.000000	9.35934e-12	1.000000
rad54	3.26922e-12	1.000000	3.26922e-12	1.000000

rad43	2.89822e-12	1.00000	2.89822e-12	1.00000
Phenyl+cycC3H4	1.79997e-12	1.00000	0.00000	1.00000
PhcycC3H3_B+H	1.72357e-12	1.00000	1.72357e-12	1.00000
rad62	6.47858e-13	1.00000	6.47858e-13	1.00000
rad50	4.63657e-13	1.00000	4.63657e-13	1.00000
rad70	1.13462e-13	1.00000	1.13462e-13	1.00000
PAH1+H	6.48746e-14	1.00000	6.48746e-14	1.00000
rad55	5.01162e-14	1.00000	5.01162e-14	1.00000
rad52	5.33109e-15	1.00000	5.33109e-15	1.00000
rad58	3.93954e-15	1.00000	3.93954e-15	1.00000
rad34	3.67253e-15	1.00000	3.67253e-15	1.00000
rad51	2.62615e-15	1.00000	2.62615e-15	1.00000
rad41	1.01308e-15	1.00000	1.01308e-15	1.00000
rad42	5.82033e-16	1.00000	5.82033e-16	1.00000
rad65	6.97793e-17	1.00000	6.97793e-17	1.00000
rad53	1.97860e-17	1.00000	1.97860e-17	1.00000
rad64	6.46999e-18	1.00000	6.46999e-18	1.00000
rad61	2.22252e-18	1.00000	2.22252e-18	1.00000
rad56	1.96583e-19	1.00000	1.96583e-19	1.00000
rad68syn	2.54704e-20	1.00000	2.54704e-20	1.00000
rad68anti	1.89312e-20	1.00000	1.89312e-20	1.00000
rad40syn	4.46797e-22	1.00000	4.46797e-22	1.00000
rad40anti	3.55555e-22	1.00000	3.55555e-22	1.00000
PAH8+H	9.71820e-23	1.00000	9.71820e-23	1.00000
rad73	1.79367e-23	1.00000	1.79367e-23	1.00000
rad71	2.10958e-25	1.00000	2.10958e-25	1.00000
rad19anti	2.63449e-28	1.00000	2.63449e-28	1.00000
rad6	1.11078e-28	1.00000	1.11078e-28	1.00000
rad2	3.52494e-30	1.00000	3.52494e-30	1.00000
rad1	2.53935e-31	1.00000	2.53935e-31	1.00000
rad10	1.82923e-31	1.00000	1.82923e-31	1.00000
rad26	1.42838e-31	1.00000	1.42838e-31	1.00000
rad47	1.37151e-31	1.00000	1.37151e-31	1.00000
rad28	6.66242e-32	1.00000	6.66242e-32	1.00000
rad3	1.91827e-32	1.00000	1.91827e-32	1.00000
rad4	1.00327e-32	1.00000	1.00327e-32	1.00000
rad7	8.35658e-33	1.00000	8.35658e-33	1.00000
rad11	2.05445e-33	1.00000	2.05445e-33	1.00000
rad31	3.40261e-34	1.00000	3.40261e-34	1.00000
rad9	5.78893e-35	1.00000	5.78893e-35	1.00000
rad13	4.74806e-35	1.00000	4.74806e-35	1.00000
rad14	2.96886e-35	1.00000	2.96886e-35	1.00000
rad25	1.98877e-35	1.00000	1.98877e-35	1.00000
rad27	5.42751e-36	1.00000	5.42751e-36	1.00000
rad19syn	7.46104e-37	1.00000	7.46104e-37	1.00000
rad33	9.28064e-38	1.00000	9.28064e-38	1.00000
rad15	2.60352e-38	1.00000	2.60352e-38	1.00000
rad23	9.72269e-39	1.00000	9.72269e-39	1.00000
rad5	6.59712e-39	1.00000	6.59712e-39	1.00000
rad45	1.32775e-40	1.00000	1.32775e-40	1.00000
rad12	3.35810e-41	1.00000	3.35810e-41	1.00000
rad20	2.53900e-41	1.00000	2.53900e-41	1.00000
rad21	2.43534e-41	1.00000	2.43534e-41	1.00000
rad36	8.46998e-42	1.00000	8.46998e-42	1.00000
rad22	1.35042e-43	1.00000	1.35042e-43	1.00000
rad18	4.46873e-44	1.00000	4.46873e-44	1.00000
rad24	8.49765e-46	1.00000	8.49765e-46	1.00000
rad8	4.68586e-62	1.00000	4.68586e-62	1.00000

0.100000000E-05 Pa, 270.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	3.24655e-14	(1.00)	3.24655e-14	(1.00)
Formation of rad19	3.24415e-14	(0.999)	3.24415e-14	(0.999)
H-abstraction to cyc2enyl	2.38790e-17	(0.000736)	2.38790e-17	(0.000736)
H-abstraction to cyclenyl	5.45397e-20	(1.68e-06)	5.45397e-20	(1.68e-06)
species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.998755	0.998755	0.998755	0.998755
Benzene+cycloprop-2-enylidene	0.000735519	0.999491	0.000735519	0.999491
PhCHCCH2+H	0.000478146	0.999969	0.000478146	0.999969
PhCCH+CH3	8.60880e-06	0.999977	8.60880e-06	0.999977
C2H2+PhCH2	7.43973e-06	0.999985	7.43973e-06	0.999985
PhCCCH3+H	5.34286e-06	0.999990	5.34286e-06	0.999990
Ph+MeAc	4.86938e-06	0.999995	4.86938e-06	0.999995
Benzene+cycloprop-1-enylidene	1.67993e-06	0.999997	1.67993e-06	0.999997
rad67	1.40525e-06	0.999998	1.40525e-06	0.999998
Ph+Allene	6.54187e-07	0.999999	6.54187e-07	0.999999

rad35	5.95116e-07	0.999999	5.95116e-07	0.999999
PhCH2CCH+H	1.03828e-07	1.000000	1.03828e-07	1.000000
PAH7+H	6.80924e-08	1.000000	6.80924e-08	1.000000
rad37	1.91542e-08	1.000000	1.91542e-08	1.000000
rad39	1.91343e-08	1.000000	1.91343e-08	1.000000
rad30	1.15872e-08	1.000000	1.15872e-08	1.000000
PAH9+H	1.07084e-09	1.000000	1.07084e-09	1.000000
rad38	5.32069e-10	1.000000	5.32069e-10	1.000000
PhcycC3H3_A+H	1.30538e-10	1.000000	1.30538e-10	1.000000
PAH10+CH3	1.09134e-10	1.000000	1.09134e-10	1.000000
rad60syn	7.96566e-11	1.000000	7.96566e-11	1.000000
PAH3+H	5.69580e-11	1.000000	5.69580e-11	1.000000
rad60anti	4.05238e-11	1.000000	4.05238e-11	1.000000
rad46	3.57543e-11	1.000000	3.57543e-11	1.000000
rad59	1.07444e-11	1.000000	1.07444e-11	1.000000
rad54	3.96666e-12	1.000000	3.96666e-12	1.000000
rad43	3.41976e-12	1.000000	3.41976e-12	1.000000
PhcycC3H3_B+H	2.69151e-12	1.000000	2.69151e-12	1.000000
Phenyl+cycC3H4	2.60320e-12	1.000000	0.00000	1.000000
rad62	7.63634e-13	1.000000	7.63634e-13	1.000000
rad50	5.53420e-13	1.000000	5.53420e-13	1.000000
rad70	1.44343e-13	1.000000	1.44343e-13	1.000000
PAH1+H	8.70739e-14	1.000000	8.70739e-14	1.000000
rad55	6.36740e-14	1.000000	6.36740e-14	1.000000
rad52	6.63065e-15	1.000000	6.63065e-15	1.000000
rad58	5.12944e-15	1.000000	5.12944e-15	1.000000
rad34	4.95119e-15	1.000000	4.95119e-15	1.000000
rad51	3.41605e-15	1.000000	3.41605e-15	1.000000
rad41	1.38732e-15	1.000000	1.38732e-15	1.000000
rad42	7.76679e-16	1.000000	7.76679e-16	1.000000
rad65	9.20538e-17	1.000000	9.20538e-17	1.000000
rad53	3.15549e-17	1.000000	3.15549e-17	1.000000
rad64	1.07030e-17	1.000000	1.07030e-17	1.000000
rad61	4.14942e-18	1.000000	4.14942e-18	1.000000
rad56	3.86758e-19	1.000000	3.86758e-19	1.000000
rad68syn	5.09279e-20	1.000000	5.09279e-20	1.000000
rad68anti	3.76574e-20	1.000000	3.76574e-20	1.000000
rad40syn	1.04541e-21	1.000000	1.04541e-21	1.000000
rad40anti	8.30243e-22	1.000000	8.30243e-22	1.000000
PAH8+H	2.52772e-22	1.000000	2.52772e-22	1.000000
rad73	4.24308e-23	1.000000	4.24308e-23	1.000000
rad71	5.73648e-25	1.000000	5.73648e-25	1.000000
rad19anti	9.66950e-28	1.000000	9.66950e-28	1.000000
rad6	3.23364e-28	1.000000	3.23364e-28	1.000000
rad2	8.01332e-30	1.000000	8.01332e-30	1.000000
rad1	5.84954e-31	1.000000	5.84954e-31	1.000000
rad10	4.17798e-31	1.000000	4.17798e-31	1.000000
rad26	2.35617e-31	1.000000	2.35617e-31	1.000000
rad47	1.61683e-31	1.000000	1.61683e-31	1.000000
rad28	1.24772e-31	1.000000	1.24772e-31	1.000000
rad3	4.14792e-32	1.000000	4.14792e-32	1.000000
rad7	2.43851e-32	1.000000	2.43851e-32	1.000000
rad4	2.17751e-32	1.000000	2.17751e-32	1.000000
rad11	5.98373e-33	1.000000	5.98373e-33	1.000000
rad31	1.03174e-33	1.000000	1.03174e-33	1.000000
rad13	1.38878e-34	1.000000	1.38878e-34	1.000000
rad9	1.18614e-34	1.000000	1.18614e-34	1.000000
rad14	3.18152e-35	1.000000	3.18152e-35	1.000000
rad25	2.14951e-35	1.000000	2.14951e-35	1.000000
rad27	6.31290e-36	1.000000	6.31290e-36	1.000000
rad19syn	3.27847e-36	1.000000	3.27847e-36	1.000000
rad33	2.68326e-37	1.000000	2.68326e-37	1.000000
rad15	5.34859e-38	1.000000	5.34859e-38	1.000000
rad23	4.89879e-38	1.000000	4.89879e-38	1.000000
rad5	6.34997e-39	1.000000	6.34997e-39	1.000000
rad45	7.36447e-40	1.000000	7.36447e-40	1.000000
rad12	6.62105e-41	1.000000	6.62105e-41	1.000000
rad36	4.72830e-41	1.000000	4.72830e-41	1.000000
rad20	3.50432e-41	1.000000	3.50432e-41	1.000000
rad21	3.38919e-41	1.000000	3.38919e-41	1.000000
rad22	5.87653e-43	1.000000	5.87653e-43	1.000000
rad18	5.67451e-44	1.000000	5.67451e-44	1.000000
rad24	1.43503e-45	1.000000	1.43503e-45	1.000000
rad8	9.13967e-62	1.000000	9.13967e-62	1.000000

0.100000000E-05 Pa, 280.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.52572e-14 (1.00) 3.52572e-14 (1.00

Formation of rad19 | 3.52244e-14 (0.999) 3.52244e-14 (0.999)
H-abstraction to cyc2enyl | 3.26639e-17 (0.000926) 3.26639e-17 (0.000926)
H-abstraction to cyc1enyl | 9.42926e-20 (2.67e-06) 9.42926e-20 (2.67e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998535	0.998535	0.998535	0.998535
Benzene+cycloprop-2-enylidene	0.000926445	0.999462	0.000926445	0.999462
PhCHCCH2+H	0.000504654	0.999966	0.000504654	0.999966
PhCCH+CH3	9.09038e-06	0.999976	9.09038e-06	0.999976
C2H2+PhCH2	7.97755e-06	0.999984	7.97755e-06	0.999984
PhCCCH3+H	5.68676e-06	0.999989	5.68676e-06	0.999989
Ph+MeAc	5.25697e-06	0.999994	5.25697e-06	0.999994
Benzene+cycloprop-1-enylidene	2.67442e-06	0.999997	2.67442e-06	0.999997
rad67	1.51340e-06	0.999999	1.51340e-06	0.999999
Ph+Allene	7.29448e-07	0.999999	7.29448e-07	0.999999
rad35	6.39046e-07	1.00000	6.39046e-07	1.00000
PhCH2CCH+H	1.17909e-07	1.00000	1.17909e-07	1.00000
PAH7+H	7.46290e-08	1.00000	7.46290e-08	1.00000
rad37	2.11094e-08	1.00000	2.11094e-08	1.00000
rad39	2.09522e-08	1.00000	2.09522e-08	1.00000
rad30	1.24940e-08	1.00000	1.24940e-08	1.00000
PAH9+H	1.18522e-09	1.00000	1.18522e-09	1.00000
rad38	5.96837e-10	1.00000	5.96837e-10	1.00000
PhcycC3H3_A+H	1.74264e-10	1.00000	1.74264e-10	1.00000
PAH10+CH3	1.33029e-10	1.00000	1.33029e-10	1.00000
rad60syn	8.87606e-11	1.00000	8.87606e-11	1.00000
PAH3+H	6.61334e-11	1.00000	6.61334e-11	1.00000
rad60anti	4.52857e-11	1.00000	4.52857e-11	1.00000
rad46	4.03795e-11	1.00000	4.03795e-11	1.00000
rad59	1.23862e-11	1.00000	1.23862e-11	1.00000
rad54	4.83284e-12	1.00000	4.83284e-12	1.00000
PhcycC3H3_B+H	4.15199e-12	1.00000	4.15199e-12	1.00000
rad43	4.04946e-12	1.00000	4.04946e-12	1.00000
Phenyl+cycC3H4	3.74742e-12	1.00000	0.00000	1.00000
rad62	9.02853e-13	1.00000	9.02853e-13	1.00000
rad50	6.64061e-13	1.00000	6.64061e-13	1.00000
rad70	1.84259e-13	1.00000	1.84259e-13	1.00000
PAH1+H	1.17039e-13	1.00000	1.17039e-13	1.00000
rad55	8.11651e-14	1.00000	8.11651e-14	1.00000
rad52	8.29198e-15	1.00000	8.29198e-15	1.00000
rad58	6.70136e-15	1.00000	6.70136e-15	1.00000
rad34	6.68467e-15	1.00000	6.68467e-15	1.00000
rad51	4.46577e-15	1.00000	4.46577e-15	1.00000
rad41	1.89783e-15	1.00000	1.89783e-15	1.00000
rad42	1.03572e-15	1.00000	1.03572e-15	1.00000
rad65	1.21961e-16	1.00000	1.21961e-16	1.00000
rad53	4.97919e-17	1.00000	4.97919e-17	1.00000
rad64	1.74396e-17	1.00000	1.74396e-17	1.00000
rad61	7.53772e-18	1.00000	7.53772e-18	1.00000
rad56	7.36384e-19	1.00000	7.36384e-19	1.00000
rad68syn	9.83169e-20	1.00000	9.83169e-20	1.00000
rad68anti	7.23595e-20	1.00000	7.23595e-20	1.00000
rad40syn	2.31284e-21	1.00000	2.31284e-21	1.00000
rad40anti	1.83329e-21	1.00000	1.83329e-21	1.00000
PAH8+H	6.12419e-22	1.00000	6.12419e-22	1.00000
rad73	9.50003e-23	1.00000	9.50003e-23	1.00000
rad71	1.44434e-24	1.00000	1.44434e-24	1.00000
rad19anti	3.59338e-27	1.00000	3.59338e-27	1.00000
rad6	9.99411e-28	1.00000	9.99411e-28	1.00000
rad2	1.89474e-29	1.00000	1.89474e-29	1.00000
rad1	1.40287e-30	1.00000	1.40287e-30	1.00000
rad10	9.85490e-31	1.00000	9.85490e-31	1.00000
rad26	4.23532e-31	1.00000	4.23532e-31	1.00000
rad28	2.64600e-31	1.00000	2.64600e-31	1.00000
rad47	1.94125e-31	1.00000	1.94125e-31	1.00000
rad3	9.19936e-32	1.00000	9.19936e-32	1.00000
rad7	7.55386e-32	1.00000	7.55386e-32	1.00000
rad4	4.84879e-32	1.00000	4.84879e-32	1.00000
rad11	1.84879e-32	1.00000	1.84879e-32	1.00000
rad31	3.20736e-33	1.00000	3.20736e-33	1.00000
rad13	4.31303e-34	1.00000	4.31303e-34	1.00000
rad9	2.96201e-34	1.00000	2.96201e-34	1.00000
rad14	3.47390e-35	1.00000	3.47390e-35	1.00000
rad25	2.34214e-35	1.00000	2.34214e-35	1.00000
rad19syn	1.48909e-35	1.00000	1.48909e-35	1.00000
rad27	7.71529e-36	1.00000	7.71529e-36	1.00000
rad33	8.26972e-37	1.00000	8.26972e-37	1.00000
rad23	2.59846e-37	1.00000	2.59846e-37	1.00000
rad15	1.33928e-37	1.00000	1.33928e-37	1.00000

rad5	6.12409e-39	1.00000	6.12409e-39	1.00000
rad45	4.36056e-39	1.00000	4.36056e-39	1.00000
rad36	2.81952e-40	1.00000	2.81952e-40	1.00000
rad12	1.34805e-40	1.00000	1.34805e-40	1.00000
rad20	5.14611e-41	1.00000	5.14611e-41	1.00000
rad21	4.97358e-41	1.00000	4.97358e-41	1.00000
rad22	2.68190e-42	1.00000	2.68190e-42	1.00000
rad18	8.41125e-44	1.00000	8.41125e-44	1.00000
rad24	2.48910e-45	1.00000	2.48910e-45	1.00000
rad8	1.82566e-61	1.00000	1.82566e-61	1.00000

0.100000000E-05 Pa, 290.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.81171e-14 (1.00)	3.81171e-14 (1.00)
Formation of rad19	3.80733e-14 (0.999)	3.80733e-14 (0.999)
H-abstraction to cyc2enyl	4.36868e-17 (0.00115)	4.36868e-17 (0.00115)
H-abstraction to cyclenyl	1.56861e-19 (4.12e-06)	1.56861e-19 (4.12e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998282	0.998282	0.998282	0.998282
Benzene+cycloprop-2-enylidene	0.00114612	0.999429	0.00114612	0.999429
PhCHCCH2+H	0.000533552	0.999962	0.000533552	0.999962
PhCCH+CH3	9.61277e-06	0.999972	9.61277e-06	0.999972
C2H2+PhCH2	8.57172e-06	0.999980	8.57172e-06	0.999980
PhCCCH3+H	6.06370e-06	0.999986	6.06370e-06	0.999986
Ph+MeAc	5.68749e-06	0.999992	5.68749e-06	0.999992
Benzene+cycloprop-1-enylidene	4.11523e-06	0.999996	4.11523e-06	0.999996
rad67	1.63346e-06	0.999998	1.63346e-06	0.999998
Ph+Allene	8.15840e-07	0.999999	8.15840e-07	0.999999
rad35	6.87689e-07	0.999999	6.87689e-07	0.999999
PhCH2CCH+H	1.34349e-07	0.999999	1.34349e-07	0.999999
PAH7+H	8.20060e-08	0.999999	8.20060e-08	0.999999
rad37	2.33285e-08	1.000000	2.33285e-08	1.000000
rad39	2.30001e-08	1.000000	2.30001e-08	1.000000
rad30	1.35042e-08	1.000000	1.35042e-08	1.000000
PAH9+H	1.31607e-09	1.000000	1.31607e-09	1.000000
rad38	6.71988e-10	1.000000	6.71988e-10	1.000000
PhcycC3H3_A+H	2.32248e-10	1.000000	2.32248e-10	1.000000
PAH10+CH3	1.62717e-10	1.000000	1.62717e-10	1.000000
rad60syn	9.92285e-11	1.000000	9.92285e-11	1.000000
PAH3+H	7.70956e-11	1.000000	7.70956e-11	1.000000
rad60anti	5.07758e-11	1.000000	5.07758e-11	1.000000
rad46	4.57748e-11	1.000000	4.57748e-11	1.000000
rad59	1.43338e-11	1.000000	1.43338e-11	1.000000
PhcycC3H3_B+H	6.32701e-12	1.000000	6.32701e-12	1.000000
rad54	5.90859e-12	1.000000	5.90859e-12	1.000000
Phenyl+cycC3H4	5.36584e-12	1.000000	0.000000	1.000000
rad43	4.80969e-12	1.000000	4.80969e-12	1.000000
rad62	1.07018e-12	1.000000	1.07018e-12	1.000000
rad50	8.00597e-13	1.000000	8.00597e-13	1.000000
rad70	2.35807e-13	1.000000	2.35807e-13	1.000000
PAH1+H	1.57377e-13	1.000000	1.57377e-13	1.000000
rad55	1.03709e-13	1.000000	1.03709e-13	1.000000
rad52	1.04176e-14	1.000000	1.04176e-14	1.000000
rad34	9.02825e-15	1.000000	9.02825e-15	1.000000
rad58	8.77577e-15	1.000000	8.77577e-15	1.000000
rad51	5.86071e-15	1.000000	5.86071e-15	1.000000
rad41	2.59126e-15	1.000000	2.59126e-15	1.000000
rad42	1.37914e-15	1.000000	1.37914e-15	1.000000
rad65	1.62088e-16	1.000000	1.62088e-16	1.000000
rad53	7.76876e-17	1.000000	7.76876e-17	1.000000
rad64	2.79837e-17	1.000000	2.79837e-17	1.000000
rad61	1.33318e-17	1.000000	1.33318e-17	1.000000
rad56	1.35816e-18	1.000000	1.35816e-18	1.000000
rad68syn	1.83484e-19	1.000000	1.83484e-19	1.000000
rad68anti	1.34481e-19	1.000000	1.34481e-19	1.000000
rad40syn	4.85494e-21	1.000000	4.85494e-21	1.000000
rad40anti	3.84148e-21	1.000000	3.84148e-21	1.000000
PAH8+H	1.38965e-21	1.000000	1.38965e-21	1.000000
rad73	2.01863e-22	1.000000	2.01863e-22	1.000000
rad71	3.38824e-24	1.000000	3.38824e-24	1.000000
rad19anti	1.34354e-26	1.000000	1.34354e-26	1.000000
rad6	3.18927e-27	1.000000	3.18927e-27	1.000000
rad2	4.58204e-29	1.000000	4.58204e-29	1.000000
rad1	3.44444e-30	1.000000	3.44444e-30	1.000000
rad10	2.39183e-30	1.000000	2.39183e-30	1.000000
rad26	8.12042e-31	1.000000	8.12042e-31	1.000000

rad28	6.08088e-31	1.000000	6.08088e-31	1.000000
rad7	2.41568e-31	1.000000	2.41568e-31	1.000000
rad47	2.37555e-31	1.000000	2.37555e-31	1.000000
rad3	2.11318e-31	1.000000	2.11318e-31	1.000000
rad4	1.11863e-31	1.000000	1.11863e-31	1.000000
rad11	5.89241e-32	1.000000	5.89241e-32	1.000000
rad31	1.01787e-32	1.000000	1.01787e-32	1.000000
rad13	1.38313e-33	1.000000	1.38313e-33	1.000000
rad9	8.94586e-34	1.000000	8.94586e-34	1.000000
rad19syn	6.95957e-35	1.000000	6.95957e-35	1.000000
rad14	3.90543e-35	1.000000	3.90543e-35	1.000000
rad25	2.57945e-35	1.000000	2.57945e-35	1.000000
rad27	1.01578e-35	1.000000	1.01578e-35	1.000000
rad33	2.63505e-36	1.000000	2.63505e-36	1.000000
rad23	1.44129e-36	1.000000	1.44129e-36	1.000000
rad15	4.05622e-37	1.000000	4.05622e-37	1.000000
rad45	2.70876e-38	1.000000	2.70876e-38	1.000000
rad5	5.91746e-39	1.000000	5.91746e-39	1.000000
rad36	1.76502e-39	1.000000	1.76502e-39	1.000000
rad12	2.84189e-40	1.000000	2.84189e-40	1.000000
rad20	8.45482e-41	1.000000	8.45482e-41	1.000000
rad21	8.02853e-41	1.000000	8.02853e-41	1.000000
rad22	1.27486e-41	1.000000	1.27486e-41	1.000000
rad18	1.60734e-43	1.000000	1.60734e-43	1.000000
rad24	4.46364e-45	1.000000	4.46364e-45	1.000000
rad8	3.73727e-61	1.000000	3.73727e-61	1.000000

0.100000000E-05 Pa, 300.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.34809e-14 (1.00)	5.34809e-14 (1.00)
Formation of rad19	5.34010e-14 (0.999)	5.34010e-14 (0.999)
H-abstraction to cyc2enyl	7.95823e-17 (0.00149)	7.95823e-17 (0.00149)
H-abstraction to cyc1enyl	3.44981e-19 (6.45e-06)	3.44981e-19 (6.45e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997939	0.997939	0.997939	0.997939
Benzene+cycloprop-2-enylidene	0.00148805	0.999427	0.00148805	0.999427
PhCHCCH2+H	0.000529814	0.999957	0.000529814	0.999957
PhCCH+CH3	1.04615e-05	0.999968	1.04615e-05	0.999968
C2H2+PhCH2	9.96265e-06	0.999978	9.96265e-06	0.999978
Benzene+cycloprop-1-enylidene	6.45054e-06	0.999984	6.45054e-06	0.999984
PhCCCH3+H	6.36715e-06	0.999990	6.36715e-06	0.999990
Ph+MeAc	5.99826e-06	0.999996	5.99826e-06	0.999996
rad67	1.76909e-06	0.999998	1.76909e-06	0.999998
Ph+Allene	8.18996e-07	0.999999	8.18996e-07	0.999999
rad35	7.31807e-07	1.000000	7.31807e-07	1.000000
PhCH2CCH+H	1.62469e-07	1.000000	1.62469e-07	1.000000
PAH7+H	1.00667e-07	1.000000	1.00667e-07	1.000000
rad37	2.83206e-08	1.000000	2.83206e-08	1.000000
rad39	2.48351e-08	1.000000	2.48351e-08	1.000000
rad30	1.39398e-08	1.000000	1.39398e-08	1.000000
PAH9+H	1.67898e-09	1.000000	1.67898e-09	1.000000
rad38	7.72652e-10	1.000000	7.72652e-10	1.000000
PhcycC3H3_A+H	3.25290e-10	1.000000	3.25290e-10	1.000000
PAH10+CH3	2.37266e-10	1.000000	2.37266e-10	1.000000
rad60syn	1.06834e-10	1.000000	1.06834e-10	1.000000
PAH3+H	9.84715e-11	1.000000	9.84715e-11	1.000000
rad60anti	5.51572e-11	1.000000	5.51572e-11	1.000000
rad46	5.45644e-11	1.000000	5.45644e-11	1.000000
rad59	1.67258e-11	1.000000	1.67258e-11	1.000000
PhcycC3H3_B+H	1.05896e-11	1.000000	1.05896e-11	1.000000
Phenyl+cycC3H4	8.20984e-12	1.000000	0.000000	1.000000
rad54	7.66783e-12	1.000000	7.66783e-12	1.000000
rad43	5.65558e-12	1.000000	5.65558e-12	1.000000
rad62	1.25276e-12	1.000000	1.25276e-12	1.000000
rad50	1.03316e-12	1.000000	1.03316e-12	1.000000
rad70	3.13392e-13	1.000000	3.13392e-13	1.000000
PAH1+H	1.93779e-13	1.000000	1.93779e-13	1.000000
rad55	1.33843e-13	1.000000	1.33843e-13	1.000000
rad52	1.45721e-14	1.000000	1.45721e-14	1.000000
rad34	1.28521e-14	1.000000	1.28521e-14	1.000000
rad58	1.11204e-14	1.000000	1.11204e-14	1.000000
rad51	8.23952e-15	1.000000	8.23952e-15	1.000000
rad41	3.58185e-15	1.000000	3.58185e-15	1.000000
rad42	1.81926e-15	1.000000	1.81926e-15	1.000000
rad65	2.32648e-16	1.000000	2.32648e-16	1.000000
rad53	1.29481e-16	1.000000	1.29481e-16	1.000000

rad64	4.98973e-17	1.00000	4.98973e-17	1.00000
rad61	2.74862e-17	1.00000	2.74862e-17	1.00000
rad56	3.01521e-18	1.00000	3.01521e-18	1.00000
rad68syn	3.96643e-19	1.00000	3.96643e-19	1.00000
rad68anti	2.85688e-19	1.00000	2.85688e-19	1.00000
rad40syn	1.34588e-20	1.00000	1.34588e-20	1.00000
rad40anti	1.02810e-20	1.00000	1.02810e-20	1.00000
PAH8+H	5.53972e-21	1.00000	5.53972e-21	1.00000
rad73	6.54843e-22	1.00000	6.54843e-22	1.00000
rad19anti	1.46846e-22	1.00000	1.46846e-22	1.00000
rad71	2.13406e-23	1.00000	2.13406e-23	1.00000
rad6	4.38864e-24	1.00000	4.38864e-24	1.00000
rad2	9.87167e-25	1.00000	9.87167e-25	1.00000
rad1	7.43873e-26	1.00000	7.43873e-26	1.00000
rad10	5.78127e-26	1.00000	5.78127e-26	1.00000
rad3	1.41075e-26	1.00000	1.41075e-26	1.00000
rad26	1.25369e-26	1.00000	1.25369e-26	1.00000
rad9	1.00161e-26	1.00000	1.00161e-26	1.00000
rad4	7.01572e-27	1.00000	7.01572e-27	1.00000
rad28	3.44775e-27	1.00000	3.44775e-27	1.00000
rad7	3.89342e-28	1.00000	3.89342e-28	1.00000
rad23	2.43232e-28	1.00000	2.43232e-28	1.00000
rad31	9.66297e-29	1.00000	9.66297e-29	1.00000
rad11	9.28784e-29	1.00000	9.28784e-29	1.00000
rad45	1.36162e-29	1.00000	1.36162e-29	1.00000
rad19syn	1.12386e-29	1.00000	1.12386e-29	1.00000
rad15	5.89512e-30	1.00000	5.89512e-30	1.00000
rad72	4.67174e-30	1.00000	4.67174e-30	1.00000
rad25	3.62032e-30	1.00000	3.62032e-30	1.00000
rad14	2.59213e-30	1.00000	2.59213e-30	1.00000
rad13	2.24572e-30	1.00000	2.24572e-30	1.00000
rad47	1.77284e-30	1.00000	1.77284e-30	1.00000
rad27	1.47512e-30	1.00000	1.47512e-30	1.00000
rad36	4.64085e-31	1.00000	4.64085e-31	1.00000
rad12	9.83376e-32	1.00000	9.83376e-32	1.00000
rad33	1.77386e-32	1.00000	1.77386e-32	1.00000
rad5	9.55128e-33	1.00000	9.55128e-33	1.00000
rad22	1.79691e-33	1.00000	1.79691e-33	1.00000
rad21	1.07699e-33	1.00000	1.07699e-33	1.00000
rad20	6.34107e-34	1.00000	6.34107e-34	1.00000
rad18	1.20426e-35	1.00000	1.20426e-35	1.00000
rad24	4.94065e-37	1.00000	4.94065e-37	1.00000
rad8	3.04177e-47	1.00000	3.04177e-47	1.00000

0.100000000E-05 Pa, 310.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.92544e-14 (1.00)	5.92544e-14 (1.00)
Formation of rad19	5.91462e-14 (0.998)	5.91462e-14 (0.998)
H-abstraction to cyc2enyl	1.07628e-16 (0.00182)	1.07628e-16 (0.00182)
H-abstraction to cyclenyl	5.62537e-19 (9.49e-06)	5.62537e-19 (9.49e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997536	0.997536	0.997536	0.997536
Benzene+cycloprop-2-enylidene	0.00181637	0.999353	0.00181637	0.999353
PhCHCCH2+H	0.000599213	0.999952	0.000599213	0.999952
PhCCH+CH3	1.07899e-05	0.999963	1.07899e-05	0.999963
C2H2+PhCH2	9.94973e-06	0.999973	9.94973e-06	0.999973
Benzene+cycloprop-1-enylidene	9.49359e-06	0.999982	9.49359e-06	0.999982
PhCCCH3+H	6.92725e-06	0.999989	6.92725e-06	0.999989
Ph+MeAc	6.69436e-06	0.999996	6.69436e-06	0.999996
rad67	1.91404e-06	0.999998	1.91404e-06	0.999998
Ph+Allene	1.02854e-06	0.999999	1.02854e-06	0.999999
rad35	8.00939e-07	0.999999	8.00939e-07	0.999999
PhCH2CCH+H	1.75897e-07	1.000000	1.75897e-07	1.000000
PAH7+H	9.96917e-08	1.000000	9.96917e-08	1.000000
rad37	2.86985e-08	1.000000	2.86985e-08	1.000000
rad39	2.78945e-08	1.000000	2.78945e-08	1.000000
rad30	1.58794e-08	1.000000	1.58794e-08	1.000000
PAH9+H	1.63685e-09	1.000000	1.63685e-09	1.000000
rad38	8.60336e-10	1.000000	8.60336e-10	1.000000
PhcycC3H3_A+H	4.09102e-10	1.000000	4.09102e-10	1.000000
PAH10+CH3	2.45221e-10	1.000000	2.45221e-10	1.000000
rad60syn	1.25085e-10	1.000000	1.25085e-10	1.000000
PAH3+H	1.05828e-10	1.000000	1.05828e-10	1.000000
rad60anti	6.43937e-11	1.000000	6.43937e-11	1.000000
rad46	5.94068e-11	1.000000	5.94068e-11	1.000000
rad59	1.93817e-11	1.000000	1.93817e-11	1.000000

PhcycC3H3_B+H	1.41415e-11	1.000000	1.41415e-11	1.000000
Phenyl+cycC3H4	1.07882e-11	1.000000	0.000000	1.000000
rad54	8.89606e-12	1.000000	8.89606e-12	1.000000
rad43	6.83075e-12	1.000000	6.83075e-12	1.000000
rad62	1.51159e-12	1.000000	1.51159e-12	1.000000
rad50	1.17696e-12	1.000000	1.17696e-12	1.000000
rad70	3.87563e-13	1.000000	3.87563e-13	1.000000
PAH1+H	2.83537e-13	1.000000	2.83537e-13	1.000000
rad55	1.69858e-13	1.000000	1.69858e-13	1.000000
rad52	1.66060e-14	1.000000	1.66060e-14	1.000000
rad34	1.64058e-14	1.000000	1.64058e-14	1.000000
rad58	1.50872e-14	1.000000	1.50872e-14	1.000000
rad51	1.01582e-14	1.000000	1.01582e-14	1.000000
rad41	4.78440e-15	1.000000	4.78440e-15	1.000000
rad42	2.42635e-15	1.000000	2.42635e-15	1.000000
rad65	2.87409e-16	1.000000	2.87409e-16	1.000000
rad53	1.82136e-16	1.000000	1.82136e-16	1.000000
rad64	6.86553e-17	1.000000	6.86553e-17	1.000000
rad61	3.85257e-17	1.000000	3.85257e-17	1.000000
rad56	4.20810e-18	1.000000	4.20810e-18	1.000000
rad68syn	5.79184e-19	1.000000	5.79184e-19	1.000000
rad68anti	4.21603e-19	1.000000	4.21603e-19	1.000000
rad40syn	1.84909e-20	1.000000	1.84909e-20	1.000000
rad40anti	1.45861e-20	1.000000	1.45861e-20	1.000000
PAH8+H	5.99119e-21	1.000000	5.99119e-21	1.000000
rad73	7.86975e-22	1.000000	7.86975e-22	1.000000
rad71	1.54165e-23	1.000000	1.54165e-23	1.000000
rad19anti	1.86169e-25	1.000000	1.86169e-25	1.000000
rad6	3.29103e-26	1.000000	3.29103e-26	1.000000
rad2	2.93042e-28	1.000000	2.93042e-28	1.000000
rad1	2.27782e-29	1.000000	2.27782e-29	1.000000
rad10	1.52380e-29	1.000000	1.52380e-29	1.000000
rad28	3.57308e-30	1.000000	3.57308e-30	1.000000
rad26	3.39394e-30	1.000000	3.39394e-30	1.000000
rad7	2.50130e-30	1.000000	2.50130e-30	1.000000
rad3	1.21278e-30	1.000000	1.21278e-30	1.000000
rad4	6.48154e-31	1.000000	6.48154e-31	1.000000
rad11	6.04368e-31	1.000000	6.04368e-31	1.000000
rad47	3.77537e-31	1.000000	3.77537e-31	1.000000
rad31	1.07023e-31	1.000000	1.07023e-31	1.000000
rad13	1.44139e-32	1.000000	1.44139e-32	1.000000
rad9	1.14606e-32	1.000000	1.14606e-32	1.000000
rad19syn	1.62279e-33	1.000000	1.62279e-33	1.000000
rad14	5.79682e-35	1.000000	5.79682e-35	1.000000
rad23	4.92829e-35	1.000000	4.92829e-35	1.000000
rad25	3.31443e-35	1.000000	3.31443e-35	1.000000
rad33	2.70709e-35	1.000000	2.70709e-35	1.000000
rad27	2.42627e-35	1.000000	2.42627e-35	1.000000
rad15	5.22624e-36	1.000000	5.22624e-36	1.000000
rad45	1.17861e-36	1.000000	1.17861e-36	1.000000
rad36	7.81431e-38	1.000000	7.81431e-38	1.000000
rad5	5.55489e-39	1.000000	5.55489e-39	1.000000
rad12	1.42818e-39	1.000000	1.42818e-39	1.000000
rad20	3.89135e-40	1.000000	3.89135e-40	1.000000
rad21	3.40281e-40	1.000000	3.40281e-40	1.000000
rad22	3.16635e-40	1.000000	3.16635e-40	1.000000
rad18	1.17022e-42	1.000000	1.17022e-42	1.000000
rad24	1.71408e-44	1.000000	1.71408e-44	1.000000
rad8	1.69031e-60	1.000000	1.69031e-60	1.000000

0.100000000E-05 Pa, 400.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.29463e-13 (1.00)	1.29463e-13 (1.00)
Formation of rad19	1.28526e-13 (0.993)	1.28526e-13 (0.993)
H-abstraction to cyc2enyl	9.19357e-16 (0.00710)	9.19357e-16 (0.00710)
H-abstraction to cyclenyl	1.69485e-17 (0.000131)	1.69485e-17 (0.000131)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.991683	0.991683	0.991683	0.991683
Benzene+cycloprop-2-enylidene	0.00710133	0.998784	0.00710133	0.998784
PhCHCCH2+H	0.00100586	0.999790	0.00100586	0.999790
Benzene+cycloprop-1-enylidene	0.000130914	0.999921	0.000130914	0.999921
C2H2+PhCH2	2.22468e-05	0.999943	2.22468e-05	0.999943
PhCCH+CH3	1.95098e-05	0.999963	1.95098e-05	0.999963
Ph+MeAc	1.45179e-05	0.999977	1.45179e-05	0.999977
PhCCCH3+H	1.31952e-05	0.999990	1.31952e-05	0.999990
rad67	4.22167e-06	0.999994	4.22167e-06	0.999994

Ph+Allene	2.97391e-06	0.999997	2.97391e-06	0.999997
rad35	1.68909e-06	0.999999	1.68909e-06	0.999999
PhCH2CCH+H	6.93048e-07	1.000000	6.93048e-07	1.000000
PAH7+H	2.89758e-07	1.000000	2.89758e-07	1.000000
rad37	8.82205e-08	1.000000	8.82205e-08	1.000000
rad39	7.05188e-08	1.000000	7.05188e-08	1.000000
rad30	3.41246e-08	1.000000	3.41246e-08	1.000000
PAH9+H	5.67069e-09	1.000000	5.67069e-09	1.000000
PhcycC3H3_A+H	4.88900e-09	1.000000	4.88900e-09	1.000000
rad38	3.07435e-09	1.000000	3.07435e-09	1.000000
PAH10+CH3	1.94150e-09	1.000000	1.94150e-09	1.000000
PAH3+H	5.34449e-10	1.000000	5.34449e-10	1.000000
PhcycC3H3_B+H	4.15151e-10	1.000000	4.15151e-10	1.000000
rad60syn	3.79130e-10	1.000000	3.79130e-10	1.000000
rad46	2.31290e-10	1.000000	2.31290e-10	1.000000
Phenyl+cycC3H4	2.22328e-10	1.000000	0.000000	1.000000
rad60anti	2.01850e-10	1.000000	2.01850e-10	1.000000
rad59	8.49299e-11	1.000000	8.49299e-11	1.000000
rad54	6.39706e-11	1.000000	6.39706e-11	1.000000
rad43	3.46932e-11	1.000000	3.46932e-11	1.000000
rad50	8.28672e-12	1.000000	8.28672e-12	1.000000
rad62	7.28467e-12	1.000000	7.28467e-12	1.000000
rad70	3.85328e-12	1.000000	3.85328e-12	1.000000
PAH1+H	3.61003e-12	1.000000	3.61003e-12	1.000000
rad55	1.60055e-12	1.000000	1.60055e-12	1.000000
rad34	2.43952e-13	1.000000	2.43952e-13	1.000000
rad52	1.72576e-13	1.000000	1.72576e-13	1.000000
rad58	1.69180e-13	1.000000	1.69180e-13	1.000000
rad51	1.42864e-13	1.000000	1.42864e-13	1.000000
rad41	6.83260e-14	1.000000	6.83260e-14	1.000000
rad42	2.71734e-14	1.000000	2.71734e-14	1.000000
rad53	6.88019e-15	1.000000	6.88019e-15	1.000000
rad65	4.39173e-15	1.000000	4.39173e-15	1.000000
rad61	3.43038e-15	1.000000	3.43038e-15	1.000000
rad64	3.05834e-15	1.000000	3.05834e-15	1.000000
rad56	5.30924e-16	1.000000	5.30924e-16	1.000000
rad68syn	7.48244e-17	1.000000	7.48244e-17	1.000000
rad68anti	5.24834e-17	1.000000	5.24834e-17	1.000000
rad40syn	6.39129e-18	1.000000	6.39129e-18	1.000000
PAH8+H	5.94551e-18	1.000000	5.94551e-18	1.000000
rad40anti	4.74371e-18	1.000000	4.74371e-18	1.000000
rad73	4.85676e-19	1.000000	4.85676e-19	1.000000
rad19anti	4.76696e-19	1.000000	4.76696e-19	1.000000
rad71	4.97335e-20	1.000000	4.97335e-20	1.000000
rad6	4.94158e-21	1.000000	4.94158e-21	1.000000
rad2	1.58860e-21	1.000000	1.58860e-21	1.000000
rad23	1.57037e-22	1.000000	1.57037e-22	1.000000
rad1	1.47850e-22	1.000000	1.47850e-22	1.000000
rad10	8.98738e-23	1.000000	8.98738e-23	1.000000
rad3	2.50446e-23	1.000000	2.50446e-23	1.000000
rad45	2.33625e-23	1.000000	2.33625e-23	1.000000
rad4	1.31933e-23	1.000000	1.31933e-23	1.000000
rad9	3.90987e-24	1.000000	3.90987e-24	1.000000
rad19syn	2.04434e-24	1.000000	2.04434e-24	1.000000
rad36	9.01203e-25	1.000000	9.01203e-25	1.000000
rad72	7.32149e-25	1.000000	7.32149e-25	1.000000
rad26	6.62665e-25	1.000000	6.62665e-25	1.000000
rad31	5.03677e-25	1.000000	5.03677e-25	1.000000
rad7	4.48545e-25	1.000000	4.48545e-25	1.000000
rad28	2.35475e-25	1.000000	2.35475e-25	1.000000
rad11	1.02293e-25	1.000000	1.02293e-25	1.000000
rad13	2.74489e-27	1.000000	2.74489e-27	1.000000
rad15	2.42706e-27	1.000000	2.42706e-27	1.000000
rad22	2.55739e-28	1.000000	2.55739e-28	1.000000
rad12	1.89647e-28	1.000000	1.89647e-28	1.000000
rad47	7.65193e-29	1.000000	7.65193e-29	1.000000
rad25	1.14053e-29	1.000000	1.14053e-29	1.000000
rad27	1.02426e-29	1.000000	1.02426e-29	1.000000
rad14	8.44283e-30	1.000000	8.44283e-30	1.000000
rad33	6.25028e-30	1.000000	6.25028e-30	1.000000
rad21	4.49356e-32	1.000000	4.49356e-32	1.000000
rad20	2.03662e-32	1.000000	2.03662e-32	1.000000
rad5	8.96672e-33	1.000000	8.96672e-33	1.000000
rad24	5.81560e-34	1.000000	5.81560e-34	1.000000
rad18	1.23857e-34	1.000000	1.23857e-34	1.000000
rad8	6.65008e-44	1.000000	6.65008e-44	1.000000

0.100000000E-05 Pa, 500.000000 K

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Rate constant | True (fraction) Effective (fraction)

Total	2.52837e-13 (1.00)	2.52837e-13 (1.00)
Formation of rad19	2.47941e-13 (0.981)	2.47941e-13 (0.981)
H-abstraction to cyc2enyl	4.69058e-15 (0.0186)	4.69058e-15 (0.0186)
H-abstraction to cyclenyl	2.05381e-16 (0.000812)	2.05381e-16 (0.000812)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.978428	0.978428	0.978428	0.978428
Benzene+cycloprop-2-enylidene	0.0185518	0.996979	0.0185518	0.996979
PhCHCCH2+H	0.00202477	0.999004	0.00202477	0.999004
Benzene+cycloprop-1-enylidene	0.000812306	0.999816	0.000812306	0.999816
C2H2+PhCH2	5.13363e-05	0.999868	5.13363e-05	0.999868
PhCCH+CH3	3.71182e-05	0.999905	3.71182e-05	0.999905
Ph+MeAc	3.63101e-05	0.999941	3.63101e-05	0.999941
PhCCCH3+H	2.84449e-05	0.999970	2.84449e-05	0.999970
Ph+Allene	1.09470e-05	0.999981	1.09470e-05	0.999981
rad67	1.05822e-05	0.999991	1.05822e-05	0.999991
rad35	4.10935e-06	0.999995	4.10935e-06	0.999995
PhCH2CCH+H	2.95392e-06	0.999998	2.95392e-06	0.999998
PAH7+H	8.51564e-07	0.999999	8.51564e-07	0.999999
rad37	2.86678e-07	0.999999	2.86678e-07	0.999999
rad39	2.02118e-07	1.000000	2.02118e-07	1.000000
rad30	8.94923e-08	1.000000	8.94923e-08	1.000000
PhcycC3H3_A+H	5.02850e-08	1.000000	5.02850e-08	1.000000
PAH9+H	2.06879e-08	1.000000	2.06879e-08	1.000000
PAH10+CH3	1.44052e-08	1.000000	1.44052e-08	1.000000
rad38	1.31834e-08	1.000000	1.31834e-08	1.000000
PhcycC3H3_B+H	7.81107e-09	1.000000	7.81107e-09	1.000000
Phenyl+cycC3H4	3.55660e-09	1.000000	0.000000	1.000000
PAH3+H	2.97649e-09	1.000000	2.97649e-09	1.000000
rad60syn	1.43183e-09	1.000000	1.43183e-09	1.000000
rad46	1.04913e-09	1.000000	1.04913e-09	1.000000
rad60anti	7.84373e-10	1.000000	7.84373e-10	1.000000
rad54	4.68691e-10	1.000000	4.68691e-10	1.000000
rad59	4.42102e-10	1.000000	4.42102e-10	1.000000
rad43	1.96278e-10	1.000000	1.96278e-10	1.000000
rad50	6.65687e-11	1.000000	6.65687e-11	1.000000
PAH1+H	4.68911e-11	1.000000	4.68911e-11	1.000000
rad62	3.77646e-11	1.000000	3.77646e-11	1.000000
rad70	3.76454e-11	1.000000	3.76454e-11	1.000000
rad55	1.50995e-11	1.000000	1.50995e-11	1.000000
rad34	3.22092e-12	1.000000	3.22092e-12	1.000000
rad51	2.08196e-12	1.000000	2.08196e-12	1.000000
rad58	2.05092e-12	1.000000	2.05092e-12	1.000000
rad52	1.88540e-12	1.000000	1.88540e-12	1.000000
rad41	8.63972e-13	1.000000	8.63972e-13	1.000000
rad42	2.74850e-13	1.000000	2.74850e-13	1.000000
rad53	1.70507e-13	1.000000	1.70507e-13	1.000000
rad61	1.40668e-13	1.000000	1.40668e-13	1.000000
rad64	7.73135e-14	1.000000	7.73135e-14	1.000000
rad65	6.64224e-14	1.000000	6.64224e-14	1.000000
rad56	2.62115e-14	1.000000	2.62115e-14	1.000000
rad68syn	3.88259e-15	1.000000	3.88259e-15	1.000000
rad68anti	2.67414e-15	1.000000	2.67414e-15	1.000000
PAH8+H	8.47559e-16	1.000000	8.47559e-16	1.000000
rad40syn	5.55783e-16	1.000000	5.55783e-16	1.000000
rad40anti	4.06573e-16	1.000000	4.06573e-16	1.000000
rad73	6.83536e-17	1.000000	6.83536e-17	1.000000
rad19anti	6.68017e-17	1.000000	6.68017e-17	1.000000
rad71	1.35737e-17	1.000000	1.35737e-17	1.000000
rad6	9.27924e-19	1.000000	9.27924e-19	1.000000
rad23	8.50942e-19	1.000000	8.50942e-19	1.000000
rad2	7.68217e-19	1.000000	7.68217e-19	1.000000
rad45	2.18380e-19	1.000000	2.18380e-19	1.000000
rad1	9.25577e-20	1.000000	9.25577e-20	1.000000
rad10	3.35554e-20	1.000000	3.35554e-20	1.000000
rad19syn	1.45990e-20	1.000000	1.45990e-20	1.000000
rad3	1.43600e-20	1.000000	1.43600e-20	1.000000
rad36	1.20122e-20	1.000000	1.20122e-20	1.000000
rad4	8.22617e-21	1.000000	8.22617e-21	1.000000
rad9	3.96448e-21	1.000000	3.96448e-21	1.000000
rad72	1.99205e-21	1.000000	1.99205e-21	1.000000
rad31	1.77645e-22	1.000000	1.77645e-22	1.000000
rad7	9.08158e-23	1.000000	9.08158e-23	1.000000
rad26	6.26484e-23	1.000000	6.26484e-23	1.000000
rad28	2.38847e-23	1.000000	2.38847e-23	1.000000
rad11	2.19998e-23	1.000000	2.19998e-23	1.000000
rad15	2.61615e-24	1.000000	2.61615e-24	1.000000
rad12	1.85163e-24	1.000000	1.85163e-24	1.000000

rad13	6.11832e-25	1.000000	6.11832e-25	1.000000
rad22	4.89088e-25	1.000000	4.89088e-25	1.000000
rad47	5.02583e-27	1.000000	5.02583e-27	1.000000
rad33	1.57477e-27	1.000000	1.57477e-27	1.000000
rad27	6.13289e-28	1.000000	6.13289e-28	1.000000
rad14	1.80845e-28	1.000000	1.80845e-28	1.000000
rad25	8.39084e-29	1.000000	8.39084e-29	1.000000
rad21	9.00696e-30	1.000000	9.00696e-30	1.000000
rad20	3.81555e-30	1.000000	3.81555e-30	1.000000
rad24	1.78237e-30	1.000000	1.78237e-30	1.000000
rad18	3.83035e-32	1.000000	3.83035e-32	1.000000
rad5	1.06960e-32	1.000000	1.06960e-32	1.000000
rad8	1.56286e-39	1.000000	1.56286e-39	1.000000

0.100000000E-05 Pa, 600.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	4.35570e-13	(1.00)	4.35570e-13	(1.00)
Formation of rad19	4.18892e-13	(0.962)	4.18892e-13	(0.962)
H-abstraction to cyc2enyl	1.54751e-14	(0.0355)	1.54751e-14	(0.0355)
H-abstraction to cyclenyl	1.20343e-15	(0.00276)	1.20343e-15	(0.00276)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.957276	0.957276	0.957276	0.957276
Benzene+cycloprop-2-enylidene	0.0355285	0.992805	0.0355285	0.992805
PhCHCCH2+H	0.00402172	0.996826	0.00402172	0.996826
Benzene+cycloprop-1-enylidene	0.00276289	0.999589	0.00276289	0.999589
C2H2+PhCH2	0.000111945	0.999701	0.000111945	0.999701
Ph+MeAc	8.57420e-05	0.999787	8.57420e-05	0.999787
PhCCH+CH3	6.75064e-05	0.999854	6.75064e-05	0.999854
PhCCCH3+H	5.90383e-05	0.999913	5.90383e-05	0.999913
Ph+Allene	3.56628e-05	0.999949	3.56628e-05	0.999949
rad67	2.54029e-05	0.999975	2.54029e-05	0.999975
PhCH2CCH+H	1.09199e-05	0.999985	1.09199e-05	0.999985
rad35	9.63305e-06	0.999995	9.63305e-06	0.999995
PAH7+H	2.26706e-06	0.999997	2.26706e-06	0.999997
rad37	8.64904e-07	0.999998	8.64904e-07	0.999998
rad39	5.20249e-07	0.999999	5.20249e-07	0.999999
PhcycC3H3_A+H	3.56529e-07	0.999999	3.56529e-07	0.999999
rad30	2.27441e-07	0.999999	2.27441e-07	0.999999
PAH10+CH3	8.50920e-08	0.999999	8.50920e-08	0.999999
PhcycC3H3_B+H	8.43895e-08	0.999999	8.43895e-08	0.999999
PAH9+H	7.13070e-08	1.000000	7.13070e-08	1.000000
rad38	5.21311e-08	1.000000	5.21311e-08	1.000000
Phenyl+cycC3H4	3.58023e-08	1.000000	0.000000	1.000000
PAH3+H	1.45691e-08	1.000000	1.45691e-08	1.000000
rad60syn	5.03972e-09	1.000000	5.03972e-09	1.000000
rad46	4.37621e-09	1.000000	4.37621e-09	1.000000
rad60anti	2.82886e-09	1.000000	2.82886e-09	1.000000
rad54	2.63022e-09	1.000000	2.63022e-09	1.000000
rad59	2.03126e-09	1.000000	2.03126e-09	1.000000
rad43	9.14301e-10	1.000000	9.14301e-10	1.000000
rad50	4.49074e-10	1.000000	4.49074e-10	1.000000
PAH1+H	4.05905e-10	1.000000	4.05905e-10	1.000000
rad70	2.63826e-10	1.000000	2.63826e-10	1.000000
rad62	1.58022e-10	1.000000	1.58022e-10	1.000000
rad55	1.01573e-10	1.000000	1.01573e-10	1.000000
rad34	2.81348e-11	1.000000	2.81348e-11	1.000000
rad51	2.21630e-11	1.000000	2.21630e-11	1.000000
rad58	1.79744e-11	1.000000	1.79744e-11	1.000000
rad52	1.61050e-11	1.000000	1.61050e-11	1.000000
rad41	7.27827e-12	1.000000	7.27827e-12	1.000000
rad61	2.69080e-12	1.000000	2.69080e-12	1.000000
rad53	2.26526e-12	1.000000	2.26526e-12	1.000000
rad42	1.88131e-12	1.000000	1.88131e-12	1.000000
rad64	9.96176e-13	1.000000	9.96176e-13	1.000000
rad65	7.15322e-13	1.000000	7.15322e-13	1.000000
rad56	5.47638e-13	1.000000	5.47638e-13	1.000000
rad68syn	8.54715e-14	1.000000	8.54715e-14	1.000000
rad68anti	5.81389e-14	1.000000	5.81389e-14	1.000000
PAH8+H	3.69240e-14	1.000000	3.69240e-14	1.000000
rad40syn	1.73285e-14	1.000000	1.73285e-14	1.000000
rad40anti	1.26417e-14	1.000000	1.26417e-14	1.000000
rad73	3.37835e-15	1.000000	3.37835e-15	1.000000
rad71	1.04446e-15	1.000000	1.04446e-15	1.000000
rad19anti	4.93441e-16	1.000000	4.93441e-16	1.000000
rad23	4.70536e-17	1.000000	4.70536e-17	1.000000
rad2	3.54627e-17	1.000000	3.54627e-17	1.000000

rad6	1.93151e-17	1.000000	1.93151e-17	1.000000
rad45	1.26942e-17	1.000000	1.26942e-17	1.000000
rad1	5.95388e-18	1.000000	5.95388e-18	1.000000
rad9	5.76903e-18	1.000000	5.76903e-18	1.000000
rad19syn	1.52297e-18	1.000000	1.52297e-18	1.000000
rad36	1.40143e-18	1.000000	1.40143e-18	1.000000
rad10	9.54269e-19	1.000000	9.54269e-19	1.000000
rad72	6.43937e-19	1.000000	6.43937e-19	1.000000
rad3	6.06072e-19	1.000000	6.06072e-19	1.000000
rad4	4.18381e-19	1.000000	4.18381e-19	1.000000
rad12	1.38519e-20	1.000000	1.38519e-20	1.000000
rad15	3.63220e-21	1.000000	3.63220e-21	1.000000
rad31	3.24820e-21	1.000000	3.24820e-21	1.000000
rad7	2.13084e-21	1.000000	2.13084e-21	1.000000
rad26	9.68335e-22	1.000000	9.68335e-22	1.000000
rad11	5.60166e-22	1.000000	5.60166e-22	1.000000
rad28	4.03175e-22	1.000000	4.03175e-22	1.000000
rad22	2.09375e-23	1.000000	2.09375e-23	1.000000
rad13	1.70434e-23	1.000000	1.70434e-23	1.000000
rad47	1.30363e-25	1.000000	1.30363e-25	1.000000
rad33	5.34747e-26	1.000000	5.34747e-26	1.000000
rad27	1.13860e-26	1.000000	1.13860e-26	1.000000
rad24	9.88540e-27	1.000000	9.88540e-27	1.000000
rad21	3.89951e-27	1.000000	3.89951e-27	1.000000
rad14	2.43292e-27	1.000000	2.43292e-27	1.000000
rad25	1.34554e-27	1.000000	1.34554e-27	1.000000
rad20	9.10800e-28	1.000000	9.10800e-28	1.000000
rad18	3.55979e-30	1.000000	3.55979e-30	1.000000
rad5	1.77322e-32	1.000000	1.77322e-32	1.000000
rad8	2.39366e-34	1.000000	2.39366e-34	1.000000

0.100000000E-05 Pa, 700.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.91694e-13 (1.00)	6.91694e-13 (1.00)
Formation of rad19	6.47922e-13 (0.937)	6.47922e-13 (0.937)
H-abstraction to cyc2enyl	3.91858e-14 (0.0567)	3.91858e-14 (0.0567)
H-abstraction to cyc1enyl	4.58543e-15 (0.00663)	4.58542e-15 (0.00663)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.928261	0.928261	0.928261	0.928261
Benzene+cycloprop-2-enylidene	0.0566520	0.984913	0.0566520	0.984913
PhCHCCH2+H	0.00759850	0.992512	0.00759851	0.992512
Benzene+cycloprop-1-enylidene	0.00662927	0.999141	0.00662927	0.999141
C2H2+PhCH2	0.000223367	0.999364	0.000223367	0.999364
Ph+MeAc	0.000184762	0.999549	0.000184762	0.999549
PhCCH+CH3	0.000114475	0.999663	0.000114475	0.999663
PhCCCH3+H	0.000114174	0.999778	0.000114174	0.999778
Ph+Allene	9.86533e-05	0.999876	9.86533e-05	0.999876
rad67	5.61617e-05	0.999932	5.61618e-05	0.999932
PhCH2CCH+H	3.37385e-05	0.999966	3.37385e-05	0.999966
rad35	2.09201e-05	0.999987	2.09202e-05	0.999987
PAH7+H	5.25052e-06	0.999992	5.25052e-06	0.999992
rad37	2.31770e-06	0.999995	2.31770e-06	0.999995
PhcycC3H3_A+H	1.84668e-06	0.999997	1.84668e-06	0.999997
rad39	1.15814e-06	0.999998	1.15814e-06	0.999998
PhcycC3H3_B+H	5.97889e-07	0.999998	5.97889e-07	0.999998
rad30	5.35177e-07	0.999999	5.35177e-07	0.999999
PAH10+CH3	3.93624e-07	0.999999	3.93624e-07	0.999999
Phenyl+cycC3H4	2.47273e-07	0.999999	0.00000	0.999999
PAH9+H	2.20558e-07	1.000000	2.20558e-07	0.999999
rad38	1.79348e-07	1.000000	1.79348e-07	1.000000
PAH3+H	5.98815e-08	1.000000	5.98815e-08	1.000000
rad46	1.59383e-08	1.000000	1.59383e-08	1.000000
rad60syn	1.57198e-08	1.000000	1.57198e-08	1.000000
rad54	1.11959e-08	1.000000	1.11959e-08	1.000000
rad60anti	9.00502e-09	1.000000	9.00502e-09	1.000000
rad59	7.88061e-09	1.000000	7.88061e-09	1.000000
rad43	3.45953e-09	1.000000	3.45953e-09	1.000000
PAH1+H	2.45995e-09	1.000000	2.45995e-09	1.000000
rad50	2.44563e-09	1.000000	2.44563e-09	1.000000
rad70	1.34938e-09	1.000000	1.34938e-09	1.000000
rad62	5.31170e-10	1.000000	5.31170e-10	1.000000
rad55	4.95201e-10	1.000000	4.95201e-10	1.000000
rad51	1.72653e-10	1.000000	1.72653e-10	1.000000
rad34	1.70511e-10	1.000000	1.70511e-10	1.000000
rad58	1.15481e-10	1.000000	1.15481e-10	1.000000
rad52	1.05442e-10	1.000000	1.05442e-10	1.000000

rad41	4.33848e-11	1.000000	4.33848e-11	1.000000
rad61	2.93831e-11	1.000000	2.93831e-11	1.000000
rad53	1.83949e-11	1.000000	1.83949e-11	1.000000
rad42	9.22818e-12	1.000000	9.22818e-12	1.000000
rad64	7.68987e-12	1.000000	7.68987e-12	1.000000
rad56	6.14022e-12	1.000000	6.14022e-12	1.000000
rad65	5.56200e-12	1.000000	5.56200e-12	1.000000
rad68syn	1.01762e-12	1.000000	1.01762e-12	1.000000
PAH8+H	7.27467e-13	1.000000	7.27467e-13	1.000000
rad68anti	6.85898e-13	1.000000	6.85898e-13	1.000000
rad40syn	2.67923e-13	1.000000	2.67923e-13	1.000000
rad40anti	1.96404e-13	1.000000	1.96404e-13	1.000000
rad73	8.03977e-14	1.000000	8.03977e-14	1.000000
rad71	3.42950e-14	1.000000	3.42950e-14	1.000000
rad9	3.57413e-15	1.000000	3.57413e-15	1.000000
rad19anti	6.95729e-16	1.000000	6.95729e-16	1.000000
rad23	2.27030e-16	1.000000	2.27030e-16	1.000000
rad2	1.63884e-16	1.000000	1.63884e-16	1.000000
rad6	6.33246e-17	1.000000	6.33246e-17	1.000000
rad45	6.10742e-17	1.000000	6.10742e-17	1.000000
rad72	5.61740e-17	1.000000	5.61740e-17	1.000000
rad1	4.23023e-17	1.000000	4.23023e-17	1.000000
rad12	1.17946e-17	1.000000	1.17946e-17	1.000000
rad19syn	8.87889e-18	1.000000	8.87889e-18	1.000000
rad36	8.76033e-18	1.000000	8.76033e-18	1.000000
rad10	3.69261e-18	1.000000	3.69261e-18	1.000000
rad3	2.51328e-18	1.000000	2.51328e-18	1.000000
rad4	2.03784e-18	1.000000	2.03784e-18	1.000000
rad15	1.50667e-18	1.000000	1.50667e-18	1.000000
rad31	9.71078e-21	1.000000	9.71078e-21	1.000000
rad7	8.08106e-21	1.000000	8.08107e-21	1.000000
rad26	3.20264e-21	1.000000	3.20264e-21	1.000000
rad11	2.28631e-21	1.000000	2.28631e-21	1.000000
rad28	1.38277e-21	1.000000	1.38277e-21	1.000000
rad22	1.06809e-22	1.000000	1.06809e-22	1.000000
rad13	8.58006e-23	1.000000	8.58006e-23	1.000000
rad24	2.00378e-23	1.000000	2.00378e-23	1.000000
rad21	3.05575e-24	1.000000	3.05575e-24	1.000000
rad47	1.29142e-24	1.000000	1.29142e-24	1.000000
rad33	1.18223e-24	1.000000	1.18223e-24	1.000000
rad20	4.82371e-25	1.000000	4.82371e-25	1.000000
rad27	8.61470e-26	1.000000	8.61470e-26	1.000000
rad25	4.94558e-26	1.000000	4.94558e-26	1.000000
rad14	1.57907e-26	1.000000	1.57907e-26	1.000000
rad18	6.39322e-29	1.000000	6.39322e-29	1.000000
rad8	5.34063e-29	1.000000	5.34063e-29	1.000000
rad5	4.56536e-32	1.000000	4.56536e-32	1.000000

0.100000000E-05 Pa, 800.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.03759e-12 (1.00)	1.03758e-12 (1.00)
Formation of rad19	9.41065e-13 (0.907)	9.41063e-13 (0.907)
H-abstraction to cyc2enyl	8.32953e-14 (0.0803)	8.32953e-14 (0.0803)
H-abstraction to cyclenyl	1.32261e-14 (0.0127)	1.32261e-14 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.891851	0.891851	0.891852	0.891852
Benzene+cycloprop-2-enylidene	0.0802780	0.972129	0.0802781	0.972130
PhCHCCH2+H	0.0134622	0.985591	0.0134623	0.985592
Benzene+cycloprop-1-enylidene	0.0127470	0.998338	0.0127470	0.998339
C2H2+PhCH2	0.000407098	0.998746	0.000407098	0.998747
Ph+MeAc	0.000361138	0.999107	0.000361137	0.999108
Ph+Allene	0.000232338	0.999339	0.000232338	0.999340
PhCCCH3+H	0.000203971	0.999543	0.000203971	0.999544
PhCCH+CH3	0.000180552	0.999724	0.000180553	0.999725
rad67	0.000113174	0.999837	0.000113174	0.999838
PhCH2CCH+H	8.77930e-05	0.999924	8.77932e-05	0.999925
rad35	4.16128e-05	0.999966	4.16129e-05	0.999967
PAH7+H	1.05800e-05	0.999977	1.05800e-05	0.999978
PhcycC3H3_A+H	7.41209e-06	0.999984	7.41210e-06	0.999985
rad37	5.46662e-06	0.999990	5.46663e-06	0.999991
PhcycC3H3_B+H	3.06124e-06	0.999993	3.06124e-06	0.999994
rad39	2.23427e-06	0.999995	2.23428e-06	0.999996
PAH10+CH3	1.45372e-06	0.999996	1.45373e-06	0.999997
Phenyl+cycC3H4	1.26413e-06	0.999998	0.00000	0.999997
rad30	1.14933e-06	0.999999	1.14933e-06	0.999998
PAH9+H	6.06281e-07	0.999999	6.06282e-07	0.999999

rad38	5.31254e-07	1.000000	5.31255e-07	1.000000
PAH3+H	2.06534e-07	1.00000	2.06535e-07	1.000000
rad46	5.03837e-08	1.00000	5.03838e-08	1.000000
rad60syn	4.30113e-08	1.00000	4.30113e-08	1.000000
rad54	3.72615e-08	1.00000	3.72615e-08	1.000000
rad59	2.58004e-08	1.00000	2.58004e-08	1.000000
rad60anti	2.50612e-08	1.00000	2.50612e-08	1.000000
PAH1+H	1.11102e-08	1.00000	1.11102e-08	1.000000
rad50	1.08530e-08	1.00000	1.08530e-08	1.00000
rad43	1.08255e-08	1.00000	1.08255e-08	1.00000
rad70	5.27763e-09	1.00000	5.27763e-09	1.00000
rad55	1.83174e-09	1.00000	1.83175e-09	1.00000
rad62	1.46956e-09	1.00000	1.46956e-09	1.00000
rad51	1.02140e-09	1.00000	1.02140e-09	1.00000
rad34	7.64053e-10	1.00000	7.64054e-10	1.00000
rad58	5.66064e-10	1.00000	5.66065e-10	1.00000
rad52	5.41768e-10	1.00000	5.41769e-10	1.00000
rad61	2.09071e-10	1.00000	2.09072e-10	1.00000
rad41	1.94594e-10	1.00000	1.94595e-10	1.00000
rad53	1.01501e-10	1.00000	1.01501e-10	1.00000
rad56	4.31932e-11	1.00000	4.31933e-11	1.00000
rad64	4.01362e-11	1.00000	4.01363e-11	1.00000
rad42	3.44813e-11	1.00000	3.44814e-11	1.00000
rad65	3.26029e-11	1.00000	3.26029e-11	1.00000
PAH8+H	8.11495e-12	1.00000	8.11497e-12	1.00000
rad68syn	7.66845e-12	1.00000	7.66845e-12	1.00000
rad68anti	5.13228e-12	1.00000	5.13229e-12	1.00000
rad40syn	2.48636e-12	1.00000	2.48636e-12	1.00000
rad40anti	1.83893e-12	1.00000	1.83893e-12	1.00000
rad73	1.11381e-12	1.00000	1.11381e-12	1.00000
rad71	6.08038e-13	1.00000	6.08039e-13	1.00000
rad9	2.91856e-13	1.00000	2.91857e-13	1.00000
rad72	2.02035e-15	1.00000	2.02035e-15	1.00000
rad12	6.62385e-16	1.00000	6.62386e-16	1.00000
rad19anti	6.02835e-16	1.00000	6.02835e-16	1.00000
rad23	3.95305e-16	1.00000	3.95306e-16	1.00000
rad2	2.46344e-16	1.00000	2.46344e-16	1.00000
rad45	1.35096e-16	1.00000	1.35096e-16	1.00000
rad6	7.95630e-17	1.00000	7.95632e-17	1.00000
rad1	7.54669e-17	1.00000	7.54670e-17	1.00000
rad15	7.21204e-17	1.00000	7.21205e-17	1.00000
rad36	1.67592e-17	1.00000	1.67592e-17	1.00000
rad19syn	1.44428e-17	1.00000	1.44428e-17	1.00000
rad10	5.51716e-18	1.00000	5.51716e-18	1.00000
rad3	3.27061e-18	1.00000	3.27061e-18	1.00000
rad4	2.70583e-18	1.00000	2.70583e-18	1.00000
rad31	1.51028e-20	1.00000	1.51028e-20	1.00000
rad7	1.23763e-20	1.00000	1.23763e-20	1.00000
rad26	4.44170e-21	1.00000	4.44171e-21	1.00000
rad24	4.04465e-21	1.00000	4.04465e-21	1.00000
rad11	3.76966e-21	1.00000	3.76967e-21	1.00000
rad28	1.93451e-21	1.00000	1.93451e-21	1.00000
rad21	1.34473e-21	1.00000	1.34473e-21	1.00000
rad33	2.37263e-22	1.00000	2.37263e-22	1.00000
rad20	2.16415e-22	1.00000	2.16415e-22	1.00000
rad22	2.08364e-22	1.00000	2.08365e-22	1.00000
rad13	2.05076e-22	1.00000	2.05076e-22	1.00000
rad47	8.53940e-24	1.00000	8.53940e-24	1.00000
rad27	3.78227e-24	1.00000	3.78227e-24	1.00000
rad25	3.67555e-24	1.00000	3.67556e-24	1.00000
rad8	2.39851e-24	1.00000	2.39851e-24	1.00000
rad14	3.94169e-25	1.00000	3.94169e-25	1.00000
rad18	9.59434e-28	1.00000	9.59434e-28	1.00000
rad5	2.12539e-31	1.00000	2.12539e-31	1.00000

0.100000000E-05 Pa, 900.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.49199e-12 (1.00)	1.49199e-12 (1.00)
Formation of rad19	1.30395e-12 (0.874)	1.30394e-12 (0.874)
H-abstraction to cyc2enyl	1.56554e-13 (0.105)	1.56554e-13 (0.105)
H-abstraction to cyc1enyl	3.14892e-14 (0.0211)	3.14890e-14 (0.0211)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.848699	0.848699	0.848703	0.848703
Benzene+cycloprop-2-enylidene	0.104929	0.953628	0.104930	0.953634
PhCHCCH2+H	0.0222941	0.975922	0.0222941	0.975928
Benzene+cycloprop-1-enylidene	0.0211054	0.997028	0.0211054	0.997033

C2H2+PhCH2	0.000683868	0.997712	0.000683871	0.997717
Ph+MeAc	0.000643403	0.998355	0.000643406	0.998360
Ph+Allene	0.000474185	0.998829	0.000474187	0.998835
PhCCCH3+H	0.000337156	0.999166	0.000337157	0.999172
PhCCH+CH3	0.000266833	0.999433	0.000266834	0.999439
rad67	0.000208252	0.999641	0.000208253	0.999647
PhCH2CCH+H	0.000196562	0.999838	0.000196563	0.999843
rad35	7.58728e-05	0.999914	7.58733e-05	0.999919
PhcycC3H3_A+H	2.42103e-05	0.999938	2.42105e-05	0.999943
PAH7+H	1.88375e-05	0.999957	1.88376e-05	0.999962
PhcycC3H3_B+H	1.21561e-05	0.999969	1.21561e-05	0.999974
rad37	1.14050e-05	0.999980	1.14050e-05	0.999986
Phenyl+cycC3H4	5.07995e-06	0.999986	0.00000	0.999986
PAH10+CH3	4.40461e-06	0.999990	4.40463e-06	0.999990
rad39	3.79886e-06	0.999994	3.79888e-06	0.999994
rad30	2.25163e-06	0.999996	2.25165e-06	0.999996
PAH9+H	1.48864e-06	0.999997	1.48865e-06	0.999998
rad38	1.36505e-06	0.999999	1.36505e-06	0.999999
PAH3+H	6.06186e-07	0.999999	6.06189e-07	1.000000
rad46	1.39482e-07	1.000000	1.39483e-07	1.000000
rad60syn	1.03783e-07	1.000000	1.03784e-07	1.000000
rad54	1.00666e-07	1.000000	1.00667e-07	1.000000
rad59	7.22570e-08	1.000000	7.22573e-08	1.000000
rad60anti	6.13421e-08	1.000000	6.13425e-08	1.000000
rad50	4.00788e-08	1.000000	4.00791e-08	1.000000
PAH1+H	3.94732e-08	1.000000	3.94734e-08	1.000000
rad43	2.87031e-08	1.000000	2.87033e-08	1.000000
rad70	1.65408e-08	1.000000	1.65408e-08	1.000000
rad55	5.38699e-09	1.000000	5.38702e-09	1.000000
rad51	4.77134e-09	1.000000	4.77137e-09	1.000000
rad62	3.44637e-09	1.000000	3.44638e-09	1.000000
rad34	2.67892e-09	1.000000	2.67894e-09	1.000000
rad52	2.25237e-09	1.000000	2.25238e-09	1.000000
rad58	2.20457e-09	1.000000	2.20458e-09	1.000000
rad61	1.06256e-09	1.000000	1.06257e-09	1.000000
rad41	6.91191e-10	1.000000	6.91194e-10	1.000000
rad53	4.12665e-10	1.000000	4.12668e-10	1.000000
rad56	2.12371e-10	1.000000	2.12372e-10	1.000000
rad64	1.54860e-10	1.000000	1.54860e-10	1.000000
rad65	1.50319e-10	1.000000	1.50320e-10	1.000000
rad42	1.03376e-10	1.000000	1.03377e-10	1.000000
PAH8+H	5.91171e-11	1.000000	5.91174e-11	1.000000
rad68syn	4.07131e-11	1.000000	4.07134e-11	1.000000
rad68anti	2.70946e-11	1.000000	2.70946e-11	1.000000
rad40syn	1.56733e-11	1.000000	1.56733e-11	1.000000
rad40anti	1.17159e-11	1.000000	1.17159e-11	1.000000
rad73	1.01666e-11	1.000000	1.01667e-11	1.000000
rad71	6.75145e-12	1.000000	6.75149e-12	1.000000
rad9	2.46472e-12	1.000000	2.46474e-12	1.000000
rad72	3.83063e-14	1.000000	3.83066e-14	1.000000
rad12	4.04547e-15	1.000000	4.04549e-15	1.000000
rad19anti	4.57501e-16	1.000000	4.57503e-16	1.000000
rad23	4.44045e-16	1.000000	4.44047e-16	1.000000
rad15	4.34598e-16	1.000000	4.34599e-16	1.000000
rad2	2.41385e-16	1.000000	2.41386e-16	1.000000
rad45	1.86564e-16	1.000000	1.86566e-16	1.000000
rad1	7.36118e-17	1.000000	7.36122e-17	1.000000
rad6	5.90603e-17	1.000000	5.90606e-17	1.000000
rad36	2.09364e-17	1.000000	2.09365e-17	1.000000
rad19syn	1.51735e-17	1.000000	1.51736e-17	1.000000
rad10	5.13179e-18	1.000000	5.13182e-18	1.000000
rad3	2.73930e-18	1.000000	2.73931e-18	1.000000
rad4	2.27424e-18	1.000000	2.27426e-18	1.000000
rad21	1.24312e-19	1.000000	1.24313e-19	1.000000
rad24	8.13232e-20	1.000000	8.13237e-20	1.000000
rad20	2.39353e-20	1.000000	2.39354e-20	1.000000
rad31	1.88477e-20	1.000000	1.88478e-20	1.000000
rad33	1.64394e-20	1.000000	1.64394e-20	1.000000
rad7	1.19216e-20	1.000000	1.19216e-20	1.000000
rad8	5.47269e-21	1.000000	5.47271e-21	1.000000
rad11	3.89092e-21	1.000000	3.89094e-21	1.000000
rad13	3.68435e-21	1.000000	3.68436e-21	1.000000
rad26	3.55261e-21	1.000000	3.55263e-21	1.000000
rad28	1.57580e-21	1.000000	1.57581e-21	1.000000
rad22	2.62142e-22	1.000000	2.62144e-22	1.000000
rad25	2.46143e-22	1.000000	2.46144e-22	1.000000
rad27	2.21098e-22	1.000000	2.21100e-22	1.000000
rad47	4.17543e-23	1.000000	4.17545e-23	1.000000
rad14	1.66021e-23	1.000000	1.66022e-23	1.000000
rad18	1.61649e-25	1.000000	1.61649e-25	1.000000

rad5 | 1.79557e-30 1.00000 | 1.79558e-30 1.00000

0.100000000E-05 Pa, 1000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.07591e-12 (1.00)	2.07587e-12 (1.00)
Formation of rad19	1.74189e-12 (0.839)	1.74186e-12 (0.839)
H-abstraction to cyc2enyl	2.68753e-13 (0.129)	2.68753e-13 (0.129)
H-abstraction to cyc1enyl	6.52627e-14 (0.0314)	6.52614e-14 (0.0314)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.799582	0.799582	0.799596	0.799596
Benzene+cycloprop-2-enylidene	0.129463	0.929045	0.129465	0.929061
PhCHCCH2+H	0.0345727	0.963618	0.0345733	0.963635
Benzene+cycloprop-1-enylidene	0.0314382	0.995056	0.0314381	0.995073
C2H2+PhCH2	0.00107013	0.996126	0.00107014	0.996143
Ph+MeAc	0.00105356	0.997180	0.00105357	0.997197
Ph+Allene	0.000856132	0.998036	0.000856147	0.998053
PhCCCH3+H	0.000518388	0.998554	0.000518396	0.998571
PhCH2CCH+H	0.000387329	0.998942	0.000387336	0.998958
PhCCH+CH3	0.000373412	0.999315	0.000373419	0.999332
rad67	0.000352154	0.999667	0.000352160	0.999684
rad35	0.000127506	0.999795	0.000127508	0.999812
PhcycC3H3_A+H	6.68787e-05	0.999862	6.68799e-05	0.999878
PhcycC3H3_B+H	3.94287e-05	0.999901	3.94293e-05	0.999918
PAH7+H	3.02070e-05	0.999931	3.02075e-05	0.999948
rad37	2.12565e-05	0.999953	2.12568e-05	0.999969
Phenyl+cycC3H4	1.68078e-05	0.999969	0.00000	0.999969
PAH10+CH3	1.12446e-05	0.999981	1.12447e-05	0.999981
rad39	5.81024e-06	0.999986	5.81034e-06	0.999986
rad30	4.04406e-06	0.999990	4.04413e-06	0.999990
PAH9+H	3.29361e-06	0.999994	3.29367e-06	0.999994
rad38	3.08261e-06	0.999997	3.08266e-06	0.999997
PAH3+H	1.54070e-06	0.999998	1.54073e-06	0.999998
rad46	3.42239e-07	0.999999	3.42245e-07	0.999999
rad54	2.28520e-07	0.999999	2.28524e-07	0.999999
rad60syn	2.23169e-07	0.999999	2.23173e-07	0.999999
rad59	1.76070e-07	0.999999	1.76073e-07	0.999999
rad60anti	1.33518e-07	1.000000	1.33520e-07	0.999999
rad50	1.25826e-07	1.000000	1.25828e-07	1.000000
PAH1+H	1.15144e-07	1.000000	1.15145e-07	1.000000
rad43	6.59875e-08	1.000000	6.59887e-08	1.000000
rad70	4.32135e-08	1.000000	4.32143e-08	1.000000
rad51	1.82048e-08	1.000000	1.82051e-08	1.000000
rad55	1.31137e-08	1.000000	1.31139e-08	1.000000
rad52	7.79283e-09	1.000000	7.79297e-09	1.000000
rad34	7.69222e-09	1.000000	7.69236e-09	1.000000
rad58	7.06658e-09	1.000000	7.06670e-09	1.000000
rad62	7.03940e-09	1.000000	7.03953e-09	1.000000
rad61	4.12272e-09	1.000000	4.12278e-09	1.000000
rad41	2.02447e-09	1.000000	2.02451e-09	1.000000
rad53	1.31432e-09	1.000000	1.31434e-09	1.000000
rad56	7.88428e-10	1.000000	7.88442e-10	1.000000
rad65	5.65099e-10	1.000000	5.65110e-10	1.000000
rad64	4.71855e-10	1.000000	4.71863e-10	1.000000
PAH8+H	3.09749e-10	1.000000	3.09755e-10	1.000000
rad42	2.59222e-10	1.000000	2.59226e-10	1.000000
rad68syn	1.64237e-10	1.000000	1.64240e-10	1.000000
rad68anti	1.08793e-10	1.000000	1.08795e-10	1.000000
rad40syn	7.30616e-11	1.000000	7.30628e-11	1.000000
rad73	6.65984e-11	1.000000	6.65995e-11	1.000000
rad40anti	5.52183e-11	1.000000	5.52193e-11	1.000000
rad71	5.18856e-11	1.000000	5.18865e-11	1.000000
rad9	4.42115e-12	1.000000	4.42123e-12	1.000000
rad72	4.47183e-13	1.000000	4.47191e-13	1.000000
rad12	7.27751e-15	1.000000	7.27764e-15	1.000000
rad15	6.70932e-16	1.000000	6.70944e-16	1.000000
rad23	4.43769e-16	1.000000	4.43776e-16	1.000000
rad19anti	3.42048e-16	1.000000	3.42054e-16	1.000000
rad45	2.12597e-16	1.000000	2.12600e-16	1.000000
rad2	2.02385e-16	1.000000	2.02388e-16	1.000000
rad1	6.07912e-17	1.000000	6.07922e-17	1.000000
rad6	3.98379e-17	1.000000	3.98386e-17	1.000000
rad36	2.26435e-17	1.000000	2.26439e-17	1.000000
rad19syn	1.42443e-17	1.000000	1.42446e-17	1.000000
rad10	4.21987e-18	1.000000	4.21994e-18	1.000000
rad21	2.11576e-18	1.000000	2.11580e-18	1.000000
rad3	2.07376e-18	1.000000	2.07379e-18	1.000000

rad4	1.71541e-18	1.000000	1.71544e-18	1.000000
rad8	6.27706e-19	1.000000	6.27717e-19	1.000000
rad20	4.93245e-19	1.000000	4.93254e-19	1.000000
rad24	3.61522e-19	1.000000	3.61528e-19	1.000000
rad33	2.31462e-19	1.000000	2.31466e-19	1.000000
rad13	2.20518e-19	1.000000	2.20522e-19	1.000000
rad31	2.18570e-20	1.000000	2.18575e-20	1.000000
rad11	1.39358e-20	1.000000	1.39361e-20	1.000000
rad7	1.09801e-20	1.000000	1.09803e-20	1.000000
rad25	7.69190e-21	1.000000	7.69203e-21	1.000000
rad27	5.63066e-21	1.000000	5.63077e-21	1.000000
rad26	2.54840e-21	1.000000	2.54845e-21	1.000000
rad28	1.15308e-21	1.000000	1.15310e-21	1.000000
rad14	4.01746e-22	1.000000	4.01753e-22	1.000000
rad22	3.06437e-22	1.000000	3.06442e-22	1.000000
rad47	1.62908e-22	1.000000	1.62911e-22	1.000000
rad18	4.30012e-23	1.000000	4.30020e-23	1.000000
rad5	3.00034e-29	1.000000	3.00040e-29	1.000000

0.100000000E-05 Pa, 1100.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.81236e-12 (1.00)	2.81222e-12 (1.00)
Formation of rad19	2.25993e-12 (0.804)	2.25980e-12 (0.804)
H-abstraction to cyc2enyl	4.30538e-13 (0.153)	4.30538e-13 (0.153)
H-abstraction to cyclenyl	1.21896e-13 (0.0433)	1.21889e-13 (0.0433)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.745455	0.745455	0.745493	0.745493
Benzene+cycloprop-2-enylidene	0.153088	0.898543	0.153095	0.898588
PhCHCCH2+H	0.0504085	0.948951	0.0504110	0.948999
Benzene+cycloprop-1-enylidene	0.0433429	0.992294	0.0433425	0.992342
Ph+MeAc	0.00159989	0.993894	0.00159997	0.993942
C2H2+PhCH2	0.00157393	0.995468	0.00157401	0.995516
Ph+Allene	0.00139377	0.996862	0.00139384	0.996909
PhCCCH3+H	0.000746146	0.997608	0.000746184	0.997656
PhCH2CCH+H	0.000685299	0.998293	0.000685333	0.998341
rad67	0.000551509	0.998845	0.000551537	0.998892
PhCCH+CH3	0.000499927	0.999345	0.000499952	0.999392
rad35	0.000198904	0.999544	0.000198914	0.999591
PhcycC3H3_A+H	0.000160985	0.999705	0.000160994	0.999752
PhcycC3H3_B+H	0.000108569	0.999813	0.000108575	0.999861
Phenyl+cycC3H4	4.74535e-05	0.999861	0.000000	0.999861
PAH7+H	4.44306e-05	0.999905	4.44328e-05	0.999905
rad37	3.57976e-05	0.999941	3.57993e-05	0.999941
PAH10+CH3	2.47740e-05	0.999966	2.47753e-05	0.999966
rad39	8.15502e-06	0.999974	8.15543e-06	0.999974
rad30	6.70503e-06	0.999981	6.70536e-06	0.999981
PAH9+H	6.62670e-06	0.999987	6.62703e-06	0.999987
rad38	6.20641e-06	0.999993	6.20672e-06	0.999994
PAH3+H	3.44988e-06	0.999997	3.45006e-06	0.999997
rad46	7.53032e-07	0.999998	7.53070e-07	0.999998
rad54	4.48842e-07	0.999998	4.48864e-07	0.999998
rad60syn	4.32688e-07	0.999998	4.32709e-07	0.999999
rad59	3.79560e-07	0.999999	3.79579e-07	0.999999
rad50	3.42341e-07	0.999999	3.42358e-07	0.999999
PAH1+H	2.85109e-07	0.999999	2.85123e-07	1.000000
rad60anti	2.61576e-07	1.000000	2.61589e-07	1.000000
rad43	1.34197e-07	1.000000	1.34204e-07	1.000000
rad70	9.71315e-08	1.000000	9.71362e-08	1.000000
rad51	5.83466e-08	1.000000	5.83495e-08	1.000000
rad55	2.73128e-08	1.000000	2.73142e-08	1.000000
rad52	2.29834e-08	1.000000	2.29845e-08	1.000000
rad58	1.92024e-08	1.000000	1.92034e-08	1.000000
rad34	1.87451e-08	1.000000	1.87461e-08	1.000000
rad61	1.28390e-08	1.000000	1.28397e-08	1.000000
rad62	1.28154e-08	1.000000	1.28161e-08	1.000000
rad41	5.04814e-09	1.000000	5.04840e-09	1.000000
rad53	3.43664e-09	1.000000	3.43682e-09	1.000000
rad56	2.33966e-09	1.000000	2.33978e-09	1.000000
rad65	1.78385e-09	1.000000	1.78394e-09	1.000000
PAH8+H	1.24981e-09	1.000000	1.24987e-09	1.000000
rad64	1.19311e-09	1.000000	1.19317e-09	1.000000
rad42	5.61778e-10	1.000000	5.61806e-10	1.000000
rad68syn	5.31777e-10	1.000000	5.31804e-10	1.000000
rad68anti	3.50889e-10	1.000000	3.50907e-10	1.000000
rad73	3.32910e-10	1.000000	3.32927e-10	1.000000
rad71	2.96145e-10	1.000000	2.96160e-10	1.000000

rad40syn	2.67659e-10	1.00000	2.67672e-10	1.00000
rad40anti	2.04456e-10	1.00000	2.04466e-10	1.00000
rad9	4.03954e-12	1.00000	4.03975e-12	1.00000
rad72	3.56687e-12	1.00000	3.56704e-12	1.00000
rad12	7.93739e-15	1.00000	7.93778e-15	1.00000
rad15	5.76891e-16	1.00000	5.76919e-16	1.00000
rad23	4.20579e-16	1.00000	4.20599e-16	1.00000
rad19anti	2.56276e-16	1.00000	2.56289e-16	1.00000
rad45	2.19362e-16	1.00000	2.19373e-16	1.00000
rad2	1.59979e-16	1.00000	1.59987e-16	1.00000
rad1	4.72663e-17	1.00000	4.72687e-17	1.00000
rad6	3.03242e-17	1.00000	3.03257e-17	1.00000
rad36	2.28769e-17	1.00000	2.28781e-17	1.00000
rad19syn	1.28391e-17	1.00000	1.28398e-17	1.00000
rad21	9.63737e-18	1.00000	9.63784e-18	1.00000
rad8	7.65078e-18	1.00000	7.65117e-18	1.00000
rad10	3.39255e-18	1.00000	3.39272e-18	1.00000
rad13	3.15556e-18	1.00000	3.15572e-18	1.00000
rad20	2.48655e-18	1.00000	2.48667e-18	1.00000
rad3	1.50532e-18	1.00000	1.50539e-18	1.00000
rad4	1.23840e-18	1.00000	1.23847e-18	1.00000
rad33	8.69060e-19	1.00000	8.69109e-19	1.00000
rad24	7.72326e-19	1.00000	7.72364e-19	1.00000
rad11	5.55622e-19	1.00000	5.55650e-19	1.00000
rad25	7.88055e-20	1.00000	7.88094e-20	1.00000
rad27	4.73302e-20	1.00000	4.73325e-20	1.00000
rad7	2.86658e-20	1.00000	2.86672e-20	1.00000
rad31	2.41068e-20	1.00000	2.41079e-20	1.00000
rad18	4.94615e-21	1.00000	4.94639e-21	1.00000
rad14	3.73376e-21	1.00000	3.73394e-21	1.00000
rad26	1.88938e-21	1.00000	1.88946e-21	1.00000
rad28	8.70748e-22	1.00000	8.70788e-22	1.00000
rad47	5.24230e-22	1.00000	5.24256e-22	1.00000
rad22	3.48009e-22	1.00000	3.48027e-22	1.00000
rad5	9.34800e-28	1.00000	9.34848e-28	1.00000

0.100000000E-05 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.72623e-12 (1.00)	3.72576e-12 (1.00)
Formation of rad19	2.86288e-12 (0.768)	2.86245e-12 (0.768)
H-abstraction to cyc2enyl	6.53266e-13 (0.175)	6.53266e-13 (0.175)
H-abstraction to cyclenyl	2.10085e-13 (0.0564)	2.10053e-13 (0.0564)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.687506	0.687506	0.687593	0.687593
Benzene+cycloprop-2-enylidene	0.175315	0.862821	0.175337	0.862930
PhCHCCH2+H	0.0694470	0.932268	0.0694557	0.932386
Benzene+cycloprop-1-enylidene	0.0563801	0.988648	0.0563786	0.988764
Ph+MeAc	0.00227272	0.990921	0.00227301	0.991037
C2H2+PhCH2	0.00219121	0.993112	0.00219148	0.993229
Ph+Allene	0.00207994	0.995192	0.00208020	0.995309
PhCH2CCH+H	0.00110691	0.996299	0.00110706	0.996416
PhCCCH3+H	0.00101200	0.997311	0.00101213	0.997428
rad67	0.000806305	0.998117	0.000806406	0.998235
PhCCH+CH3	0.000645716	0.998763	0.000645798	0.998880
PhcycC3H3_A+H	0.000345598	0.999109	0.000345641	0.999226
rad35	0.000290169	0.999399	0.000290206	0.999516
PhcycC3H3_B+H	0.000261273	0.999660	0.000261306	0.999778
Phenyl+cycC3H4	0.000117514	0.999778	0.000000	0.999778
PAH7+H	6.09151e-05	0.999838	6.09229e-05	0.999839
rad37	5.50993e-05	0.999894	5.51063e-05	0.999894
PAH10+CH3	4.81021e-05	0.999942	4.81082e-05	0.999942
PAH9+H	1.22285e-05	0.999954	1.22300e-05	0.999954
rad38	1.12958e-05	0.999965	1.12972e-05	0.999965
rad39	1.06983e-05	0.999976	1.06996e-05	0.999976
rad30	1.03391e-05	0.999986	1.03403e-05	0.999986
PAH3+H	6.91379e-06	0.999993	6.91466e-06	0.999993
rad46	1.50176e-06	0.999995	1.50195e-06	0.999995
rad50	8.20642e-07	0.999995	8.20743e-07	0.999996
rad54	7.81497e-07	0.999996	7.81598e-07	0.999996
rad60syn	7.65102e-07	0.999997	7.65199e-07	0.999997
rad59	7.35018e-07	0.999998	7.35111e-07	0.999998
PAH1+H	6.15259e-07	0.999998	6.15337e-07	0.999998
rad60anti	4.66711e-07	0.999999	4.66769e-07	0.999999
rad43	2.45550e-07	0.999999	2.45581e-07	0.999999
rad70	1.92605e-07	0.999999	1.92629e-07	0.999999
rad51	1.60721e-07	0.999999	1.60741e-07	1.000000

rad52	5.89508e-08	1.000000	5.89583e-08	1.000000
rad55	4.99974e-08	1.000000	5.00038e-08	1.000000
rad58	4.53331e-08	1.000000	4.53389e-08	1.000000
rad34	3.98655e-08	1.000000	3.98705e-08	1.000000
rad61	3.33579e-08	1.000000	3.33621e-08	1.000000
rad62	2.11968e-08	1.000000	2.11994e-08	1.000000
rad41	1.09917e-08	1.000000	1.09931e-08	1.000000
rad53	7.65059e-09	1.000000	7.65156e-09	1.000000
rad56	5.79402e-09	1.000000	5.79474e-09	1.000000
rad65	4.84114e-09	1.000000	4.84175e-09	1.000000
PAH8+H	4.08163e-09	1.000000	4.08215e-09	1.000000
rad64	2.59994e-09	1.000000	2.60027e-09	1.000000
rad68syn	1.43965e-09	1.000000	1.43983e-09	1.000000
rad73	1.32831e-09	1.000000	1.32847e-09	1.000000
rad71	1.32075e-09	1.000000	1.32091e-09	1.000000
rad42	1.07985e-09	1.000000	1.07999e-09	1.000000
rad68anti	9.46805e-10	1.000000	9.46926e-10	1.000000
rad40syn	8.05959e-10	1.000000	8.06061e-10	1.000000
rad40anti	6.21769e-10	1.000000	6.21848e-10	1.000000
rad72	2.08613e-11	1.000000	2.08640e-11	1.000000
rad9	2.93668e-12	1.000000	2.93705e-12	1.000000
rad12	7.13600e-15	1.000000	7.13690e-15	1.000000
rad15	4.52425e-16	1.000000	4.52483e-16	1.000000
rad23	3.87576e-16	1.000000	3.87625e-16	1.000000
rad45	2.14418e-16	1.000000	2.14446e-16	1.000000
rad19anti	1.93811e-16	1.000000	1.93836e-16	1.000000
rad2	1.21942e-16	1.000000	1.21958e-16	1.000000
rad1	3.58127e-17	1.000000	3.58172e-17	1.000000
rad6	3.05604e-17	1.000000	3.05643e-17	1.000000
rad8	2.53541e-17	1.000000	2.53574e-17	1.000000
rad36	2.22523e-17	1.000000	2.22552e-17	1.000000
rad21	2.06285e-17	1.000000	2.06311e-17	1.000000
rad13	1.26207e-17	1.000000	1.26223e-17	1.000000
rad19syn	1.13955e-17	1.000000	1.13970e-17	1.000000
rad11	9.72758e-18	1.000000	9.72878e-18	1.000000
rad20	5.30461e-18	1.000000	5.30528e-18	1.000000
rad10	3.03792e-18	1.000000	3.03829e-18	1.000000
rad33	1.49700e-18	1.000000	1.49719e-18	1.000000
rad24	1.18501e-18	1.000000	1.18516e-18	1.000000
rad3	1.06978e-18	1.000000	1.06991e-18	1.000000
rad4	8.75783e-19	1.000000	8.75890e-19	1.000000
rad7	6.91578e-19	1.000000	6.91665e-19	1.000000
rad25	2.92600e-19	1.000000	2.92637e-19	1.000000
rad18	1.64154e-19	1.000000	1.64175e-19	1.000000
rad27	1.52386e-19	1.000000	1.52405e-19	1.000000
rad31	2.55729e-20	1.000000	2.55762e-20	1.000000
rad14	1.32731e-20	1.000000	1.32747e-20	1.000000
rad26	1.92186e-21	1.000000	1.92210e-21	1.000000
rad47	1.43379e-21	1.000000	1.43397e-21	1.000000
rad28	7.12442e-22	1.000000	7.12532e-22	1.000000
rad22	3.82824e-22	1.000000	3.82873e-22	1.000000
rad5	4.49639e-26	1.000000	4.49696e-26	1.000000

0.100000000E-05 Pa, 1300.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.84401e-12 (1.00)	4.84262e-12 (1.00)
Formation of rad19	3.55537e-12 (0.734)	3.55411e-12 (0.734)
H-abstraction to cyc2enyl	9.48893e-13 (0.196)	9.48893e-13 (0.196)
H-abstraction to cyc1enyl	3.39740e-13 (0.0701)	3.39620e-13 (0.0701)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.627161	0.627161	0.627340	0.627340
Benzene+cycloprop-2-enylidene	0.195890	0.823052	0.195946	0.823286
PhCHCCH2+H	0.0908777	0.913929	0.0909037	0.914190
Benzene+cycloprop-1-enylidene	0.0701362	0.984065	0.0701313	0.984321
Ph+MeAc	0.00304441	0.987110	0.00304527	0.987366
C2H2+PhCH2	0.00290372	0.990014	0.00290454	0.990271
Ph+Allene	0.00288470	0.992898	0.00288553	0.993157
PhCH2CCH+H	0.00165448	0.994553	0.00165495	0.994812
PhCCCH3+H	0.00130153	0.995854	0.00130190	0.996113
rad67	0.00110883	0.996963	0.00110915	0.997223
PhCCH+CH3	0.000809514	0.997773	0.000809751	0.998032
PhcycC3H3_A+H	0.000673391	0.998446	0.000673584	0.998706
PhcycC3H3_B+H	0.000561394	0.999007	0.000561554	0.999267
rad35	0.000398725	0.999406	0.000398838	0.999666
Phenyl+cycC3H4	0.000260506	0.999667	0.000000	0.999666
PAH10+CH3	8.38007e-05	0.999750	8.38250e-05	0.999750

PAH7+H	7.89117e-05	0.999829	7.89341e-05	0.999829
rad37	7.83568e-05	0.999908	7.83785e-05	0.999907
PAH9+H	2.08511e-05	0.999929	2.08571e-05	0.999928
rad38	1.88167e-05	0.999947	1.88221e-05	0.999947
rad30	1.49360e-05	0.999962	1.49402e-05	0.999962
rad39	1.33374e-05	0.999976	1.33412e-05	0.999975
PAH3+H	1.25732e-05	0.999988	1.25768e-05	0.999988
rad46	2.73965e-06	0.999991	2.74043e-06	0.999991
rad50	1.75696e-06	0.999993	1.75746e-06	0.999992
rad59	1.29584e-06	0.999994	1.29620e-06	0.999994
rad60syn	1.24692e-06	0.999995	1.24728e-06	0.999995
rad54	1.23055e-06	0.999996	1.23091e-06	0.999996
PAH1+H	1.18164e-06	0.999998	1.18197e-06	0.999997
rad60anti	7.66599e-07	0.999998	7.66824e-07	0.999998
rad43	4.10006e-07	0.999999	4.10123e-07	0.999999
rad51	3.87406e-07	0.999999	3.87517e-07	0.999999
rad70	3.43677e-07	1.000000	3.43775e-07	0.999999
rad52	1.33628e-07	1.000000	1.33666e-07	0.999999
rad58	9.48433e-08	1.000000	9.48705e-08	1.000000
rad55	8.22139e-08	1.000000	8.22375e-08	1.000000
rad34	7.56235e-08	1.000000	7.56447e-08	1.000000
rad61	7.45086e-08	1.000000	7.45298e-08	1.000000
rad62	3.23565e-08	1.000000	3.23657e-08	1.000000
rad41	2.13212e-08	1.000000	2.13273e-08	1.000000
rad53	1.49188e-08	1.000000	1.49231e-08	1.000000
rad56	1.23746e-08	1.000000	1.23782e-08	1.000000
rad65	1.15036e-08	1.000000	1.15069e-08	1.000000
PAH8+H	1.11832e-08	1.000000	1.11864e-08	1.000000
rad64	5.02551e-09	1.000000	5.02694e-09	1.000000
rad71	4.76253e-09	1.000000	4.76388e-09	1.000000
rad73	4.36513e-09	1.000000	4.36638e-09	1.000000
rad68syn	3.35945e-09	1.000000	3.36041e-09	1.000000
rad68anti	2.20311e-09	1.000000	2.20373e-09	1.000000
rad40syn	2.06131e-09	1.000000	2.06190e-09	1.000000
rad42	1.87919e-09	1.000000	1.87972e-09	1.000000
rad40anti	1.60444e-09	1.000000	1.60490e-09	1.000000
rad72	9.34613e-11	1.000000	9.34878e-11	1.000000
rad9	1.94753e-12	1.000000	1.94809e-12	1.000000
rad12	5.89852e-15	1.000000	5.90020e-15	1.000000
rad15	9.87253e-16	1.000000	9.87537e-16	1.000000
rad23	3.51917e-16	1.000000	3.52018e-16	1.000000
rad45	2.02889e-16	1.000000	2.02948e-16	1.000000
rad19anti	1.48394e-16	1.000000	1.48436e-16	1.000000
rad2	9.10597e-17	1.000000	9.10857e-17	1.000000
rad11	5.69986e-17	1.000000	5.70148e-17	1.000000
rad8	4.42248e-17	1.000000	4.42375e-17	1.000000
rad6	4.12597e-17	1.000000	4.12715e-17	1.000000
rad21	3.03536e-17	1.000000	3.03622e-17	1.000000
rad1	2.68477e-17	1.000000	2.68553e-17	1.000000
rad13	2.24559e-17	1.000000	2.24624e-17	1.000000
rad36	2.11083e-17	1.000000	2.11144e-17	1.000000
rad19syn	1.00706e-17	1.000000	1.00735e-17	1.000000
rad7	8.19504e-18	1.000000	8.19740e-18	1.000000
rad20	7.38165e-18	1.000000	7.38377e-18	1.000000
rad10	7.11092e-18	1.000000	7.11295e-18	1.000000
rad33	1.76734e-18	1.000000	1.76784e-18	1.000000
rad18	1.53527e-18	1.000000	1.53571e-18	1.000000
rad24	1.53474e-18	1.000000	1.53518e-18	1.000000
rad3	7.53505e-19	1.000000	7.53716e-19	1.000000
rad4	6.13752e-19	1.000000	6.13927e-19	1.000000
rad25	5.66799e-19	1.000000	5.66960e-19	1.000000
rad27	2.70871e-19	1.000000	2.70948e-19	1.000000
rad31	2.62744e-20	1.000000	2.62819e-20	1.000000
rad14	2.40834e-20	1.000000	2.40903e-20	1.000000
rad26	1.32239e-20	1.000000	1.32277e-20	1.000000
rad47	3.40948e-21	1.000000	3.41046e-21	1.000000
rad28	8.24891e-22	1.000000	8.25127e-22	1.000000
rad22	4.12523e-22	1.000000	4.12640e-22	1.000000
rad5	2.46499e-24	1.000000	2.46570e-24	1.000000

0.100000000E-05 Pa, 1400.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.19360e-12 (1.00)	6.18997e-12 (1.00)
Formation of rad19	4.34185e-12 (0.701)	4.33861e-12 (0.701)
H-abstraction to cyc2enyl	1.32990e-12 (0.215)	1.32990e-12 (0.215)
H-abstraction to cyclenyl	5.21850e-13 (0.0843)	5.21461e-13 (0.0842)

species	PYtrue	Cumul	PYeffective	Cumul
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Indene+H	0.566028	0.566028	0.566360	0.566360
Benzene+cycloprop-2-enylidene	0.214721	0.780749	0.214847	0.781207
PhCHCCH2+H	0.113526	0.894275	0.113593	0.894800
Benzene+cycloprop-1-enylidene	0.0842564	0.978532	0.0842429	0.979043
Ph+MeAc	0.00387284	0.982405	0.00387511	0.982918
Ph+Allene	0.00376036	0.986165	0.00376256	0.986680
C2H2+PhCH2	0.00367929	0.989844	0.00368145	0.990362
PhCH2CCH+H	0.00231297	0.992157	0.00231433	0.992676
PhCCCH3+H	0.00159640	0.993754	0.00159734	0.994274
rad67	0.00144409	0.995198	0.00144494	0.995719
PhcycC3H3_A+H	0.00120489	0.996403	0.00120559	0.996924
PhcycC3H3_B+H	0.00109183	0.997495	0.00109247	0.998017
PhCCH+CH3	0.000988680	0.998483	0.000989264	0.999006
Phenyl+cycC3H4	0.000523345	0.999007	0.000000	0.999006
rad35	0.000519418	0.999526	0.000519722	0.999526
PAH10+CH3	0.000132940	0.999659	0.000133019	0.999659
rad37	0.000103969	0.999763	0.000104030	0.999763
PAH7+H	9.76629e-05	0.999861	9.77202e-05	0.999860
PAH9+H	3.30451e-05	0.999894	3.30646e-05	0.999893
rad38	2.89869e-05	0.999923	2.90039e-05	0.999922
PAH3+H	2.09773e-05	0.999944	2.09896e-05	0.999943
rad30	2.03484e-05	0.999964	2.03603e-05	0.999964
rad39	1.60326e-05	0.999980	1.60420e-05	0.999980
rad46	4.60489e-06	0.999985	4.60759e-06	0.999984
rad50	3.39256e-06	0.999988	3.39455e-06	0.999988
rad59	2.10237e-06	0.999990	2.10360e-06	0.999990
PAH1+H	2.05214e-06	0.999992	2.05334e-06	0.999992
rad60syn	1.88965e-06	0.999994	1.89076e-06	0.999994
rad54	1.78086e-06	0.999996	1.78190e-06	0.999996
rad60anti	1.16973e-06	0.999997	1.17042e-06	0.999997
rad51	8.27129e-07	0.999998	8.27613e-07	0.999998
rad43	6.31782e-07	0.999998	6.32153e-07	0.999998
rad70	5.60217e-07	0.999999	5.60546e-07	0.999999
rad52	2.70713e-07	0.999999	2.70872e-07	0.999999
rad58	1.78428e-07	0.999999	1.78532e-07	0.999999
rad61	1.46277e-07	1.000000	1.46363e-07	0.999999
rad34	1.30056e-07	1.000000	1.30132e-07	1.000000
rad55	1.23571e-07	1.000000	1.23644e-07	1.000000
rad62	4.61529e-08	1.000000	4.61799e-08	1.000000
rad41	3.74002e-08	1.000000	3.74221e-08	1.000000
PAH8+H	2.63148e-08	1.000000	2.63303e-08	1.000000
rad53	2.60384e-08	1.000000	2.60537e-08	1.000000
rad65	2.42340e-08	1.000000	2.42482e-08	1.000000
rad56	2.33522e-08	1.000000	2.33659e-08	1.000000
rad71	1.41523e-08	1.000000	1.41606e-08	1.000000
rad73	1.20322e-08	1.000000	1.20393e-08	1.000000
rad64	8.79755e-09	1.000000	8.80273e-09	1.000000
rad68syn	6.90097e-09	1.000000	6.90502e-09	1.000000
rad40syn	4.57744e-09	1.000000	4.58013e-09	1.000000
rad68anti	4.51464e-09	1.000000	4.51729e-09	1.000000
rad40anti	3.59045e-09	1.000000	3.59256e-09	1.000000
rad42	3.00666e-09	1.000000	3.00843e-09	1.000000
rad72	3.28506e-10	1.000000	3.28699e-10	1.000000
rad9	1.24446e-12	1.000000	1.24519e-12	1.000000
rad12	4.68956e-15	1.000000	4.69231e-15	1.000000
rad15	3.64459e-15	1.000000	3.64673e-15	1.000000
rad23	3.16472e-16	1.000000	3.16658e-16	1.000000
rad45	1.87702e-16	1.000000	1.87812e-16	1.000000
rad11	1.44859e-16	1.000000	1.44943e-16	1.000000
rad19anti	1.15118e-16	1.000000	1.15186e-16	1.000000
rad2	6.73826e-17	1.000000	6.74221e-17	1.000000
rad6	5.98787e-17	1.000000	5.99139e-17	1.000000
rad8	5.66687e-17	1.000000	5.67019e-17	1.000000
rad21	3.67060e-17	1.000000	3.67275e-17	1.000000
rad7	3.48212e-17	1.000000	3.48416e-17	1.000000
rad13	2.61024e-17	1.000000	2.61177e-17	1.000000
rad10	2.48128e-17	1.000000	2.48274e-17	1.000000
rad1	2.00659e-17	1.000000	2.00776e-17	1.000000
rad36	1.96362e-17	1.000000	1.96478e-17	1.000000
rad19syn	8.90593e-18	1.000000	8.91116e-18	1.000000
rad20	8.28826e-18	1.000000	8.29310e-18	1.000000
rad18	5.37819e-18	1.000000	5.38134e-18	1.000000
rad24	1.80313e-18	1.000000	1.80420e-18	1.000000
rad33	1.72625e-18	1.000000	1.72727e-18	1.000000
rad25	7.72646e-19	1.000000	7.73097e-19	1.000000
rad3	5.29976e-19	1.000000	5.30287e-19	1.000000
rad4	4.28943e-19	1.000000	4.29194e-19	1.000000
rad27	3.50744e-19	1.000000	3.50950e-19	1.000000
rad26	2.24469e-19	1.000000	2.24601e-19	1.000000

rad14	3.02573e-20	1.00000	3.02750e-20	1.000000
rad31	2.62635e-20	1.00000	2.62789e-20	1.000000
rad47	7.15113e-21	1.00000	7.15531e-21	1.000000
rad28	3.82333e-21	1.00000	3.82557e-21	1.000000
rad22	1.24094e-21	1.00000	1.24166e-21	1.000000
rad5	1.08556e-22	1.00000	1.08619e-22	1.000000

0.100000000E-05 Pa, 1500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.80417e-12 (1.00)	7.79561e-12 (1.00)
Formation of rad19	5.22661e-12 (0.670)	5.21915e-12 (0.669)
H-abstraction to cyc2enyl	1.80920e-12 (0.232)	1.80920e-12 (0.232)
H-abstraction to cyclenyl	7.68359e-13 (0.0985)	7.67262e-13 (0.0984)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.505870	0.505870	0.506425	0.506425
Benzene+cycloprop-2-enylidene	0.231825	0.737695	0.232079	0.738505
PhCHCCH2+H	0.135967	0.873662	0.136116	0.874621
Benzene+cycloprop-1-enylidene	0.0984549	0.972117	0.0984223	0.973043
Ph+MeAc	0.00470570	0.976823	0.00471086	0.977754
Ph+Allene	0.00464760	0.981470	0.00465271	0.982407
C2H2+PhCH2	0.00447301	0.985943	0.00447791	0.986885
PhCH2CCH+H	0.00304819	0.988991	0.00305154	0.989936
PhcycC3H3_A+H	0.00198976	0.990981	0.00199195	0.991928
PhcycC3H3_B+H	0.00193280	0.992914	0.00193492	0.993863
PhCCCH3+H	0.00187667	0.994791	0.00187873	0.995742
rad67	0.00179097	0.996582	0.00179294	0.997535
PhCCH+CH3	0.00117783	0.997759	0.00117912	0.998714
Phenyl+cycC3H4	0.000956146	0.998716	0.000000	0.998714
rad35	0.000644848	0.999360	0.000645555	0.999360
PAH10+CH3	0.000194190	0.999555	0.000194404	0.999554
rad37	0.000129806	0.999684	0.000129949	0.999684
PAH7+H	0.000116417	0.999801	0.000116546	0.999800
PAH9+H	4.88535e-05	0.999850	4.89071e-05	0.999849
rad38	4.16011e-05	0.999891	4.16467e-05	0.999891
PAH3+H	3.23374e-05	0.999924	3.23729e-05	0.999923
rad30	2.62808e-05	0.999950	2.63097e-05	0.999950
rad39	1.87895e-05	0.999969	1.88102e-05	0.999968
rad46	7.16199e-06	0.999976	7.16986e-06	0.999976
rad50	5.93797e-06	0.999982	5.94449e-06	0.999982
PAH1+H	3.25722e-06	0.999985	3.26081e-06	0.999985
rad59	3.16156e-06	0.999988	3.16503e-06	0.999988
rad60syn	2.67968e-06	0.999991	2.68262e-06	0.999991
rad54	2.39838e-06	0.999993	2.40102e-06	0.999993
rad60anti	1.66867e-06	0.999995	1.67050e-06	0.999995
rad51	1.57342e-06	0.999996	1.57515e-06	0.999996
rad43	9.05576e-07	0.999997	9.06568e-07	0.999997
rad70	8.42763e-07	0.999998	8.43688e-07	0.999998
rad52	4.92950e-07	0.999999	4.93491e-07	0.999999
rad58	3.04448e-07	0.999999	3.04782e-07	0.999999
rad61	2.56145e-07	0.999999	2.56426e-07	0.999999
rad34	2.04934e-07	1.000000	2.05159e-07	0.999999
rad55	1.72012e-07	1.000000	1.72201e-07	1.000000
rad62	6.20586e-08	1.000000	6.21267e-08	1.000000
rad41	5.99063e-08	1.000000	5.99721e-08	1.000000
PAH8+H	5.38671e-08	1.000000	5.39262e-08	1.000000
rad65	4.55485e-08	1.000000	4.55985e-08	1.000000
rad53	4.12866e-08	1.000000	4.13319e-08	1.000000
rad56	3.95671e-08	1.000000	3.96105e-08	1.000000
rad71	3.49994e-08	1.000000	3.50378e-08	1.000000
rad73	2.80690e-08	1.000000	2.80998e-08	1.000000
rad64	1.41255e-08	1.000000	1.41409e-08	1.000000
rad68syn	1.26336e-08	1.000000	1.26475e-08	1.000000
rad40syn	8.93581e-09	1.000000	8.94564e-09	1.000000
rad68anti	8.24821e-09	1.000000	8.25726e-09	1.000000
rad40anti	7.05383e-09	1.000000	7.06153e-09	1.000000
rad42	4.46777e-09	1.000000	4.47268e-09	1.000000
rad72	9.20557e-10	1.000000	9.21571e-10	1.000000
rad9	7.87403e-13	1.000000	7.88267e-13	1.000000
rad15	7.48198e-15	1.000000	7.49021e-15	1.000000
rad12	3.66370e-15	1.000000	3.66772e-15	1.000000
rad23	2.81445e-16	1.000000	2.81754e-16	1.000000
rad11	2.20547e-16	1.000000	2.20789e-16	1.000000
rad45	1.70628e-16	1.000000	1.70815e-16	1.000000
rad19anti	9.04718e-17	1.000000	9.05717e-17	1.000000
rad6	8.57597e-17	1.000000	8.58538e-17	1.000000
rad7	7.03662e-17	1.000000	7.04433e-17	1.000000

rad8	6.24614e-17	1.00000	6.25299e-17	1.000000
rad10	5.36034e-17	1.00000	5.36622e-17	1.000000
rad2	4.97244e-17	1.00000	4.97790e-17	1.000000
rad21	3.97611e-17	1.00000	3.98048e-17	1.000000
rad13	2.43538e-17	1.00000	2.43805e-17	1.000000
rad36	1.79657e-17	1.00000	1.79855e-17	1.000000
rad1	1.50090e-17	1.00000	1.50255e-17	1.000000
rad18	1.01390e-17	1.00000	1.01502e-17	1.000000
rad20	8.29636e-18	1.00000	8.30546e-18	1.000000
rad19syn	7.89908e-18	1.00000	7.90771e-18	1.000000
rad26	2.48963e-18	1.00000	2.49236e-18	1.000000
rad24	1.99082e-18	1.00000	1.99301e-18	1.000000
rad33	1.52243e-18	1.00000	1.52410e-18	1.000000
rad25	8.67515e-19	1.00000	8.68467e-19	1.000000
rad27	3.81185e-19	1.00000	3.81603e-19	1.000000
rad3	3.73897e-19	1.00000	3.74308e-19	1.000000
rad4	3.00078e-19	1.00000	3.00407e-19	1.000000
rad28	4.09075e-20	1.00000	4.09525e-20	1.000000
rad14	3.12704e-20	1.00000	3.13047e-20	1.000000
rad22	3.06322e-20	1.00000	3.06658e-20	1.000000
rad31	2.56266e-20	1.00000	2.56547e-20	1.000000
rad47	1.33181e-20	1.00000	1.33327e-20	1.000000
rad5	2.81897e-21	1.00000	2.82207e-21	1.000000

0.100000000E-06 Pa, 20.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.24541e-22 (1.00)	1.24541e-22 (1.00)
Formation of rad19	1.24541e-22 (1.00)	1.24541e-22 (1.00)
H-abstraction to cyc2enyl	3.84323e-68 (3.09e-46)	3.84323e-68 (3.09e-46)
H-abstraction to cyclenyl	6.26313e-106 (5.03e-84)	6.26313e-106 (5.03e-84)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999772	0.999772	0.999772	0.999772
PhCHCCH2+H	0.000217190	0.999989	0.000217190	0.999989
PhCCH+CH3	3.74993e-06	0.999993	3.74993e-06	0.999993
C2H2+PhCH2	2.66078e-06	0.999996	2.66078e-06	0.999996
PhCCCH3+H	2.10744e-06	0.999998	2.10744e-06	0.999998
Ph+MeAc	1.55535e-06	0.999999	1.55535e-06	0.999999
rad67	4.72017e-07	1.000000	4.72017e-07	1.000000
rad35	2.09059e-07	1.000000	2.09059e-07	1.000000
Ph+Allene	1.34639e-07	1.000000	1.34639e-07	1.000000
PAH7+H	1.78373e-08	1.000000	1.78373e-08	1.000000
PhCH2CCH+H	1.63595e-08	1.000000	1.63595e-08	1.000000
rad39	5.03016e-09	1.000000	5.03016e-09	1.000000
rad37	4.62673e-09	1.000000	4.62673e-09	1.000000
rad30	3.90781e-09	1.000000	3.90781e-09	1.000000
PAH9+H	2.53961e-10	1.000000	2.53961e-10	1.000000
rad38	1.06938e-10	1.000000	1.06938e-10	1.000000
rad60syn	1.69319e-11	1.000000	1.69319e-11	1.000000
rad60anti	8.26560e-12	1.000000	8.26560e-12	1.000000
PAH3+H	6.72155e-12	1.000000	6.72155e-12	1.000000
rad46	6.42601e-12	1.000000	6.42601e-12	1.000000
PAH10+CH3	5.52880e-12	1.000000	5.52880e-12	1.000000
rad59	1.39467e-12	1.000000	1.39467e-12	1.000000
PhcycC3H3_A+H	4.13677e-13	1.000000	4.13677e-13	1.000000
rad43	2.58810e-13	1.000000	2.58810e-13	1.000000
rad54	2.05785e-13	1.000000	2.05785e-13	1.000000
rad62	5.54306e-14	1.000000	5.54306e-14	1.000000
rad50	4.23315e-14	1.000000	4.23315e-14	1.000000
rad70	3.14362e-15	1.000000	3.14362e-15	1.000000
rad55	1.37812e-15	1.000000	1.37812e-15	1.000000
PAH1+H	5.58593e-16	1.000000	5.58593e-16	1.000000
rad52	2.67814e-16	1.000000	2.67814e-16	1.000000
rad58	7.50233e-17	1.000000	7.50233e-17	1.000000
rad51	6.49690e-17	1.000000	6.49690e-17	1.000000
rad34	2.91050e-17	1.000000	2.91050e-17	1.000000
Phenyl+cycC3H4	2.77347e-17	1.000000	0.000000	1.000000
rad42	3.04830e-18	1.000000	3.04830e-18	1.000000
rad41	2.76406e-18	1.000000	2.76406e-18	1.000000
rad65	1.27714e-18	1.000000	1.27714e-18	1.000000
rad6	2.62315e-30	1.000000	2.62315e-30	1.000000
PhcycC3H3_B+H	2.48349e-30	1.000000	2.48349e-30	1.000000
rad26	1.42188e-31	1.000000	1.42188e-31	1.000000
rad53	1.11866e-31	1.000000	1.11866e-31	1.000000
rad28	9.10063e-32	1.000000	9.10063e-32	1.000000
rad47	5.36316e-32	1.000000	5.36316e-32	1.000000
rad2	1.15557e-33	1.000000	1.15557e-33	1.000000

rad64	4.89184e-34	1.00000	4.89184e-34	1.00000
rad7	1.89239e-34	1.00000	1.89239e-34	1.00000
rad1	7.29939e-35	1.00000	7.29939e-35	1.00000
rad10	5.95259e-35	1.00000	5.95259e-35	1.00000
rad11	4.63414e-35	1.00000	4.63414e-35	1.00000
rad14	2.27043e-35	1.00000	2.27043e-35	1.00000
rad25	1.04537e-35	1.00000	1.04537e-35	1.00000
rad3	7.92787e-36	1.00000	7.92787e-36	1.00000
rad4	4.00416e-36	1.00000	4.00416e-36	1.00000
rad27	2.12641e-36	1.00000	2.12641e-36	1.00000
rad19anti	1.76071e-36	1.00000	1.76071e-36	1.00000
rad13	1.04510e-36	1.00000	1.04510e-36	1.00000
rad9	1.67379e-37	1.00000	1.67379e-37	1.00000
rad5	1.69449e-38	1.00000	1.69449e-38	1.00000
rad33	2.04461e-39	1.00000	2.04461e-39	1.00000
rad31	1.07208e-40	1.00000	1.07208e-40	1.00000
rad15	7.24853e-41	1.00000	7.24853e-41	1.00000
rad61	5.02959e-41	1.00000	5.02959e-41	1.00000
rad20	5.70213e-43	1.00000	5.70213e-43	1.00000
rad21	4.50927e-43	1.00000	4.50927e-43	1.00000
rad56	3.36948e-43	1.00000	3.36948e-43	1.00000
rad18	7.22231e-45	1.00000	7.22231e-45	1.00000
rad12	4.64410e-45	1.00000	4.64410e-45	1.00000
rad68syn	2.54027e-45	1.00000	2.54027e-45	1.00000
rad68anti	2.17402e-45	1.00000	2.17402e-45	1.00000
rad23	4.09208e-46	1.00000	4.09208e-46	1.00000
Benzene+cycloprop-2-enylidene	3.08591e-46	1.00000	3.08591e-46	1.00000
rad19syn	1.37416e-46	1.00000	1.37416e-46	1.00000
rad22	4.54028e-47	1.00000	4.54028e-47	1.00000
rad45	2.60497e-48	1.00000	2.60497e-48	1.00000
rad24	7.36012e-49	1.00000	7.36012e-49	1.00000
rad36	1.59772e-49	1.00000	1.59772e-49	1.00000
rad73	2.07005e-53	1.00000	2.07005e-53	1.00000
rad40syn	2.93459e-54	1.00000	2.93459e-54	1.00000
rad40anti	2.41838e-54	1.00000	2.41838e-54	1.00000
PAH8+H	1.12088e-58	1.00000	1.12088e-58	1.00000
rad71	3.49403e-62	1.00000	3.49403e-62	1.00000
rad8	2.40364e-66	1.00000	2.40364e-66	1.00000
Benzene+cycloprop-1-enylidene	5.02895e-84	1.00000	5.02895e-84	1.00000

0.100000000E-06 Pa, 30.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.13009e-20 (1.00)	8.13009e-20 (1.00)
Formation of rad19	8.13009e-20 (1.00)	8.13009e-20 (1.00)
H-abstraction to cyc2enyl	1.08880e-49 (1.34e-30)	1.08880e-49 (1.34e-30)
H-abstraction to cyclenyl	7.55172e-75 (9.29e-56)	7.55172e-75 (9.29e-56)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999770	0.999770	0.999770	0.999770
PhCHCCH2+H	0.000218740	0.999989	0.000218740	0.999989
PhCCH+CH3	3.77922e-06	0.999993	3.77922e-06	0.999993
C2H2+PhCH2	2.68544e-06	0.999995	2.68544e-06	0.999995
PhCCCH3+H	2.12543e-06	0.999997	2.12543e-06	0.999997
Ph+MeAc	1.57151e-06	0.999999	1.57151e-06	0.999999
rad67	4.76660e-07	0.999999	4.76660e-07	0.999999
rad35	2.11031e-07	1.000000	2.11031e-07	1.000000
Ph+Allene	1.36499e-07	1.000000	1.36499e-07	1.000000
PAH7+H	1.80489e-08	1.000000	1.80489e-08	1.000000
PhCH2CCH+H	1.66215e-08	1.000000	1.66215e-08	1.000000
rad39	5.09007e-09	1.000000	5.09007e-09	1.000000
rad37	4.68501e-09	1.000000	4.68501e-09	1.000000
rad30	3.94539e-09	1.000000	3.94539e-09	1.000000
PAH9+H	2.57108e-10	1.000000	2.57108e-10	1.000000
rad38	1.08385e-10	1.000000	1.08385e-10	1.000000
rad60syn	1.71588e-11	1.000000	1.71588e-11	1.000000
rad60anti	8.37914e-12	1.000000	8.37914e-12	1.000000
PAH3+H	6.84326e-12	1.000000	6.84326e-12	1.000000
rad46	6.51963e-12	1.000000	6.51963e-12	1.000000
PAH10+CH3	5.67120e-12	1.000000	5.67120e-12	1.000000
rad59	1.41896e-12	1.000000	1.41896e-12	1.000000
PhcycC3H3_A+H	4.42422e-13	1.000000	4.42422e-13	1.000000
rad43	2.64743e-13	1.000000	2.64743e-13	1.000000
rad54	2.11003e-13	1.000000	2.11003e-13	1.000000
rad62	5.67504e-14	1.000000	5.67504e-14	1.000000
rad50	4.32261e-14	1.000000	4.32261e-14	1.000000
rad70	3.24823e-15	1.000000	3.24823e-15	1.000000
rad55	1.42504e-15	1.000000	1.42504e-15	1.000000

PAH1+H	5.84855e-16	1.000000	5.84855e-16	1.000000
rad52	2.74820e-16	1.000000	2.74820e-16	1.000000
rad58	7.77933e-17	1.000000	7.77933e-17	1.000000
rad51	6.70683e-17	1.000000	6.70683e-17	1.000000
Phenyl+cycC3H4	5.25631e-17	1.000000	0.00000	1.000000
rad34	3.05744e-17	1.000000	3.05744e-17	1.000000
rad42	3.20852e-18	1.000000	3.20852e-18	1.000000
rad41	2.96189e-18	1.000000	2.96189e-18	1.000000
rad65	1.32250e-18	1.000000	1.32250e-18	1.000000
PhcycC3H3_B+H	4.34755e-29	1.000000	4.34755e-29	1.000000
Benzene+cycloprop-2-enylidene	1.33923e-30	1.000000	1.33923e-30	1.000000
rad6	4.37762e-31	1.000000	4.37762e-31	1.000000
rad53	8.44016e-32	1.000000	8.44016e-32	1.000000
rad26	5.41917e-32	1.000000	5.41917e-32	1.000000
rad28	2.78418e-32	1.000000	2.78418e-32	1.000000
rad47	2.66202e-32	1.000000	2.66202e-32	1.000000
rad64	3.66429e-34	1.000000	3.66429e-34	1.000000
rad2	2.42055e-34	1.000000	2.42055e-34	1.000000
rad7	3.15903e-35	1.000000	3.15903e-35	1.000000
rad1	1.52979e-35	1.000000	1.52979e-35	1.000000
rad10	1.25753e-35	1.000000	1.25753e-35	1.000000
rad14	1.11660e-35	1.000000	1.11660e-35	1.000000
rad11	7.74654e-36	1.000000	7.74654e-36	1.000000
rad25	5.16107e-36	1.000000	5.16107e-36	1.000000
rad3	1.83233e-36	1.000000	1.83233e-36	1.000000
rad27	1.05016e-36	1.000000	1.05016e-36	1.000000
rad19anti	9.43582e-37	1.000000	9.43582e-37	1.000000
rad4	9.25560e-37	1.000000	9.25560e-37	1.000000
rad13	1.74494e-37	1.000000	1.74494e-37	1.000000
rad9	4.13101e-38	1.000000	4.13101e-38	1.000000
rad5	6.04461e-39	1.000000	6.04461e-39	1.000000
rad33	3.68676e-40	1.000000	3.68676e-40	1.000000
rad31	5.64813e-41	1.000000	5.64813e-41	1.000000
rad61	3.99438e-41	1.000000	3.99438e-41	1.000000
rad15	1.79241e-41	1.000000	1.79241e-41	1.000000
rad20	2.85929e-43	1.000000	2.85929e-43	1.000000
rad56	2.62092e-43	1.000000	2.62092e-43	1.000000
rad21	2.26458e-43	1.000000	2.26458e-43	1.000000
rad18	3.59339e-45	1.000000	3.59339e-45	1.000000
rad12	2.19800e-45	1.000000	2.19800e-45	1.000000
rad68syn	1.99223e-45	1.000000	1.99223e-45	1.000000
rad68anti	1.70454e-45	1.000000	1.70454e-45	1.000000
rad23	9.82576e-47	1.000000	9.82576e-47	1.000000
rad19syn	8.38610e-47	1.000000	8.38610e-47	1.000000
rad22	2.00613e-47	1.000000	2.00613e-47	1.000000
rad45	6.38298e-49	1.000000	6.38298e-49	1.000000
rad24	3.79007e-49	1.000000	3.79007e-49	1.000000
rad36	3.91421e-50	1.000000	3.91421e-50	1.000000
rad73	1.66955e-53	1.000000	1.66955e-53	1.000000
rad40syn	2.57249e-54	1.000000	2.57249e-54	1.000000
rad40anti	2.11969e-54	1.000000	2.11969e-54	1.000000
Benzene+cycloprop-1-enylidene	9.28861e-56	1.000000	9.28861e-56	1.000000
PAH8+H	1.00608e-58	1.000000	1.00608e-58	1.000000
rad71	2.96432e-62	1.000000	2.96432e-62	1.000000
rad8	1.26714e-66	1.000000	1.26714e-66	1.000000

0.100000000E-06 Pa, 40.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.24819e-18 (1.00)	2.24819e-18 (1.00)
Formation of rad19	2.24819e-18 (1.00)	2.24819e-18 (1.00)
H-abstraction to cyc2enyl	1.72361e-40 (7.67e-23)	1.72361e-40 (7.67e-23)
H-abstraction to cyclenyl	2.48792e-59 (1.11e-41)	2.48792e-59 (1.11e-41)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999767	0.999767	0.999767	0.999767
PhCHCCH2+H	0.000221748	0.999989	0.000221748	0.999989
PhCCH+CH3	3.83605e-06	0.999993	3.83605e-06	0.999993
C2H2+PhCH2	2.73340e-06	0.999995	2.73340e-06	0.999995
PhCCCH3+H	2.16038e-06	0.999997	2.16038e-06	0.999997
Ph+MeAc	1.60299e-06	0.999999	1.60299e-06	0.999999
rad67	4.85698e-07	1.000000	4.85698e-07	1.000000
rad35	2.14867e-07	1.000000	2.14867e-07	1.000000
Ph+Allene	1.40139e-07	1.000000	1.40139e-07	1.000000
PAH7+H	1.84621e-08	1.000000	1.84621e-08	1.000000
PhCH2CCH+H	1.71356e-08	1.000000	1.71356e-08	1.000000
rad39	5.20698e-09	1.000000	5.20698e-09	1.000000
rad37	4.79888e-09	1.000000	4.79888e-09	1.000000

rad30	4.01853e-09	1.000000	4.01853e-09	1.000000
PAH9+H	2.63258e-10	1.000000	2.63258e-10	1.000000
rad38	1.11216e-10	1.000000	1.11216e-10	1.000000
rad60syn	1.76027e-11	1.000000	1.76027e-11	1.000000
rad60anti	8.60137e-12	1.000000	8.60137e-12	1.000000
PAH3+H	7.08284e-12	1.000000	7.08284e-12	1.000000
rad46	6.70313e-12	1.000000	6.70313e-12	1.000000
PAH10+CH3	5.95405e-12	1.000000	5.95405e-12	1.000000
rad59	1.46672e-12	1.000000	1.46672e-12	1.000000
PhcycC3H3_A+H	5.01394e-13	1.000000	5.01394e-13	1.000000
rad43	2.76481e-13	1.000000	2.76481e-13	1.000000
rad54	2.21365e-13	1.000000	2.21365e-13	1.000000
rad62	5.93636e-14	1.000000	5.93636e-14	1.000000
rad50	4.49944e-14	1.000000	4.49944e-14	1.000000
rad70	3.45813e-15	1.000000	3.45813e-15	1.000000
rad55	1.51897e-15	1.000000	1.51897e-15	1.000000
PAH1+H	6.38443e-16	1.000000	6.38443e-16	1.000000
rad52	2.88755e-16	1.000000	2.88755e-16	1.000000
Phenyl+cycC3H4	1.15738e-16	1.000000	0.000000	1.000000
rad58	8.33664e-17	1.000000	8.33664e-17	1.000000
rad51	7.12775e-17	1.000000	7.12775e-17	1.000000
rad34	3.35233e-17	1.000000	3.35233e-17	1.000000
rad42	3.55448e-18	1.000000	3.55448e-18	1.000000
rad41	3.38724e-18	1.000000	3.38724e-18	1.000000
rad65	1.41378e-18	1.000000	1.41378e-18	1.000000
Benzene+cycloprop-2-enylidene	7.66665e-23	1.000000	7.66665e-23	1.000000
PhcycC3H3_B+H	8.31294e-25	1.000000	8.31294e-25	1.000000
rad53	2.41915e-29	1.000000	2.41915e-29	1.000000
rad6	1.64170e-31	1.000000	1.64170e-31	1.000000
rad26	3.20332e-32	1.000000	3.20332e-32	1.000000
rad47	1.79767e-32	1.000000	1.79767e-32	1.000000
rad28	1.46371e-32	1.000000	1.46371e-32	1.000000
rad64	3.26765e-33	1.000000	3.26765e-33	1.000000
rad2	1.14570e-34	1.000000	1.14570e-34	1.000000
rad7	1.18546e-35	1.000000	1.18546e-35	1.000000
rad14	7.43475e-36	1.000000	7.43475e-36	1.000000
rad1	7.24896e-36	1.000000	7.24896e-36	1.000000
rad10	5.96088e-36	1.000000	5.96088e-36	1.000000
rad25	3.46322e-36	1.000000	3.46322e-36	1.000000
rad11	2.91196e-36	1.000000	2.91196e-36	1.000000
rad3	9.40887e-37	1.000000	9.40887e-37	1.000000
rad19anti	7.57595e-37	1.000000	7.57595e-37	1.000000
rad27	7.05718e-37	1.000000	7.05718e-37	1.000000
rad4	4.75377e-37	1.000000	4.75377e-37	1.000000
rad13	6.55042e-38	1.000000	6.55042e-38	1.000000
rad9	2.08277e-38	1.000000	2.08277e-38	1.000000
rad5	3.42961e-39	1.000000	3.42961e-39	1.000000
rad33	1.51387e-40	1.000000	1.51387e-40	1.000000
rad61	6.80053e-41	1.000000	6.80053e-41	1.000000
rad31	4.36431e-41	1.000000	4.36431e-41	1.000000
Benzene+cycloprop-1-enylidene	1.10663e-41	1.000000	1.10663e-41	1.000000
rad15	9.05249e-42	1.000000	9.05249e-42	1.000000
rad56	4.28738e-43	1.000000	4.28738e-43	1.000000
rad20	2.00344e-43	1.000000	2.00344e-43	1.000000
rad21	1.59064e-43	1.000000	1.59064e-43	1.000000
rad68syn	3.31657e-45	1.000000	3.31657e-45	1.000000
rad68anti	2.83607e-45	1.000000	2.83607e-45	1.000000
rad18	2.45778e-45	1.000000	2.45778e-45	1.000000
rad12	1.59459e-45	1.000000	1.59459e-45	1.000000
rad19syn	8.61360e-47	1.000000	8.61360e-47	1.000000
rad23	4.78843e-47	1.000000	4.78843e-47	1.000000
rad22	1.30690e-47	1.000000	1.30690e-47	1.000000
rad45	3.16870e-49	1.000000	3.16870e-49	1.000000
rad24	2.77744e-49	1.000000	2.77744e-49	1.000000
rad36	1.94247e-50	1.000000	1.94247e-50	1.000000
rad73	2.95410e-53	1.000000	2.95410e-53	1.000000
rad40syn	5.41704e-54	1.000000	5.41704e-54	1.000000
rad40anti	4.46179e-54	1.000000	4.46179e-54	1.000000
PAH8+H	2.23568e-58	1.000000	2.23568e-58	1.000000
rad71	5.87045e-62	1.000000	5.87045e-62	1.000000
rad8	9.75566e-67	1.000000	9.75566e-67	1.000000

0.100000000E-06 Pa, 50.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.72707e-17 (1.00)	1.72707e-17 (1.00)
Formation of rad19	1.72707e-17 (1.00)	1.72707e-17 (1.00)
H-abstraction to cyc2enyl	5.49905e-35 (3.18e-18)	5.49905e-35 (3.18e-18)
H-abstraction to cyclenyl	4.93090e-50 (2.86e-33)	4.93090e-50 (2.86e-33)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999763	0.999763	0.999763	0.999763
PhCHCCH2+H	0.000225658	0.999989	0.000225658	0.999989
PhCCH+CH3	3.90994e-06	0.999993	3.90994e-06	0.999993
C2H2+PhCH2	2.79605e-06	0.999995	2.79605e-06	0.999995
PhCCCH3+H	2.20592e-06	0.999998	2.20592e-06	0.999998
Ph+MeAc	1.64418e-06	0.999999	1.64418e-06	0.999999
rad67	4.97514e-07	1.000000	4.97514e-07	1.000000
rad35	2.19879e-07	1.000000	2.19879e-07	1.000000
Ph+Allene	1.44942e-07	1.000000	1.44942e-07	1.000000
PAH7+H	1.90048e-08	1.000000	1.90048e-08	1.000000
PhCH2CCH+H	1.78174e-08	1.000000	1.78174e-08	1.000000
rad39	5.36057e-09	1.000000	5.36057e-09	1.000000
rad37	4.94868e-09	1.000000	4.94868e-09	1.000000
rad30	4.11419e-09	1.000000	4.11419e-09	1.000000
PAH9+H	2.71352e-10	1.000000	2.71352e-10	1.000000
rad38	1.14954e-10	1.000000	1.14954e-10	1.000000
rad60syn	1.81880e-11	1.000000	1.81880e-11	1.000000
rad60anti	8.89466e-12	1.000000	8.89466e-12	1.000000
PAH3+H	7.40206e-12	1.000000	7.40206e-12	1.000000
rad46	6.94584e-12	1.000000	6.94584e-12	1.000000
PAH10+CH3	6.33665e-12	1.000000	6.33665e-12	1.000000
rad59	1.53025e-12	1.000000	1.53025e-12	1.000000
PhcycC3H3_A+H	5.85937e-13	1.000000	5.85937e-13	1.000000
rad43	2.92252e-13	1.000000	2.92252e-13	1.000000
rad54	2.35374e-13	1.000000	2.35374e-13	1.000000
rad62	6.28791e-14	1.000000	6.28791e-14	1.000000
rad50	4.73675e-14	1.000000	4.73675e-14	1.000000
rad70	3.74676e-15	1.000000	3.74676e-15	1.000000
rad55	1.64775e-15	1.000000	1.64775e-15	1.000000
PAH1+H	7.14028e-16	1.000000	7.14028e-16	1.000000
rad52	3.07655e-16	1.000000	3.07655e-16	1.000000
Phenyl+cycC3H4	2.36668e-16	1.000000	0.000000	1.000000
rad58	9.10706e-17	1.000000	9.10706e-17	1.000000
rad51	7.70607e-17	1.000000	7.70607e-17	1.000000
rad34	3.76207e-17	1.000000	3.76207e-17	1.000000
rad42	4.07396e-18	1.000000	4.07396e-18	1.000000
rad41	4.02391e-18	1.000000	4.02391e-18	1.000000
Benzene+cycloprop-2-enylidene	3.18404e-18	1.000000	3.18404e-18	1.000000
rad65	1.53995e-18	1.000000	1.53995e-18	1.000000
PhcycC3H3_B+H	2.98283e-22	1.000000	2.98283e-22	1.000000
rad53	8.13862e-27	1.000000	8.13862e-27	1.000000
rad64	5.78679e-30	1.000000	5.78679e-30	1.000000
rad6	8.37640e-32	1.000000	8.37640e-32	1.000000
rad26	2.22438e-32	1.000000	2.22438e-32	1.000000
rad47	1.37437e-32	1.000000	1.37437e-32	1.000000
rad28	9.39784e-33	1.000000	9.39784e-33	1.000000
Benzene+cycloprop-1-enylidene	2.85507e-33	1.000000	2.85507e-33	1.000000
rad2	7.36734e-35	1.000000	7.36734e-35	1.000000
rad7	6.05404e-36	1.000000	6.05404e-36	1.000000
rad14	5.60832e-36	1.000000	5.60832e-36	1.000000
rad1	4.66895e-36	1.000000	4.66895e-36	1.000000
rad10	3.86672e-36	1.000000	3.86672e-36	1.000000
rad25	2.63988e-36	1.000000	2.63988e-36	1.000000
rad11	1.49006e-36	1.000000	1.49006e-36	1.000000
rad19anti	7.56647e-37	1.000000	7.56647e-37	1.000000
rad3	6.60610e-37	1.000000	6.60610e-37	1.000000
rad27	5.39359e-37	1.000000	5.39359e-37	1.000000
rad4	3.33882e-37	1.000000	3.33882e-37	1.000000
rad13	3.34696e-38	1.000000	3.34696e-38	1.000000
rad9	1.40776e-38	1.000000	1.40776e-38	1.000000
rad5	2.32628e-39	1.000000	2.32628e-39	1.000000
rad61	1.95110e-40	1.000000	1.95110e-40	1.000000
rad33	8.54797e-41	1.000000	8.54797e-41	1.000000
rad31	4.10769e-41	1.000000	4.10769e-41	1.000000
rad15	6.12770e-42	1.000000	6.12770e-42	1.000000
rad56	1.18498e-42	1.000000	1.18498e-42	1.000000
rad20	1.62665e-43	1.000000	1.62665e-43	1.000000
rad21	1.29590e-43	1.000000	1.29590e-43	1.000000
rad68syn	9.39644e-45	1.000000	9.39644e-45	1.000000
rad68anti	8.02870e-45	1.000000	8.02870e-45	1.000000
rad18	1.92619e-45	1.000000	1.92619e-45	1.000000
rad12	1.39780e-45	1.000000	1.39780e-45	1.000000
rad19syn	1.15714e-46	1.000000	1.15714e-46	1.000000
rad23	3.12752e-47	1.000000	3.12752e-47	1.000000
rad22	9.86333e-48	1.000000	9.86333e-48	1.000000
rad24	2.40043e-49	1.000000	2.40043e-49	1.000000
rad45	2.14041e-49	1.000000	2.14041e-49	1.000000

rad36	1.31156e-50	1.00000	1.31156e-50	1.00000
rad73	9.15257e-53	1.00000	9.15257e-53	1.00000
rad40syn	2.11570e-53	1.00000	2.11570e-53	1.00000
rad40anti	1.74111e-53	1.00000	1.74111e-53	1.00000
PAH8+H	9.50860e-58	1.00000	9.50860e-58	1.00000
rad71	2.15900e-61	1.00000	2.15900e-61	1.00000
rad8	9.04687e-67	1.00000	9.04687e-67	1.00000

0.100000000E-06 Pa, 60.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.93738e-17 (1.00)	6.93738e-17 (1.00)
Formation of rad19	6.93738e-17 (1.000)	6.93738e-17 (1.000)
H-abstraction to cyc2enyl	2.50609e-31 (3.61e-15)	2.50609e-31 (3.61e-15)
H-abstraction to cyclenyl	7.62015e-44 (1.10e-27)	7.62015e-44 (1.10e-27)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999758	0.999758	0.999758	0.999758
PhCHCCH2+H	0.000230121	0.999988	0.000230121	0.999988
PhCCH+CH3	3.99427e-06	0.999992	3.99427e-06	0.999992
C2H2+PhCH2	2.86797e-06	0.999995	2.86797e-06	0.999995
PhCCCH3+H	2.25806e-06	0.999997	2.25806e-06	0.999997
Ph+MeAc	1.69157e-06	0.999999	1.69157e-06	0.999999
rad67	5.11098e-07	0.999999	5.11098e-07	0.999999
rad35	2.25634e-07	1.000000	2.25634e-07	1.000000
Ph+Allene	1.50530e-07	1.000000	1.50530e-07	1.000000
PAH7+H	1.96327e-08	1.000000	1.96327e-08	1.000000
PhCH2CCH+H	1.86153e-08	1.000000	1.86153e-08	1.000000
rad39	5.53820e-09	1.000000	5.53820e-09	1.000000
rad37	5.12226e-09	1.000000	5.12226e-09	1.000000
rad30	4.22418e-09	1.000000	4.22418e-09	1.000000
PAH9+H	2.80739e-10	1.000000	2.80739e-10	1.000000
rad38	1.19306e-10	1.000000	1.19306e-10	1.000000
rad60syn	1.88685e-11	1.000000	1.88685e-11	1.000000
rad60anti	9.23591e-12	1.000000	9.23591e-12	1.000000
PAH3+H	7.77808e-12	1.000000	7.77808e-12	1.000000
rad46	7.22908e-12	1.000000	7.22908e-12	1.000000
PAH10+CH3	6.79612e-12	1.000000	6.79612e-12	1.000000
rad59	1.60493e-12	1.000000	1.60493e-12	1.000000
PhcycC3H3_A+H	6.95715e-13	1.000000	6.95715e-13	1.000000
rad43	3.11028e-13	1.000000	3.11028e-13	1.000000
rad54	2.52187e-13	1.000000	2.52187e-13	1.000000
rad62	6.70704e-14	1.000000	6.70704e-14	1.000000
rad50	5.01888e-14	1.000000	5.01888e-14	1.000000
rad70	4.10054e-15	1.000000	4.10054e-15	1.000000
Benzene+cycloprop-2-enylidene	3.61245e-15	1.000000	3.61245e-15	1.000000
rad55	1.80524e-15	1.000000	1.80524e-15	1.000000
PAH1+H	8.09571e-16	1.000000	8.09571e-16	1.000000
Phenyl+cycC3H4	4.45921e-16	1.000000	0.000000	1.000000
rad52	3.30434e-16	1.000000	3.30434e-16	1.000000
rad58	1.00588e-16	1.000000	1.00588e-16	1.000000
rad51	8.41470e-17	1.000000	8.41470e-17	1.000000
rad34	4.27629e-17	1.000000	4.27629e-17	1.000000
rad41	4.87030e-18	1.000000	4.87030e-18	1.000000
rad42	4.76393e-18	1.000000	4.76393e-18	1.000000
rad65	1.69577e-18	1.000000	1.69577e-18	1.000000
PhcycC3H3_B+H	1.47017e-20	1.000000	1.47017e-20	1.000000
rad53	3.73122e-25	1.000000	3.73122e-25	1.000000
Benzene+cycloprop-1-enylidene	1.09842e-27	1.000000	1.09842e-27	1.000000
rad64	9.21633e-28	1.000000	9.21633e-28	1.000000
rad6	5.04210e-32	1.000000	5.04210e-32	1.000000
rad26	1.68370e-32	1.000000	1.68370e-32	1.000000
rad47	1.12620e-32	1.000000	1.12620e-32	1.000000
rad28	6.71095e-33	1.000000	6.71095e-33	1.000000
rad2	5.87598e-35	1.000000	5.87598e-35	1.000000
rad61	4.84982e-35	1.000000	4.84982e-35	1.000000
rad14	4.54907e-36	1.000000	4.54907e-36	1.000000
rad1	3.73131e-36	1.000000	3.73131e-36	1.000000
rad7	3.64823e-36	1.000000	3.64823e-36	1.000000
rad10	3.03542e-36	1.000000	3.03542e-36	1.000000
rad25	2.16735e-36	1.000000	2.16735e-36	1.000000
rad11	8.99941e-37	1.000000	8.99941e-37	1.000000
rad19anti	8.79993e-37	1.000000	8.79993e-37	1.000000
rad3	5.55217e-37	1.000000	5.55217e-37	1.000000
rad27	4.44469e-37	1.000000	4.44469e-37	1.000000
rad4	2.80738e-37	1.000000	2.80738e-37	1.000000
rad13	2.01818e-38	1.000000	2.01818e-38	1.000000
rad9	1.12414e-38	1.000000	1.12414e-38	1.000000

rad5	1.73914e-39	1.000000	1.73914e-39	1.000000
rad33	5.75330e-41	1.000000	5.75330e-41	1.000000
rad31	4.41920e-41	1.000000	4.41920e-41	1.000000
rad56	6.11504e-42	1.000000	6.11504e-42	1.000000
rad15	4.89932e-42	1.000000	4.89932e-42	1.000000
rad20	1.44330e-43	1.000000	1.44330e-43	1.000000
rad21	1.15461e-43	1.000000	1.15461e-43	1.000000
rad68syn	4.98098e-44	1.000000	4.98098e-44	1.000000
rad68anti	4.25204e-44	1.000000	4.25204e-44	1.000000
rad18	1.63611e-45	1.000000	1.63611e-45	1.000000
rad12	1.37642e-45	1.000000	1.37642e-45	1.000000
rad19syn	1.80508e-46	1.000000	1.80508e-46	1.000000
rad23	2.44662e-47	1.000000	2.44662e-47	1.000000
rad22	8.08211e-48	1.000000	8.08211e-48	1.000000
rad24	2.29778e-49	1.000000	2.29778e-49	1.000000
rad45	1.71805e-49	1.000000	1.71805e-49	1.000000
rad36	1.05234e-50	1.000000	1.05234e-50	1.000000
rad73	5.37831e-52	1.000000	5.37831e-52	1.000000
rad40syn	1.54572e-52	1.000000	1.54572e-52	1.000000
rad40anti	1.27006e-52	1.000000	1.27006e-52	1.000000
PAH8+H	7.80378e-57	1.000000	7.80378e-57	1.000000
rad71	1.56443e-60	1.000000	1.56443e-60	1.000000
rad8	9.43551e-67	1.000000	9.43551e-67	1.000000

0.100000000E-06 Pa, 70.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.91520e-16 (1.00)	1.91520e-16 (1.00)
Formation of rad19	1.91520e-16 (1.000)	1.91520e-16 (1.000)
H-abstraction to cyc2enyl	1.01125e-28 (5.28e-13)	1.01125e-28 (5.28e-13)
H-abstraction to cyclenyl	1.97822e-39 (1.03e-23)	1.97822e-39 (1.03e-23)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999753	0.999753	0.999753	0.999753
PhCHCCH2+H	0.000235006	0.999988	0.000235006	0.999988
PhCCH+CH3	4.08659e-06	0.999992	4.08659e-06	0.999992
C2H2+PhCH2	2.94722e-06	0.999995	2.94722e-06	0.999995
PhCCCH3+H	2.31532e-06	0.999997	2.31532e-06	0.999997
Ph+MeAc	1.74394e-06	0.999999	1.74394e-06	0.999999
rad67	5.26090e-07	1.000000	5.26090e-07	1.000000
rad35	2.31978e-07	1.000000	2.31978e-07	1.000000
Ph+Allene	1.56781e-07	1.000000	1.56781e-07	1.000000
PAH7+H	2.03305e-08	1.000000	2.03305e-08	1.000000
PhCH2CCH+H	1.95142e-08	1.000000	1.95142e-08	1.000000
rad39	5.73559e-09	1.000000	5.73559e-09	1.000000
rad37	5.31557e-09	1.000000	5.31557e-09	1.000000
rad30	4.34562e-09	1.000000	4.34562e-09	1.000000
PAH9+H	2.91202e-10	1.000000	2.91202e-10	1.000000
rad38	1.24178e-10	1.000000	1.24178e-10	1.000000
rad60syn	1.96290e-11	1.000000	1.96290e-11	1.000000
rad60anti	9.61777e-12	1.000000	9.61777e-12	1.000000
PAH3+H	8.20481e-12	1.000000	8.20481e-12	1.000000
rad46	7.54709e-12	1.000000	7.54709e-12	1.000000
PAH10+CH3	7.32916e-12	1.000000	7.32916e-12	1.000000
rad59	1.68948e-12	1.000000	1.68948e-12	1.000000
PhcycC3H3_A+H	8.34926e-13	1.000000	8.34926e-13	1.000000
Benzene+cycloprop-2-enylidene	5.28015e-13	1.000000	5.28015e-13	1.000000
rad43	3.32593e-13	1.000000	3.32593e-13	1.000000
rad54	2.71678e-13	1.000000	2.71678e-13	1.000000
rad62	7.18916e-14	1.000000	7.18916e-14	1.000000
rad50	5.34248e-14	1.000000	5.34248e-14	1.000000
rad70	4.52036e-15	1.000000	4.52036e-15	1.000000
rad55	1.99187e-15	1.000000	1.99187e-15	1.000000
PAH1+H	9.26902e-16	1.000000	9.26902e-16	1.000000
Phenyl+cycC3H4	7.87809e-16	1.000000	0.000000	1.000000
rad52	3.56973e-16	1.000000	3.56973e-16	1.000000
rad58	1.11992e-16	1.000000	1.11992e-16	1.000000
rad51	9.25595e-17	1.000000	9.25595e-17	1.000000
rad34	4.90706e-17	1.000000	4.90706e-17	1.000000
rad41	5.95426e-18	1.000000	5.95426e-18	1.000000
rad42	5.64287e-18	1.000000	5.64287e-18	1.000000
rad65	1.88240e-18	1.000000	1.88240e-18	1.000000
PhcycC3H3_B+H	2.38334e-19	1.000000	2.38334e-19	1.000000
Benzene+cycloprop-1-enylidene	1.03290e-23	1.000000	1.03290e-23	1.000000
rad53	5.56944e-24	1.000000	5.56944e-24	1.000000
rad64	3.39556e-26	1.000000	3.39556e-26	1.000000
rad61	5.68423e-32	1.000000	5.68423e-32	1.000000
rad6	3.36678e-32	1.000000	3.36678e-32	1.000000

rad26	1.34539e-32	1.00000	1.34539e-32	1.00000
rad47	9.65474e-33	1.00000	9.65474e-33	1.00000
rad28	5.12044e-33	1.00000	5.12044e-33	1.00000
rad2	5.10202e-35	1.00000	5.10202e-35	1.00000
rad56	2.32702e-35	1.00000	2.32702e-35	1.00000
rad14	3.87235e-36	1.00000	3.87235e-36	1.00000
rad1	3.24742e-36	1.00000	3.24742e-36	1.00000
rad10	2.67893e-36	1.00000	2.67893e-36	1.00000
rad7	2.43911e-36	1.00000	2.43911e-36	1.00000
rad25	1.86939e-36	1.00000	1.86939e-36	1.00000
rad19anti	1.14994e-36	1.00000	1.14994e-36	1.00000
rad11	6.03186e-37	1.00000	6.03186e-37	1.00000
rad3	5.30525e-37	1.00000	5.30525e-37	1.00000
rad27	3.85166e-37	1.00000	3.85166e-37	1.00000
rad4	2.68393e-37	1.00000	2.68393e-37	1.00000
rad13	1.35028e-38	1.00000	1.35028e-38	1.00000
rad9	1.00122e-38	1.00000	1.00122e-38	1.00000
rad5	1.38264e-39	1.00000	1.38264e-39	1.00000
rad31	5.25668e-41	1.00000	5.25668e-41	1.00000
rad33	4.33945e-41	1.00000	4.33945e-41	1.00000
rad15	4.36837e-42	1.00000	4.36837e-42	1.00000
rad68syn	8.35689e-43	1.00000	8.35689e-43	1.00000
rad68anti	7.12848e-43	1.00000	7.12848e-43	1.00000
rad20	1.36018e-43	1.00000	1.36018e-43	1.00000
rad21	1.09330e-43	1.00000	1.09330e-43	1.00000
rad12	1.46945e-45	1.00000	1.46945e-45	1.00000
rad18	1.46660e-45	1.00000	1.46660e-45	1.00000
rad19syn	3.07655e-46	1.00000	3.07655e-46	1.00000
rad23	2.19695e-47	1.00000	2.19695e-47	1.00000
rad22	6.98471e-48	1.00000	6.98471e-48	1.00000
rad24	2.36076e-49	1.00000	2.36076e-49	1.00000
rad45	1.63542e-49	1.00000	1.63542e-49	1.00000
rad36	1.00141e-50	1.00000	1.00141e-50	1.00000
rad73	9.69702e-51	1.00000	9.69702e-51	1.00000
rad40syn	2.86238e-51	1.00000	2.86238e-51	1.00000
rad40anti	2.34562e-51	1.00000	2.34562e-51	1.00000
PAH8+H	1.67105e-55	1.00000	1.67105e-55	1.00000
rad71	3.35676e-59	1.00000	3.35676e-59	1.00000
rad8	1.06794e-66	1.00000	1.06794e-66	1.00000

0.100000000E-06 Pa, 80.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.17084e-16 (1.00)	4.17084e-16 (1.00)
Formation of rad19	4.17084e-16 (1.000)	4.17084e-16 (1.000)
H-abstraction to cyc2enyl	8.98751e-27 (2.15e-11)	8.98751e-27 (2.15e-11)
H-abstraction to cyclenyl	4.00120e-36 (9.59e-21)	4.00120e-36 (9.59e-21)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999747	0.999747	0.999747	0.999747
PhCHCCH2+H	0.000240278	0.999987	0.000240278	0.999987
PhCCH+CH3	4.18618e-06	0.999991	4.18618e-06	0.999991
C2H2+PhCH2	3.03335e-06	0.999994	3.03335e-06	0.999994
PhCCCH3+H	2.37733e-06	0.999997	2.37733e-06	0.999997
Ph+MeAc	1.80101e-06	0.999999	1.80101e-06	0.999999
rad67	5.42408e-07	0.999999	5.42408e-07	0.999999
rad35	2.38874e-07	0.999999	2.38874e-07	0.999999
Ph+Allene	1.63686e-07	1.000000	1.63686e-07	1.000000
PAH7+H	2.10959e-08	1.000000	2.10959e-08	1.000000
PhCH2CCH+H	2.05146e-08	1.000000	2.05146e-08	1.000000
rad39	5.95207e-09	1.000000	5.95207e-09	1.000000
rad37	5.52806e-09	1.000000	5.52806e-09	1.000000
rad30	4.47786e-09	1.000000	4.47786e-09	1.000000
PAH9+H	3.02716e-10	1.000000	3.02716e-10	1.000000
rad38	1.29567e-10	1.000000	1.29567e-10	1.000000
Benzene+cycloprop-2-enylidene	2.15484e-11	1.000000	2.15484e-11	1.000000
rad60syn	2.04685e-11	1.000000	2.04685e-11	1.000000
rad60anti	1.00397e-11	1.000000	1.00397e-11	1.000000
PAH3+H	8.68358e-12	1.000000	8.68358e-12	1.000000
PAH10+CH3	7.94154e-12	1.000000	7.94154e-12	1.000000
rad46	7.89977e-12	1.000000	7.89977e-12	1.000000
rad59	1.78410e-12	1.000000	1.78410e-12	1.000000
PhcycC3H3_A+H	1.01061e-12	1.000000	1.01061e-12	1.000000
rad43	3.57097e-13	1.000000	3.57097e-13	1.000000
rad54	2.94055e-13	1.000000	2.94055e-13	1.000000
rad62	7.73784e-14	1.000000	7.73784e-14	1.000000
rad50	5.70980e-14	1.000000	5.70980e-14	1.000000
rad70	5.01449e-15	1.000000	5.01449e-15	1.000000

rad55	2.21137e-15	1.000000	2.21137e-15	1.000000
Phenyl+cycC3H4	1.32430e-15	1.000000	0.000000	1.000000
PAH1+H	1.07021e-15	1.000000	1.07021e-15	1.000000
rad52	3.87617e-16	1.000000	3.87617e-16	1.000000
rad58	1.25561e-16	1.000000	1.25561e-16	1.000000
rad51	1.02472e-16	1.000000	1.02472e-16	1.000000
rad34	5.67860e-17	1.000000	5.67860e-17	1.000000
rad41	7.33020e-18	1.000000	7.33020e-18	1.000000
rad42	6.74822e-18	1.000000	6.74822e-18	1.000000
rad65	2.10442e-18	1.000000	2.10442e-18	1.000000
PhcycC3H3_B+H	1.96138e-18	1.000000	1.96138e-18	1.000000
Benzene+cycloprop-1-enylidene	9.59328e-21	1.000000	9.59328e-21	1.000000
rad53	4.18956e-23	1.000000	4.18956e-23	1.000000
rad64	5.09107e-25	1.000000	5.09107e-25	1.000000
rad61	8.41954e-30	1.000000	8.41954e-30	1.000000
rad6	2.41419e-32	1.000000	2.41419e-32	1.000000
rad56	1.31867e-32	1.000000	1.31867e-32	1.000000
rad26	1.11560e-32	1.000000	1.11560e-32	1.000000
rad47	8.54859e-33	1.000000	8.54859e-33	1.000000
rad28	4.08646e-33	1.000000	4.08646e-33	1.000000
rad68syn	1.87136e-34	1.000000	1.87136e-34	1.000000
rad68anti	1.57600e-34	1.000000	1.57600e-34	1.000000
rad2	5.15702e-35	1.000000	5.15702e-35	1.000000
rad14	3.41188e-36	1.000000	3.41188e-36	1.000000
rad1	3.29110e-36	1.000000	3.29110e-36	1.000000
rad10	2.64073e-36	1.000000	2.64073e-36	1.000000
rad7	1.75141e-36	1.000000	1.75141e-36	1.000000
rad25	1.67022e-36	1.000000	1.67022e-36	1.000000
rad19anti	1.65192e-36	1.000000	1.65192e-36	1.000000
rad3	5.57338e-37	1.000000	5.57338e-37	1.000000
rad11	4.34323e-37	1.000000	4.34323e-37	1.000000
rad27	3.46030e-37	1.000000	3.46030e-37	1.000000
rad4	2.82129e-37	1.000000	2.82129e-37	1.000000
rad13	9.70347e-39	1.000000	9.70347e-39	1.000000
rad9	9.63882e-39	1.000000	9.63882e-39	1.000000
rad5	1.14652e-39	1.000000	1.14652e-39	1.000000
rad31	6.77597e-41	1.000000	6.77597e-41	1.000000
rad33	3.54952e-41	1.000000	3.54952e-41	1.000000
rad15	4.20956e-42	1.000000	4.20956e-42	1.000000
rad20	1.33943e-43	1.000000	1.33943e-43	1.000000
rad21	1.08229e-43	1.000000	1.08229e-43	1.000000
rad12	1.66657e-45	1.000000	1.66657e-45	1.000000
rad18	1.36629e-45	1.000000	1.36629e-45	1.000000
rad19syn	5.56519e-46	1.000000	5.56519e-46	1.000000
rad23	2.22631e-47	1.000000	2.22631e-47	1.000000
rad22	6.26499e-48	1.000000	6.26499e-48	1.000000
rad73	1.03568e-48	1.000000	1.03568e-48	1.000000
rad24	2.55634e-49	1.000000	2.55634e-49	1.000000
rad40syn	2.29075e-49	1.000000	2.29075e-49	1.000000
rad40anti	1.86932e-49	1.000000	1.86932e-49	1.000000
rad45	1.75043e-49	1.000000	1.75043e-49	1.000000
rad36	1.07163e-50	1.000000	1.07163e-50	1.000000
PAH8+H	1.56151e-53	1.000000	1.56151e-53	1.000000
rad71	3.88539e-57	1.000000	3.88539e-57	1.000000
rad8	1.28435e-66	1.000000	1.28435e-66	1.000000

0.100000000E-06 Pa, 90.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.74016e-16 (1.00)	7.74016e-16 (1.00)
Formation of rad19	7.74016e-16 (1.000)	7.74016e-16 (1.000)
H-abstraction to cyc2enyl	2.91736e-25 (3.77e-10)	2.91736e-25 (3.77e-10)
H-abstraction to cyclenyl	1.47814e-33 (1.91e-18)	1.47814e-33 (1.91e-18)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999741	0.999741	0.999741	0.999741
PhCHCCH2+H	0.000245933	0.999987	0.000245933	0.999987
PhCCH+CH3	4.29301e-06	0.999991	4.29301e-06	0.999991
C2H2+PhCH2	3.12644e-06	0.999994	3.12644e-06	0.999994
PhCCCH3+H	2.44411e-06	0.999997	2.44411e-06	0.999997
Ph+MeAc	1.86289e-06	0.999999	1.86289e-06	0.999999
rad67	5.60078e-07	0.999999	5.60078e-07	0.999999
rad35	2.46332e-07	0.999999	2.46332e-07	0.999999
Ph+Allene	1.71280e-07	1.000000	1.71280e-07	1.000000
PAH7+H	2.19315e-08	1.000000	2.19315e-08	1.000000
PhCH2CCH+H	2.16239e-08	1.000000	2.16239e-08	1.000000
rad39	6.18834e-09	1.000000	6.18834e-09	1.000000
rad37	5.76057e-09	1.000000	5.76057e-09	1.000000

rad30	4.62113e-09	1.000000	4.62113e-09	1.000000
Benzene+cycloprop-2-enylidene	3.76912e-10	1.000000	3.76912e-10	1.000000
PAH9+H	3.15328e-10	1.000000	3.15328e-10	1.000000
rad38	1.35501e-10	1.000000	1.35501e-10	1.000000
rad60syn	2.13909e-11	1.000000	2.13909e-11	1.000000
rad60anti	1.05039e-11	1.000000	1.05039e-11	1.000000
PAH3+H	9.21902e-12	1.000000	9.21902e-12	1.000000
PAH10+CH3	8.64384e-12	1.000000	8.64384e-12	1.000000
rad46	8.28938e-12	1.000000	8.28938e-12	1.000000
rad59	1.88961e-12	1.000000	1.88961e-12	1.000000
PhcycC3H3_A+H	1.23243e-12	1.000000	1.23243e-12	1.000000
rad43	3.84868e-13	1.000000	3.84868e-13	1.000000
rad54	3.19699e-13	1.000000	3.19699e-13	1.000000
rad62	8.36058e-14	1.000000	8.36058e-14	1.000000
rad50	6.12578e-14	1.000000	6.12578e-14	1.000000
rad70	5.59583e-15	1.000000	5.59583e-15	1.000000
rad55	2.46957e-15	1.000000	2.46957e-15	1.000000
Phenyl+cycC3H4	2.14284e-15	1.000000	0.00000	1.000000
PAH1+H	1.24557e-15	1.000000	1.24557e-15	1.000000
rad52	4.22957e-16	1.000000	4.22957e-16	1.000000
rad58	1.41714e-16	1.000000	1.41714e-16	1.000000
rad51	1.14155e-16	1.000000	1.14155e-16	1.000000
rad34	6.62496e-17	1.000000	6.62496e-17	1.000000
PhcycC3H3_B+H	1.04002e-17	1.000000	1.04002e-17	1.000000
rad41	9.07988e-18	1.000000	9.07988e-18	1.000000
rad42	8.13587e-18	1.000000	8.13587e-18	1.000000
rad65	2.36870e-18	1.000000	2.36870e-18	1.000000
Benzene+cycloprop-1-enylidene	1.90970e-18	1.000000	1.90970e-18	1.000000
rad53	2.02296e-22	1.000000	2.02296e-22	1.000000
rad64	4.24438e-24	1.000000	4.24438e-24	1.000000
rad61	4.05748e-28	1.000000	4.05748e-28	1.000000
rad56	1.28600e-30	1.000000	1.28600e-30	1.000000
rad68syn	2.85402e-32	1.000000	2.85402e-32	1.000000
rad68anti	2.36878e-32	1.000000	2.36878e-32	1.000000
rad6	1.82413e-32	1.000000	1.82413e-32	1.000000
rad26	9.50185e-33	1.000000	9.50185e-33	1.000000
rad47	7.75924e-33	1.000000	7.75924e-33	1.000000
rad28	3.36834e-33	1.000000	3.36834e-33	1.000000
rad2	5.44068e-35	1.000000	5.44068e-35	1.000000
rad1	3.48231e-36	1.000000	3.48231e-36	1.000000
rad14	3.08512e-36	1.000000	3.08512e-36	1.000000
rad10	2.77891e-36	1.000000	2.77891e-36	1.000000
rad19anti	2.57295e-36	1.000000	2.57295e-36	1.000000
rad25	1.53241e-36	1.000000	1.53241e-36	1.000000
rad7	1.32529e-36	1.000000	1.32529e-36	1.000000
rad3	6.14744e-37	1.000000	6.14744e-37	1.000000
rad11	3.29662e-37	1.000000	3.29662e-37	1.000000
rad27	3.19458e-37	1.000000	3.19458e-37	1.000000
rad4	3.11405e-37	1.000000	3.11405e-37	1.000000
rad9	9.84354e-39	1.000000	9.84354e-39	1.000000
rad13	7.34903e-39	1.000000	7.34903e-39	1.000000
rad73	1.45329e-39	1.000000	1.45329e-39	1.000000
rad5	9.80190e-40	1.000000	9.80190e-40	1.000000
rad31	9.34533e-41	1.000000	9.34533e-41	1.000000
rad33	3.08763e-41	1.000000	3.08763e-41	1.000000
rad15	4.30288e-42	1.000000	4.30288e-42	1.000000
rad20	1.36436e-43	1.000000	1.36436e-43	1.000000
rad21	1.10875e-43	1.000000	1.10875e-43	1.000000
rad12	1.98314e-45	1.000000	1.98314e-45	1.000000
rad18	1.31033e-45	1.000000	1.31033e-45	1.000000
rad19syn	1.05530e-45	1.000000	1.05530e-45	1.000000
rad40syn	5.28600e-47	1.000000	5.28600e-47	1.000000
rad40anti	4.29340e-47	1.000000	4.29340e-47	1.000000
rad23	2.52912e-47	1.000000	2.52912e-47	1.000000
rad22	5.77551e-48	1.000000	5.77551e-48	1.000000
rad24	2.88496e-49	1.000000	2.88496e-49	1.000000
rad45	2.11025e-49	1.000000	2.11025e-49	1.000000
rad36	1.29186e-50	1.000000	1.29186e-50	1.000000
PAH8+H	4.16081e-51	1.000000	4.16081e-51	1.000000
rad71	1.29280e-54	1.000000	1.29280e-54	1.000000
rad8	1.61985e-66	1.000000	1.61985e-66	1.000000

0.100000000E-06 Pa, 100.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.28255e-15 (1.00)	1.28255e-15 (1.00)
Formation of rad19	1.28255e-15 (1.000)	1.28255e-15 (1.000)
H-abstraction to cyc2enyl	4.68359e-24 (3.65e-09)	4.68359e-24 (3.65e-09)
H-abstraction to cyclenyl	1.66242e-31 (1.30e-16)	1.66242e-31 (1.30e-16)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999735	0.999735	0.999735	0.999735
PhCHCCH2+H	0.000251988	0.999987	0.000251988	0.999987
PhCCH+CH3	4.40736e-06	0.999991	4.40736e-06	0.999991
C2H2+PhCH2	3.22690e-06	0.999995	3.22690e-06	0.999995
PhCCCH3+H	2.51589e-06	0.999997	2.51589e-06	0.999997
Ph+MeAc	1.92987e-06	0.999999	1.92987e-06	0.999999
rad67	5.79181e-07	1.000000	5.79181e-07	1.000000
rad35	2.54382e-07	1.000000	2.54382e-07	1.000000
Ph+Allene	1.79627e-07	1.000000	1.79627e-07	1.000000
PhCH2CCH+H	2.28536e-08	1.000000	2.28536e-08	1.000000
PAH7+H	2.28426e-08	1.000000	2.28426e-08	1.000000
rad39	6.44590e-09	1.000000	6.44590e-09	1.000000
rad37	6.01471e-09	1.000000	6.01471e-09	1.000000
rad30	4.77610e-09	1.000000	4.77610e-09	1.000000
Benzene+cycloprop-2-enylidene	3.65179e-09	1.000000	3.65179e-09	1.000000
PAH9+H	3.29134e-10	1.000000	3.29134e-10	1.000000
rad38	1.42033e-10	1.000000	1.42033e-10	1.000000
rad60syn	2.24039e-11	1.000000	2.24039e-11	1.000000
rad60anti	1.10144e-11	1.000000	1.10144e-11	1.000000
PAH3+H	9.81802e-12	1.000000	9.81802e-12	1.000000
PAH10+CH3	9.45058e-12	1.000000	9.45058e-12	1.000000
rad46	8.71962e-12	1.000000	8.71962e-12	1.000000
rad59	2.00730e-12	1.000000	2.00730e-12	1.000000
PhcycC3H3_A+H	1.51348e-12	1.000000	1.51348e-12	1.000000
rad43	4.16368e-13	1.000000	4.16368e-13	1.000000
rad54	3.49137e-13	1.000000	3.49137e-13	1.000000
rad62	9.06791e-14	1.000000	9.06791e-14	1.000000
rad50	6.59742e-14	1.000000	6.59742e-14	1.000000
rad70	6.28192e-15	1.000000	6.28192e-15	1.000000
Phenyl+cycC3H4	3.36905e-15	1.000000	0.000000	1.000000
rad55	2.77429e-15	1.000000	2.77429e-15	1.000000
PAH1+H	1.46129e-15	1.000000	1.46129e-15	1.000000
rad52	4.63813e-16	1.000000	4.63813e-16	1.000000
rad58	1.61019e-16	1.000000	1.61019e-16	1.000000
Benzene+cycloprop-1-enylidene	1.29619e-16	1.000000	1.29619e-16	1.000000
rad51	1.27976e-16	1.000000	1.27976e-16	1.000000
rad34	7.79214e-17	1.000000	7.79214e-17	1.000000
PhcycC3H3_B+H	4.09123e-17	1.000000	4.09123e-17	1.000000
rad41	1.13186e-17	1.000000	1.13186e-17	1.000000
rad42	9.88346e-18	1.000000	9.88346e-18	1.000000
rad65	2.68465e-18	1.000000	2.68465e-18	1.000000
rad53	7.24662e-22	1.000000	7.24662e-22	1.000000
rad64	2.36968e-23	1.000000	2.36968e-23	1.000000
rad61	9.04334e-27	1.000000	9.04334e-27	1.000000
rad56	5.01134e-29	1.000000	5.01134e-29	1.000000
rad68syn	1.54810e-30	1.000000	1.54810e-30	1.000000
rad68anti	1.27120e-30	1.000000	1.27120e-30	1.000000
rad6	1.43557e-32	1.000000	1.43557e-32	1.000000
rad26	8.25861e-33	1.000000	8.25861e-33	1.000000
rad47	7.18611e-33	1.000000	7.18611e-33	1.000000
rad28	2.84459e-33	1.000000	2.84459e-33	1.000000
rad2	6.01348e-35	1.000000	6.01348e-35	1.000000
rad19anti	4.30712e-36	1.000000	4.30712e-36	1.000000
rad1	3.86135e-36	1.000000	3.86135e-36	1.000000
rad10	3.11006e-36	1.000000	3.11006e-36	1.000000
rad14	2.84700e-36	1.000000	2.84700e-36	1.000000
rad40syn	1.99128e-36	1.000000	1.99128e-36	1.000000
rad40anti	1.51571e-36	1.000000	1.51571e-36	1.000000
rad25	1.43562e-36	1.000000	1.43562e-36	1.000000
rad7	1.04461e-36	1.000000	1.04461e-36	1.000000
rad73	7.52968e-37	1.000000	7.52968e-37	1.000000
rad3	7.40531e-37	1.000000	7.40531e-37	1.000000
rad4	3.75417e-37	1.000000	3.75417e-37	1.000000
rad27	3.01339e-37	1.000000	3.01339e-37	1.000000
rad11	2.60720e-37	1.000000	2.60720e-37	1.000000
rad9	1.05375e-38	1.000000	1.05375e-38	1.000000
rad13	5.79807e-39	1.000000	5.79807e-39	1.000000
rad5	8.57546e-40	1.000000	8.57546e-40	1.000000
rad31	1.36779e-40	1.000000	1.36779e-40	1.000000
rad33	2.82050e-41	1.000000	2.82050e-41	1.000000
rad15	4.61033e-42	1.000000	4.61033e-42	1.000000
rad20	1.42817e-43	1.000000	1.42817e-43	1.000000
rad21	1.16777e-43	1.000000	1.16777e-43	1.000000
rad12	2.45644e-45	1.000000	2.45644e-45	1.000000
rad19syn	2.08907e-45	1.000000	2.08907e-45	1.000000
rad18	1.28566e-45	1.000000	1.28566e-45	1.000000
rad23	3.20904e-47	1.000000	3.20904e-47	1.000000

rad22	5.43760e-48	1.00000	5.43760e-48	1.00000
PAH8+H	2.22239e-48	1.00000	2.22239e-48	1.00000
rad24	3.36890e-49	1.00000	3.36890e-49	1.00000
rad45	2.83381e-49	1.00000	2.83381e-49	1.00000
rad36	1.73501e-50	1.00000	1.73501e-50	1.00000
rad71	8.99607e-52	1.00000	8.99607e-52	1.00000
rad8	2.12436e-66	1.00000	2.12436e-66	1.00000

0.100000000E-06 Pa, 110.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.95524e-15 (1.00)	1.95524e-15 (1.00)
Formation of rad19	1.95524e-15 (1.000)	1.95524e-15 (1.000)
H-abstraction to cyc2enyl	4.50936e-23 (2.31e-08)	4.50936e-23 (2.31e-08)
H-abstraction to cyclenyl	7.87782e-30 (4.03e-15)	7.87782e-30 (4.03e-15)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999728	0.999728	0.999728	0.999728
PhCHCCH2+H	0.000258470	0.999986	0.000258470	0.999986
PhCCH+CH3	4.52973e-06	0.999991	4.52973e-06	0.999991
C2H2+PhCH2	3.33534e-06	0.999994	3.33534e-06	0.999994
PhCCCH3+H	2.59304e-06	0.999997	2.59304e-06	0.999997
Ph+MeAc	2.00241e-06	0.999999	2.00241e-06	0.999999
rad67	5.99841e-07	1.000000	5.99841e-07	1.000000
rad35	2.63077e-07	1.000000	2.63077e-07	1.000000
Ph+Allene	1.88813e-07	1.000000	1.88813e-07	1.000000
PhCH2CCH+H	2.42192e-08	1.000000	2.42192e-08	1.000000
PAH7+H	2.38371e-08	1.000000	2.38371e-08	1.000000
Benzene+cycloprop-2-enylidene	2.30629e-08	1.000000	2.30629e-08	1.000000
rad39	6.72692e-09	1.000000	6.72692e-09	1.000000
rad37	6.29278e-09	1.000000	6.29278e-09	1.000000
rad30	4.94382e-09	1.000000	4.94382e-09	1.000000
PAH9+H	3.44262e-10	1.000000	3.44262e-10	1.000000
rad38	1.49234e-10	1.000000	1.49234e-10	1.000000
rad60syn	2.35177e-11	1.000000	2.35177e-11	1.000000
rad60anti	1.15765e-11	1.000000	1.15765e-11	1.000000
PAH3+H	1.04898e-11	1.000000	1.04898e-11	1.000000
PAH10+CH3	1.03809e-11	1.000000	1.03809e-11	1.000000
rad46	9.19554e-12	1.000000	9.19554e-12	1.000000
rad59	2.13885e-12	1.000000	2.13885e-12	1.000000
PhcycC3H3_A+H	1.87147e-12	1.000000	1.87147e-12	1.000000
rad43	4.52200e-13	1.000000	4.52200e-13	1.000000
rad54	3.83059e-13	1.000000	3.83059e-13	1.000000
rad62	9.87359e-14	1.000000	9.87359e-14	1.000000
rad50	7.13397e-14	1.000000	7.13397e-14	1.000000
rad70	7.09592e-15	1.000000	7.09592e-15	1.000000
Phenyl+cycC3H4	5.18630e-15	1.000000	0.000000	1.000000
Benzene+cycloprop-1-enylidene	4.02908e-15	1.000000	4.02908e-15	1.000000
rad55	3.13590e-15	1.000000	3.13590e-15	1.000000
PAH1+H	1.72857e-15	1.000000	1.72857e-15	1.000000
rad52	5.11263e-16	1.000000	5.11263e-16	1.000000
rad58	1.84232e-16	1.000000	1.84232e-16	1.000000
rad51	1.44427e-16	1.000000	1.44427e-16	1.000000
PhcycC3H3_B+H	1.30407e-16	1.000000	1.30407e-16	1.000000
rad34	9.24233e-17	1.000000	9.24233e-17	1.000000
rad41	1.42061e-17	1.000000	1.42061e-17	1.000000
rad42	1.20969e-17	1.000000	1.20969e-17	1.000000
rad65	3.06485e-18	1.000000	3.06485e-18	1.000000
rad53	2.11093e-21	1.000000	2.11093e-21	1.000000
rad64	9.96387e-23	1.000000	9.96387e-23	1.000000
rad61	1.15972e-25	1.000000	1.15972e-25	1.000000
rad56	1.00969e-27	1.000000	1.00969e-27	1.000000
rad68syn	4.04803e-29	1.000000	4.04803e-29	1.000000
rad68anti	3.29762e-29	1.000000	3.29762e-29	1.000000
rad6	1.16840e-32	1.000000	1.16840e-32	1.000000
rad26	7.29270e-33	1.000000	7.29270e-33	1.000000
rad47	6.77037e-33	1.000000	6.77037e-33	1.000000
rad28	2.44795e-33	1.000000	2.44795e-33	1.000000
rad40syn	3.23201e-34	1.000000	3.23201e-34	1.000000
rad40anti	2.54378e-34	1.000000	2.54378e-34	1.000000
rad2	7.26995e-35	1.000000	7.26995e-35	1.000000
rad73	5.48405e-35	1.000000	5.48405e-35	1.000000
rad19anti	7.70499e-36	1.000000	7.70499e-36	1.000000
rad1	4.68468e-36	1.000000	4.68468e-36	1.000000
rad10	3.73207e-36	1.000000	3.73207e-36	1.000000
rad14	2.67104e-36	1.000000	2.67104e-36	1.000000
rad25	1.36801e-36	1.000000	1.36801e-36	1.000000
rad3	8.75575e-37	1.000000	8.75575e-37	1.000000

rad7	8.51587e-37	1.00000	8.51587e-37	1.00000
rad4	4.44267e-37	1.00000	4.44267e-37	1.00000
rad27	2.89291e-37	1.00000	2.89291e-37	1.00000
rad11	2.13321e-37	1.00000	2.13321e-37	1.00000
rad9	1.17315e-38	1.00000	1.17315e-38	1.00000
rad13	4.73145e-39	1.00000	4.73145e-39	1.00000
rad5	7.63885e-40	1.00000	7.63885e-40	1.00000
rad31	2.11318e-40	1.00000	2.11318e-40	1.00000
rad33	2.68245e-41	1.00000	2.68245e-41	1.00000
rad15	5.13735e-42	1.00000	5.13735e-42	1.00000
rad20	1.52952e-43	1.00000	1.52952e-43	1.00000
rad21	1.25888e-43	1.00000	1.25888e-43	1.00000
rad19syn	4.31564e-45	1.00000	4.31564e-45	1.00000
rad12	3.15075e-45	1.00000	3.15075e-45	1.00000
rad18	1.28508e-45	1.00000	1.28508e-45	1.00000
PAH8+H	1.08851e-45	1.00000	1.08851e-45	1.00000
rad23	4.52531e-47	1.00000	4.52531e-47	1.00000
rad22	5.20592e-48	1.00000	5.20592e-48	1.00000
rad71	5.50109e-49	1.00000	5.50109e-49	1.00000
rad45	4.24562e-49	1.00000	4.24562e-49	1.00000
rad24	4.05123e-49	1.00000	4.05123e-49	1.00000
rad36	2.60019e-50	1.00000	2.60019e-50	1.00000
rad8	2.88050e-66	1.00000	2.88050e-66	1.00000

0.100000000E-06 Pa, 120.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.79817e-15 (1.00)	2.79817e-15 (1.00)
Formation of rad19	2.79817e-15 (1.000)	2.79817e-15 (1.000)
H-abstraction to cyc2enyl	2.96039e-22 (1.06e-07)	2.96039e-22 (1.06e-07)
H-abstraction to cyclenyl	1.95323e-28 (6.98e-14)	1.95323e-28 (6.98e-14)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999721	0.999721	0.999721	0.999721
PhCHCCH2+H	0.000265418	0.999986	0.000265418	0.999986
PhCCH+CH3	4.66083e-06	0.999991	4.66083e-06	0.999991
C2H2+PhCH2	3.45258e-06	0.999994	3.45258e-06	0.999994
PhCCCH3+H	2.67609e-06	0.999997	2.67609e-06	0.999997
Ph+MeAc	2.08110e-06	0.999999	2.08110e-06	0.999999
rad67	6.22225e-07	1.000000	6.22225e-07	1.000000
rad35	2.72481e-07	1.000000	2.72481e-07	1.000000
Ph+Allene	1.98950e-07	1.000000	1.98950e-07	1.000000
Benzene+cycloprop-2-enylidene	1.05797e-07	1.000000	1.05797e-07	1.000000
PhCH2CCH+H	2.57407e-08	1.000000	2.57407e-08	1.000000
PAH7+H	2.49248e-08	1.000000	2.49248e-08	1.000000
rad39	7.03419e-09	1.000000	7.03419e-09	1.000000
rad37	6.59774e-09	1.000000	6.59774e-09	1.000000
rad30	5.12566e-09	1.000000	5.12566e-09	1.000000
PAH9+H	3.60882e-10	1.000000	3.60882e-10	1.000000
rad38	1.57196e-10	1.000000	1.57196e-10	1.000000
rad60syn	2.47458e-11	1.000000	2.47458e-11	1.000000
rad60anti	1.21972e-11	1.000000	1.21972e-11	1.000000
PAH10+CH3	1.14592e-11	1.000000	1.14592e-11	1.000000
PAH3+H	1.12460e-11	1.000000	1.12460e-11	1.000000
rad46	9.72362e-12	1.000000	9.72362e-12	1.000000
PhcycC3H3_A+H	2.33055e-12	1.000000	2.33055e-12	1.000000
rad59	2.28645e-12	1.000000	2.28645e-12	1.000000
rad43	4.93137e-13	1.000000	4.93137e-13	1.000000
rad54	4.22356e-13	1.000000	4.22356e-13	1.000000
rad62	1.07952e-13	1.000000	1.07952e-13	1.000000
rad50	7.74736e-14	1.000000	7.74736e-14	1.000000
Benzene+cycloprop-1-enylidene	6.98038e-14	1.000000	6.98038e-14	1.000000
rad70	8.06832e-15	1.000000	8.06832e-15	1.000000
Phenyl+cycC3H4	7.86468e-15	1.000000	0.000000	1.000000
rad55	3.56798e-15	1.000000	3.56798e-15	1.000000
PAH1+H	2.06260e-15	1.000000	2.06260e-15	1.000000
rad52	5.66713e-16	1.000000	5.66713e-16	1.000000
PhcycC3H3_B+H	3.56809e-16	1.000000	3.56809e-16	1.000000
rad58	2.12355e-16	1.000000	2.12355e-16	1.000000
rad51	1.64161e-16	1.000000	1.64161e-16	1.000000
rad34	1.10600e-16	1.000000	1.10600e-16	1.000000
rad41	1.79639e-17	1.000000	1.79639e-17	1.000000
rad42	1.49203e-17	1.000000	1.49203e-17	1.000000
rad65	3.52612e-18	1.000000	3.52612e-18	1.000000
rad53	5.31328e-21	1.000000	5.31328e-21	1.000000
rad64	3.40977e-22	1.000000	3.40977e-22	1.000000
rad61	9.89208e-25	1.000000	9.89208e-25	1.000000
rad56	1.24744e-26	1.000000	1.24744e-26	1.000000

rad68syn	6.17070e-28	1.00000	6.17070e-28	1.00000
rad68anti	4.99495e-28	1.00000	4.99495e-28	1.00000
rad40syn	1.64573e-32	1.00000	1.64573e-32	1.00000
rad40anti	1.29414e-32	1.00000	1.29414e-32	1.00000
rad6	9.79606e-33	1.00000	9.79606e-33	1.00000
rad26	6.52219e-33	1.00000	6.52219e-33	1.00000
rad47	6.47610e-33	1.00000	6.47610e-33	1.00000
rad28	2.13846e-33	1.00000	2.13846e-33	1.00000
rad73	1.92333e-33	1.00000	1.92333e-33	1.00000
rad2	9.20564e-35	1.00000	9.20564e-35	1.00000
PAH8+H	4.13571e-35	1.00000	4.13571e-35	1.00000
rad19anti	1.46733e-35	1.00000	1.46733e-35	1.00000
rad1	5.95498e-36	1.00000	5.95498e-36	1.00000
rad10	4.71201e-36	1.00000	4.71201e-36	1.00000
rad14	2.54078e-36	1.00000	2.54078e-36	1.00000
rad25	1.32229e-36	1.00000	1.32229e-36	1.00000
rad3	1.11941e-36	1.00000	1.11941e-36	1.00000
rad7	7.15201e-37	1.00000	7.15201e-37	1.00000
rad4	5.68540e-37	1.00000	5.68540e-37	1.00000
rad27	2.81864e-37	1.00000	2.81864e-37	1.00000
rad11	1.79855e-37	1.00000	1.79855e-37	1.00000
rad9	1.35095e-38	1.00000	1.35095e-38	1.00000
rad71	1.32207e-38	1.00000	1.32207e-38	1.00000
rad13	3.97795e-39	1.00000	3.97795e-39	1.00000
rad5	6.90338e-40	1.00000	6.90338e-40	1.00000
rad31	3.43447e-40	1.00000	3.43447e-40	1.00000
rad33	2.63979e-41	1.00000	2.63979e-41	1.00000
rad15	5.92155e-42	1.00000	5.92155e-42	1.00000
rad20	1.67073e-43	1.00000	1.67073e-43	1.00000
rad21	1.38476e-43	1.00000	1.38476e-43	1.00000
rad19syn	9.31466e-45	1.00000	9.31466e-45	1.00000
rad12	4.17014e-45	1.00000	4.17014e-45	1.00000
rad18	1.30458e-45	1.00000	1.30458e-45	1.00000
rad23	7.04778e-47	1.00000	7.04778e-47	1.00000
rad22	5.05282e-48	1.00000	5.05282e-48	1.00000
rad45	7.15645e-49	1.00000	7.15645e-49	1.00000
rad24	5.00050e-49	1.00000	5.00050e-49	1.00000
rad36	4.38505e-50	1.00000	4.38505e-50	1.00000
rad8	4.02249e-66	1.00000	4.02249e-66	1.00000

0.100000000E-06 Pa, 130.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.81236e-15 (1.00)	3.81236e-15 (1.00)
Formation of rad19	3.81236e-15 (1.000)	3.81236e-15 (1.000)
H-abstraction to cyc2enyl	1.44825e-21 (3.80e-07)	1.44825e-21 (3.80e-07)
H-abstraction to cyclenyl	2.94348e-27 (7.72e-13)	2.94348e-27 (7.72e-13)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999713	0.999713	0.999713	0.999713
PhCHCCH2+H	0.000272881	0.999986	0.000272881	0.999986
PhCCH+CH3	4.80155e-06	0.999990	4.80155e-06	0.999990
C2H2+PhCH2	3.57965e-06	0.999994	3.57965e-06	0.999994
PhCCCH3+H	2.76568e-06	0.999997	2.76568e-06	0.999997
Ph+MeAc	2.16669e-06	0.999999	2.16669e-06	0.999999
rad67	6.46538e-07	0.999999	6.46538e-07	0.999999
Benzene+cycloprop-2-enylidene	3.79882e-07	1.000000	3.79882e-07	1.000000
rad35	2.82679e-07	1.000000	2.82679e-07	1.000000
Ph+Allene	2.10177e-07	1.000000	2.10177e-07	1.000000
PhCH2CCH+H	2.74426e-08	1.000000	2.74426e-08	1.000000
PAH7+H	2.61181e-08	1.000000	2.61181e-08	1.000000
rad39	7.37119e-09	1.000000	7.37119e-09	1.000000
rad37	6.93326e-09	1.000000	6.93326e-09	1.000000
rad30	5.32333e-09	1.000000	5.32333e-09	1.000000
PAH9+H	3.79203e-10	1.000000	3.79203e-10	1.000000
rad38	1.66034e-10	1.000000	1.66034e-10	1.000000
rad60syn	2.61047e-11	1.000000	2.61047e-11	1.000000
rad60anti	1.28850e-11	1.000000	1.28850e-11	1.000000
PAH10+CH3	1.27171e-11	1.000000	1.27171e-11	1.000000
PAH3+H	1.21014e-11	1.000000	1.21014e-11	1.000000
rad46	1.03119e-11	1.000000	1.03119e-11	1.000000
PhcycC3H3_A+H	2.92361e-12	1.000000	2.92361e-12	1.000000
rad59	2.45281e-12	1.000000	2.45281e-12	1.000000
Benzene+cycloprop-1-enylidene	7.72089e-13	1.000000	7.72089e-13	1.000000
rad43	5.40149e-13	1.000000	5.40149e-13	1.000000
rad54	4.68163e-13	1.000000	4.68163e-13	1.000000
rad62	1.18546e-13	1.000000	1.18546e-13	1.000000
rad50	8.45270e-14	1.000000	8.45270e-14	1.000000

Phenyl+cycC3H4	1.18041e-14	1.00000	0.00000	1.00000
rad70	9.23899e-15	1.00000	9.23899e-15	1.00000
rad55	4.08826e-15	1.00000	4.08826e-15	1.00000
PAH1+H	2.48400e-15	1.00000	2.48400e-15	1.00000
PhcycC3H3_B+H	8.71416e-16	1.00000	8.71416e-16	1.00000
rad52	6.31980e-16	1.00000	6.31980e-16	1.00000
rad58	2.46721e-16	1.00000	2.46721e-16	1.00000
rad51	1.88040e-16	1.00000	1.88040e-16	1.00000
rad34	1.33600e-16	1.00000	1.33600e-16	1.00000
rad41	2.28987e-17	1.00000	2.28987e-17	1.00000
rad42	1.85493e-17	1.00000	1.85493e-17	1.00000
rad65	4.09095e-18	1.00000	4.09095e-18	1.00000
rad53	1.20428e-20	1.00000	1.20428e-20	1.00000
rad64	1.00149e-21	1.00000	1.00149e-21	1.00000
rad61	6.20139e-24	1.00000	6.20139e-24	1.00000
rad56	1.06325e-25	1.00000	1.06325e-25	1.00000
rad68syn	6.24507e-27	1.00000	6.24507e-27	1.00000
rad68anti	5.02761e-27	1.00000	5.02761e-27	1.00000
rad40syn	4.43601e-31	1.00000	4.43601e-31	1.00000
rad40anti	3.49255e-31	1.00000	3.49255e-31	1.00000
rad73	3.97404e-32	1.00000	3.97404e-32	1.00000
rad6	8.45136e-33	1.00000	8.45136e-33	1.00000
rad47	6.28095e-33	1.00000	6.28095e-33	1.00000
rad26	5.89416e-33	1.00000	5.89416e-33	1.00000
PAH8+H	2.25812e-33	1.00000	2.25812e-33	1.00000
rad28	1.89100e-33	1.00000	1.89100e-33	1.00000
rad2	1.21991e-34	1.00000	1.21991e-34	1.00000
rad19anti	2.96678e-35	1.00000	2.96678e-35	1.00000
rad1	7.92471e-36	1.00000	7.92471e-36	1.00000
rad10	6.22935e-36	1.00000	6.22935e-36	1.00000
rad14	2.44551e-36	1.00000	2.44551e-36	1.00000
rad3	1.48817e-36	1.00000	1.48817e-36	1.00000
rad25	1.29381e-36	1.00000	1.29381e-36	1.00000
rad71	1.12266e-36	1.00000	1.12266e-36	1.00000
rad4	7.56644e-37	1.00000	7.56644e-37	1.00000
rad7	6.18117e-37	1.00000	6.18117e-37	1.00000
rad27	2.78149e-37	1.00000	2.78149e-37	1.00000
rad11	1.56068e-37	1.00000	1.56068e-37	1.00000
rad9	1.60298e-38	1.00000	1.60298e-38	1.00000
rad13	3.44189e-39	1.00000	3.44189e-39	1.00000
rad5	6.31255e-40	1.00000	6.31255e-40	1.00000
rad31	5.85926e-40	1.00000	5.85926e-40	1.00000
rad33	2.67592e-41	1.00000	2.67592e-41	1.00000
rad15	7.03337e-42	1.00000	7.03337e-42	1.00000
rad20	1.85723e-43	1.00000	1.85723e-43	1.00000
rad21	1.55080e-43	1.00000	1.55080e-43	1.00000
rad19syn	2.10397e-44	1.00000	2.10397e-44	1.00000
rad12	5.68164e-45	1.00000	5.68164e-45	1.00000
rad18	1.34210e-45	1.00000	1.34210e-45	1.00000
rad23	1.20466e-46	1.00000	1.20466e-46	1.00000
rad22	4.96075e-48	1.00000	4.96075e-48	1.00000
rad45	1.25111e-48	1.00000	1.25111e-48	1.00000
rad24	6.32087e-49	1.00000	6.32087e-49	1.00000
rad36	7.67146e-50	1.00000	7.67146e-50	1.00000
rad8	5.76906e-66	1.00000	5.76906e-66	1.00000

0.100000000E-06 Pa, 140.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.99515e-15 (1.00)	4.99515e-15 (1.00)
Formation of rad19	4.99514e-15 (1.000)	4.99514e-15 (1.000)
H-abstraction to cyc2enyl	5.62488e-21 (1.13e-06)	5.62488e-21 (1.13e-06)
H-abstraction to cyclenyl	3.00047e-26 (6.01e-12)	3.00047e-26 (6.01e-12)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999703	0.999703	0.999703	0.999703
PhCHCCH2+H	0.000280917	0.999984	0.000280917	0.999984
PhCCH+CH3	4.95294e-06	0.999989	4.95294e-06	0.999989
C2H2+PhCH2	3.71777e-06	0.999992	3.71777e-06	0.999992
PhCCCH3+H	2.86259e-06	0.999995	2.86259e-06	0.999995
Ph+MeAc	2.26007e-06	0.999998	2.26007e-06	0.999998
Benzene+cycloprop-2-enylidene	1.12607e-06	0.999999	1.12607e-06	0.999999
rad67	6.73023e-07	0.999999	6.73023e-07	0.999999
rad35	2.93770e-07	1.000000	2.93770e-07	1.000000
Ph+Allene	2.22660e-07	1.000000	2.22660e-07	1.000000
PhCH2CCH+H	2.93552e-08	1.000000	2.93552e-08	1.000000
PAH7+H	2.74321e-08	1.000000	2.74321e-08	1.000000
rad39	7.74205e-09	1.000000	7.74205e-09	1.000000

rad37	7.30375e-09	1.000000	7.30375e-09	1.000000
rad30	5.53888e-09	1.000000	5.53888e-09	1.000000
PAH9+H	3.99479e-10	1.000000	3.99479e-10	1.000000
rad38	1.75886e-10	1.000000	1.75886e-10	1.000000
rad60syn	2.76144e-11	1.000000	2.76144e-11	1.000000
PAH10+CH3	1.41941e-11	1.000000	1.41941e-11	1.000000
rad60anti	1.36504e-11	1.000000	1.36504e-11	1.000000
PAH3+H	1.30742e-11	1.000000	1.30742e-11	1.000000
rad46	1.09703e-11	1.000000	1.09703e-11	1.000000
Benzene+cycloprop-1-enylidene	6.00677e-12	1.000000	6.00677e-12	1.000000
PhcycC3H3_A+H	3.69543e-12	1.000000	3.69543e-12	1.000000
rad59	2.64125e-12	1.000000	2.64125e-12	1.000000
rad43	5.94445e-13	1.000000	5.94445e-13	1.000000
rad54	5.21921e-13	1.000000	5.21921e-13	1.000000
rad62	1.30794e-13	1.000000	1.30794e-13	1.000000
rad50	9.26897e-14	1.000000	9.26897e-14	1.000000
Phenyl+cycC3H4	1.75978e-14	1.000000	0.00000	1.000000
rad70	1.06600e-14	1.000000	1.06600e-14	1.000000
rad55	4.71987e-15	1.000000	4.71987e-15	1.000000
PAH1+H	3.02080e-15	1.000000	3.02080e-15	1.000000
PhcycC3H3_B+H	1.95210e-15	1.000000	1.95210e-15	1.000000
rad52	7.09403e-16	1.000000	7.09403e-16	1.000000
rad58	2.89095e-16	1.000000	2.89095e-16	1.000000
rad51	2.17208e-16	1.000000	2.17208e-16	1.000000
rad34	1.62990e-16	1.000000	1.62990e-16	1.000000
rad41	2.94364e-17	1.000000	2.94364e-17	1.000000
rad42	2.32499e-17	1.000000	2.32499e-17	1.000000
rad65	4.78938e-18	1.000000	4.78938e-18	1.000000
rad53	2.52919e-20	1.000000	2.52919e-20	1.000000
rad64	2.62060e-21	1.000000	2.62060e-21	1.000000
rad61	3.06689e-23	1.000000	3.06689e-23	1.000000
rad56	6.80095e-25	1.000000	6.80095e-25	1.000000
rad68syn	4.60298e-26	1.000000	4.60298e-26	1.000000
rad68anti	3.68680e-26	1.000000	3.68680e-26	1.000000
rad40syn	7.53654e-30	1.000000	7.53654e-30	1.000000
rad40anti	5.95184e-30	1.000000	5.95184e-30	1.000000
rad73	5.47778e-31	1.000000	5.47778e-31	1.000000
PAH8+H	6.68141e-32	1.000000	6.68141e-32	1.000000
rad6	7.51709e-33	1.000000	7.51709e-33	1.000000
rad47	6.17129e-33	1.000000	6.17129e-33	1.000000
rad26	5.37297e-33	1.000000	5.37297e-33	1.000000
rad28	1.68910e-33	1.000000	1.68910e-33	1.000000
rad2	1.70986e-34	1.000000	1.70986e-34	1.000000
rad19anti	6.35581e-35	1.000000	6.35581e-35	1.000000
rad71	4.16930e-35	1.000000	4.16930e-35	1.000000
rad1	1.11587e-35	1.000000	1.11587e-35	1.000000
rad10	8.65566e-36	1.000000	8.65566e-36	1.000000
rad14	2.37801e-36	1.000000	2.37801e-36	1.000000
rad3	2.06680e-36	1.000000	2.06680e-36	1.000000
rad25	1.27952e-36	1.000000	1.27952e-36	1.000000
rad4	1.05209e-36	1.000000	1.05209e-36	1.000000
rad7	5.50793e-37	1.000000	5.50793e-37	1.000000
rad27	2.77570e-37	1.000000	2.77570e-37	1.000000
rad11	1.39618e-37	1.000000	1.39618e-37	1.000000
rad9	1.95441e-38	1.000000	1.95441e-38	1.000000
rad13	3.07071e-39	1.000000	3.07071e-39	1.000000
rad31	1.04782e-39	1.000000	1.04782e-39	1.000000
rad5	5.82873e-40	1.000000	5.82873e-40	1.000000
rad33	2.78483e-41	1.000000	2.78483e-41	1.000000
rad15	8.58475e-42	1.000000	8.58475e-42	1.000000
rad20	2.09759e-43	1.000000	2.09759e-43	1.000000
rad21	1.76533e-43	1.000000	1.76533e-43	1.000000
rad19syn	4.98180e-44	1.000000	4.98180e-44	1.000000
rad12	7.95552e-45	1.000000	7.95552e-45	1.000000
rad18	1.39678e-45	1.000000	1.39678e-45	1.000000
rad23	2.24867e-46	1.000000	2.24867e-46	1.000000
rad22	4.91847e-48	1.000000	4.91847e-48	1.000000
rad45	2.48548e-48	1.000000	2.48548e-48	1.000000
rad24	8.16920e-49	1.000000	8.16920e-49	1.000000
rad36	1.52546e-49	1.000000	1.52546e-49	1.000000
rad8	8.48093e-66	1.000000	8.48093e-66	1.000000

0.100000000E-06 Pa, 150.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.34137e-15 (1.00)	6.34137e-15 (1.00)
Formation of rad19	6.34135e-15 (1.000)	6.34135e-15 (1.000)
H-abstraction to cyc2enyl	1.81685e-20 (2.87e-06)	1.81685e-20 (2.87e-06)
H-abstraction to cyclenyl	2.23765e-25 (3.53e-11)	2.23765e-25 (3.53e-11)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999692	0.999692	0.999692	0.999692
PhCHCCH2+H	0.000289592	0.999982	0.000289592	0.999982
PhCCH+CH3	5.11623e-06	0.999987	5.11623e-06	0.999987
C2H2+PhCH2	3.86834e-06	0.999991	3.86834e-06	0.999991
PhCCCH3+H	2.96768e-06	0.999994	2.96768e-06	0.999994
Benzene+cycloprop-2-enylidene	2.86508e-06	0.999997	2.86508e-06	0.999997
Ph+MeAc	2.36224e-06	0.999999	2.36224e-06	0.999999
rad67	7.01968e-07	1.000000	7.01968e-07	1.000000
rad35	3.05869e-07	1.000000	3.05869e-07	1.000000
Ph+Allene	2.36598e-07	1.000000	2.36598e-07	1.000000
PhCH2CCH+H	3.15146e-08	1.000000	3.15146e-08	1.000000
PAH7+H	2.88839e-08	1.000000	2.88839e-08	1.000000
rad39	8.15167e-09	1.000000	8.15167e-09	1.000000
rad37	7.71444e-09	1.000000	7.71444e-09	1.000000
rad30	5.77470e-09	1.000000	5.77470e-09	1.000000
PAH9+H	4.22009e-10	1.000000	4.22009e-10	1.000000
rad38	1.86919e-10	1.000000	1.86919e-10	1.000000
Benzene+cycloprop-1-enylidene	3.52865e-11	1.000000	3.52865e-11	1.000000
rad60syn	2.92988e-11	1.000000	2.92988e-11	1.000000
PAH10+CH3	1.59406e-11	1.000000	1.59406e-11	1.000000
rad60anti	1.45059e-11	1.000000	1.45059e-11	1.000000
PAH3+H	1.41866e-11	1.000000	1.41866e-11	1.000000
rad46	1.17105e-11	1.000000	1.17105e-11	1.000000
PhcycC3H3_A+H	4.70694e-12	1.000000	4.70694e-12	1.000000
rad59	2.85583e-12	1.000000	2.85583e-12	1.000000
rad43	6.57518e-13	1.000000	6.57518e-13	1.000000
rad54	5.85445e-13	1.000000	5.85445e-13	1.000000
rad62	1.45031e-13	1.000000	1.45031e-13	1.000000
rad50	1.02199e-13	1.000000	1.02199e-13	1.000000
Phenyl+cycC3H4	2.61242e-14	1.000000	0.000000	1.000000
rad70	1.23994e-14	1.000000	1.23994e-14	1.000000
rad55	5.49294e-15	1.000000	5.49294e-15	1.000000
PhcycC3H3_B+H	4.08980e-15	1.000000	4.08980e-15	1.000000
PAH1+H	3.71111e-15	1.000000	3.71111e-15	1.000000
rad52	8.01987e-16	1.000000	8.01987e-16	1.000000
rad58	3.41821e-16	1.000000	3.41821e-16	1.000000
rad51	2.53178e-16	1.000000	2.53178e-16	1.000000
rad34	2.00908e-16	1.000000	2.00908e-16	1.000000
rad41	3.81683e-17	1.000000	3.81683e-17	1.000000
rad42	2.93833e-17	1.000000	2.93833e-17	1.000000
rad65	5.66165e-18	1.000000	5.66165e-18	1.000000
rad53	5.02100e-20	1.000000	5.02100e-20	1.000000
rad64	6.27506e-21	1.000000	6.27506e-21	1.000000
rad61	1.25963e-22	1.000000	1.25963e-22	1.000000
rad56	3.47179e-24	1.000000	3.47179e-24	1.000000
rad68syn	2.64356e-25	1.000000	2.64356e-25	1.000000
rad68anti	2.10658e-25	1.000000	2.10658e-25	1.000000
rad40syn	8.88016e-29	1.000000	8.88016e-29	1.000000
rad40anti	7.03998e-29	1.000000	7.03998e-29	1.000000
rad73	5.47735e-30	1.000000	5.47735e-30	1.000000
PAH8+H	1.26388e-30	1.000000	1.26388e-30	1.000000
rad6	6.93235e-33	1.000000	6.93235e-33	1.000000
rad47	6.13964e-33	1.000000	6.13964e-33	1.000000
rad26	4.93388e-33	1.000000	4.93388e-33	1.000000
rad28	1.52154e-33	1.000000	1.52154e-33	1.000000
rad71	9.41848e-34	1.000000	9.41848e-34	1.000000
rad2	2.47482e-34	1.000000	2.47482e-34	1.000000
rad19anti	1.44031e-34	1.000000	1.44031e-34	1.000000
rad1	1.62321e-35	1.000000	1.62321e-35	1.000000
rad10	1.25985e-35	1.000000	1.25985e-35	1.000000
rad3	3.00794e-36	1.000000	3.00794e-36	1.000000
rad14	2.33335e-36	1.000000	2.33335e-36	1.000000
rad4	1.53318e-36	1.000000	1.53318e-36	1.000000
rad25	1.27743e-36	1.000000	1.27743e-36	1.000000
rad7	5.08910e-37	1.000000	5.08910e-37	1.000000
rad27	2.79767e-37	1.000000	2.79767e-37	1.000000
rad11	1.29446e-37	1.000000	1.29446e-37	1.000000
rad9	2.44360e-38	1.000000	2.44360e-38	1.000000
rad13	2.84081e-39	1.000000	2.84081e-39	1.000000
rad31	1.96252e-39	1.000000	1.96252e-39	1.000000
rad5	5.42600e-40	1.000000	5.42600e-40	1.000000
rad33	2.96828e-41	1.000000	2.96828e-41	1.000000
rad15	1.07464e-41	1.000000	1.07464e-41	1.000000
rad20	2.40400e-43	1.000000	2.40400e-43	1.000000
rad21	2.04011e-43	1.000000	2.04011e-43	1.000000
rad19syn	1.23836e-43	1.000000	1.23836e-43	1.000000
rad12	1.14356e-44	1.000000	1.14356e-44	1.000000

rad18	1.46869e-45	1.00000	1.46869e-45	1.00000
rad23	4.57424e-46	1.00000	4.57424e-46	1.00000
rad45	5.46233e-48	1.00000	5.46233e-48	1.00000
rad22	4.91926e-48	1.00000	4.91926e-48	1.00000
rad24	1.07829e-48	1.00000	1.07829e-48	1.00000
rad36	3.35645e-49	1.00000	3.35645e-49	1.00000
rad8	1.27613e-65	1.00000	1.27613e-65	1.00000

0.100000000E-06 Pa, 160.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.84423e-15 (1.00)	7.84423e-15 (1.00)
Formation of rad19	7.84418e-15 (1.000)	7.84418e-15 (1.000)
H-abstraction to cyc2enyl	5.05321e-20 (6.44e-06)	5.05321e-20 (6.44e-06)
H-abstraction to cyclenyl	1.29479e-24 (1.65e-10)	1.29479e-24 (1.65e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999679	0.999679	0.999679	0.999679
PhCHCCH2+H	0.000298982	0.999978	0.000298982	0.999978
Benzene+cycloprop-2-enylidene	6.44194e-06	0.999984	6.44194e-06	0.999984
PhCCH+CH3	5.29275e-06	0.999989	5.29275e-06	0.999989
C2H2+PhCH2	4.03297e-06	0.999993	4.03297e-06	0.999993
PhCCCH3+H	3.08198e-06	0.999996	3.08198e-06	0.999996
Ph+MeAc	2.47440e-06	0.999999	2.47440e-06	0.999999
rad67	7.33696e-07	1.000000	7.33696e-07	1.000000
rad35	3.19106e-07	1.000000	3.19106e-07	1.000000
Ph+Allene	2.52226e-07	1.000000	2.52226e-07	1.000000
PhCH2CCH+H	3.39643e-08	1.000000	3.39643e-08	1.000000
PAH7+H	3.04941e-08	1.000000	3.04941e-08	1.000000
rad39	8.60568e-09	1.000000	8.60568e-09	1.000000
rad37	8.17136e-09	1.000000	8.17136e-09	1.000000
rad30	6.03351e-09	1.000000	6.03351e-09	1.000000
PAH9+H	4.47144e-10	1.000000	4.47144e-10	1.000000
rad38	1.99330e-10	1.000000	1.99330e-10	1.000000
Benzene+cycloprop-1-enylidene	1.65062e-10	1.000000	1.65062e-10	1.000000
rad60syn	3.11859e-11	1.000000	3.11859e-11	1.000000
PAH10+CH3	1.80192e-11	1.000000	1.80192e-11	1.000000
rad60anti	1.54660e-11	1.000000	1.54660e-11	1.000000
PAH3+H	1.54653e-11	1.000000	1.54653e-11	1.000000
rad46	1.25466e-11	1.000000	1.25466e-11	1.000000
PhcycC3H3_A+H	6.04093e-12	1.000000	6.04093e-12	1.000000
rad59	3.10145e-12	1.000000	3.10145e-12	1.000000
rad43	7.31202e-13	1.000000	7.31202e-13	1.000000
rad54	6.61022e-13	1.000000	6.61022e-13	1.000000
rad62	1.61671e-13	1.000000	1.61671e-13	1.000000
rad50	1.13351e-13	1.000000	1.13351e-13	1.000000
Phenyl+cycC3H4	3.86829e-14	1.000000	0.000000	1.000000
rad70	1.45456e-14	1.000000	1.45456e-14	1.000000
PhcycC3H3_B+H	8.12740e-15	1.000000	8.12740e-15	1.000000
rad55	6.44670e-15	1.000000	6.44670e-15	1.000000
PAH1+H	4.60690e-15	1.000000	4.60690e-15	1.000000
rad52	9.13581e-16	1.000000	9.13581e-16	1.000000
rad58	4.08006e-16	1.000000	4.08006e-16	1.000000
rad51	2.97957e-16	1.000000	2.97957e-16	1.000000
rad34	2.50279e-16	1.000000	2.50279e-16	1.000000
rad41	4.99159e-17	1.000000	4.99159e-17	1.000000
rad42	3.74399e-17	1.000000	3.74399e-17	1.000000
rad65	6.76165e-18	1.000000	6.76165e-18	1.000000
rad53	9.55513e-20	1.000000	9.55513e-20	1.000000
rad64	1.40204e-20	1.000000	1.40204e-20	1.000000
rad61	4.46330e-22	1.000000	4.46330e-22	1.000000
rad56	1.48090e-23	1.000000	1.48090e-23	1.000000
rad68syn	1.24419e-24	1.000000	1.24419e-24	1.000000
rad68anti	9.86157e-25	1.000000	9.86157e-25	1.000000
rad40syn	7.79816e-28	1.000000	7.79816e-28	1.000000
rad40anti	6.20621e-28	1.000000	6.20621e-28	1.000000
rad73	4.23082e-29	1.000000	4.23082e-29	1.000000
PAH8+H	1.68146e-29	1.000000	1.68146e-29	1.000000
rad71	1.46142e-32	1.000000	1.46142e-32	1.000000
rad6	6.69922e-33	1.000000	6.69922e-33	1.000000
rad47	6.18322e-33	1.000000	6.18322e-33	1.000000
rad26	4.55923e-33	1.000000	4.55923e-33	1.000000
rad28	1.38047e-33	1.000000	1.38047e-33	1.000000
rad2	3.81178e-34	1.000000	3.81178e-34	1.000000
rad19anti	3.44720e-34	1.000000	3.44720e-34	1.000000
rad1	2.51378e-35	1.000000	2.51378e-35	1.000000
rad10	1.91903e-35	1.000000	1.91903e-35	1.000000
rad3	4.24536e-36	1.000000	4.24536e-36	1.000000

rad14	2.30810e-36	1.00000	2.30810e-36	1.00000
rad4	2.16702e-36	1.00000	2.16702e-36	1.00000
rad25	1.28627e-36	1.00000	1.28627e-36	1.00000
rad7	4.92755e-37	1.00000	4.92755e-37	1.00000
rad27	2.84540e-37	1.00000	2.84540e-37	1.00000
rad11	1.25626e-37	1.00000	1.25626e-37	1.00000
rad9	3.12851e-38	1.00000	3.12851e-38	1.00000
rad31	3.84757e-39	1.00000	3.84757e-39	1.00000
rad13	2.75428e-39	1.00000	2.75428e-39	1.00000
rad5	5.08591e-40	1.00000	5.08591e-40	1.00000
rad33	3.23560e-41	1.00000	3.23560e-41	1.00000
rad15	1.37762e-41	1.00000	1.37762e-41	1.00000
rad19syn	3.23538e-43	1.00000	3.23538e-43	1.00000
rad20	2.79327e-43	1.00000	2.79327e-43	1.00000
rad21	2.39139e-43	1.00000	2.39139e-43	1.00000
rad12	1.68628e-44	1.00000	1.68628e-44	1.00000
rad18	1.55859e-45	1.00000	1.55859e-45	1.00000
rad23	1.01379e-45	1.00000	1.01379e-45	1.00000
rad45	1.26799e-47	1.00000	1.26799e-47	1.00000
rad22	4.96067e-48	1.00000	4.96067e-48	1.00000
rad24	1.45245e-48	1.00000	1.45245e-48	1.00000
rad36	7.80277e-49	1.00000	7.80277e-49	1.00000
rad8	1.96346e-65	1.00000	1.96346e-65	1.00000

0.100000000E-06 Pa, 170.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.49598e-15 (1.00)	9.49598e-15 (1.00)
Formation of rad19	9.49586e-15 (1.000)	9.49586e-15 (1.000)
H-abstraction to cyc2enyl	1.24279e-19 (1.31e-05)	1.24279e-19 (1.31e-05)
H-abstraction to cyclenyl	6.08025e-24 (6.40e-10)	6.08025e-24 (6.40e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999661	0.999661	0.999661	0.999661
PhCHCCH2+H	0.000309167	0.999970	0.000309167	0.999970
Benzene+cycloprop-2-enylidene	1.30875e-05	0.999983	1.30875e-05	0.999983
PhCCH+CH3	5.48398e-06	0.999989	5.48398e-06	0.999989
C2H2+PhCH2	4.21347e-06	0.999993	4.21347e-06	0.999993
PhCCCH3+H	3.20659e-06	0.999996	3.20659e-06	0.999996
Ph+MeAc	2.59788e-06	0.999999	2.59788e-06	0.999999
rad67	7.68575e-07	0.999999	7.68575e-07	0.999999
rad35	3.33631e-07	1.000000	3.33631e-07	1.000000
Ph+Allene	2.69815e-07	1.000000	2.69815e-07	1.000000
PhCH2CCH+H	3.67554e-08	1.000000	3.67554e-08	1.000000
PAH7+H	3.22859e-08	1.000000	3.22859e-08	1.000000
rad39	9.11054e-09	1.000000	9.11054e-09	1.000000
rad37	8.68151e-09	1.000000	8.68151e-09	1.000000
rad30	6.31840e-09	1.000000	6.31840e-09	1.000000
Benzene+cycloprop-1-enylidene	6.40297e-10	1.000000	6.40297e-10	1.000000
PAH9+H	4.75294e-10	1.000000	4.75294e-10	1.000000
rad38	2.13351e-10	1.000000	2.13351e-10	1.000000
rad60syn	3.33085e-11	1.000000	3.33085e-11	1.000000
PAH10+CH3	2.05094e-11	1.000000	2.05094e-11	1.000000
PAH3+H	1.69431e-11	1.000000	1.69431e-11	1.000000
rad60anti	1.65480e-11	1.000000	1.65480e-11	1.000000
rad46	1.34952e-11	1.000000	1.34952e-11	1.000000
PhcycC3H3_A+H	7.80973e-12	1.000000	7.80973e-12	1.000000
rad59	3.38400e-12	1.000000	3.38400e-12	1.000000
rad43	8.17741e-13	1.000000	8.17741e-13	1.000000
rad54	7.51515e-13	1.000000	7.51515e-13	1.000000
rad62	1.81221e-13	1.000000	1.81221e-13	1.000000
rad50	1.26512e-13	1.000000	1.26512e-13	1.000000
Phenyl+cycC3H4	5.71891e-14	1.000000	0.000000	1.000000
rad70	1.72142e-14	1.000000	1.72142e-14	1.000000
PhcycC3H3_B+H	1.54798e-14	1.000000	1.54798e-14	1.000000
rad55	7.63216e-15	1.000000	7.63216e-15	1.000000
PAH1+H	5.77897e-15	1.000000	5.77897e-15	1.000000
rad52	1.04914e-15	1.000000	1.04914e-15	1.000000
rad58	4.91782e-16	1.000000	4.91782e-16	1.000000
rad51	3.54209e-16	1.000000	3.54209e-16	1.000000
rad34	3.15103e-16	1.000000	3.15103e-16	1.000000
rad41	6.58203e-17	1.000000	6.58203e-17	1.000000
rad42	4.80841e-17	1.000000	4.80841e-17	1.000000
rad65	8.16178e-18	1.000000	8.16178e-18	1.000000
rad53	1.76036e-19	1.000000	1.76036e-19	1.000000
rad64	2.96517e-20	1.000000	2.96517e-20	1.000000
rad61	1.40406e-21	1.000000	1.40406e-21	1.000000
rad56	5.46521e-23	1.000000	5.46521e-23	1.000000

rad68syn	4.98617e-24	1.00000	4.98617e-24	1.00000
rad68anti	3.92935e-24	1.00000	3.92935e-24	1.00000
rad40syn	5.38958e-27	1.00000	5.38958e-27	1.00000
rad40anti	4.30388e-27	1.00000	4.30388e-27	1.00000
rad73	2.64778e-28	1.00000	2.64778e-28	1.00000
PAH8+H	1.67789e-28	1.00000	1.67789e-28	1.00000
rad71	1.66935e-31	1.00000	1.66935e-31	1.00000
rad6	6.89380e-33	1.00000	6.89380e-33	1.00000
rad47	6.30329e-33	1.00000	6.30329e-33	1.00000
rad26	4.23638e-33	1.00000	4.23638e-33	1.00000
rad28	1.26034e-33	1.00000	1.26034e-33	1.00000
rad19anti	8.69987e-34	1.00000	8.69987e-34	1.00000
rad2	5.73417e-34	1.00000	5.73417e-34	1.00000
rad1	3.80409e-35	1.00000	3.80409e-35	1.00000
rad10	2.98968e-35	1.00000	2.98968e-35	1.00000
rad3	6.69637e-36	1.00000	6.69637e-36	1.00000
rad4	3.42351e-36	1.00000	3.42351e-36	1.00000
rad14	2.29986e-36	1.00000	2.29986e-36	1.00000
rad25	1.30529e-36	1.00000	1.30529e-36	1.00000
rad7	5.08083e-37	1.00000	5.08083e-37	1.00000
rad27	2.91800e-37	1.00000	2.91800e-37	1.00000
rad11	1.29579e-37	1.00000	1.29579e-37	1.00000
rad9	4.09710e-38	1.00000	4.09710e-38	1.00000
rad31	7.89254e-39	1.00000	7.89254e-39	1.00000
rad13	2.84386e-39	1.00000	2.84386e-39	1.00000
rad5	4.79501e-40	1.00000	4.79501e-40	1.00000
rad33	3.60505e-41	1.00000	3.60505e-41	1.00000
rad15	1.80667e-41	1.00000	1.80667e-41	1.00000
rad19syn	8.89196e-43	1.00000	8.89196e-43	1.00000
rad20	3.28820e-43	1.00000	3.28820e-43	1.00000
rad21	2.84137e-43	1.00000	2.84137e-43	1.00000
rad12	2.54981e-44	1.00000	2.54981e-44	1.00000
rad23	2.45235e-45	1.00000	2.45235e-45	1.00000
rad18	1.66793e-45	1.00000	1.66793e-45	1.00000
rad45	3.26315e-47	1.00000	3.26315e-47	1.00000
rad22	5.04670e-48	1.00000	5.04670e-48	1.00000
rad36	2.01153e-48	1.00000	2.01153e-48	1.00000
rad24	1.99558e-48	1.00000	1.99558e-48	1.00000
rad8	3.08693e-65	1.00000	3.08693e-65	1.00000

0.100000000E-06 Pa, 180.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.12884e-14 (1.00)	1.12884e-14 (1.00)
Formation of rad19	1.12881e-14 (1.000)	1.12881e-14 (1.000)
H-abstraction to cyc2enyl	2.75916e-19 (2.44e-05)	2.75916e-19 (2.44e-05)
H-abstraction to cyclenyl	2.39955e-23 (2.13e-09)	2.39955e-23 (2.13e-09)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999638	0.999638	0.999638	0.999638
PhCHCCH2+H	0.000320239	0.999958	0.000320239	0.999958
Benzene+cycloprop-2-enylidene	2.44424e-05	0.999982	2.44424e-05	0.999982
PhCCH+CH3	5.69151e-06	0.999988	5.69151e-06	0.999988
C2H2+PhCH2	4.41182e-06	0.999992	4.41182e-06	0.999992
PhCCCH3+H	3.34271e-06	0.999996	3.34271e-06	0.999996
Ph+MeAc	2.73412e-06	0.999998	2.73412e-06	0.999998
rad67	8.07010e-07	0.999999	8.07010e-07	0.999999
rad35	3.49603e-07	1.000000	3.49603e-07	1.000000
Ph+Allene	2.89684e-07	1.000000	2.89684e-07	1.000000
PhCH2CCH+H	3.99486e-08	1.000000	3.99486e-08	1.000000
PAH7+H	3.42855e-08	1.000000	3.42855e-08	1.000000
rad39	9.67359e-09	1.000000	9.67359e-09	1.000000
rad37	9.25289e-09	1.000000	9.25289e-09	1.000000
rad30	6.63280e-09	1.000000	6.63280e-09	1.000000
Benzene+cycloprop-1-enylidene	2.12567e-09	1.000000	2.12567e-09	1.000000
PAH9+H	5.06928e-10	1.000000	5.06928e-10	1.000000
rad38	2.29255e-10	1.000000	2.29255e-10	1.000000
rad60syn	3.57046e-11	1.000000	3.57046e-11	1.000000
PAH10+CH3	2.35102e-11	1.000000	2.35102e-11	1.000000
PAH3+H	1.86591e-11	1.000000	1.86591e-11	1.000000
rad60anti	1.77718e-11	1.000000	1.77718e-11	1.000000
rad46	1.45760e-11	1.000000	1.45760e-11	1.000000
PhcycC3H3_A+H	1.01655e-11	1.000000	1.01655e-11	1.000000
rad59	3.71052e-12	1.000000	3.71052e-12	1.000000
rad43	9.19879e-13	1.000000	9.19879e-13	1.000000
rad54	8.60523e-13	1.000000	8.60523e-13	1.000000
rad62	2.04292e-13	1.000000	2.04292e-13	1.000000
rad50	1.42141e-13	1.000000	1.42141e-13	1.000000

Phenyl+cycC3H4	8.44565e-14	1.000000	0.00000	1.000000
PhcycC3H3_B+H	2.84776e-14	1.000000	2.84776e-14	1.000000
rad70	2.05555e-14	1.000000	2.05555e-14	1.000000
rad55	9.11579e-15	1.000000	9.11579e-15	1.000000
PAH1+H	7.32394e-15	1.000000	7.32394e-15	1.000000
rad52	1.21498e-15	1.000000	1.21498e-15	1.000000
rad58	5.98636e-16	1.000000	5.98636e-16	1.000000
rad51	4.25485e-16	1.000000	4.25485e-16	1.000000
rad34	4.00857e-16	1.000000	4.00857e-16	1.000000
rad41	8.74643e-17	1.000000	8.74643e-17	1.000000
rad42	6.22157e-17	1.000000	6.22157e-17	1.000000
rad65	9.95949e-18	1.000000	9.95949e-18	1.000000
rad53	3.16150e-19	1.000000	3.16150e-19	1.000000
rad64	5.99926e-20	1.000000	5.99926e-20	1.000000
rad61	4.00801e-21	1.000000	4.00801e-21	1.000000
rad56	1.79227e-22	1.000000	1.79227e-22	1.000000
rad68syn	1.75240e-23	1.000000	1.75240e-23	1.000000
rad68anti	1.37247e-23	1.000000	1.37247e-23	1.000000
rad40syn	3.05803e-26	1.000000	3.05803e-26	1.000000
rad40anti	2.44831e-26	1.000000	2.44831e-26	1.000000
rad73	1.39313e-27	1.000000	1.39313e-27	1.000000
PAH8+H	1.32188e-27	1.000000	1.32188e-27	1.000000
rad71	1.48898e-30	1.000000	1.48898e-30	1.000000
rad6	7.71921e-33	1.000000	7.71921e-33	1.000000
rad47	6.50507e-33	1.000000	6.50507e-33	1.000000
rad26	3.95628e-33	1.000000	3.95628e-33	1.000000
rad19anti	2.31119e-33	1.000000	2.31119e-33	1.000000
rad28	1.15719e-33	1.000000	1.15719e-33	1.000000
rad2	1.01261e-33	1.000000	1.01261e-33	1.000000
rad1	6.76130e-35	1.000000	6.76130e-35	1.000000
rad10	5.01317e-35	1.000000	5.01317e-35	1.000000
rad3	1.06630e-35	1.000000	1.06630e-35	1.000000
rad4	5.46092e-36	1.000000	5.46092e-36	1.000000
rad14	2.30705e-36	1.000000	2.30705e-36	1.000000
rad25	1.33416e-36	1.000000	1.33416e-36	1.000000
rad7	5.70089e-37	1.000000	5.70089e-37	1.000000
rad27	3.01559e-37	1.000000	3.01559e-37	1.000000
rad11	1.45047e-37	1.000000	1.45047e-37	1.000000
rad9	5.48442e-38	1.000000	5.48442e-38	1.000000
rad31	1.69327e-38	1.000000	1.69327e-38	1.000000
rad13	3.19538e-39	1.000000	3.19538e-39	1.000000
rad5	4.54334e-40	1.000000	4.54334e-40	1.000000
rad33	4.10905e-41	1.000000	4.10905e-41	1.000000
rad15	2.42207e-41	1.000000	2.42207e-41	1.000000
rad19syn	2.57212e-42	1.000000	2.57212e-42	1.000000
rad20	3.91969e-43	1.000000	3.91969e-43	1.000000
rad21	3.42041e-43	1.000000	3.42041e-43	1.000000
rad12	3.95290e-44	1.000000	3.95290e-44	1.000000
rad23	6.48883e-45	1.000000	6.48883e-45	1.000000
rad18	1.79878e-45	1.000000	1.79878e-45	1.000000
rad45	9.24294e-47	1.000000	9.24294e-47	1.000000
rad36	5.70957e-48	1.000000	5.70957e-48	1.000000
rad22	5.19571e-48	1.000000	5.19571e-48	1.000000
rad24	2.79583e-48	1.000000	2.79583e-48	1.000000
rad8	4.95693e-65	1.000000	4.95693e-65	1.000000

0.100000000E-06 Pa, 190.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.32132e-14 (1.00)	1.32132e-14 (1.00)
Formation of rad19	1.32126e-14 (1.000)	1.32126e-14 (1.000)
H-abstraction to cyc2enyl	5.62053e-19 (4.25e-05)	5.62053e-19 (4.25e-05)
H-abstraction to cyclenyl	8.18073e-23 (6.19e-09)	8.18073e-23 (6.19e-09)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999606	0.999606	0.999606	0.999606
PhCHCCH2+H	0.000332293	0.999939	0.000332293	0.999939
Benzene+cycloprop-2-enylidene	4.25373e-05	0.999981	4.25373e-05	0.999981
PhCCH+CH3	5.91707e-06	0.999987	5.91707e-06	0.999987
C2H2+PhCH2	4.63023e-06	0.999992	4.63023e-06	0.999992
PhCCCH3+H	3.49167e-06	0.999995	3.49167e-06	0.999995
Ph+MeAc	2.88479e-06	0.999998	2.88479e-06	0.999998
rad67	8.49457e-07	0.999999	8.49457e-07	0.999999
rad35	3.67207e-07	0.999999	3.67207e-07	0.999999
Ph+Allene	3.12197e-07	1.000000	3.12197e-07	1.000000
PhCH2CCH+H	4.36151e-08	1.000000	4.36151e-08	1.000000
PAH7+H	3.65230e-08	1.000000	3.65230e-08	1.000000
rad39	1.03032e-08	1.000000	1.03032e-08	1.000000

rad37	9.89464e-09	1.000000	9.89464e-09	1.000000
rad30	6.98058e-09	1.000000	6.98058e-09	1.000000
Benzene+cycloprop-1-enylidene	6.19133e-09	1.000000	6.19133e-09	1.000000
PAH9+H	5.42590e-10	1.000000	5.42590e-10	1.000000
rad38	2.47359e-10	1.000000	2.47359e-10	1.000000
rad60syn	3.84183e-11	1.000000	3.84183e-11	1.000000
PAH10+CH3	2.71459e-11	1.000000	2.71459e-11	1.000000
PAH3+H	2.06610e-11	1.000000	2.06610e-11	1.000000
rad60anti	1.91607e-11	1.000000	1.91607e-11	1.000000
rad46	1.58119e-11	1.000000	1.58119e-11	1.000000
PhcycC3H3_A+H	1.33135e-11	1.000000	1.33135e-11	1.000000
rad59	4.08946e-12	1.000000	4.08946e-12	1.000000
rad43	1.04096e-12	1.000000	1.04096e-12	1.000000
rad54	9.92552e-13	1.000000	9.92552e-13	1.000000
rad62	2.31631e-13	1.000000	2.31631e-13	1.000000
rad50	1.60801e-13	1.000000	1.60801e-13	1.000000
Phenyl+cycC3H4	1.24603e-13	1.000000	0.00000	1.000000
PhcycC3H3_B+H	5.08976e-14	1.000000	5.08976e-14	1.000000
rad70	2.47658e-14	1.000000	2.47658e-14	1.000000
rad55	1.09840e-14	1.000000	1.09840e-14	1.000000
PAH1+H	9.37357e-15	1.000000	9.37357e-15	1.000000
rad52	1.41930e-15	1.000000	1.41930e-15	1.000000
rad58	7.35874e-16	1.000000	7.35874e-16	1.000000
rad51	5.16512e-16	1.000000	5.16512e-16	1.000000
rad34	5.15049e-16	1.000000	5.15049e-16	1.000000
rad41	1.17041e-16	1.000000	1.17041e-16	1.000000
rad42	8.10502e-17	1.000000	8.10502e-17	1.000000
rad65	1.22862e-17	1.000000	1.22862e-17	1.000000
rad53	5.56219e-19	1.000000	5.56219e-19	1.000000
rad64	1.17042e-19	1.000000	1.17042e-19	1.000000
rad61	1.05588e-20	1.000000	1.05588e-20	1.000000
rad56	5.33231e-22	1.000000	5.33231e-22	1.000000
rad68syn	5.52671e-23	1.000000	5.52671e-23	1.000000
rad68anti	4.30019e-23	1.000000	4.30019e-23	1.000000
rad40syn	1.47212e-25	1.000000	1.47212e-25	1.000000
rad40anti	1.18054e-25	1.000000	1.18054e-25	1.000000
PAH8+H	8.53886e-27	1.000000	8.53886e-27	1.000000
rad73	6.34253e-27	1.000000	6.34253e-27	1.000000
rad71	1.07847e-29	1.000000	1.07847e-29	1.000000
rad6	9.61519e-33	1.000000	9.61519e-33	1.000000
rad47	6.79798e-33	1.000000	6.79798e-33	1.000000
rad19anti	6.45010e-33	1.000000	6.45010e-33	1.000000
rad26	3.71276e-33	1.000000	3.71276e-33	1.000000
rad2	1.67646e-33	1.000000	1.67646e-33	1.000000
rad28	1.06830e-33	1.000000	1.06830e-33	1.000000
rad1	1.12728e-34	1.000000	1.12728e-34	1.000000
rad10	8.59506e-35	1.000000	8.59506e-35	1.000000
rad3	1.72408e-35	1.000000	1.72408e-35	1.000000
rad4	8.84641e-36	1.000000	8.84641e-36	1.000000
rad14	2.32871e-36	1.000000	2.32871e-36	1.000000
rad25	1.37286e-36	1.000000	1.37286e-36	1.000000
rad7	7.11609e-37	1.000000	7.11609e-37	1.000000
rad27	3.13909e-37	1.000000	3.13909e-37	1.000000
rad11	1.80114e-37	1.000000	1.80114e-37	1.000000
rad9	7.50054e-38	1.000000	7.50054e-38	1.000000
rad31	3.79749e-38	1.000000	3.79749e-38	1.000000
rad13	3.99425e-39	1.000000	3.99425e-39	1.000000
rad5	4.32336e-40	1.000000	4.32336e-40	1.000000
rad33	4.80419e-41	1.000000	4.80419e-41	1.000000
rad15	3.31782e-41	1.000000	3.31782e-41	1.000000
rad19syn	7.83212e-42	1.000000	7.83212e-42	1.000000
rad20	4.72984e-43	1.000000	4.72984e-43	1.000000
rad21	4.17026e-43	1.000000	4.17026e-43	1.000000
rad12	6.28294e-44	1.000000	6.28294e-44	1.000000
rad23	1.87978e-44	1.000000	1.87978e-44	1.000000
rad18	1.95390e-45	1.000000	1.95390e-45	1.000000
rad45	2.88234e-46	1.000000	2.88234e-46	1.000000
rad36	1.78481e-47	1.000000	1.78481e-47	1.000000
rad22	5.46593e-48	1.000000	5.46593e-48	1.000000
rad24	3.99375e-48	1.000000	3.99375e-48	1.000000
rad8	8.12778e-65	1.000000	8.12778e-65	1.000000

0.100000000E-06 Pa, 200.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.52621e-14 (1.00)	1.52621e-14 (1.00)
Formation of rad19	1.52610e-14 (1.000)	1.52610e-14 (1.000)
H-abstraction to cyc2enyl	1.06427e-18 (6.97e-05)	1.06427e-18 (6.97e-05)
H-abstraction to cyclenyl	2.46309e-22 (1.61e-08)	2.46309e-22 (1.61e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999565	0.999565	0.999565	0.999565
PhCHCCH2+H	0.000345433	0.999911	0.000345433	0.999911
Benzene+cycloprop-2-enylidene	6.97330e-05	0.999980	6.97330e-05	0.999980
PhCCH+CH3	6.16243e-06	0.999987	6.16243e-06	0.999987
C2H2+PhCH2	4.87110e-06	0.999991	4.87110e-06	0.999991
PhCCCH3+H	3.65492e-06	0.999995	3.65492e-06	0.999995
Ph+MeAc	3.05169e-06	0.999998	3.05169e-06	0.999998
rad67	8.96414e-07	0.999999	8.96414e-07	0.999999
rad35	3.86641e-07	0.999999	3.86641e-07	0.999999
Ph+Allene	3.37776e-07	1.000000	3.37776e-07	1.000000
PhCH2CCH+H	4.78388e-08	1.000000	4.78388e-08	1.000000
PAH7+H	3.90324e-08	1.000000	3.90324e-08	1.000000
Benzene+cycloprop-1-enylidene	1.61386e-08	1.000000	1.61386e-08	1.000000
rad39	1.10085e-08	1.000000	1.10085e-08	1.000000
rad37	1.06172e-08	1.000000	1.06172e-08	1.000000
rad30	7.36603e-09	1.000000	7.36603e-09	1.000000
PAH9+H	5.82902e-10	1.000000	5.82902e-10	1.000000
rad38	2.68036e-10	1.000000	2.68036e-10	1.000000
rad60syn	4.15004e-11	1.000000	4.15004e-11	1.000000
PAH10+CH3	3.15724e-11	1.000000	3.15724e-11	1.000000
PAH3+H	2.30055e-11	1.000000	2.30055e-11	1.000000
rad60anti	2.07416e-11	1.000000	2.07416e-11	1.000000
PhcycC3H3_A+H	1.75314e-11	1.000000	1.75314e-11	1.000000
rad46	1.72300e-11	1.000000	1.72300e-11	1.000000
rad59	4.53088e-12	1.000000	4.53088e-12	1.000000
rad43	1.18504e-12	1.000000	1.18504e-12	1.000000
rad54	1.15325e-12	1.000000	1.15325e-12	1.000000
rad62	2.64143e-13	1.000000	2.64143e-13	1.000000
Phenyl+cycC3H4	1.83626e-13	1.000000	0.000000	1.000000
rad50	1.83198e-13	1.000000	1.83198e-13	1.000000
PhcycC3H3_B+H	8.87690e-14	1.000000	8.87690e-14	1.000000
rad70	3.01009e-14	1.000000	3.01009e-14	1.000000
rad55	1.33496e-14	1.000000	1.33496e-14	1.000000
PAH1+H	1.21077e-14	1.000000	1.21077e-14	1.000000
rad52	1.67258e-15	1.000000	1.67258e-15	1.000000
rad58	9.13220e-16	1.000000	9.13220e-16	1.000000
rad34	6.67958e-16	1.000000	6.67958e-16	1.000000
rad51	6.33617e-16	1.000000	6.33617e-16	1.000000
rad41	1.57585e-16	1.000000	1.57585e-16	1.000000
rad42	1.06227e-16	1.000000	1.06227e-16	1.000000
rad65	1.53192e-17	1.000000	1.53192e-17	1.000000
rad53	9.61974e-19	1.000000	9.61974e-19	1.000000
rad64	2.21495e-19	1.000000	2.21495e-19	1.000000
rad61	2.60103e-20	1.000000	2.60103e-20	1.000000
rad56	1.46279e-21	1.000000	1.46279e-21	1.000000
rad68syn	1.59261e-22	1.000000	1.59261e-22	1.000000
rad68anti	1.23075e-22	1.000000	1.23075e-22	1.000000
rad40syn	6.17076e-25	1.000000	6.17076e-25	1.000000
rad40anti	4.95189e-25	1.000000	4.95189e-25	1.000000
PAH8+H	4.65852e-26	1.000000	4.65852e-26	1.000000
rad73	2.55582e-26	1.000000	2.55582e-26	1.000000
rad71	6.53613e-29	1.000000	6.53613e-29	1.000000
rad19anti	1.88664e-32	1.000000	1.88664e-32	1.000000
rad6	1.35756e-32	1.000000	1.35756e-32	1.000000
rad47	7.19638e-33	1.000000	7.19638e-33	1.000000
rad26	3.50242e-33	1.000000	3.50242e-33	1.000000
rad2	3.08096e-33	1.000000	3.08096e-33	1.000000
rad28	9.92029e-34	1.000000	9.92029e-34	1.000000
rad1	2.08760e-34	1.000000	2.08760e-34	1.000000
rad10	1.53906e-34	1.000000	1.53906e-34	1.000000
rad3	2.88776e-35	1.000000	2.88776e-35	1.000000
rad4	1.48482e-35	1.000000	1.48482e-35	1.000000
rad14	2.36432e-36	1.000000	2.36432e-36	1.000000
rad25	1.42171e-36	1.000000	1.42171e-36	1.000000
rad7	1.00688e-36	1.000000	1.00688e-36	1.000000
rad27	3.29030e-37	1.000000	3.29030e-37	1.000000
rad11	2.53036e-37	1.000000	2.53036e-37	1.000000
rad9	1.04774e-37	1.000000	1.04774e-37	1.000000
rad31	8.89667e-38	1.000000	8.89667e-38	1.000000
rad13	5.65975e-39	1.000000	5.65975e-39	1.000000
rad5	4.12928e-40	1.000000	4.12928e-40	1.000000
rad33	5.79864e-41	1.000000	5.79864e-41	1.000000
rad15	4.64264e-41	1.000000	4.64264e-41	1.000000
rad19syn	2.51002e-41	1.000000	2.51002e-41	1.000000
rad20	5.77625e-43	1.000000	5.77625e-43	1.000000
rad21	5.14873e-43	1.000000	5.14873e-43	1.000000
rad12	1.02406e-43	1.000000	1.02406e-43	1.000000

rad23	5.96314e-44	1.000000	5.96314e-44	1.000000
rad18	2.13685e-45	1.000000	2.13685e-45	1.000000
rad45	9.57527e-46	1.000000	9.57527e-46	1.000000
rad36	5.94597e-47	1.000000	5.94597e-47	1.000000
rad22	6.03997e-48	1.000000	6.03997e-48	1.000000
rad24	5.81689e-48	1.000000	5.81689e-48	1.000000
rad8	1.36072e-64	1.000000	1.36072e-64	1.000000

0.100000000E-06 Pa, 210.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.74272e-14 (1.00)	1.74272e-14 (1.00)
Formation of rad19	1.74253e-14 (1.000)	1.74253e-14 (1.000)
H-abstraction to cyc2enyl	1.89310e-18 (0.000109)	1.89310e-18 (0.000109)
H-abstraction to cyclenyl	6.66714e-22 (3.83e-08)	6.66714e-22 (3.83e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999511	0.999511	0.999511	0.999511
PhCHCCH2+H	0.000359771	0.999871	0.000359771	0.999871
Benzene+cycloprop-2-enylidene	0.000108629	0.999980	0.000108629	0.999980
PhCCH+CH3	6.42954e-06	0.999986	6.42954e-06	0.999986
C2H2+PhCH2	5.13705e-06	0.999991	5.13705e-06	0.999991
PhCCCH3+H	3.83397e-06	0.999995	3.83397e-06	0.999995
Ph+MeAc	3.23682e-06	0.999998	3.23682e-06	0.999998
rad67	9.48433e-07	0.999999	9.48433e-07	0.999999
rad35	4.08123e-07	1.000000	4.08123e-07	1.000000
Ph+Allene	3.66908e-07	1.000000	3.66908e-07	1.000000
PhCH2CCH+H	5.27181e-08	1.000000	5.27181e-08	1.000000
PAH7+H	4.18517e-08	1.000000	4.18517e-08	1.000000
Benzene+cycloprop-1-enylidene	3.82571e-08	1.000000	3.82571e-08	1.000000
rad39	1.18003e-08	1.000000	1.18003e-08	1.000000
rad37	1.14322e-08	1.000000	1.14322e-08	1.000000
rad30	7.79386e-09	1.000000	7.79386e-09	1.000000
PAH9+H	6.28582e-10	1.000000	6.28582e-10	1.000000
rad38	2.91718e-10	1.000000	2.91718e-10	1.000000
rad60syn	4.50097e-11	1.000000	4.50097e-11	1.000000
PAH10+CH3	3.69848e-11	1.000000	3.69848e-11	1.000000
PAH3+H	2.57613e-11	1.000000	2.57613e-11	1.000000
PhcycC3H3_A+H	2.31914e-11	1.000000	2.31914e-11	1.000000
rad60anti	2.25454e-11	1.000000	2.25454e-11	1.000000
rad46	1.88621e-11	1.000000	1.88621e-11	1.000000
rad59	5.04687e-12	1.000000	5.04687e-12	1.000000
rad43	1.35708e-12	1.000000	1.35708e-12	1.000000
rad54	1.34969e-12	1.000000	1.34969e-12	1.000000
rad62	3.02922e-13	1.000000	3.02922e-13	1.000000
Phenyl+cycC3H4	2.70226e-13	1.000000	0.000000	1.000000
rad50	2.10210e-13	1.000000	2.10210e-13	1.000000
PhcycC3H3_B+H	1.51586e-13	1.000000	1.51586e-13	1.000000
rad70	3.68946e-14	1.000000	3.68946e-14	1.000000
rad55	1.63588e-14	1.000000	1.63588e-14	1.000000
PAH1+H	1.57712e-14	1.000000	1.57712e-14	1.000000
rad52	1.98838e-15	1.000000	1.98838e-15	1.000000
rad58	1.14364e-15	1.000000	1.14364e-15	1.000000
rad34	8.73664e-16	1.000000	8.73664e-16	1.000000
rad51	7.85267e-16	1.000000	7.85267e-16	1.000000
rad41	2.13280e-16	1.000000	2.13280e-16	1.000000
rad42	1.39947e-16	1.000000	1.39947e-16	1.000000
rad65	1.92990e-17	1.000000	1.92990e-17	1.000000
rad53	1.63950e-18	1.000000	1.63950e-18	1.000000
rad64	4.08414e-19	1.000000	4.08414e-19	1.000000
rad61	6.05363e-20	1.000000	6.05363e-20	1.000000
rad56	3.74745e-21	1.000000	3.74745e-21	1.000000
rad68syn	4.25367e-22	1.000000	4.25367e-22	1.000000
rad68anti	3.26442e-22	1.000000	3.26442e-22	1.000000
rad40syn	2.29907e-24	1.000000	2.29907e-24	1.000000
rad40anti	1.84461e-24	1.000000	1.84461e-24	1.000000
PAH8+H	2.19678e-25	1.000000	2.19678e-25	1.000000
rad73	9.27903e-26	1.000000	9.27903e-26	1.000000
rad71	3.39170e-28	1.000000	3.39170e-28	1.000000
rad19anti	5.76790e-32	1.000000	5.76790e-32	1.000000
rad6	2.20008e-32	1.000000	2.20008e-32	1.000000
rad47	7.72082e-33	1.000000	7.72082e-33	1.000000
rad2	5.67886e-33	1.000000	5.67886e-33	1.000000
rad26	3.32492e-33	1.000000	3.32492e-33	1.000000
rad28	9.27982e-34	1.000000	9.27982e-34	1.000000
rad1	3.87996e-34	1.000000	3.87996e-34	1.000000
rad10	2.87925e-34	1.000000	2.87925e-34	1.000000
rad3	4.93687e-35	1.000000	4.93687e-35	1.000000

rad4	2.54419e-35	1.00000	2.54419e-35	1.00000
rad14	2.41383e-36	1.00000	2.41383e-36	1.00000
rad7	1.63537e-36	1.00000	1.63537e-36	1.00000
rad25	1.48130e-36	1.00000	1.48130e-36	1.00000
rad11	4.07875e-37	1.00000	4.07875e-37	1.00000
rad27	3.47192e-37	1.00000	3.47192e-37	1.00000
rad31	2.17525e-37	1.00000	2.17525e-37	1.00000
rad9	1.49484e-37	1.00000	1.49484e-37	1.00000
rad13	9.20640e-39	1.00000	9.20640e-39	1.00000
rad5	3.95666e-40	1.00000	3.95666e-40	1.00000
rad19syn	8.46110e-41	1.00000	8.46110e-41	1.00000
rad33	7.32310e-41	1.00000	7.32310e-41	1.00000
rad15	6.63593e-41	1.00000	6.63593e-41	1.00000
rad20	7.13846e-43	1.00000	7.13846e-43	1.00000
rad21	6.43658e-43	1.00000	6.43658e-43	1.00000
rad23	2.06701e-43	1.00000	2.06701e-43	1.00000
rad12	1.71209e-43	1.00000	1.71209e-43	1.00000
rad45	3.71097e-45	1.00000	3.71097e-45	1.00000
rad18	2.35211e-45	1.00000	2.35211e-45	1.00000
rad36	2.31189e-46	1.00000	2.31189e-46	1.00000
rad24	8.63998e-48	1.00000	8.63998e-48	1.00000
rad22	7.51896e-48	1.00000	7.51896e-48	1.00000
rad8	2.32606e-64	1.00000	2.32606e-64	1.00000

0.100000000E-06 Pa, 220.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.97009e-14 (1.00)	1.97009e-14 (1.00)
Formation of rad19	1.96977e-14 (1.000)	1.96977e-14 (1.000)
H-abstraction to cyc2enyl	3.19064e-18 (0.000162)	3.19064e-18 (0.000162)
H-abstraction to cyclenyl	1.64627e-21 (8.36e-08)	1.64627e-21 (8.36e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999441	0.999441	0.999441	0.999441
PhCHCCH2+H	0.000375424	0.999816	0.000375424	0.999816
Benzene+cycloprop-2-enylidene	0.000161954	0.999978	0.000161954	0.999978
PhCCH+CH3	6.72039e-06	0.999985	6.72039e-06	0.999985
C2H2+PhCH2	5.43098e-06	0.999991	5.43098e-06	0.999991
PhCCCH3+H	4.03052e-06	0.999995	4.03052e-06	0.999995
Ph+MeAc	3.44236e-06	0.999998	3.44236e-06	0.999998
rad67	1.00612e-06	0.999999	1.00612e-06	0.999999
rad35	4.31892e-07	0.999999	4.31892e-07	0.999999
Ph+Allene	4.00152e-07	1.000000	4.00152e-07	1.000000
Benzene+cycloprop-1-enylidene	8.35632e-08	1.000000	8.35632e-08	1.000000
PhCH2CCH+H	5.83685e-08	1.000000	5.83685e-08	1.000000
PAH7+H	4.50239e-08	1.000000	4.50239e-08	1.000000
rad39	1.26902e-08	1.000000	1.26902e-08	1.000000
rad37	1.23532e-08	1.000000	1.23532e-08	1.000000
rad30	8.26934e-09	1.000000	8.26934e-09	1.000000
PAH9+H	6.80449e-10	1.000000	6.80449e-10	1.000000
rad38	3.18912e-10	1.000000	3.18912e-10	1.000000
rad60syn	4.90141e-11	1.000000	4.90141e-11	1.000000
PAH10+CH3	4.36275e-11	1.000000	4.36275e-11	1.000000
PhcycC3H3_A+H	3.07931e-11	1.000000	3.07931e-11	1.000000
PAH3+H	2.90111e-11	1.000000	2.90111e-11	1.000000
rad60anti	2.46085e-11	1.000000	2.46085e-11	1.000000
rad46	2.07451e-11	1.000000	2.07451e-11	1.000000
rad59	5.65179e-12	1.000000	5.65179e-12	1.000000
rad54	1.59075e-12	1.000000	1.59075e-12	1.000000
rad43	1.56310e-12	1.000000	1.56310e-12	1.000000
Phenyl+cycC3H4	3.96956e-13	1.000000	0.000000	1.000000
rad62	3.49289e-13	1.000000	3.49289e-13	1.000000
PhcycC3H3_B+H	2.54101e-13	1.000000	2.54101e-13	1.000000
rad50	2.42929e-13	1.000000	2.42929e-13	1.000000
rad70	4.55816e-14	1.000000	4.55816e-14	1.000000
PAH1+H	2.06978e-14	1.000000	2.06978e-14	1.000000
rad55	2.02024e-14	1.000000	2.02024e-14	1.000000
rad52	2.38419e-15	1.000000	2.38419e-15	1.000000
rad58	1.44438e-15	1.000000	1.44438e-15	1.000000
rad34	1.15142e-15	1.000000	1.15142e-15	1.000000
rad51	9.82815e-16	1.000000	9.82815e-16	1.000000
rad41	2.89888e-16	1.000000	2.89888e-16	1.000000
rad42	1.85167e-16	1.000000	1.85167e-16	1.000000
rad65	2.45506e-17	1.000000	2.45506e-17	1.000000
rad53	2.75830e-18	1.000000	2.75830e-18	1.000000
rad64	7.36243e-19	1.000000	7.36243e-19	1.000000
rad61	1.34204e-19	1.000000	1.34204e-19	1.000000
rad56	9.05591e-21	1.000000	9.05591e-21	1.000000

rad68syn	1.06496e-21	1.00000	1.06496e-21	1.00000
rad68anti	8.11646e-22	1.00000	8.11646e-22	1.00000
rad40syn	7.73817e-24	1.00000	7.73817e-24	1.00000
rad40anti	6.20298e-24	1.00000	6.20298e-24	1.00000
PAH8+H	9.11871e-25	1.00000	9.11871e-25	1.00000
rad73	3.07722e-25	1.00000	3.07722e-25	1.00000
rad71	1.53452e-27	1.00000	1.53452e-27	1.00000
rad19anti	1.83731e-31	1.00000	1.83731e-31	1.00000
rad6	4.13044e-32	1.00000	4.13044e-32	1.00000
rad2	1.05938e-32	1.00000	1.05938e-32	1.00000
rad47	8.39990e-33	1.00000	8.39990e-33	1.00000
rad26	3.18436e-33	1.00000	3.18436e-33	1.00000
rad28	8.77587e-34	1.00000	8.77587e-34	1.00000
rad1	7.30338e-34	1.00000	7.30338e-34	1.00000
rad10	5.58890e-34	1.00000	5.58890e-34	1.00000
rad3	9.14263e-35	1.00000	9.14263e-35	1.00000
rad4	4.72329e-35	1.00000	4.72329e-35	1.00000
rad7	3.07709e-36	1.00000	3.07709e-36	1.00000
rad14	2.47759e-36	1.00000	2.47759e-36	1.00000
rad25	1.55253e-36	1.00000	1.55253e-36	1.00000
rad11	7.62157e-37	1.00000	7.62157e-37	1.00000
rad31	5.54361e-37	1.00000	5.54361e-37	1.00000
rad27	3.68766e-37	1.00000	3.68766e-37	1.00000
rad9	2.17871e-37	1.00000	2.17871e-37	1.00000
rad13	1.73508e-38	1.00000	1.73508e-38	1.00000
rad5	3.80199e-40	1.00000	3.80199e-40	1.00000
rad19syn	2.99699e-40	1.00000	2.99699e-40	1.00000
rad33	9.94306e-41	1.00000	9.94306e-41	1.00000
rad15	9.69052e-41	1.00000	9.69052e-41	1.00000
rad20	8.92738e-43	1.00000	8.92738e-43	1.00000
rad21	8.14776e-43	1.00000	8.14776e-43	1.00000
rad23	7.79934e-43	1.00000	7.79934e-43	1.00000
rad12	2.93730e-43	1.00000	2.93730e-43	1.00000
rad45	1.41900e-44	1.00000	1.41900e-44	1.00000
rad18	2.60536e-45	1.00000	2.60536e-45	1.00000
rad36	8.87301e-46	1.00000	8.87301e-46	1.00000
rad24	1.30906e-47	1.00000	1.30906e-47	1.00000
rad22	1.20063e-47	1.00000	1.20063e-47	1.00000
rad8	4.06073e-64	1.00000	4.06073e-64	1.00000

0.100000000E-06 Pa, 230.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.20761e-14 (1.00)	2.20761e-14 (1.00)
Formation of rad19	2.20710e-14 (1.000)	2.20710e-14 (1.000)
H-abstraction to cyc2enyl	5.13155e-18 (0.000232)	5.13155e-18 (0.000232)
H-abstraction to cyclenyl	3.75316e-21 (1.70e-07)	3.75316e-21 (1.70e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999352	0.999352	0.999352	0.999352
PhCHCCH2+H	0.000392520	0.999745	0.000392520	0.999745
Benzene+cycloprop-2-enylidene	0.000232448	0.999977	0.000232448	0.999977
PhCCH+CH3	7.03712e-06	0.999984	7.03712e-06	0.999984
C2H2+PhCH2	5.75601e-06	0.999990	5.75601e-06	0.999990
PhCCCH3+H	4.24633e-06	0.999994	4.24633e-06	0.999994
Ph+MeAc	3.67074e-06	0.999998	3.67074e-06	0.999998
rad67	1.07014e-06	0.999999	1.07014e-06	0.999999
rad35	4.58209e-07	1.000000	4.58209e-07	1.000000
Ph+Allene	4.38150e-07	1.000000	4.38150e-07	1.000000
Benzene+cycloprop-1-enylidene	1.70010e-07	1.000000	1.70010e-07	1.000000
PhCH2CCH+H	6.49255e-08	1.000000	6.49255e-08	1.000000
PAH7+H	4.85973e-08	1.000000	4.85973e-08	1.000000
rad39	1.36916e-08	1.000000	1.36916e-08	1.000000
rad37	1.33953e-08	1.000000	1.33953e-08	1.000000
rad30	8.79825e-09	1.000000	8.79825e-09	1.000000
PAH9+H	7.39444e-10	1.000000	7.39444e-10	1.000000
rad38	3.50209e-10	1.000000	3.50209e-10	1.000000
rad60syn	5.35915e-11	1.000000	5.35915e-11	1.000000
PAH10+CH3	5.18070e-11	1.000000	5.18070e-11	1.000000
PhcycC3H3_A+H	4.10038e-11	1.000000	4.10038e-11	1.000000
PAH3+H	3.28545e-11	1.000000	3.28545e-11	1.000000
rad60anti	2.69725e-11	1.000000	2.69725e-11	1.000000
rad46	2.29232e-11	1.000000	2.29232e-11	1.000000
rad59	6.36289e-12	1.000000	6.36289e-12	1.000000
rad54	1.88753e-12	1.000000	1.88753e-12	1.000000
rad43	1.81040e-12	1.000000	1.81040e-12	1.000000
Phenyl+cycC3H4	5.81829e-13	1.000000	0.000000	1.000000
PhcycC3H3_B+H	4.18958e-13	1.000000	4.18958e-13	1.000000

rad62	4.04844e-13	1.00000	4.04844e-13	1.00000
rad50	2.82714e-13	1.00000	2.82714e-13	1.00000
rad70	5.67286e-14	1.00000	5.67286e-14	1.00000
PAH1+H	2.73412e-14	1.00000	2.73412e-14	1.00000
rad55	2.51284e-14	1.00000	2.51284e-14	1.00000
rad52	2.88263e-15	1.00000	2.88263e-15	1.00000
rad58	1.83842e-15	1.00000	1.83842e-15	1.00000
rad34	1.52752e-15	1.00000	1.52752e-15	1.00000
rad51	1.24150e-15	1.00000	1.24150e-15	1.00000
rad41	3.95307e-16	1.00000	3.95307e-16	1.00000
rad42	2.45831e-16	1.00000	2.45831e-16	1.00000
rad65	3.15147e-17	1.00000	3.15147e-17	1.00000
rad53	4.58652e-18	1.00000	4.58652e-18	1.00000
rad64	1.30089e-18	1.00000	1.30089e-18	1.00000
rad61	2.85229e-19	1.00000	2.85229e-19	1.00000
rad56	2.08059e-20	1.00000	2.08059e-20	1.00000
rad68syn	2.52167e-21	1.00000	2.52167e-21	1.00000
rad68anti	1.90889e-21	1.00000	1.90889e-21	1.00000
rad40syn	2.38315e-23	1.00000	2.38315e-23	1.00000
rad40anti	1.90761e-23	1.00000	1.90761e-23	1.00000
PAH8+H	3.38041e-24	1.00000	3.38041e-24	1.00000
rad73	9.42054e-25	1.00000	9.42054e-25	1.00000
rad71	6.14189e-27	1.00000	6.14189e-27	1.00000
rad19anti	6.07588e-31	1.00000	6.07588e-31	1.00000
rad6	9.05953e-32	1.00000	9.05953e-32	1.00000
rad2	2.21652e-32	1.00000	2.21652e-32	1.00000
rad47	9.27304e-33	1.00000	9.27304e-33	1.00000
rad26	3.09228e-33	1.00000	3.09228e-33	1.00000
rad1	1.54306e-33	1.00000	1.54306e-33	1.00000
rad10	1.13397e-33	1.00000	1.13397e-33	1.00000
rad28	8.45705e-34	1.00000	8.45705e-34	1.00000
rad3	1.72217e-34	1.00000	1.72217e-34	1.00000
rad4	8.92119e-35	1.00000	8.92119e-35	1.00000
rad7	6.76408e-36	1.00000	6.76408e-36	1.00000
rad14	2.55636e-36	1.00000	2.55636e-36	1.00000
rad11	1.66523e-36	1.00000	1.66523e-36	1.00000
rad25	1.63661e-36	1.00000	1.63661e-36	1.00000
rad31	1.47015e-36	1.00000	1.47015e-36	1.00000
rad27	3.94258e-37	1.00000	3.94258e-37	1.00000
rad9	3.24564e-37	1.00000	3.24564e-37	1.00000
rad13	3.82089e-38	1.00000	3.82089e-38	1.00000
rad19syn	1.11381e-39	1.00000	1.11381e-39	1.00000
rad5	3.66256e-40	1.00000	3.66256e-40	1.00000
rad33	1.52558e-40	1.00000	1.52558e-40	1.00000
rad15	1.44655e-40	1.00000	1.44655e-40	1.00000
rad23	3.18897e-42	1.00000	3.18897e-42	1.00000
rad20	1.12993e-42	1.00000	1.12993e-42	1.00000
rad21	1.04450e-42	1.00000	1.04450e-42	1.00000
rad12	5.17373e-43	1.00000	5.17373e-43	1.00000
rad45	6.54744e-44	1.00000	6.54744e-44	1.00000
rad36	4.11125e-45	1.00000	4.11125e-45	1.00000
rad18	2.90384e-45	1.00000	2.90384e-45	1.00000
rad22	2.73243e-47	1.00000	2.73243e-47	1.00000
rad24	2.02387e-47	1.00000	2.02387e-47	1.00000
rad8	7.24167e-64	1.00000	7.24167e-64	1.00000

0.100000000E-06 Pa, 240.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.45462e-14 (1.00)	2.45462e-14 (1.00)
Formation of rad19	2.45383e-14 (1.000)	2.45383e-14 (1.000)
H-abstraction to cyc2enyl	7.92234e-18 (0.000323)	7.92234e-18 (0.000323)
H-abstraction to cyclenyl	7.97958e-21 (3.25e-07)	7.97958e-21 (3.25e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999241	0.999241	0.999241	0.999241
PhCHCCH2+H	0.000411192	0.999652	0.000411192	0.999652
Benzene+cycloprop-2-enylidene	0.000322752	0.999975	0.000322752	0.999975
PhCCH+CH3	7.38194e-06	0.999982	7.38194e-06	0.999982
C2H2+PhCH2	6.11553e-06	0.999989	6.11553e-06	0.999989
PhCCCH3+H	4.48334e-06	0.999993	4.48334e-06	0.999993
Ph+MeAc	3.92459e-06	0.999997	3.92459e-06	0.999997
rad67	1.14122e-06	0.999998	1.14122e-06	0.999998
rad35	4.87362e-07	0.999999	4.87362e-07	0.999999
Ph+Allene	4.81641e-07	0.999999	4.81641e-07	0.999999
Benzene+cycloprop-1-enylidene	3.25084e-07	0.999999	3.25084e-07	0.999999
PhCH2CCH+H	7.25479e-08	0.999999	7.25479e-08	0.999999
PAH7+H	5.26263e-08	0.999999	5.26263e-08	0.999999

rad39	1.48191e-08	0.999999	1.48191e-08	0.999999
rad37	1.45757e-08	1.000000	1.45757e-08	1.000000
rad30	9.38702e-09	1.000000	9.38702e-09	1.000000
PAH9+H	8.06648e-10	1.000000	8.06648e-10	1.000000
rad38	3.86297e-10	1.000000	3.86297e-10	1.000000
PAH10+CH3	6.19064e-11	1.000000	6.19064e-11	1.000000
rad60syn	5.88324e-11	1.000000	5.88324e-11	1.000000
PhcycC3H3_A+H	5.47108e-11	1.000000	5.47108e-11	1.000000
PAH3+H	3.74113e-11	1.000000	3.74113e-11	1.000000
rad60anti	2.96857e-11	1.000000	2.96857e-11	1.000000
rad46	2.54475e-11	1.000000	2.54475e-11	1.000000
rad59	7.20068e-12	1.000000	7.20068e-12	1.000000
rad54	2.25392e-12	1.000000	2.25392e-12	1.000000
rad43	2.10782e-12	1.000000	2.10782e-12	1.000000
Phenyl+cycC3H4	8.50545e-13	1.000000	0.000000	1.000000
PhcycC3H3_B+H	6.80482e-13	1.000000	6.80482e-13	1.000000
rad62	4.71505e-13	1.000000	4.71505e-13	1.000000
rad50	3.31266e-13	1.000000	3.31266e-13	1.000000
rad70	7.10727e-14	1.000000	7.10727e-14	1.000000
PAH1+H	3.63163e-14	1.000000	3.63163e-14	1.000000
rad55	3.14580e-14	1.000000	3.14580e-14	1.000000
rad52	3.51289e-15	1.000000	3.51289e-15	1.000000
rad58	2.35637e-15	1.000000	2.35637e-15	1.000000
rad34	2.03779e-15	1.000000	2.03779e-15	1.000000
rad51	1.58177e-15	1.000000	1.58177e-15	1.000000
rad41	5.40331e-16	1.000000	5.40331e-16	1.000000
rad42	3.27191e-16	1.000000	3.27191e-16	1.000000
rad65	4.07884e-17	1.000000	4.07884e-17	1.000000
rad53	7.54386e-18	1.000000	7.54386e-18	1.000000
rad64	2.25729e-18	1.000000	2.25729e-18	1.000000
rad61	5.84088e-19	1.000000	5.84088e-19	1.000000
rad56	4.57232e-20	1.000000	4.57232e-20	1.000000
rad68syn	5.68636e-21	1.000000	5.68636e-21	1.000000
rad68anti	4.27665e-21	1.000000	4.27665e-21	1.000000
rad40syn	6.78314e-23	1.000000	6.78314e-23	1.000000
rad40anti	5.41986e-23	1.000000	5.41986e-23	1.000000
PAH8+H	1.13224e-23	1.000000	1.13224e-23	1.000000
rad73	2.68346e-24	1.000000	2.68346e-24	1.000000
rad71	2.20097e-26	1.000000	2.20097e-26	1.000000
rad19anti	2.07742e-30	1.000000	2.07742e-30	1.000000
rad6	2.32094e-31	1.000000	2.32094e-31	1.000000
rad2	4.76135e-32	1.000000	4.76135e-32	1.000000
rad47	1.03946e-32	1.000000	1.03946e-32	1.000000
rad1	3.34982e-33	1.000000	3.34982e-33	1.000000
rad26	3.07397e-33	1.000000	3.07397e-33	1.000000
rad10	2.38951e-33	1.000000	2.38951e-33	1.000000
rad28	8.44736e-34	1.000000	8.44736e-34	1.000000
rad3	3.34694e-34	1.000000	3.34694e-34	1.000000
rad4	1.73889e-34	1.000000	1.73889e-34	1.000000
rad7	1.73657e-35	1.000000	1.73657e-35	1.000000
rad11	4.25100e-36	1.000000	4.25100e-36	1.000000
rad31	4.04869e-36	1.000000	4.04869e-36	1.000000
rad14	2.65135e-36	1.000000	2.65135e-36	1.000000
rad25	1.73514e-36	1.000000	1.73514e-36	1.000000
rad9	4.94786e-37	1.000000	4.94786e-37	1.000000
rad27	4.24350e-37	1.000000	4.24350e-37	1.000000
rad13	9.82916e-38	1.000000	9.82916e-38	1.000000
rad19syn	4.33470e-39	1.000000	4.33470e-39	1.000000
rad5	3.53618e-40	1.000000	3.53618e-40	1.000000
rad33	2.83092e-40	1.000000	2.83092e-40	1.000000
rad15	2.20994e-40	1.000000	2.20994e-40	1.000000
rad23	1.40467e-41	1.000000	1.40467e-41	1.000000
rad20	1.44777e-42	1.000000	1.44777e-42	1.000000
rad21	1.35637e-42	1.000000	1.35637e-42	1.000000
rad12	9.36132e-43	1.000000	9.36132e-43	1.000000
rad45	3.11541e-43	1.000000	3.11541e-43	1.000000
rad36	1.96546e-44	1.000000	1.96546e-44	1.000000
rad18	3.25733e-45	1.000000	3.25733e-45	1.000000
rad22	8.43053e-47	1.000000	8.43053e-47	1.000000
rad24	3.19427e-47	1.000000	3.19427e-47	1.000000
rad8	1.31971e-63	1.000000	1.31971e-63	1.000000

0.100000000E-06 Pa, 250.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.71048e-14 (1.00)	2.71048e-14 (1.00)
Formation of rad19	2.70930e-14 (1.000)	2.70930e-14 (1.000)
H-abstraction to cyc2enyl	1.17991e-17 (0.000435)	1.17991e-17 (0.000435)
H-abstraction to cyclenyl	1.59554e-20 (5.89e-07)	1.59554e-20 (5.89e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999107	0.999107	0.999107	0.999107
Benzene+cycloprop-2-enylidene	0.000435312	0.999543	0.000435312	0.999543
PhCHCCH2+H	0.000431584	0.999974	0.000431584	0.999974
PhCCH+CH3	7.75719e-06	0.999982	7.75719e-06	0.999982
C2H2+PhCH2	6.51326e-06	0.999988	6.51326e-06	0.999988
PhCCCH3+H	4.74360e-06	0.999993	4.74360e-06	0.999993
Ph+MeAc	4.20682e-06	0.999997	4.20682e-06	0.999997
rad67	1.22017e-06	0.999999	1.22017e-06	0.999999
Benzene+cycloprop-1-enylidene	5.88656e-07	0.999999	5.88656e-07	0.999999
Ph+Allene	5.31474e-07	1.000000	5.31474e-07	1.000000
rad35	5.19665e-07	1.000000	5.19665e-07	1.000000
PhCH2CCH+H	8.14215e-08	1.000000	8.14215e-08	1.000000
PAH7+H	5.71717e-08	1.000000	5.71717e-08	1.000000
rad39	1.60894e-08	1.000000	1.60894e-08	1.000000
rad37	1.59138e-08	1.000000	1.59138e-08	1.000000
rad30	1.00427e-08	1.000000	1.00427e-08	1.000000
PAH9+H	8.83301e-10	1.000000	8.83301e-10	1.000000
rad38	4.27984e-10	1.000000	4.27984e-10	1.000000
PAH10+CH3	7.44048e-11	1.000000	7.44048e-11	1.000000
PhcycC3H3_A+H	7.30900e-11	1.000000	7.30900e-11	1.000000
rad60syn	6.48407e-11	1.000000	6.48407e-11	1.000000
PAH3+H	4.28259e-11	1.000000	4.28259e-11	1.000000
rad60anti	3.28040e-11	1.000000	3.28040e-11	1.000000
rad46	2.83782e-11	1.000000	2.83782e-11	1.000000
rad59	8.18974e-12	1.000000	8.18974e-12	1.000000
rad54	2.70728e-12	1.000000	2.70728e-12	1.000000
rad43	2.46610e-12	1.000000	2.46610e-12	1.000000
Phenyl+cycC3H4	1.23952e-12	1.000000	0.000000	1.000000
PhcycC3H3_B+H	1.09005e-12	1.000000	1.09005e-12	1.000000
rad62	5.51586e-13	1.000000	5.51586e-13	1.000000
rad50	3.90700e-13	1.000000	3.90700e-13	1.000000
rad70	8.95708e-14	1.000000	8.95708e-14	1.000000
PAH1+H	4.84545e-14	1.000000	4.84545e-14	1.000000
rad55	3.96080e-14	1.000000	3.96080e-14	1.000000
rad52	4.31279e-15	1.000000	4.31279e-15	1.000000
rad58	3.03881e-15	1.000000	3.03881e-15	1.000000
rad34	2.73087e-15	1.000000	2.73087e-15	1.000000
rad51	2.03107e-15	1.000000	2.03107e-15	1.000000
rad41	7.39638e-16	1.000000	7.39638e-16	1.000000
rad42	4.36203e-16	1.000000	4.36203e-16	1.000000
rad65	5.31796e-17	1.000000	5.31796e-17	1.000000
rad53	1.22797e-17	1.000000	1.22797e-17	1.000000
rad64	3.85188e-18	1.000000	3.85188e-18	1.000000
rad61	1.15688e-18	1.000000	1.15688e-18	1.000000
rad56	9.65553e-20	1.000000	9.65553e-20	1.000000
rad68syn	1.22760e-20	1.000000	1.22760e-20	1.000000
rad68anti	9.17629e-21	1.000000	9.17629e-21	1.000000
rad40syn	1.79832e-22	1.000000	1.79832e-22	1.000000
rad40anti	1.43402e-22	1.000000	1.43402e-22	1.000000
PAH8+H	3.45930e-23	1.000000	3.45930e-23	1.000000
rad73	7.15481e-24	1.000000	7.15481e-24	1.000000
rad71	7.13356e-26	1.000000	7.13356e-26	1.000000
rad19anti	7.31047e-30	1.000000	7.31047e-30	1.000000
rad6	6.81971e-31	1.000000	6.81971e-31	1.000000
rad2	9.94538e-32	1.000000	9.94538e-32	1.000000
rad47	1.18402e-32	1.000000	1.18402e-32	1.000000
rad1	7.07719e-33	1.000000	7.07719e-33	1.000000
rad10	5.19756e-33	1.000000	5.19756e-33	1.000000
rad26	3.18205e-33	1.000000	3.18205e-33	1.000000
rad28	9.05120e-34	1.000000	9.05120e-34	1.000000
rad3	6.57039e-34	1.000000	6.57039e-34	1.000000
rad4	3.42453e-34	1.000000	3.42453e-34	1.000000
rad7	5.11282e-35	1.000000	5.11282e-35	1.000000
rad11	1.24436e-35	1.000000	1.24436e-35	1.000000
rad31	1.15495e-35	1.000000	1.15495e-35	1.000000
rad14	2.76435e-36	1.000000	2.76435e-36	1.000000
rad25	1.85017e-36	1.000000	1.85017e-36	1.000000
rad9	7.73879e-37	1.000000	7.73879e-37	1.000000
rad27	4.59989e-37	1.000000	4.59989e-37	1.000000
rad13	2.90039e-37	1.000000	2.90039e-37	1.000000
rad19syn	1.76219e-38	1.000000	1.76219e-38	1.000000
rad33	6.63484e-40	1.000000	6.63484e-40	1.000000
rad15	3.46425e-40	1.000000	3.46425e-40	1.000000
rad5	3.42116e-40	1.000000	3.42116e-40	1.000000
rad23	6.62964e-41	1.000000	6.62964e-41	1.000000
rad20	1.87887e-42	1.000000	1.87887e-42	1.000000
rad21	1.78510e-42	1.000000	1.78510e-42	1.000000

rad12	1.74108e-42	1.00000	1.74108e-42	1.00000
rad45	1.65957e-42	1.00000	1.65957e-42	1.00000
rad36	1.05249e-43	1.00000	1.05249e-43	1.00000
rad18	3.68046e-45	1.00000	3.68046e-45	1.00000
rad22	3.11202e-46	1.00000	3.11202e-46	1.00000
rad24	5.14930e-47	1.00000	5.14930e-47	1.00000
rad8	2.45880e-63	1.00000	2.45880e-63	1.00000

0.100000000E-06 Pa, 260.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.97464e-14 (1.00)	2.97464e-14 (1.00)
Formation of rad19	2.97293e-14 (0.999)	2.97293e-14 (0.999)
H-abstraction to cyc2enyl	1.70236e-17 (0.000572)	1.70236e-17 (0.000572)
H-abstraction to cyclenyl	3.02186e-20 (1.02e-06)	3.02186e-20 (1.02e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998946	0.998946	0.998946	0.998946
Benzene+cycloprop-2-enylidene	0.000572291	0.999518	0.000572291	0.999518
PhCCCH2+H	0.000453848	0.999972	0.000453848	0.999972
PhCCH+CH3	8.16530e-06	0.999980	8.16530e-06	0.999980
C2H2+PhCH2	6.95321e-06	0.999987	6.95321e-06	0.999987
PhCCCH3+H	5.02932e-06	0.999992	5.02932e-06	0.999992
Ph+MeAc	4.52059e-06	0.999997	4.52059e-06	0.999997
rad67	1.30786e-06	0.999998	1.30786e-06	0.999998
Benzene+cycloprop-1-enylidene	1.01588e-06	0.999999	1.01588e-06	0.999999
Ph+Allene	5.88618e-07	1.000000	5.88618e-07	1.000000
rad35	5.55458e-07	1.000000	5.55458e-07	1.000000
PhCH2CCH+H	9.17637e-08	1.000000	9.17637e-08	1.000000
PAH7+H	6.23016e-08	1.000000	6.23016e-08	1.000000
rad39	1.75209e-08	1.000000	1.75209e-08	1.000000
rad37	1.74317e-08	1.000000	1.74317e-08	1.000000
rad30	1.07732e-08	1.000000	1.07732e-08	1.000000
PAH9+H	9.70823e-10	1.000000	9.70823e-10	1.000000
rad38	4.76210e-10	1.000000	4.76210e-10	1.000000
PhcycC3H3_A+H	9.76900e-11	1.000000	9.76900e-11	1.000000
PAH10+CH3	8.98996e-11	1.000000	8.98996e-11	1.000000
rad60syn	7.17361e-11	1.000000	7.17361e-11	1.000000
PAH3+H	4.92719e-11	1.000000	4.92719e-11	1.000000
rad60anti	3.63918e-11	1.000000	3.63918e-11	1.000000
rad46	3.17862e-11	1.000000	3.17862e-11	1.000000
rad59	9.35934e-12	1.000000	9.35934e-12	1.000000
rad54	3.26922e-12	1.000000	3.26922e-12	1.000000
rad43	2.89822e-12	1.000000	2.89822e-12	1.000000
Phenyl+cycC3H4	1.79997e-12	1.000000	0.000000	1.000000
PhcycC3H3_B+H	1.72357e-12	1.000000	1.72357e-12	1.000000
rad62	6.47858e-13	1.000000	6.47858e-13	1.000000
rad50	4.63657e-13	1.000000	4.63657e-13	1.000000
rad70	1.13462e-13	1.000000	1.13462e-13	1.000000
PAH1+H	6.48747e-14	1.000000	6.48747e-14	1.000000
rad55	5.01162e-14	1.000000	5.01162e-14	1.000000
rad52	5.33109e-15	1.000000	5.33109e-15	1.000000
rad58	3.93954e-15	1.000000	3.93954e-15	1.000000
rad34	3.67253e-15	1.000000	3.67253e-15	1.000000
rad51	2.62615e-15	1.000000	2.62615e-15	1.000000
rad41	1.01308e-15	1.000000	1.01308e-15	1.000000
rad42	5.82033e-16	1.000000	5.82033e-16	1.000000
rad65	6.97793e-17	1.000000	6.97793e-17	1.000000
rad53	1.97860e-17	1.000000	1.97860e-17	1.000000
rad64	6.46999e-18	1.000000	6.46999e-18	1.000000
rad61	2.22252e-18	1.000000	2.22252e-18	1.000000
rad56	1.96583e-19	1.000000	1.96583e-19	1.000000
rad68syn	2.54704e-20	1.000000	2.54704e-20	1.000000
rad68anti	1.89312e-20	1.000000	1.89312e-20	1.000000
rad40syn	4.46797e-22	1.000000	4.46797e-22	1.000000
rad40anti	3.55555e-22	1.000000	3.55555e-22	1.000000
PAH8+H	9.71820e-23	1.000000	9.71820e-23	1.000000
rad73	1.79367e-23	1.000000	1.79367e-23	1.000000
rad71	2.10958e-25	1.000000	2.10958e-25	1.000000
rad19anti	2.63449e-29	1.000000	2.63449e-29	1.000000
rad6	2.22049e-30	1.000000	2.22049e-30	1.000000
rad2	2.31229e-31	1.000000	2.31229e-31	1.000000
rad1	1.66578e-32	1.000000	1.66578e-32	1.000000
rad47	1.37151e-32	1.000000	1.37151e-32	1.000000
rad10	1.17491e-32	1.000000	1.17491e-32	1.000000
rad26	3.52542e-33	1.000000	3.52542e-33	1.000000
rad3	1.37837e-33	1.000000	1.37837e-33	1.000000
rad28	1.10270e-33	1.000000	1.10270e-33	1.000000

rad4	7.20902e-34	1.00000	7.20902e-34	1.00000
rad7	1.66778e-34	1.00000	1.66778e-34	1.00000
rad11	4.03399e-35	1.00000	4.03399e-35	1.00000
rad31	3.40261e-35	1.00000	3.40261e-35	1.00000
rad14	2.89792e-36	1.00000	2.89792e-36	1.00000
rad25	1.98428e-36	1.00000	1.98428e-36	1.00000
rad9	1.24893e-36	1.00000	1.24893e-36	1.00000
rad13	9.48439e-37	1.00000	9.48439e-37	1.00000
rad27	5.02558e-37	1.00000	5.02558e-37	1.00000
rad19syn	7.46104e-38	1.00000	7.46104e-38	1.00000
rad33	1.90939e-39	1.00000	1.90939e-39	1.00000
rad15	5.60399e-40	1.00000	5.60399e-40	1.00000
rad23	3.33173e-40	1.00000	3.33173e-40	1.00000
rad5	3.31615e-40	1.00000	3.31615e-40	1.00000
rad45	9.10792e-42	1.00000	9.10792e-42	1.00000
rad12	3.33072e-42	1.00000	3.33072e-42	1.00000
rad20	2.47256e-42	1.00000	2.47256e-42	1.00000
rad21	2.38342e-42	1.00000	2.38342e-42	1.00000
rad36	5.81012e-43	1.00000	5.81012e-43	1.00000
rad18	4.20073e-45	1.00000	4.20073e-45	1.00000
rad22	1.26855e-45	1.00000	1.26855e-45	1.00000
rad24	8.48333e-47	1.00000	8.48333e-47	1.00000
rad8	4.68586e-63	1.00000	4.68586e-63	1.00000

0.100000000E-06 Pa, 270.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.24655e-14 (1.00)	3.24655e-14 (1.00)
Formation of rad19	3.24415e-14 (0.999)	3.24415e-14 (0.999)
H-abstraction to cyc2enyl	2.38790e-17 (0.000736)	2.38790e-17 (0.000736)
H-abstraction to cyclenyl	5.45397e-20 (1.68e-06)	5.45397e-20 (1.68e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998755	0.998755	0.998755	0.998755
Benzene+cycloprop-2-enylidene	0.000735519	0.999491	0.000735519	0.999491
PhCHCCH2+H	0.000478146	0.999969	0.000478146	0.999969
PhCCH+CH3	8.60880e-06	0.999977	8.60880e-06	0.999977
C2H2+PhCH2	7.43973e-06	0.999985	7.43973e-06	0.999985
PhCCCH3+H	5.34286e-06	0.999990	5.34286e-06	0.999990
Ph+MeAc	4.86938e-06	0.999995	4.86938e-06	0.999995
Benzene+cycloprop-1-enylidene	1.67993e-06	0.999997	1.67993e-06	0.999997
rad67	1.40525e-06	0.999998	1.40525e-06	0.999998
Ph+Allene	6.54187e-07	0.999999	6.54187e-07	0.999999
rad35	5.95116e-07	0.999999	5.95116e-07	0.999999
PhCH2CCH+H	1.03828e-07	1.000000	1.03828e-07	1.000000
PAH7+H	6.80924e-08	1.000000	6.80924e-08	1.000000
rad37	1.91542e-08	1.000000	1.91542e-08	1.000000
rad39	1.91343e-08	1.000000	1.91343e-08	1.000000
rad30	1.15872e-08	1.000000	1.15872e-08	1.000000
PAH9+H	1.07084e-09	1.000000	1.07084e-09	1.000000
rad38	5.32069e-10	1.000000	5.32069e-10	1.000000
PhcycC3H3_A+H	1.30538e-10	1.000000	1.30538e-10	1.000000
PAH10+CH3	1.09134e-10	1.000000	1.09134e-10	1.000000
rad60syn	7.96566e-11	1.000000	7.96566e-11	1.000000
PAH3+H	5.69580e-11	1.000000	5.69580e-11	1.000000
rad60anti	4.05238e-11	1.000000	4.05238e-11	1.000000
rad46	3.57543e-11	1.000000	3.57543e-11	1.000000
rad59	1.07444e-11	1.000000	1.07444e-11	1.000000
rad54	3.96666e-12	1.000000	3.96666e-12	1.000000
rad43	3.41976e-12	1.000000	3.41976e-12	1.000000
PhcycC3H3_B+H	2.69151e-12	1.000000	2.69151e-12	1.000000
Phenyl+cycC3H4	2.60320e-12	1.000000	0.000000	1.000000
rad62	7.63634e-13	1.000000	7.63634e-13	1.000000
rad50	5.53420e-13	1.000000	5.53420e-13	1.000000
rad70	1.44343e-13	1.000000	1.44343e-13	1.000000
PAH1+H	8.70739e-14	1.000000	8.70739e-14	1.000000
rad55	6.36740e-14	1.000000	6.36740e-14	1.000000
rad52	6.63065e-15	1.000000	6.63065e-15	1.000000
rad58	5.12944e-15	1.000000	5.12944e-15	1.000000
rad34	4.95119e-15	1.000000	4.95119e-15	1.000000
rad51	3.41605e-15	1.000000	3.41605e-15	1.000000
rad41	1.38732e-15	1.000000	1.38732e-15	1.000000
rad42	7.76679e-16	1.000000	7.76679e-16	1.000000
rad65	9.20538e-17	1.000000	9.20538e-17	1.000000
rad53	3.15550e-17	1.000000	3.15550e-17	1.000000
rad64	1.07030e-17	1.000000	1.07030e-17	1.000000
rad61	4.14942e-18	1.000000	4.14942e-18	1.000000
rad56	3.86758e-19	1.000000	3.86758e-19	1.000000

rad68syn	5.09279e-20	1.000000	5.09279e-20	1.000000
rad68anti	3.76574e-20	1.000000	3.76574e-20	1.000000
rad40syn	1.04541e-21	1.000000	1.04541e-21	1.000000
rad40anti	8.30243e-22	1.000000	8.30243e-22	1.000000
PAH8+H	2.52772e-22	1.000000	2.52772e-22	1.000000
rad73	4.24308e-23	1.000000	4.24308e-23	1.000000
rad71	5.73649e-25	1.000000	5.73649e-25	1.000000
rad19anti	9.66950e-29	1.000000	9.66950e-29	1.000000
rad6	7.70686e-30	1.000000	7.70686e-30	1.000000
rad2	5.37407e-31	1.000000	5.37407e-31	1.000000
rad1	3.92298e-32	1.000000	3.92298e-32	1.000000
rad10	2.72747e-32	1.000000	2.72747e-32	1.000000
rad47	1.61683e-32	1.000000	1.61683e-32	1.000000
rad26	4.33214e-33	1.000000	4.33214e-33	1.000000
rad3	2.95020e-33	1.000000	2.95020e-33	1.000000
rad28	1.63057e-33	1.000000	1.63057e-33	1.000000
rad4	1.54876e-33	1.000000	1.54876e-33	1.000000
rad7	5.79789e-34	1.000000	5.79789e-34	1.000000
rad11	1.39292e-34	1.000000	1.39292e-34	1.000000
rad31	1.03174e-34	1.000000	1.03174e-34	1.000000
rad13	3.30618e-36	1.000000	3.30618e-36	1.000000
rad14	3.05576e-36	1.000000	3.05576e-36	1.000000
rad25	2.14074e-36	1.000000	2.14074e-36	1.000000
rad9	2.10565e-36	1.000000	2.10565e-36	1.000000
rad27	5.54214e-37	1.000000	5.54214e-37	1.000000
rad19syn	3.27847e-37	1.000000	3.27847e-37	1.000000
rad33	6.25591e-39	1.000000	6.25591e-39	1.000000
rad23	1.77185e-39	1.000000	1.77185e-39	1.000000
rad15	9.47164e-40	1.000000	9.47164e-40	1.000000
rad5	3.22007e-40	1.000000	3.22007e-40	1.000000
rad45	5.12279e-41	1.000000	5.12279e-41	1.000000
rad12	6.55844e-42	1.000000	6.55844e-42	1.000000
rad20	3.30855e-42	1.000000	3.30855e-42	1.000000
rad36	3.28910e-42	1.000000	3.28910e-42	1.000000
rad21	3.23562e-42	1.000000	3.23562e-42	1.000000
rad22	5.51784e-45	1.000000	5.51784e-45	1.000000
rad18	4.88590e-45	1.000000	4.88590e-45	1.000000
rad24	1.42931e-46	1.000000	1.42931e-46	1.000000
rad8	9.13967e-63	1.000000	9.13967e-63	1.000000

0.100000000E-06 Pa, 280.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.52572e-14 (1.00)	3.52572e-14 (1.00)
Formation of rad19	3.52244e-14 (0.999)	3.52244e-14 (0.999)
H-abstraction to cyc2enyl	3.26639e-17 (0.000926)	3.26639e-17 (0.000926)
H-abstraction to cyclenyl	9.42926e-20 (2.67e-06)	9.42926e-20 (2.67e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998535	0.998535	0.998535	0.998535
Benzene+cycloprop-2-enylidene	0.000926445	0.999462	0.000926445	0.999462
PhCHCCH2+H	0.000504654	0.999966	0.000504654	0.999966
PhCCH+CH3	9.09038e-06	0.999976	9.09038e-06	0.999976
C2H2+PhCH2	7.97755e-06	0.999984	7.97755e-06	0.999984
PhCCCH3+H	5.68676e-06	0.999989	5.68676e-06	0.999989
Ph+MeAc	5.25697e-06	0.999994	5.25697e-06	0.999994
Benzene+cycloprop-1-enylidene	2.67442e-06	0.999997	2.67442e-06	0.999997
rad67	1.51340e-06	0.999999	1.51340e-06	0.999999
Ph+Allene	7.29448e-07	0.999999	7.29448e-07	0.999999
rad35	6.39046e-07	1.00000	6.39046e-07	1.00000
PhCH2CCH+H	1.17909e-07	1.00000	1.17909e-07	1.00000
PAH7+H	7.46290e-08	1.00000	7.46290e-08	1.00000
rad37	2.11094e-08	1.00000	2.11094e-08	1.00000
rad39	2.09522e-08	1.00000	2.09522e-08	1.00000
rad30	1.24940e-08	1.00000	1.24940e-08	1.00000
PAH9+H	1.18522e-09	1.00000	1.18522e-09	1.00000
rad38	5.96837e-10	1.00000	5.96837e-10	1.00000
PhcycC3H3_A+H	1.74264e-10	1.00000	1.74264e-10	1.00000
PAH10+CH3	1.33029e-10	1.00000	1.33029e-10	1.00000
rad60syn	8.87606e-11	1.00000	8.87606e-11	1.00000
PAH3+H	6.61334e-11	1.00000	6.61334e-11	1.00000
rad60anti	4.52857e-11	1.00000	4.52857e-11	1.00000
rad46	4.03796e-11	1.00000	4.03796e-11	1.00000
rad59	1.23862e-11	1.00000	1.23862e-11	1.00000
rad54	4.83284e-12	1.00000	4.83284e-12	1.00000
PhcycC3H3_B+H	4.15199e-12	1.00000	4.15199e-12	1.00000
rad43	4.04946e-12	1.00000	4.04946e-12	1.00000
Phenyl+cycC3H4	3.74742e-12	1.00000	0.00000	1.00000

rad62	9.02853e-13	1.00000	9.02853e-13	1.00000
rad50	6.64061e-13	1.00000	6.64061e-13	1.00000
rad70	1.84259e-13	1.00000	1.84259e-13	1.00000
PAH1+H	1.17039e-13	1.00000	1.17039e-13	1.00000
rad55	8.11651e-14	1.00000	8.11651e-14	1.00000
rad52	8.29198e-15	1.00000	8.29198e-15	1.00000
rad58	6.70136e-15	1.00000	6.70136e-15	1.00000
rad34	6.68467e-15	1.00000	6.68467e-15	1.00000
rad51	4.46577e-15	1.00000	4.46577e-15	1.00000
rad41	1.89783e-15	1.00000	1.89783e-15	1.00000
rad42	1.03572e-15	1.00000	1.03572e-15	1.00000
rad65	1.21961e-16	1.00000	1.21961e-16	1.00000
rad53	4.97919e-17	1.00000	4.97919e-17	1.00000
rad64	1.74396e-17	1.00000	1.74396e-17	1.00000
rad61	7.53772e-18	1.00000	7.53772e-18	1.00000
rad56	7.36384e-19	1.00000	7.36384e-19	1.00000
rad68syn	9.83169e-20	1.00000	9.83169e-20	1.00000
rad68anti	7.23595e-20	1.00000	7.23595e-20	1.00000
rad40syn	2.31284e-21	1.00000	2.31284e-21	1.00000
rad40anti	1.83329e-21	1.00000	1.83329e-21	1.00000
PAH8+H	6.12419e-22	1.00000	6.12419e-22	1.00000
rad73	9.50003e-23	1.00000	9.50003e-23	1.00000
rad71	1.44434e-24	1.00000	1.44434e-24	1.00000
rad19anti	3.59338e-28	1.00000	3.59338e-28	1.00000
rad6	2.76090e-29	1.00000	2.76090e-29	1.00000
rad2	1.27849e-30	1.00000	1.27849e-30	1.00000
rad1	9.46598e-32	1.00000	9.46598e-32	1.00000
rad10	6.56817e-32	1.00000	6.56817e-32	1.00000
rad47	1.94125e-32	1.00000	1.94125e-32	1.00000
rad3	6.29387e-33	1.00000	6.29387e-33	1.00000
rad26	6.08891e-33	1.00000	6.08891e-33	1.00000
rad4	3.31736e-33	1.00000	3.31736e-33	1.00000
rad28	2.98720e-33	1.00000	2.98720e-33	1.00000
rad7	2.07980e-33	1.00000	2.07980e-33	1.00000
rad11	4.95919e-34	1.00000	4.95919e-34	1.00000
rad31	3.20736e-34	1.00000	3.20736e-34	1.00000
rad13	1.18956e-35	1.00000	1.18956e-35	1.00000
rad9	3.80269e-36	1.00000	3.80269e-36	1.00000
rad14	3.24356e-36	1.00000	3.24356e-36	1.00000
rad25	2.32380e-36	1.00000	2.32380e-36	1.00000
rad19syn	1.48909e-36	1.00000	1.48909e-36	1.00000
rad27	6.18629e-37	1.00000	6.18629e-37	1.00000
rad33	2.18071e-38	1.00000	2.18071e-38	1.00000
rad23	9.90996e-39	1.00000	9.90996e-39	1.00000
rad15	1.71508e-39	1.00000	1.71508e-39	1.00000
rad45	3.31845e-40	1.00000	3.31845e-40	1.00000
rad5	3.13211e-40	1.00000	3.13211e-40	1.00000
rad36	2.14572e-41	1.00000	2.14572e-41	1.00000
rad12	1.33023e-41	1.00000	1.33023e-41	1.00000
rad20	4.53180e-42	1.00000	4.53180e-42	1.00000
rad21	4.48980e-42	1.00000	4.48980e-42	1.00000
rad22	2.52325e-44	1.00000	2.52325e-44	1.00000
rad18	5.94279e-45	1.00000	5.94279e-45	1.00000
rad24	2.46489e-46	1.00000	2.46489e-46	1.00000
rad8	1.82566e-62	1.00000	1.82566e-62	1.00000

0.100000000E-06 Pa, 290.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.81171e-14 (1.00)	3.81171e-14 (1.00)
Formation of rad19	3.80733e-14 (0.999)	3.80733e-14 (0.999)
H-abstraction to cyc2enyl	4.36868e-17 (0.00115)	4.36868e-17 (0.00115)
H-abstraction to cyclenyl	1.56861e-19 (4.12e-06)	1.56861e-19 (4.12e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998282	0.998282	0.998282	0.998282
Benzene+cycloprop-2-enylidene	0.00114612	0.999429	0.00114612	0.999429
PhCHCCH2+H	0.000533552	0.999962	0.000533552	0.999962
PhCCH+CH3	9.61277e-06	0.999972	9.61277e-06	0.999972
C2H2+PhCH2	8.57172e-06	0.999980	8.57172e-06	0.999980
PhCCCH3+H	6.06370e-06	0.999986	6.06370e-06	0.999986
Ph+MeAc	5.68749e-06	0.999992	5.68749e-06	0.999992
Benzene+cycloprop-1-enylidene	4.11523e-06	0.999996	4.11523e-06	0.999996
rad67	1.63346e-06	0.999998	1.63346e-06	0.999998
Ph+Allene	8.15840e-07	0.999999	8.15840e-07	0.999999
rad35	6.87689e-07	0.999999	6.87689e-07	0.999999
PhCH2CCH+H	1.34349e-07	0.999999	1.34349e-07	0.999999
PAH7+H	8.20060e-08	0.999999	8.20060e-08	0.999999

rad37	2.33285e-08	1.000000	2.33285e-08	1.000000
rad39	2.30001e-08	1.000000	2.30001e-08	1.000000
rad30	1.35042e-08	1.000000	1.35042e-08	1.000000
PAH9+H	1.31607e-09	1.000000	1.31607e-09	1.000000
rad38	6.71988e-10	1.000000	6.71988e-10	1.000000
PhcycC3H3_A+H	2.32248e-10	1.000000	2.32248e-10	1.000000
PAH10+CH3	1.62717e-10	1.000000	1.62717e-10	1.000000
rad60syn	9.92285e-11	1.000000	9.92285e-11	1.000000
PAH3+H	7.70956e-11	1.000000	7.70956e-11	1.000000
rad60anti	5.07758e-11	1.000000	5.07758e-11	1.000000
rad46	4.57748e-11	1.000000	4.57748e-11	1.000000
rad59	1.43338e-11	1.000000	1.43338e-11	1.000000
PhcycC3H3_B+H	6.32701e-12	1.000000	6.32701e-12	1.000000
rad54	5.90859e-12	1.000000	5.90859e-12	1.000000
Phenyl+cycC3H4	5.36584e-12	1.000000	0.00000	1.000000
rad43	4.80969e-12	1.000000	4.80969e-12	1.000000
rad62	1.07018e-12	1.000000	1.07018e-12	1.000000
rad50	8.00597e-13	1.000000	8.00597e-13	1.000000
rad70	2.35807e-13	1.000000	2.35807e-13	1.000000
PAH1+H	1.57377e-13	1.000000	1.57377e-13	1.000000
rad55	1.03709e-13	1.000000	1.03709e-13	1.000000
rad52	1.04176e-14	1.000000	1.04176e-14	1.000000
rad34	9.02825e-15	1.000000	9.02825e-15	1.000000
rad58	8.77577e-15	1.000000	8.77577e-15	1.000000
rad51	5.86071e-15	1.000000	5.86071e-15	1.000000
rad41	2.59126e-15	1.000000	2.59126e-15	1.000000
rad42	1.37914e-15	1.000000	1.37914e-15	1.000000
rad65	1.62088e-16	1.000000	1.62088e-16	1.000000
rad53	7.76876e-17	1.000000	7.76876e-17	1.000000
rad64	2.79837e-17	1.000000	2.79837e-17	1.000000
rad61	1.33318e-17	1.000000	1.33318e-17	1.000000
rad56	1.35816e-18	1.000000	1.35816e-18	1.000000
rad68syn	1.83484e-19	1.000000	1.83484e-19	1.000000
rad68anti	1.34481e-19	1.000000	1.34481e-19	1.000000
rad40syn	4.85494e-21	1.000000	4.85494e-21	1.000000
rad40anti	3.84148e-21	1.000000	3.84148e-21	1.000000
PAH8+H	1.38965e-21	1.000000	1.38965e-21	1.000000
rad73	2.01863e-22	1.000000	2.01863e-22	1.000000
rad71	3.38824e-24	1.000000	3.38824e-24	1.000000
rad19anti	1.34354e-27	1.000000	1.34354e-27	1.000000
rad6	9.97126e-29	1.000000	9.97126e-29	1.000000
rad2	3.22247e-30	1.000000	3.22247e-30	1.000000
rad1	2.42240e-31	1.000000	2.42240e-31	1.000000
rad10	1.62917e-31	1.000000	1.62917e-31	1.000000
rad47	2.37555e-32	1.000000	2.37555e-32	1.000000
rad3	1.46614e-32	1.000000	1.46614e-32	1.000000
rad26	9.85261e-33	1.000000	9.85261e-33	1.000000
rad4	7.76117e-33	1.000000	7.76117e-33	1.000000
rad7	7.51847e-33	1.000000	7.51847e-33	1.000000
rad28	6.46102e-33	1.000000	6.46102e-33	1.000000
rad11	1.77767e-33	1.000000	1.77767e-33	1.000000
rad31	1.01787e-33	1.000000	1.01787e-33	1.000000
rad13	4.31465e-35	1.000000	4.31465e-35	1.000000
rad9	7.67595e-36	1.000000	7.67595e-36	1.000000
rad19syn	6.95957e-36	1.000000	6.95957e-36	1.000000
rad14	3.47059e-36	1.000000	3.47059e-36	1.000000
rad25	2.53911e-36	1.000000	2.53911e-36	1.000000
rad27	7.02605e-37	1.000000	7.02605e-37	1.000000
rad33	7.74918e-38	1.000000	7.74918e-38	1.000000
rad23	5.78684e-38	1.000000	5.78684e-38	1.000000
rad15	3.47192e-39	1.000000	3.47192e-39	1.000000
rad45	2.11239e-39	1.000000	2.11239e-39	1.000000
rad5	3.05159e-40	1.000000	3.05159e-40	1.000000
rad36	1.37640e-40	1.000000	1.37640e-40	1.000000
rad12	2.78138e-41	1.000000	2.78138e-41	1.000000
rad20	6.45502e-42	1.000000	6.45502e-42	1.000000
rad21	6.44674e-42	1.000000	6.44674e-42	1.000000
rad22	1.20240e-43	1.000000	1.20240e-43	1.000000
rad18	8.06848e-45	1.000000	8.06848e-45	1.000000
rad24	4.35652e-46	1.000000	4.35652e-46	1.000000
rad8	3.73727e-62	1.000000	3.73727e-62	1.000000

0.100000000E-06 Pa, 300.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.34809e-14 (1.00)	5.34809e-14 (1.00)
Formation of rad19	5.34010e-14 (0.999)	5.34010e-14 (0.999)
H-abstraction to cyc2enyl	7.95823e-17 (0.00149)	7.95823e-17 (0.00149)
H-abstraction to cyclenyl	3.44981e-19 (6.45e-06)	3.44981e-19 (6.45e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997939	0.997939	0.997939	0.997939
Benzene+cycloprop-2-enylidene	0.00148805	0.999427	0.00148805	0.999427
PhCCH2+H	0.000529814	0.999957	0.000529814	0.999957
PhCCH+CH3	1.04615e-05	0.999968	1.04615e-05	0.999968
C2H2+PhCH2	9.96265e-06	0.999978	9.96265e-06	0.999978
Benzene+cycloprop-1-enylidene	6.45054e-06	0.999984	6.45054e-06	0.999984
PhCCCH3+H	6.36715e-06	0.999990	6.36715e-06	0.999990
Ph+MeAc	5.99826e-06	0.999996	5.99826e-06	0.999996
rad67	1.76909e-06	0.999998	1.76909e-06	0.999998
Ph+Allene	8.18996e-07	0.999999	8.18996e-07	0.999999
rad35	7.31807e-07	1.000000	7.31807e-07	1.000000
PhCH2CCH+H	1.62469e-07	1.000000	1.62469e-07	1.000000
PAH7+H	1.00667e-07	1.000000	1.00667e-07	1.000000
rad37	2.83206e-08	1.000000	2.83206e-08	1.000000
rad39	2.48351e-08	1.000000	2.48351e-08	1.000000
rad30	1.39398e-08	1.000000	1.39398e-08	1.000000
PAH9+H	1.67898e-09	1.000000	1.67898e-09	1.000000
rad38	7.72652e-10	1.000000	7.72652e-10	1.000000
PhcycC3H3_A+H	3.25290e-10	1.000000	3.25290e-10	1.000000
PAH10+CH3	2.37266e-10	1.000000	2.37266e-10	1.000000
rad60syn	1.06834e-10	1.000000	1.06834e-10	1.000000
PAH3+H	9.84715e-11	1.000000	9.84715e-11	1.000000
rad60anti	5.51572e-11	1.000000	5.51572e-11	1.000000
rad46	5.45644e-11	1.000000	5.45644e-11	1.000000
rad59	1.67258e-11	1.000000	1.67258e-11	1.000000
PhcycC3H3_B+H	1.05896e-11	1.000000	1.05896e-11	1.000000
Phenyl+cycC3H4	8.20984e-12	1.000000	0.000000	1.000000
rad54	7.66783e-12	1.000000	7.66783e-12	1.000000
rad43	5.65558e-12	1.000000	5.65558e-12	1.000000
rad62	1.25276e-12	1.000000	1.25276e-12	1.000000
rad50	1.03316e-12	1.000000	1.03316e-12	1.000000
rad70	3.13392e-13	1.000000	3.13392e-13	1.000000
PAH1+H	1.93779e-13	1.000000	1.93779e-13	1.000000
rad55	1.33843e-13	1.000000	1.33843e-13	1.000000
rad52	1.45721e-14	1.000000	1.45721e-14	1.000000
rad34	1.28521e-14	1.000000	1.28521e-14	1.000000
rad58	1.11204e-14	1.000000	1.11204e-14	1.000000
rad51	8.23952e-15	1.000000	8.23952e-15	1.000000
rad41	3.58185e-15	1.000000	3.58185e-15	1.000000
rad42	1.81926e-15	1.000000	1.81926e-15	1.000000
rad65	2.32648e-16	1.000000	2.32648e-16	1.000000
rad53	1.29481e-16	1.000000	1.29481e-16	1.000000
rad64	4.98973e-17	1.000000	4.98973e-17	1.000000
rad61	2.74862e-17	1.000000	2.74862e-17	1.000000
rad56	3.01521e-18	1.000000	3.01521e-18	1.000000
rad68syn	3.96643e-19	1.000000	3.96643e-19	1.000000
rad68anti	2.85688e-19	1.000000	2.85688e-19	1.000000
rad40syn	1.34588e-20	1.000000	1.34588e-20	1.000000
rad40anti	1.02810e-20	1.000000	1.02810e-20	1.000000
PAH8+H	5.53972e-21	1.000000	5.53972e-21	1.000000
rad73	6.54843e-22	1.000000	6.54843e-22	1.000000
rad71	2.13406e-23	1.000000	2.13406e-23	1.000000
rad19anti	1.46846e-23	1.000000	1.46846e-23	1.000000
rad2	8.86932e-26	1.000000	8.86932e-26	1.000000
rad6	8.80437e-26	1.000000	8.80437e-26	1.000000
rad1	6.68293e-27	1.000000	6.68293e-27	1.000000
rad10	5.15304e-27	1.000000	5.15304e-27	1.000000
rad3	1.32361e-27	1.000000	1.32361e-27	1.000000
rad26	9.29241e-28	1.000000	9.29241e-28	1.000000
rad4	6.58233e-28	1.000000	6.58233e-28	1.000000
rad9	4.44716e-28	1.000000	4.44716e-28	1.000000
rad28	1.49242e-28	1.000000	1.49242e-28	1.000000
rad23	1.59577e-29	1.000000	1.59577e-29	1.000000
rad31	9.66297e-30	1.000000	9.66297e-30	1.000000
rad7	7.74701e-30	1.000000	7.74701e-30	1.000000
rad72	4.67174e-30	1.000000	4.67174e-30	1.000000
rad11	1.83732e-30	1.000000	1.83732e-30	1.000000
rad45	1.33547e-30	1.000000	1.33547e-30	1.000000
rad19syn	1.12386e-30	1.000000	1.12386e-30	1.000000
rad25	3.61943e-31	1.000000	3.61943e-31	1.000000
rad14	2.58170e-31	1.000000	2.58170e-31	1.000000
rad15	2.57881e-31	1.000000	2.57881e-31	1.000000
rad47	1.77284e-31	1.000000	1.77284e-31	1.000000
rad27	1.46073e-31	1.000000	1.46073e-31	1.000000
rad36	4.55141e-32	1.000000	4.55141e-32	1.000000
rad13	4.51109e-32	1.000000	4.51109e-32	1.000000
rad12	9.82801e-33	1.000000	9.82801e-33	1.000000

rad33	1.34748e-33	1.00000	1.34748e-33	1.00000
rad5	6.27802e-34	1.00000	6.27802e-34	1.00000
rad21	1.07596e-34	1.00000	1.07596e-34	1.00000
rad20	6.33118e-35	1.00000	6.33118e-35	1.00000
rad22	1.77140e-35	1.00000	1.77140e-35	1.00000
rad18	1.20178e-36	1.00000	1.20178e-36	1.00000
rad24	4.91751e-38	1.00000	4.91751e-38	1.00000
rad8	3.04177e-48	1.00000	3.04177e-48	1.00000

0.100000000E-06 Pa, 310.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.92544e-14 (1.00)	5.92544e-14 (1.00)
Formation of rad19	5.91462e-14 (0.998)	5.91462e-14 (0.998)
H-abstraction to cyc2enyl	1.07628e-16 (0.00182)	1.07628e-16 (0.00182)
H-abstraction to cyclenyl	5.62537e-19 (9.49e-06)	5.62537e-19 (9.49e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997536	0.997536	0.997536	0.997536
Benzene+cycloprop-2-enylidene	0.00181637	0.999353	0.00181637	0.999353
PhCHCCH2+H	0.000599213	0.999952	0.000599213	0.999952
PhCCH+CH3	1.07899e-05	0.999963	1.07899e-05	0.999963
C2H2+PhCH2	9.94973e-06	0.999973	9.94973e-06	0.999973
Benzene+cycloprop-1-enylidene	9.49359e-06	0.999982	9.49359e-06	0.999982
PhCCH3+H	6.92725e-06	0.999989	6.92725e-06	0.999989
Ph+MeAc	6.69436e-06	0.999996	6.69436e-06	0.999996
rad67	1.91404e-06	0.999998	1.91404e-06	0.999998
Ph+Allene	1.02854e-06	0.999999	1.02854e-06	0.999999
rad35	8.00939e-07	0.999999	8.00939e-07	0.999999
PhCH2CCH+H	1.75897e-07	1.000000	1.75897e-07	1.000000
PAH7+H	9.96917e-08	1.000000	9.96917e-08	1.000000
rad37	2.86985e-08	1.000000	2.86985e-08	1.000000
rad39	2.78945e-08	1.000000	2.78945e-08	1.000000
rad30	1.58794e-08	1.000000	1.58794e-08	1.000000
PAH9+H	1.63685e-09	1.000000	1.63685e-09	1.000000
rad38	8.60336e-10	1.000000	8.60336e-10	1.000000
PhcycC3H3_A+H	4.09102e-10	1.000000	4.09102e-10	1.000000
PAH10+CH3	2.45221e-10	1.000000	2.45221e-10	1.000000
rad60syn	1.25085e-10	1.000000	1.25085e-10	1.000000
PAH3+H	1.05828e-10	1.000000	1.05828e-10	1.000000
rad60anti	6.43937e-11	1.000000	6.43937e-11	1.000000
rad46	5.94068e-11	1.000000	5.94068e-11	1.000000
rad59	1.93817e-11	1.000000	1.93817e-11	1.000000
PhcycC3H3_B+H	1.41415e-11	1.000000	1.41415e-11	1.000000
Phenyl+cycC3H4	1.07882e-11	1.000000	0.000000	1.000000
rad54	8.89606e-12	1.000000	8.89606e-12	1.000000
rad43	6.83075e-12	1.000000	6.83075e-12	1.000000
rad62	1.51159e-12	1.000000	1.51159e-12	1.000000
rad50	1.17696e-12	1.000000	1.17696e-12	1.000000
rad70	3.87563e-13	1.000000	3.87563e-13	1.000000
PAH1+H	2.83537e-13	1.000000	2.83537e-13	1.000000
rad55	1.69858e-13	1.000000	1.69858e-13	1.000000
rad52	1.66060e-14	1.000000	1.66060e-14	1.000000
rad34	1.64058e-14	1.000000	1.64058e-14	1.000000
rad58	1.50872e-14	1.000000	1.50872e-14	1.000000
rad51	1.01582e-14	1.000000	1.01582e-14	1.000000
rad41	4.78440e-15	1.000000	4.78440e-15	1.000000
rad42	2.42635e-15	1.000000	2.42635e-15	1.000000
rad65	2.87409e-16	1.000000	2.87409e-16	1.000000
rad53	1.82136e-16	1.000000	1.82136e-16	1.000000
rad64	6.86553e-17	1.000000	6.86553e-17	1.000000
rad61	3.85257e-17	1.000000	3.85257e-17	1.000000
rad56	4.20810e-18	1.000000	4.20810e-18	1.000000
rad68syn	5.79184e-19	1.000000	5.79184e-19	1.000000
rad68anti	4.21603e-19	1.000000	4.21603e-19	1.000000
rad40syn	1.84909e-20	1.000000	1.84909e-20	1.000000
rad40anti	1.45861e-20	1.000000	1.45861e-20	1.000000
PAH8+H	5.99119e-21	1.000000	5.99119e-21	1.000000
rad73	7.86975e-22	1.000000	7.86975e-22	1.000000
rad71	1.54165e-23	1.000000	1.54165e-23	1.000000
rad19anti	1.86169e-26	1.000000	1.86169e-26	1.000000
rad6	1.25389e-27	1.000000	1.25389e-27	1.000000
rad2	2.13491e-29	1.000000	2.13491e-29	1.000000
rad1	1.65949e-30	1.000000	1.65949e-30	1.000000
rad10	1.06193e-30	1.000000	1.06193e-30	1.000000
rad7	9.45679e-32	1.000000	9.45679e-32	1.000000
rad3	8.23232e-32	1.000000	8.23232e-32	1.000000
rad4	4.39965e-32	1.000000	4.39965e-32	1.000000

rad28	3.78970e-32	1.000000	3.78970e-32	1.000000
rad47	3.77537e-32	1.000000	3.77537e-32	1.000000
rad26	3.55641e-32	1.000000	3.55641e-32	1.000000
rad11	2.19111e-32	1.000000	2.19111e-32	1.000000
rad31	1.07023e-32	1.000000	1.07023e-32	1.000000
rad13	5.46979e-34	1.000000	5.46979e-34	1.000000
rad19syn	1.62279e-34	1.000000	1.62279e-34	1.000000
rad9	5.17709e-35	1.000000	5.17709e-35	1.000000
rad14	4.12017e-36	1.000000	4.12017e-36	1.000000
rad25	3.10196e-36	1.000000	3.10196e-36	1.000000
rad23	2.18426e-36	1.000000	2.18426e-36	1.000000
rad27	9.98723e-37	1.000000	9.98723e-37	1.000000
rad33	9.48652e-37	1.000000	9.48652e-37	1.000000
rad45	9.82490e-38	1.000000	9.82490e-38	1.000000
rad15	2.35615e-38	1.000000	2.35615e-38	1.000000
rad36	6.51379e-39	1.000000	6.51379e-39	1.000000
rad5	2.91059e-40	1.000000	2.91059e-40	1.000000
rad12	1.33665e-40	1.000000	1.33665e-40	1.000000
rad20	1.71520e-41	1.000000	1.71520e-41	1.000000
rad21	1.66458e-41	1.000000	1.66458e-41	1.000000
rad22	3.00051e-42	1.000000	3.00051e-42	1.000000
rad18	3.09188e-44	1.000000	3.09188e-44	1.000000
rad24	1.48151e-45	1.000000	1.48151e-45	1.000000
rad8	1.69031e-61	1.000000	1.69031e-61	1.000000

0.100000000E-06 Pa, 400.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.29463e-13 (1.00)	1.29463e-13 (1.00)
Formation of rad19	1.28526e-13 (0.993)	1.28526e-13 (0.993)
H-abstraction to cyc2enyl	9.19357e-16 (0.00710)	9.19357e-16 (0.00710)
H-abstraction to cyclenyl	1.69485e-17 (0.000131)	1.69485e-17 (0.000131)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.991683	0.991683	0.991683	0.991683
Benzene+cycloprop-2-enylidene	0.00710133	0.998784	0.00710133	0.998784
PhCHCCH2+H	0.00100586	0.999790	0.00100586	0.999790
Benzene+cycloprop-1-enylidene	0.000130914	0.999921	0.000130914	0.999921
C2H2+PhCH2	2.22468e-05	0.999943	2.22468e-05	0.999943
PhCCH+CH3	1.95098e-05	0.999963	1.95098e-05	0.999963
Ph+MeAc	1.45179e-05	0.999977	1.45179e-05	0.999977
PhCCCH3+H	1.31952e-05	0.999990	1.31952e-05	0.999990
rad67	4.22167e-06	0.999994	4.22167e-06	0.999994
Ph+Allene	2.97391e-06	0.999997	2.97391e-06	0.999997
rad35	1.68909e-06	0.999999	1.68909e-06	0.999999
PhCH2CCH+H	6.93048e-07	1.000000	6.93048e-07	1.000000
PAH7+H	2.89758e-07	1.000000	2.89758e-07	1.000000
rad37	8.82205e-08	1.000000	8.82205e-08	1.000000
rad39	7.05188e-08	1.000000	7.05188e-08	1.000000
rad30	3.41246e-08	1.000000	3.41246e-08	1.000000
PAH9+H	5.67069e-09	1.000000	5.67069e-09	1.000000
PhcycC3H3_A+H	4.88900e-09	1.000000	4.88900e-09	1.000000
rad38	3.07435e-09	1.000000	3.07435e-09	1.000000
PAH10+CH3	1.94150e-09	1.000000	1.94150e-09	1.000000
PAH3+H	5.34449e-10	1.000000	5.34449e-10	1.000000
PhcycC3H3_B+H	4.15151e-10	1.000000	4.15151e-10	1.000000
rad60syn	3.79130e-10	1.000000	3.79130e-10	1.000000
rad46	2.31290e-10	1.000000	2.31290e-10	1.000000
Phenyl+cycC3H4	2.22328e-10	1.000000	0.000000	1.000000
rad60anti	2.01850e-10	1.000000	2.01850e-10	1.000000
rad59	8.49299e-11	1.000000	8.49299e-11	1.000000
rad54	6.39706e-11	1.000000	6.39706e-11	1.000000
rad43	3.46932e-11	1.000000	3.46932e-11	1.000000
rad50	8.28672e-12	1.000000	8.28672e-12	1.000000
rad62	7.28467e-12	1.000000	7.28467e-12	1.000000
rad70	3.85328e-12	1.000000	3.85328e-12	1.000000
PAH1+H	3.61003e-12	1.000000	3.61003e-12	1.000000
rad55	1.60055e-12	1.000000	1.60055e-12	1.000000
rad34	2.43952e-13	1.000000	2.43952e-13	1.000000
rad52	1.72576e-13	1.000000	1.72576e-13	1.000000
rad58	1.69180e-13	1.000000	1.69180e-13	1.000000
rad51	1.42864e-13	1.000000	1.42864e-13	1.000000
rad41	6.83260e-14	1.000000	6.83260e-14	1.000000
rad42	2.71734e-14	1.000000	2.71734e-14	1.000000
rad53	6.88019e-15	1.000000	6.88019e-15	1.000000
rad65	4.39173e-15	1.000000	4.39173e-15	1.000000
rad61	3.43038e-15	1.000000	3.43038e-15	1.000000
rad64	3.05834e-15	1.000000	3.05834e-15	1.000000

rad56	5.30924e-16	1.00000	5.30924e-16	1.00000
rad68syn	7.48244e-17	1.00000	7.48244e-17	1.00000
rad68anti	5.24834e-17	1.00000	5.24834e-17	1.00000
rad40syn	6.39129e-18	1.00000	6.39129e-18	1.00000
PAH8+H	5.94551e-18	1.00000	5.94551e-18	1.00000
rad40anti	4.74371e-18	1.00000	4.74371e-18	1.00000
rad73	4.85676e-19	1.00000	4.85676e-19	1.00000
rad71	4.97335e-20	1.00000	4.97335e-20	1.00000
rad19anti	4.76696e-20	1.00000	4.76696e-20	1.00000
rad6	1.95163e-22	1.00000	1.95163e-22	1.00000
rad2	1.53406e-22	1.00000	1.53406e-22	1.00000
rad1	1.42796e-23	1.00000	1.42796e-23	1.00000
rad23	1.27324e-23	1.00000	1.27324e-23	1.00000
rad10	8.48618e-24	1.00000	8.48618e-24	1.00000
rad3	2.44768e-24	1.00000	2.44768e-24	1.00000
rad45	2.30531e-24	1.00000	2.30531e-24	1.00000
rad4	1.28938e-24	1.00000	1.28938e-24	1.00000
rad72	7.32148e-25	1.00000	7.32148e-25	1.00000
rad19syn	2.04434e-25	1.00000	2.04434e-25	1.00000
rad9	1.47568e-25	1.00000	1.47568e-25	1.00000
rad36	8.89404e-26	1.00000	8.89404e-26	1.00000
rad31	5.03677e-26	1.00000	5.03677e-26	1.00000
rad7	1.68156e-26	1.00000	1.68156e-26	1.00000
rad26	7.32185e-27	1.00000	7.32185e-27	1.00000
rad11	3.37570e-27	1.00000	3.37570e-27	1.00000
rad28	3.05491e-27	1.00000	3.05491e-27	1.00000
rad13	1.03852e-28	1.00000	1.03852e-28	1.00000
rad15	8.96529e-29	1.00000	8.96529e-29	1.00000
rad12	1.89524e-29	1.00000	1.89524e-29	1.00000
rad47	7.65193e-30	1.00000	7.65193e-30	1.00000
rad22	2.51727e-30	1.00000	2.51727e-30	1.00000
rad25	1.12850e-30	1.00000	1.12850e-30	1.00000
rad14	6.69860e-31	1.00000	6.69860e-31	1.00000
rad27	5.99968e-31	1.00000	5.99968e-31	1.00000
rad33	1.95547e-31	1.00000	1.95547e-31	1.00000
rad21	4.27562e-33	1.00000	4.27562e-33	1.00000
rad20	1.83715e-33	1.00000	1.83715e-33	1.00000
rad5	6.27512e-34	1.00000	6.27512e-34	1.00000
rad24	3.56166e-35	1.00000	3.56166e-35	1.00000
rad18	7.85524e-36	1.00000	7.85524e-36	1.00000
rad8	6.65008e-45	1.00000	6.65008e-45	1.00000

0.100000000E-06 Pa, 500.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.52837e-13 (1.00)	2.52837e-13 (1.00)
Formation of rad19	2.47941e-13 (0.981)	2.47941e-13 (0.981)
H-abstraction to cyc2enyl	4.69058e-15 (0.0186)	4.69058e-15 (0.0186)
H-abstraction to cyclenyl	2.05381e-16 (0.000812)	2.05381e-16 (0.000812)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.978428	0.978428	0.978428	0.978428
Benzene+cycloprop-2-enylidene	0.0185518	0.996979	0.0185518	0.996979
PhCHCCH2+H	0.00202477	0.999004	0.00202477	0.999004
Benzene+cycloprop-1-enylidene	0.000812306	0.999816	0.000812306	0.999816
C2H2+PhCH2	5.13363e-05	0.999868	5.13363e-05	0.999868
PhCCH+CH3	3.71182e-05	0.999905	3.71182e-05	0.999905
Ph+MeAc	3.63101e-05	0.999941	3.63101e-05	0.999941
PhCCCH3+H	2.84449e-05	0.999970	2.84449e-05	0.999970
Ph+Allene	1.09470e-05	0.999981	1.09470e-05	0.999981
rad67	1.05822e-05	0.999991	1.05822e-05	0.999991
rad35	4.10935e-06	0.999995	4.10935e-06	0.999995
PhCH2CCH+H	2.95392e-06	0.999998	2.95392e-06	0.999998
PAH7+H	8.51564e-07	0.999999	8.51564e-07	0.999999
rad37	2.86678e-07	0.999999	2.86678e-07	0.999999
rad39	2.02118e-07	1.000000	2.02118e-07	1.000000
rad30	8.94923e-08	1.000000	8.94923e-08	1.000000
PhcycC3H3_A+H	5.02850e-08	1.000000	5.02850e-08	1.000000
PAH9+H	2.06879e-08	1.000000	2.06879e-08	1.000000
PAH10+CH3	1.44052e-08	1.000000	1.44052e-08	1.000000
rad38	1.31834e-08	1.000000	1.31834e-08	1.000000
PhcycC3H3_B+H	7.81107e-09	1.000000	7.81107e-09	1.000000
Phenyl+cycC3H4	3.55660e-09	1.000000	0.000000	1.000000
PAH3+H	2.97649e-09	1.000000	2.97649e-09	1.000000
rad60syn	1.43183e-09	1.000000	1.43183e-09	1.000000
rad46	1.04913e-09	1.000000	1.04913e-09	1.000000
rad60anti	7.84373e-10	1.000000	7.84373e-10	1.000000
rad54	4.68691e-10	1.000000	4.68691e-10	1.000000

rad59	4.42102e-10	1.000000	4.42102e-10	1.000000
rad43	1.96278e-10	1.000000	1.96278e-10	1.000000
rad50	6.65687e-11	1.000000	6.65687e-11	1.000000
PAH1+H	4.68911e-11	1.000000	4.68911e-11	1.000000
rad62	3.77646e-11	1.000000	3.77646e-11	1.000000
rad70	3.76454e-11	1.000000	3.76454e-11	1.000000
rad55	1.50995e-11	1.000000	1.50995e-11	1.000000
rad34	3.22092e-12	1.000000	3.22092e-12	1.000000
rad51	2.08196e-12	1.000000	2.08196e-12	1.000000
rad58	2.05092e-12	1.000000	2.05092e-12	1.000000
rad52	1.88540e-12	1.000000	1.88540e-12	1.000000
rad41	8.63972e-13	1.000000	8.63972e-13	1.000000
rad42	2.74850e-13	1.000000	2.74850e-13	1.000000
rad53	1.70507e-13	1.000000	1.70507e-13	1.000000
rad61	1.40668e-13	1.000000	1.40668e-13	1.000000
rad64	7.73135e-14	1.000000	7.73135e-14	1.000000
rad65	6.64224e-14	1.000000	6.64224e-14	1.000000
rad56	2.62115e-14	1.000000	2.62115e-14	1.000000
rad68syn	3.88259e-15	1.000000	3.88259e-15	1.000000
rad68anti	2.67414e-15	1.000000	2.67414e-15	1.000000
PAH8+H	8.47559e-16	1.000000	8.47559e-16	1.000000
rad40syn	5.55783e-16	1.000000	5.55783e-16	1.000000
rad40anti	4.06573e-16	1.000000	4.06573e-16	1.000000
rad73	6.83536e-17	1.000000	6.83536e-17	1.000000
rad71	1.35737e-17	1.000000	1.35737e-17	1.000000
rad19anti	6.68017e-18	1.000000	6.68017e-18	1.000000
rad23	7.44871e-20	1.000000	7.44871e-20	1.000000
rad2	7.36240e-20	1.000000	7.36240e-20	1.000000
rad6	2.62275e-20	1.000000	2.62275e-20	1.000000
rad45	2.17166e-20	1.000000	2.17166e-20	1.000000
rad1	8.87379e-21	1.000000	8.87379e-21	1.000000
rad10	3.16354e-21	1.000000	3.16354e-21	1.000000
rad72	1.99196e-21	1.000000	1.99196e-21	1.000000
rad19syn	1.45990e-21	1.000000	1.45990e-21	1.000000
rad3	1.44058e-21	1.000000	1.44058e-21	1.000000
rad36	1.19582e-21	1.000000	1.19582e-21	1.000000
rad4	8.25051e-22	1.000000	8.25051e-22	1.000000
rad9	2.15959e-22	1.000000	2.15959e-22	1.000000
rad31	1.77645e-23	1.000000	1.77645e-23	1.000000
rad7	2.36689e-24	1.000000	2.36689e-24	1.000000
rad26	6.36622e-25	1.000000	6.36622e-25	1.000000
rad11	5.00166e-25	1.000000	5.00166e-25	1.000000
rad28	3.23206e-25	1.000000	3.23206e-25	1.000000
rad12	1.85138e-25	1.000000	1.85138e-25	1.000000
rad15	1.38978e-25	1.000000	1.38978e-25	1.000000
rad13	1.60438e-26	1.000000	1.60438e-26	1.000000
rad22	4.77949e-27	1.000000	4.77949e-27	1.000000
rad47	5.02583e-28	1.000000	5.02583e-28	1.000000
rad33	3.30180e-29	1.000000	3.30180e-29	1.000000
rad27	1.02692e-29	1.000000	1.02692e-29	1.000000
rad25	7.51333e-30	1.000000	7.51333e-30	1.000000
rad14	4.67491e-30	1.000000	4.67491e-30	1.000000
rad21	7.13684e-31	1.000000	7.13684e-31	1.000000
rad20	2.22611e-31	1.000000	2.22611e-31	1.000000
rad24	1.41937e-31	1.000000	1.41937e-31	1.000000
rad5	7.89841e-34	1.000000	7.89841e-34	1.000000
rad18	7.02719e-34	1.000000	7.02719e-34	1.000000
rad8	1.56286e-40	1.000000	1.56286e-40	1.000000

0.100000000E-06 Pa, 600.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.35570e-13 (1.00)	4.35570e-13 (1.00)
Formation of rad19	4.18892e-13 (0.962)	4.18892e-13 (0.962)
H-abstraction to cyc2enyl	1.54751e-14 (0.0355)	1.54751e-14 (0.0355)
H-abstraction to cyclenyl	1.20343e-15 (0.00276)	1.20343e-15 (0.00276)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.957276	0.957276	0.957276	0.957276
Benzene+cycloprop-2-enylidene	0.0355285	0.992805	0.0355285	0.992805
PhCHCCH2+H	0.00402172	0.996826	0.00402172	0.996826
Benzene+cycloprop-1-enylidene	0.00276289	0.999589	0.00276289	0.999589
C2H2+PhCH2	0.000111945	0.999701	0.000111945	0.999701
Ph+MeAc	8.57420e-05	0.999787	8.57420e-05	0.999787
PhCCH+CH3	6.75064e-05	0.999854	6.75064e-05	0.999854
PhCCCH3+H	5.90383e-05	0.999913	5.90383e-05	0.999913
Ph+Allene	3.56628e-05	0.999949	3.56628e-05	0.999949
rad67	2.54029e-05	0.999975	2.54029e-05	0.999975

PhCH2CCH+H	1.09199e-05	0.999985	1.09199e-05	0.999985
rad35	9.63305e-06	0.999995	9.63305e-06	0.999995
PAH7+H	2.26706e-06	0.999997	2.26706e-06	0.999997
rad37	8.64904e-07	0.999998	8.64904e-07	0.999998
rad39	5.20249e-07	0.999999	5.20249e-07	0.999999
PhcycC3H3_A+H	3.56529e-07	0.999999	3.56529e-07	0.999999
rad30	2.27441e-07	0.999999	2.27441e-07	0.999999
PAH10+CH3	8.50920e-08	0.999999	8.50920e-08	0.999999
PhcycC3H3_B+H	8.43895e-08	0.999999	8.43895e-08	0.999999
PAH9+H	7.13070e-08	1.000000	7.13070e-08	1.000000
rad38	5.21311e-08	1.000000	5.21311e-08	1.000000
Phenyl+cycC3H4	3.58023e-08	1.000000	0.000000	1.000000
PAH3+H	1.45691e-08	1.000000	1.45691e-08	1.000000
rad60syn	5.03972e-09	1.000000	5.03972e-09	1.000000
rad46	4.37621e-09	1.000000	4.37621e-09	1.000000
rad60anti	2.82886e-09	1.000000	2.82886e-09	1.000000
rad54	2.63022e-09	1.000000	2.63022e-09	1.000000
rad59	2.03126e-09	1.000000	2.03126e-09	1.000000
rad43	9.14301e-10	1.000000	9.14301e-10	1.000000
rad50	4.49074e-10	1.000000	4.49074e-10	1.000000
PAH1+H	4.05905e-10	1.000000	4.05905e-10	1.000000
rad70	2.63826e-10	1.000000	2.63826e-10	1.000000
rad62	1.58022e-10	1.000000	1.58022e-10	1.000000
rad55	1.01573e-10	1.000000	1.01573e-10	1.000000
rad34	2.81348e-11	1.000000	2.81348e-11	1.000000
rad51	2.21630e-11	1.000000	2.21630e-11	1.000000
rad58	1.79744e-11	1.000000	1.79744e-11	1.000000
rad52	1.61050e-11	1.000000	1.61050e-11	1.000000
rad41	7.27827e-12	1.000000	7.27827e-12	1.000000
rad61	2.69080e-12	1.000000	2.69080e-12	1.000000
rad53	2.26526e-12	1.000000	2.26526e-12	1.000000
rad42	1.88131e-12	1.000000	1.88131e-12	1.000000
rad64	9.96176e-13	1.000000	9.96176e-13	1.000000
rad65	7.15322e-13	1.000000	7.15322e-13	1.000000
rad56	5.47638e-13	1.000000	5.47638e-13	1.000000
rad68syn	8.54715e-14	1.000000	8.54715e-14	1.000000
rad68anti	5.81389e-14	1.000000	5.81389e-14	1.000000
PAH8+H	3.69240e-14	1.000000	3.69240e-14	1.000000
rad40syn	1.73285e-14	1.000000	1.73285e-14	1.000000
rad40anti	1.26417e-14	1.000000	1.26417e-14	1.000000
rad73	3.37834e-15	1.000000	3.37834e-15	1.000000
rad71	1.04445e-15	1.000000	1.04445e-15	1.000000
rad19anti	4.93441e-17	1.000000	4.93441e-17	1.000000
rad23	4.18354e-18	1.000000	4.18354e-18	1.000000
rad2	3.49623e-18	1.000000	3.49623e-18	1.000000
rad45	1.26811e-18	1.000000	1.26811e-18	1.000000
rad72	6.43661e-19	1.000000	6.43661e-19	1.000000
rad1	5.88203e-19	1.000000	5.88203e-19	1.000000
rad9	4.45561e-19	1.000000	4.45561e-19	1.000000
rad6	3.74764e-19	1.000000	3.74764e-19	1.000000
rad19syn	1.52297e-19	1.000000	1.52297e-19	1.000000
rad36	1.40066e-19	1.000000	1.40066e-19	1.000000
rad10	9.26044e-20	1.000000	9.26044e-20	1.000000
rad3	5.99916e-20	1.000000	5.99916e-20	1.000000
rad4	4.14944e-20	1.000000	4.14944e-20	1.000000
rad12	1.38519e-21	1.000000	1.38519e-21	1.000000
rad31	3.24820e-22	1.000000	3.24820e-22	1.000000
rad15	2.71620e-22	1.000000	2.71620e-22	1.000000
rad7	3.94501e-23	1.000000	3.94501e-23	1.000000
rad26	9.80231e-24	1.000000	9.80231e-24	1.000000
rad11	9.78962e-24	1.000000	9.78962e-24	1.000000
rad28	5.57362e-24	1.000000	5.57362e-24	1.000000
rad13	3.14362e-25	1.000000	3.14362e-25	1.000000
rad22	2.03549e-25	1.000000	2.03549e-25	1.000000
rad47	1.30363e-26	1.000000	1.30363e-26	1.000000
rad33	1.10779e-27	1.000000	1.10779e-27	1.000000
rad24	9.86982e-28	1.000000	9.86982e-28	1.000000
rad21	3.68279e-28	1.000000	3.68279e-28	1.000000
rad27	2.00633e-28	1.000000	2.00633e-28	1.000000
rad25	1.22327e-28	1.000000	1.22327e-28	1.000000
rad20	7.37839e-29	1.000000	7.37839e-29	1.000000
rad14	5.56733e-29	1.000000	5.56733e-29	1.000000
rad18	5.87919e-32	1.000000	5.87919e-32	1.000000
rad5	1.37325e-33	1.000000	1.37325e-33	1.000000
rad8	2.39366e-35	1.000000	2.39366e-35	1.000000

0.100000000E-06 Pa, 700.00000 K

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

Total	6.91694e-13 (1.00)	6.91694e-13 (1.00)
Formation of rad19	6.47922e-13 (0.937)	6.47922e-13 (0.937)
H-abstraction to cyc2enyl	3.91858e-14 (0.0567)	3.91858e-14 (0.0567)
H-abstraction to cyc1enyl	4.58543e-15 (0.00663)	4.58542e-15 (0.00663)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.928261	0.928261	0.928261	0.928261
Benzene+cycloprop-2-enylidene	0.0566520	0.984913	0.0566520	0.984913
PhCHCCH2+H	0.00759850	0.992512	0.00759851	0.992512
Benzene+cycloprop-1-enylidene	0.00662927	0.999141	0.00662927	0.999141
C2H2+PhCH2	0.000223367	0.999364	0.000223367	0.999364
Ph+MeAc	0.000184762	0.999549	0.000184762	0.999549
PhCCH+CH3	0.000114475	0.999663	0.000114475	0.999663
PhCCCH3+H	0.000114174	0.999778	0.000114174	0.999778
Ph+Allene	9.86533e-05	0.999876	9.86533e-05	0.999876
rad67	5.61617e-05	0.999932	5.61618e-05	0.999932
PhCH2CCH+H	3.37385e-05	0.999966	3.37385e-05	0.999966
rad35	2.09201e-05	0.999987	2.09202e-05	0.999987
PAH7+H	5.25052e-06	0.999992	5.25052e-06	0.999992
rad37	2.31770e-06	0.999995	2.31770e-06	0.999995
PhcycC3H3_A+H	1.84668e-06	0.999997	1.84668e-06	0.999997
rad39	1.15814e-06	0.999998	1.15814e-06	0.999998
PhcycC3H3_B+H	5.97889e-07	0.999998	5.97889e-07	0.999998
rad30	5.35177e-07	0.999999	5.35177e-07	0.999999
PAH10+CH3	3.93624e-07	0.999999	3.93624e-07	0.999999
Phenyl+cycC3H4	2.47273e-07	0.999999	0.00000	0.999999
PAH9+H	2.20558e-07	1.000000	2.20558e-07	0.999999
rad38	1.79348e-07	1.000000	1.79348e-07	1.000000
PAH3+H	5.98815e-08	1.000000	5.98815e-08	1.000000
rad46	1.59383e-08	1.000000	1.59383e-08	1.000000
rad60syn	1.57198e-08	1.000000	1.57198e-08	1.000000
rad54	1.11959e-08	1.000000	1.11959e-08	1.000000
rad60anti	9.00502e-09	1.000000	9.00502e-09	1.000000
rad59	7.88061e-09	1.000000	7.88061e-09	1.000000
rad43	3.45953e-09	1.000000	3.45953e-09	1.000000
PAH1+H	2.45995e-09	1.000000	2.45995e-09	1.000000
rad50	2.44563e-09	1.000000	2.44563e-09	1.000000
rad70	1.34938e-09	1.000000	1.34938e-09	1.000000
rad62	5.31170e-10	1.000000	5.31170e-10	1.000000
rad55	4.95201e-10	1.000000	4.95201e-10	1.000000
rad51	1.72653e-10	1.000000	1.72653e-10	1.000000
rad34	1.70511e-10	1.000000	1.70511e-10	1.000000
rad58	1.15481e-10	1.000000	1.15481e-10	1.000000
rad52	1.05442e-10	1.000000	1.05442e-10	1.000000
rad41	4.33848e-11	1.000000	4.33848e-11	1.000000
rad61	2.93831e-11	1.000000	2.93831e-11	1.000000
rad53	1.83949e-11	1.000000	1.83949e-11	1.000000
rad42	9.22818e-12	1.000000	9.22818e-12	1.000000
rad64	7.68987e-12	1.000000	7.68987e-12	1.000000
rad56	6.14022e-12	1.000000	6.14022e-12	1.000000
rad65	5.56200e-12	1.000000	5.56200e-12	1.000000
rad68syn	1.01762e-12	1.000000	1.01762e-12	1.000000
PAH8+H	7.27467e-13	1.000000	7.27467e-13	1.000000
rad68anti	6.85898e-13	1.000000	6.85898e-13	1.000000
rad40syn	2.67923e-13	1.000000	2.67923e-13	1.000000
rad40anti	1.96404e-13	1.000000	1.96404e-13	1.000000
rad73	8.03975e-14	1.000000	8.03975e-14	1.000000
rad71	3.42948e-14	1.000000	3.42948e-14	1.000000
rad9	3.12165e-16	1.000000	3.12165e-16	1.000000
rad19anti	6.95729e-17	1.000000	6.95729e-17	1.000000
rad72	5.61676e-17	1.000000	5.61676e-17	1.000000
rad23	2.02410e-17	1.000000	2.02410e-17	1.000000
rad2	1.62391e-17	1.000000	1.62391e-17	1.000000
rad45	6.10332e-18	1.000000	6.10333e-18	1.000000
rad1	4.21072e-18	1.000000	4.21072e-18	1.000000
rad12	1.17945e-18	1.000000	1.17945e-18	1.000000
rad6	1.10389e-18	1.000000	1.10389e-18	1.000000
rad19syn	8.87889e-19	1.000000	8.87889e-19	1.000000
rad36	8.75810e-19	1.000000	8.75810e-19	1.000000
rad10	3.59531e-19	1.000000	3.59531e-19	1.000000
rad3	2.51171e-19	1.000000	2.51171e-19	1.000000
rad4	2.03687e-19	1.000000	2.03687e-19	1.000000
rad15	1.25799e-19	1.000000	1.25799e-19	1.000000
rad31	9.71078e-22	1.000000	9.71078e-22	1.000000
rad7	1.36513e-22	1.000000	1.36513e-22	1.000000
rad11	3.74391e-23	1.000000	3.74391e-23	1.000000
rad26	3.24469e-23	1.000000	3.24469e-23	1.000000
rad28	1.89999e-23	1.000000	1.89999e-23	1.000000
rad24	2.00377e-24	1.000000	2.00377e-24	1.000000

rad13	1.43981e-24	1.000000	1.43981e-24	1.000000
rad22	1.03483e-24	1.000000	1.03484e-24	1.000000
rad21	3.05207e-25	1.000000	3.05207e-25	1.000000
rad47	1.29142e-25	1.000000	1.29142e-25	1.000000
rad33	9.57636e-26	1.000000	9.57636e-26	1.000000
rad20	4.79451e-26	1.000000	4.79451e-26	1.000000
rad27	5.14968e-27	1.000000	5.14968e-27	1.000000
rad25	4.90274e-27	1.000000	4.90274e-27	1.000000
rad14	9.35079e-28	1.000000	9.35079e-28	1.000000
rad8	5.34063e-30	1.000000	5.34063e-30	1.000000
rad18	1.15928e-30	1.000000	1.15928e-30	1.000000
rad5	3.69143e-33	1.000000	3.69143e-33	1.000000

0.100000000E-06 Pa, 800.000000 K

Rate constant	True (fraction)		Effective (fraction)	

Total	1.03759e-12	(1.00)	1.03758e-12	(1.00)
Formation of rad19	9.41065e-13	(0.907)	9.41063e-13	(0.907)
H-abstraction to cyc2enyl	8.32953e-14	(0.0803)	8.32953e-14	(0.0803)
H-abstraction to cyclenyl	1.32261e-14	(0.0127)	1.32261e-14	(0.0127)

species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.891851	0.891851	0.891852	0.891852
Benzene+cycloprop-2-enylidene	0.0802780	0.972129	0.0802781	0.972130
PhCHCCH2+H	0.0134622	0.985591	0.0134623	0.985592
Benzene+cycloprop-1-enylidene	0.0127470	0.998338	0.0127470	0.998339
C2H2+PhCH2	0.000407098	0.998746	0.000407098	0.998747
Ph+MeAc	0.000361138	0.999107	0.000361137	0.999108
Ph+Allene	0.000232338	0.999339	0.000232338	0.999340
PhCCCH3+H	0.000203971	0.999543	0.000203971	0.999544
PhCCH+CH3	0.000180552	0.999724	0.000180553	0.999725
rad67	0.000113174	0.999837	0.000113174	0.999838
PhCH2CCH+H	8.77930e-05	0.999924	8.77932e-05	0.999925
rad35	4.16128e-05	0.999966	4.16129e-05	0.999967
PAH7+H	1.05800e-05	0.999977	1.05800e-05	0.999978
PhcycC3H3_A+H	7.41209e-06	0.999984	7.41210e-06	0.999985
rad37	5.46662e-06	0.999990	5.46663e-06	0.999991
PhcycC3H3_B+H	3.06124e-06	0.999993	3.06124e-06	0.999994
rad39	2.23427e-06	0.999995	2.23428e-06	0.999996
PAH10+CH3	1.45372e-06	0.999996	1.45373e-06	0.999997
Phenyl+cycC3H4	1.26413e-06	0.999998	0.000000	0.999997
rad30	1.14933e-06	0.999999	1.14933e-06	0.999998
PAH9+H	6.06281e-07	0.999999	6.06282e-07	0.999999
rad38	5.31254e-07	1.000000	5.31255e-07	1.000000
PAH3+H	2.06534e-07	1.000000	2.06535e-07	1.000000
rad46	5.03837e-08	1.000000	5.03838e-08	1.000000
rad60syn	4.30113e-08	1.000000	4.30113e-08	1.000000
rad54	3.72615e-08	1.000000	3.72615e-08	1.000000
rad59	2.58004e-08	1.000000	2.58004e-08	1.000000
rad60anti	2.50612e-08	1.000000	2.50612e-08	1.000000
PAH1+H	1.11102e-08	1.000000	1.11102e-08	1.000000
rad50	1.08530e-08	1.000000	1.08530e-08	1.000000
rad43	1.08255e-08	1.000000	1.08255e-08	1.000000
rad70	5.27763e-09	1.000000	5.27763e-09	1.000000
rad55	1.83174e-09	1.000000	1.83175e-09	1.000000
rad62	1.46956e-09	1.000000	1.46956e-09	1.000000
rad51	1.02140e-09	1.000000	1.02140e-09	1.000000
rad34	7.64053e-10	1.000000	7.64054e-10	1.000000
rad58	5.66064e-10	1.000000	5.66065e-10	1.000000
rad52	5.41768e-10	1.000000	5.41769e-10	1.000000
rad61	2.09071e-10	1.000000	2.09072e-10	1.000000
rad41	1.94594e-10	1.000000	1.94595e-10	1.000000
rad53	1.01501e-10	1.000000	1.01501e-10	1.000000
rad56	4.31932e-11	1.000000	4.31933e-11	1.000000
rad64	4.01362e-11	1.000000	4.01363e-11	1.000000
rad42	3.44813e-11	1.000000	3.44814e-11	1.000000
rad65	3.26029e-11	1.000000	3.26029e-11	1.000000
PAH8+H	8.11495e-12	1.000000	8.11497e-12	1.000000
rad68syn	7.66845e-12	1.000000	7.66845e-12	1.000000
rad68anti	5.13228e-12	1.000000	5.13229e-12	1.000000
rad40syn	2.48636e-12	1.000000	2.48636e-12	1.000000
rad40anti	1.83893e-12	1.000000	1.83893e-12	1.000000
rad73	1.11381e-12	1.000000	1.11381e-12	1.000000
rad71	6.08037e-13	1.000000	6.08038e-13	1.000000
rad9	2.73155e-14	1.000000	2.73155e-14	1.000000
rad72	2.02032e-15	1.000000	2.02032e-15	1.000000
rad12	6.62384e-17	1.000000	6.62385e-17	1.000000
rad19anti	6.02835e-17	1.000000	6.02835e-17	1.000000

rad23	3.52732e-17	1.00000	3.52732e-17	1.00000
rad2	2.44970e-17	1.00000	2.44971e-17	1.00000
rad45	1.35135e-17	1.00000	1.35135e-17	1.00000
rad1	7.53055e-18	1.00000	7.53056e-18	1.00000
rad15	6.33587e-18	1.00000	6.33588e-18	1.00000
rad36	1.67596e-18	1.00000	1.67596e-18	1.00000
rad19syn	1.44428e-18	1.00000	1.44428e-18	1.00000
rad6	1.40094e-18	1.00000	1.40094e-18	1.00000
rad10	5.39308e-19	1.00000	5.39309e-19	1.00000
rad3	3.27184e-19	1.00000	3.27184e-19	1.00000
rad4	2.70618e-19	1.00000	2.70619e-19	1.00000
rad31	1.51028e-21	1.00000	1.51028e-21	1.00000
rad24	4.04465e-22	1.00000	4.04465e-22	1.00000
rad7	2.10328e-22	1.00000	2.10328e-22	1.00000
rad21	1.34471e-22	1.00000	1.34471e-22	1.00000
rad11	6.21662e-23	1.00000	6.21663e-23	1.00000
rad26	4.50908e-23	1.00000	4.50909e-23	1.00000
rad28	2.63509e-23	1.00000	2.63509e-23	1.00000
rad33	2.36839e-23	1.00000	2.36839e-23	1.00000
rad20	2.16401e-23	1.00000	2.16401e-23	1.00000
rad13	4.70445e-24	1.00000	4.70446e-24	1.00000
rad22	2.00666e-24	1.00000	2.00666e-24	1.00000
rad47	8.53940e-25	1.00000	8.53940e-25	1.00000
rad27	3.72933e-25	1.00000	3.72933e-25	1.00000
rad25	3.67487e-25	1.00000	3.67488e-25	1.00000
rad8	2.39851e-25	1.00000	2.39851e-25	1.00000
rad14	3.84293e-26	1.00000	3.84293e-26	1.00000
rad18	5.53168e-29	1.00000	5.53169e-29	1.00000
rad5	1.78142e-32	1.00000	1.78142e-32	1.00000

0.100000000E-06 Pa, 900.000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	1.49199e-12 (1.00)	1.49199e-12 (1.00)		
Formation of rad19	1.30395e-12 (0.874)	1.30394e-12 (0.874)		
H-abstraction to cyc2enyl	1.56554e-13 (0.105)	1.56554e-13 (0.105)		
H-abstraction to cyclenyl	3.14892e-14 (0.0211)	3.14890e-14 (0.0211)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.848699	0.848699	0.848703	0.848703
Benzene+cycloprop-2-enylidene	0.104929	0.953628	0.104930	0.953634
PhCHCCH2+H	0.0222941	0.975922	0.0222941	0.975928
Benzene+cycloprop-1-enylidene	0.0211054	0.997028	0.0211054	0.997033
C2H2+PhCH2	0.000683868	0.997712	0.000683871	0.997717
Ph+MeAc	0.000643403	0.998355	0.000643406	0.998360
Ph+Allene	0.000474185	0.998829	0.000474187	0.998835
PhCCCH3+H	0.000337156	0.999166	0.000337157	0.999172
PhCCH+CH3	0.000266833	0.999433	0.000266834	0.999439
rad67	0.000208252	0.999641	0.000208253	0.999647
PhCH2CCH+H	0.000196562	0.999838	0.000196563	0.999843
rad35	7.58728e-05	0.999914	7.58733e-05	0.999919
PhcycC3H3_A+H	2.42103e-05	0.999938	2.42105e-05	0.999943
PAH7+H	1.88375e-05	0.999957	1.88376e-05	0.999962
PhcycC3H3_B+H	1.21561e-05	0.999969	1.21561e-05	0.999974
rad37	1.14050e-05	0.999980	1.14050e-05	0.999986
Phenyl+cycC3H4	5.07995e-06	0.999986	0.00000	0.999986
PAH10+CH3	4.40461e-06	0.999990	4.40463e-06	0.999996
rad39	3.79886e-06	0.999994	3.79888e-06	0.999994
rad30	2.25163e-06	0.999996	2.25165e-06	0.999996
PAH9+H	1.48864e-06	0.999997	1.48865e-06	0.999998
rad38	1.36505e-06	0.999999	1.36505e-06	0.999999
PAH3+H	6.06186e-07	0.999999	6.06189e-07	1.000000
rad46	1.39482e-07	1.000000	1.39483e-07	1.000000
rad60syn	1.03783e-07	1.000000	1.03784e-07	1.000000
rad54	1.00666e-07	1.000000	1.00667e-07	1.000000
rad59	7.22570e-08	1.000000	7.22573e-08	1.000000
rad60anti	6.13421e-08	1.000000	6.13425e-08	1.000000
rad50	4.00788e-08	1.000000	4.00791e-08	1.000000
PAH1+H	3.94732e-08	1.000000	3.94734e-08	1.000000
rad43	2.87031e-08	1.000000	2.87033e-08	1.000000
rad70	1.65408e-08	1.000000	1.65408e-08	1.000000
rad55	5.38699e-09	1.000000	5.38702e-09	1.000000
rad51	4.77134e-09	1.000000	4.77137e-09	1.000000
rad62	3.44637e-09	1.000000	3.44638e-09	1.000000
rad34	2.67892e-09	1.000000	2.67894e-09	1.000000
rad52	2.25237e-09	1.000000	2.25238e-09	1.000000
rad58	2.20457e-09	1.000000	2.20458e-09	1.000000
rad61	1.06256e-09	1.000000	1.06257e-09	1.000000

rad41	6.91191e-10	1.00000	6.91194e-10	1.00000
rad53	4.12665e-10	1.00000	4.12668e-10	1.00000
rad56	2.12371e-10	1.00000	2.12372e-10	1.00000
rad64	1.54860e-10	1.00000	1.54860e-10	1.00000
rad65	1.50319e-10	1.00000	1.50320e-10	1.00000
rad42	1.03376e-10	1.00000	1.03377e-10	1.00000
PAH8+H	5.91171e-11	1.00000	5.91174e-11	1.00000
rad68syn	4.07131e-11	1.00000	4.07134e-11	1.00000
rad68anti	2.70946e-11	1.00000	2.70946e-11	1.00000
rad40syn	1.56733e-11	1.00000	1.56733e-11	1.00000
rad40anti	1.17159e-11	1.00000	1.17159e-11	1.00000
rad73	1.01666e-11	1.00000	1.01667e-11	1.00000
rad71	6.75145e-12	1.00000	6.75148e-12	1.00000
rad9	2.38921e-13	1.00000	2.38922e-13	1.00000
rad72	3.83062e-14	1.00000	3.83064e-14	1.00000
rad12	4.04546e-16	1.00000	4.04549e-16	1.00000
rad19anti	4.57501e-17	1.00000	4.57503e-17	1.00000
rad23	3.96788e-17	1.00000	3.96790e-17	1.00000
rad15	3.86181e-17	1.00000	3.86182e-17	1.00000
rad2	2.40987e-17	1.00000	2.40989e-17	1.00000
rad45	1.86520e-17	1.00000	1.86522e-17	1.00000
rad1	7.35588e-18	1.00000	7.35592e-18	1.00000
rad36	2.09334e-18	1.00000	2.09335e-18	1.00000
rad19syn	1.51735e-18	1.00000	1.51736e-18	1.00000
rad6	1.09735e-18	1.00000	1.09736e-18	1.00000
rad10	5.00333e-19	1.00000	5.00335e-19	1.00000
rad3	2.73942e-19	1.00000	2.73943e-19	1.00000
rad4	2.27422e-19	1.00000	2.27424e-19	1.00000
rad21	1.24312e-20	1.00000	1.24313e-20	1.00000
rad24	8.13232e-21	1.00000	8.13237e-21	1.00000
rad20	2.39353e-21	1.00000	2.39354e-21	1.00000
rad31	1.88477e-21	1.00000	1.88478e-21	1.00000
rad33	1.64389e-21	1.00000	1.64391e-21	1.00000
rad8	5.47269e-22	1.00000	5.47271e-22	1.00000
rad13	3.48024e-22	1.00000	3.48026e-22	1.00000
rad7	2.09059e-22	1.00000	2.09060e-22	1.00000
rad11	7.32834e-23	1.00000	7.32838e-23	1.00000
rad26	3.61199e-23	1.00000	3.61201e-23	1.00000
rad25	2.46143e-23	1.00000	2.46143e-23	1.00000
rad27	2.21054e-23	1.00000	2.21055e-23	1.00000
rad28	2.11043e-23	1.00000	2.11045e-23	1.00000
rad47	4.17543e-24	1.00000	4.17545e-24	1.00000
rad22	2.50778e-24	1.00000	2.50780e-24	1.00000
rad14	1.65935e-24	1.00000	1.65935e-24	1.00000
rad18	1.59720e-26	1.00000	1.59721e-26	1.00000
rad5	1.56206e-31	1.00000	1.56207e-31	1.00000

0.100000000E-06 Pa, 1000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.07591e-12 (1.00)	2.07587e-12 (1.00)
Formation of rad19	1.74189e-12 (0.839)	1.74186e-12 (0.839)
H-abstraction to cyc2enyl	2.68753e-13 (0.129)	2.68753e-13 (0.129)
H-abstraction to cyc1enyl	6.52627e-14 (0.0314)	6.52614e-14 (0.0314)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.799582	0.799582	0.799596	0.799596
Benzene+cycloprop-2-enylidene	0.129463	0.929045	0.129465	0.929061
PhCHCCH2+H	0.0345727	0.963618	0.0345733	0.963635
Benzene+cycloprop-1-enylidene	0.0314382	0.995056	0.0314381	0.995073
C2H2+PhCH2	0.00107013	0.996126	0.00107014	0.996143
Ph+MeAc	0.00105356	0.997180	0.00105357	0.997197
Ph+Allene	0.000856132	0.998036	0.000856147	0.998053
PhCCCH3+H	0.000518388	0.998554	0.000518396	0.998571
PhCH2CCH+H	0.000387329	0.998942	0.000387336	0.998958
PhCCH+CH3	0.000373412	0.999315	0.000373419	0.999332
rad67	0.000352154	0.999667	0.000352160	0.999684
rad35	0.000127506	0.999795	0.000127508	0.999812
PhcycC3H3_A+H	6.68787e-05	0.999862	6.68799e-05	0.999878
PhcycC3H3_B+H	3.94287e-05	0.999901	3.94293e-05	0.999918
PAH7+H	3.02070e-05	0.999931	3.02075e-05	0.999948
rad37	2.12565e-05	0.999953	2.12568e-05	0.999969
Phenyl+cycC3H4	1.68078e-05	0.999969	0.00000	0.999969
PAH10+CH3	1.12446e-05	0.999981	1.12447e-05	0.999981
rad39	5.81024e-06	0.999986	5.81034e-06	0.999986
rad30	4.04406e-06	0.999990	4.04413e-06	0.999990
PAH9+H	3.29361e-06	0.999994	3.29367e-06	0.999994
rad38	3.08261e-06	0.999997	3.08266e-06	0.999997

PAH3+H	1.54070e-06	0.999998	1.54073e-06	0.999998
rad46	3.42239e-07	0.999999	3.42245e-07	0.999999
rad54	2.28520e-07	0.999999	2.28524e-07	0.999999
rad60syn	2.23169e-07	0.999999	2.23173e-07	0.999999
rad59	1.76070e-07	0.999999	1.76073e-07	0.999999
rad60anti	1.33518e-07	1.000000	1.33520e-07	0.999999
rad50	1.25826e-07	1.000000	1.25828e-07	1.000000
PAH1+H	1.15144e-07	1.000000	1.15145e-07	1.000000
rad43	6.59875e-08	1.000000	6.59887e-08	1.000000
rad70	4.32135e-08	1.000000	4.32143e-08	1.000000
rad51	1.82048e-08	1.000000	1.82051e-08	1.000000
rad55	1.31137e-08	1.000000	1.31139e-08	1.000000
rad52	7.79283e-09	1.000000	7.79297e-09	1.000000
rad34	7.69222e-09	1.000000	7.69236e-09	1.000000
rad58	7.06658e-09	1.000000	7.06670e-09	1.000000
rad62	7.03940e-09	1.000000	7.03953e-09	1.000000
rad61	4.12272e-09	1.000000	4.12278e-09	1.000000
rad41	2.02447e-09	1.000000	2.02451e-09	1.000000
rad53	1.31432e-09	1.000000	1.31434e-09	1.000000
rad56	7.88428e-10	1.000000	7.88442e-10	1.000000
rad65	5.65099e-10	1.000000	5.65110e-10	1.000000
rad64	4.71855e-10	1.000000	4.71863e-10	1.000000
PAH8+H	3.09749e-10	1.000000	3.09755e-10	1.000000
rad42	2.59222e-10	1.000000	2.59226e-10	1.000000
rad68syn	1.64237e-10	1.000000	1.64240e-10	1.000000
rad68anti	1.08793e-10	1.000000	1.08795e-10	1.000000
rad40syn	7.30616e-11	1.000000	7.30628e-11	1.000000
rad73	6.65983e-11	1.000000	6.65995e-11	1.000000
rad40anti	5.52183e-11	1.000000	5.52193e-11	1.000000
rad71	5.18856e-11	1.000000	5.18865e-11	1.000000
rad72	4.47183e-13	1.000000	4.47191e-13	1.000000
rad9	4.35699e-13	1.000000	4.35706e-13	1.000000
rad12	7.27750e-16	1.000000	7.27764e-16	1.000000
rad15	5.89437e-17	1.000000	5.89448e-17	1.000000
rad23	3.96862e-17	1.000000	3.96869e-17	1.000000
rad19anti	3.42048e-17	1.000000	3.42054e-17	1.000000
rad45	2.12529e-17	1.000000	2.12533e-17	1.000000
rad2	2.02391e-17	1.000000	2.02394e-17	1.000000
rad1	6.07902e-18	1.000000	6.07912e-18	1.000000
rad36	2.26401e-18	1.000000	2.26404e-18	1.000000
rad19syn	1.42443e-18	1.000000	1.42446e-18	1.000000
rad6	8.24402e-19	1.000000	8.24416e-19	1.000000
rad10	4.19736e-19	1.000000	4.19743e-19	1.000000
rad21	2.11576e-19	1.000000	2.11580e-19	1.000000
rad3	2.07237e-19	1.000000	2.07241e-19	1.000000
rad4	1.71461e-19	1.000000	1.71464e-19	1.000000
rad8	6.27706e-20	1.000000	6.27717e-20	1.000000
rad20	4.93245e-20	1.000000	4.93254e-20	1.000000
rad24	3.61522e-20	1.000000	3.61528e-20	1.000000
rad33	2.31462e-20	1.000000	2.31466e-20	1.000000
rad13	2.20327e-20	1.000000	2.20331e-20	1.000000
rad31	2.18570e-21	1.000000	2.18575e-21	1.000000
rad11	1.11839e-21	1.000000	1.11842e-21	1.000000
rad25	7.69190e-22	1.000000	7.69203e-22	1.000000
rad27	5.63064e-22	1.000000	5.63073e-22	1.000000
rad7	2.21455e-22	1.000000	2.21459e-22	1.000000
rad14	4.01739e-23	1.000000	4.01747e-23	1.000000
rad26	2.60409e-23	1.000000	2.60414e-23	1.000000
rad47	1.62908e-23	1.000000	1.62911e-23	1.000000
rad28	1.51592e-23	1.000000	1.51595e-23	1.000000
rad18	4.29924e-24	1.000000	4.29931e-24	1.000000
rad22	2.91737e-24	1.000000	2.91742e-24	1.000000
rad5	2.69858e-30	1.000000	2.69863e-30	1.000000

0.100000000E-06 Pa, 1100.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.81236e-12 (1.00)	2.81222e-12 (1.00)
Formation of rad19	2.25993e-12 (0.804)	2.25980e-12 (0.804)
H-abstraction to cyc2enyl	4.30538e-13 (0.153)	4.30538e-13 (0.153)
H-abstraction to cyclenyl	1.21896e-13 (0.0433)	1.21889e-13 (0.0433)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.745455	0.745455	0.745493	0.745493
Benzene+cycloprop-2-enylidene	0.153088	0.898543	0.153095	0.898588
PhCHCCH2+H	0.0504085	0.948951	0.0504110	0.948999
Benzene+cycloprop-1-enylidene	0.0433429	0.992294	0.0433425	0.992342
Ph+MeAc	0.00159989	0.993894	0.00159997	0.993942

C2H2+PhCH2	0.00157393	0.995468	0.00157401	0.995516
Ph+Alkene	0.00139377	0.996862	0.00139384	0.996909
PhCCCH3+H	0.000746146	0.997608	0.000746184	0.997656
PhCH2CCH+H	0.000685299	0.998293	0.000685333	0.998341
rad67	0.000551509	0.998845	0.000551537	0.998892
PhCCH+CH3	0.000499927	0.999345	0.000499952	0.999392
rad35	0.000198904	0.999544	0.000198914	0.999591
PhcycC3H3_A+H	0.000160985	0.999705	0.000160994	0.999752
PhcycC3H3_B+H	0.000108569	0.999813	0.000108575	0.999861
Phenyl+cycC3H4	4.74535e-05	0.999861	0.000000	0.999861
PAH7+H	4.44306e-05	0.999905	4.44328e-05	0.999905
rad37	3.57976e-05	0.999941	3.57993e-05	0.999941
PAH10+CH3	2.47740e-05	0.999966	2.47753e-05	0.999966
rad39	8.15502e-06	0.999974	8.15543e-06	0.999974
rad30	6.70503e-06	0.999981	6.70536e-06	0.999981
PAH9+H	6.62670e-06	0.999987	6.62703e-06	0.999987
rad38	6.20641e-06	0.999993	6.20672e-06	0.999994
PAH3+H	3.44988e-06	0.999997	3.45006e-06	0.999997
rad46	7.53032e-07	0.999998	7.53070e-07	0.999998
rad54	4.48842e-07	0.999998	4.48864e-07	0.999998
rad60syn	4.32688e-07	0.999998	4.32709e-07	0.999999
rad59	3.79560e-07	0.999999	3.79579e-07	0.999999
rad50	3.42341e-07	0.999999	3.42358e-07	0.999999
PAH1+H	2.85109e-07	0.999999	2.85123e-07	1.000000
rad60anti	2.61576e-07	1.000000	2.61589e-07	1.000000
rad43	1.34197e-07	1.000000	1.34204e-07	1.000000
rad70	9.71315e-08	1.000000	9.71362e-08	1.000000
rad51	5.83466e-08	1.000000	5.83495e-08	1.000000
rad55	2.73128e-08	1.000000	2.73142e-08	1.000000
rad52	2.29834e-08	1.000000	2.29845e-08	1.000000
rad58	1.92024e-08	1.000000	1.92034e-08	1.000000
rad34	1.87451e-08	1.000000	1.87461e-08	1.000000
rad61	1.28390e-08	1.000000	1.28397e-08	1.000000
rad62	1.28154e-08	1.000000	1.28161e-08	1.000000
rad41	5.04814e-09	1.000000	5.04840e-09	1.000000
rad53	3.43664e-09	1.000000	3.43682e-09	1.000000
rad56	2.33966e-09	1.000000	2.33978e-09	1.000000
rad65	1.78385e-09	1.000000	1.78394e-09	1.000000
PAH8+H	1.24981e-09	1.000000	1.24987e-09	1.000000
rad64	1.19311e-09	1.000000	1.19317e-09	1.000000
rad42	5.61778e-10	1.000000	5.61806e-10	1.000000
rad68syn	5.31777e-10	1.000000	5.31804e-10	1.000000
rad68anti	3.50889e-10	1.000000	3.50907e-10	1.000000
rad73	3.32910e-10	1.000000	3.32927e-10	1.000000
rad71	2.96145e-10	1.000000	2.96160e-10	1.000000
rad40syn	2.67659e-10	1.000000	2.67672e-10	1.000000
rad40anti	2.04456e-10	1.000000	2.04466e-10	1.000000
rad72	3.56687e-12	1.000000	3.56704e-12	1.000000
rad9	4.00858e-13	1.000000	4.00879e-13	1.000000
rad12	7.93739e-16	1.000000	7.93778e-16	1.000000
rad15	4.97201e-17	1.000000	4.97226e-17	1.000000
rad23	3.76151e-17	1.000000	3.76170e-17	1.000000
rad19anti	2.56276e-17	1.000000	2.56289e-17	1.000000
rad45	2.19359e-17	1.000000	2.19370e-17	1.000000
rad2	1.59960e-17	1.000000	1.59968e-17	1.000000
rad1	4.72619e-18	1.000000	4.72643e-18	1.000000
rad36	2.28769e-18	1.000000	2.28781e-18	1.000000
rad19syn	1.28391e-18	1.000000	1.28398e-18	1.000000
rad21	9.63737e-19	1.000000	9.63784e-19	1.000000
rad6	8.28416e-19	1.000000	8.28456e-19	1.000000
rad8	7.65078e-19	1.000000	7.65117e-19	1.000000
rad10	3.34076e-19	1.000000	3.34093e-19	1.000000
rad13	3.15542e-19	1.000000	3.15558e-19	1.000000
rad20	2.48655e-19	1.000000	2.48667e-19	1.000000
rad3	1.50472e-19	1.000000	1.50480e-19	1.000000
rad4	1.23800e-19	1.000000	1.23806e-19	1.000000
rad33	8.69060e-20	1.000000	8.69109e-20	1.000000
rad24	7.72326e-20	1.000000	7.72364e-20	1.000000
rad11	5.53380e-20	1.000000	5.53408e-20	1.000000
rad25	7.88055e-21	1.000000	7.88094e-21	1.000000
rad27	4.73302e-21	1.000000	4.73325e-21	1.000000
rad31	2.41068e-21	1.000000	2.41079e-21	1.000000
rad7	2.07691e-21	1.000000	2.07702e-21	1.000000
rad18	4.94611e-22	1.000000	4.94636e-22	1.000000
rad14	3.73375e-22	1.000000	3.73394e-22	1.000000
rad47	5.24230e-23	1.000000	5.24256e-23	1.000000
rad26	2.13334e-23	1.000000	2.13345e-23	1.000000
rad28	1.12776e-23	1.000000	1.12782e-23	1.000000
rad22	3.31105e-24	1.000000	3.31121e-24	1.000000
rad5	8.65243e-29	1.000000	8.65292e-29	1.000000

0.100000000E-06 Pa, 1200.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.72623e-12 (1.00)	3.72576e-12 (1.00)
Formation of rad19	2.86288e-12 (0.768)	2.86245e-12 (0.768)
H-abstraction to cyc2enyl	6.53266e-13 (0.175)	6.53266e-13 (0.175)
H-abstraction to cyclenyl	2.10085e-13 (0.0564)	2.10053e-13 (0.0564)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.687506	0.687506	0.687593	0.687593
Benzene+cycloprop-2-enylidene	0.175315	0.862821	0.175337	0.862930
PhCHCCH2+H	0.0694470	0.932268	0.0694557	0.932386
Benzene+cycloprop-1-enylidene	0.0563801	0.988648	0.0563786	0.988764
Ph+MeAc	0.00227272	0.990921	0.00227301	0.991037
C2H2+PhCH2	0.00219121	0.993112	0.00219148	0.993229
Ph+Allene	0.00207994	0.995192	0.00208020	0.995309
PhCH2CCH+H	0.00110691	0.996299	0.00110706	0.996416
PhCCCH3+H	0.00101200	0.997311	0.00101213	0.997428
rad67	0.000806305	0.998117	0.000806406	0.998235
PhCCH+CH3	0.000645716	0.998763	0.000645798	0.998880
PhcycC3H3_A+H	0.000345598	0.999109	0.000345641	0.999226
rad35	0.000290169	0.999399	0.000290206	0.999516
PhcycC3H3_B+H	0.000261273	0.999660	0.000261306	0.999778
Phenyl+cycC3H4	0.000117514	0.999778	0.000000	0.999778
PAH7+H	6.09151e-05	0.999838	6.09229e-05	0.999839
rad37	5.50993e-05	0.999894	5.51063e-05	0.999894
PAH10+CH3	4.81021e-05	0.999942	4.81082e-05	0.999942
PAH9+H	1.22285e-05	0.999954	1.22300e-05	0.999954
rad38	1.12958e-05	0.999965	1.12972e-05	0.999965
rad39	1.06983e-05	0.999976	1.06996e-05	0.999976
rad30	1.03391e-05	0.999986	1.03403e-05	0.999986
PAH3+H	6.91379e-06	0.999993	6.91466e-06	0.999993
rad46	1.50176e-06	0.999995	1.50195e-06	0.999995
rad50	8.20642e-07	0.999995	8.20743e-07	0.999996
rad54	7.81497e-07	0.999996	7.81598e-07	0.999996
rad60syn	7.65102e-07	0.999997	7.65199e-07	0.999997
rad59	7.35018e-07	0.999998	7.35111e-07	0.999998
PAH1+H	6.15259e-07	0.999998	6.15337e-07	0.999998
rad60anti	4.66711e-07	0.999999	4.66769e-07	0.999999
rad43	2.45550e-07	0.999999	2.45581e-07	0.999999
rad70	1.92605e-07	0.999999	1.92629e-07	0.999999
rad51	1.60721e-07	0.999999	1.60741e-07	1.000000
rad52	5.89508e-08	1.000000	5.89583e-08	1.000000
rad55	4.99974e-08	1.000000	5.00038e-08	1.000000
rad58	4.53331e-08	1.000000	4.53389e-08	1.000000
rad34	3.98655e-08	1.000000	3.98705e-08	1.000000
rad61	3.33579e-08	1.000000	3.33621e-08	1.000000
rad62	2.11968e-08	1.000000	2.11994e-08	1.000000
rad41	1.09917e-08	1.000000	1.09931e-08	1.000000
rad53	7.65059e-09	1.000000	7.65156e-09	1.000000
rad56	5.79402e-09	1.000000	5.79474e-09	1.000000
rad65	4.84114e-09	1.000000	4.84175e-09	1.000000
PAH8+H	4.08163e-09	1.000000	4.08215e-09	1.000000
rad64	2.59994e-09	1.000000	2.60027e-09	1.000000
rad68syn	1.43965e-09	1.000000	1.43983e-09	1.000000
rad73	1.32831e-09	1.000000	1.32847e-09	1.000000
rad71	1.32075e-09	1.000000	1.32091e-09	1.000000
rad42	1.07985e-09	1.000000	1.07999e-09	1.000000
rad68anti	9.46805e-10	1.000000	9.46926e-10	1.000000
rad40syn	8.05959e-10	1.000000	8.06061e-10	1.000000
rad40anti	6.21769e-10	1.000000	6.21848e-10	1.000000
rad72	2.08613e-11	1.000000	2.08640e-11	1.000000
rad9	2.92174e-13	1.000000	2.92211e-13	1.000000
rad12	7.13600e-16	1.000000	7.13690e-16	1.000000
rad15	3.90915e-17	1.000000	3.90964e-17	1.000000
rad23	3.46220e-17	1.000000	3.46263e-17	1.000000
rad45	2.14392e-17	1.000000	2.14420e-17	1.000000
rad19anti	1.93811e-17	1.000000	1.93836e-17	1.000000
rad2	1.21883e-17	1.000000	1.21898e-17	1.000000
rad1	3.58036e-18	1.000000	3.58082e-18	1.000000
rad8	2.53541e-18	1.000000	2.53574e-18	1.000000
rad36	2.22511e-18	1.000000	2.22539e-18	1.000000
rad21	2.06285e-18	1.000000	2.06311e-18	1.000000
rad6	1.27629e-18	1.000000	1.27646e-18	1.000000
rad13	1.26206e-18	1.000000	1.26222e-18	1.000000
rad19syn	1.13955e-18	1.000000	1.13970e-18	1.000000
rad11	9.72566e-19	1.000000	9.72686e-19	1.000000

rad20	5.30461e-19	1.000000	5.30528e-19	1.000000
rad10	2.99570e-19	1.000000	2.99607e-19	1.000000
rad33	1.49700e-19	1.000000	1.49719e-19	1.000000
rad24	1.18501e-19	1.000000	1.18516e-19	1.000000
rad3	1.06950e-19	1.000000	1.06963e-19	1.000000
rad4	8.75614e-20	1.000000	8.75729e-20	1.000000
rad7	6.84585e-20	1.000000	6.84671e-20	1.000000
rad25	2.92600e-20	1.000000	2.92637e-20	1.000000
rad18	1.64154e-20	1.000000	1.64175e-20	1.000000
rad27	1.52386e-20	1.000000	1.52405e-20	1.000000
rad31	2.55729e-21	1.000000	2.55762e-21	1.000000
rad14	1.32731e-21	1.000000	1.32747e-21	1.000000
rad47	1.43379e-22	1.000000	1.43397e-22	1.000000
rad26	6.61264e-23	1.000000	6.61347e-23	1.000000
rad28	9.79443e-24	1.000000	9.79562e-24	1.000000
rad22	3.66423e-24	1.000000	3.66469e-24	1.000000
rad5	4.26033e-27	1.000000	4.26087e-27	1.000000

0.100000000E-06 Pa, 1300.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.84401e-12 (1.00)	4.84262e-12 (1.00)
Formation of rad19	3.55537e-12 (0.734)	3.55411e-12 (0.734)
H-abstraction to cyc2enyl	9.48893e-13 (0.196)	9.48893e-13 (0.196)
H-abstraction to cyclenyl	3.39740e-13 (0.0701)	3.39620e-13 (0.0701)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.627161	0.627161	0.627340	0.627340
Benzene+cycloprop-2-enylidene	0.195890	0.823052	0.195946	0.823286
PhCHCCH2+H	0.0908777	0.913929	0.0909037	0.914190
Benzene+cycloprop-1-enylidene	0.0701362	0.984065	0.0701313	0.984321
Ph+MeAc	0.00304441	0.987110	0.00304527	0.987366
C2H2+PhCH2	0.00290372	0.990014	0.00290454	0.990271
Ph+Allene	0.00288470	0.992898	0.00288553	0.993157
PhCH2CCH+H	0.00165448	0.994553	0.00165495	0.994812
PhCCCH3+H	0.00130153	0.995854	0.00130190	0.996113
rad67	0.00110883	0.996963	0.00110915	0.997223
PhCCH+CH3	0.000809514	0.997773	0.000809751	0.998032
PhcycC3H3_A+H	0.000673391	0.998446	0.000673584	0.998706
PhcycC3H3_B+H	0.000561394	0.999007	0.000561554	0.999267
rad35	0.000398725	0.999406	0.000398838	0.999666
Phenyl+cycC3H4	0.000260506	0.999667	0.000000	0.999666
PAH10+CH3	8.38007e-05	0.999750	8.38250e-05	0.999750
PAH7+H	7.89117e-05	0.999829	7.89341e-05	0.999829
rad37	7.83568e-05	0.999908	7.83785e-05	0.999907
PAH9+H	2.08511e-05	0.999929	2.08571e-05	0.999928
rad38	1.88167e-05	0.999947	1.88221e-05	0.999947
rad30	1.49360e-05	0.999962	1.49402e-05	0.999962
rad39	1.33374e-05	0.999976	1.33412e-05	0.999975
PAH3+H	1.25732e-05	0.999988	1.25768e-05	0.999988
rad46	2.73965e-06	0.999991	2.74043e-06	0.999991
rad50	1.75696e-06	0.999993	1.75746e-06	0.999992
rad59	1.29584e-06	0.999994	1.29620e-06	0.999994
rad60syn	1.24692e-06	0.999995	1.24728e-06	0.999995
rad54	1.23055e-06	0.999996	1.23091e-06	0.999996
PAH1+H	1.18164e-06	0.999998	1.18197e-06	0.999997
rad60anti	7.66599e-07	0.999998	7.66824e-07	0.999998
rad43	4.10006e-07	0.999999	4.10123e-07	0.999999
rad51	3.87406e-07	0.999999	3.87517e-07	0.999999
rad70	3.43677e-07	1.000000	3.43775e-07	0.999999
rad52	1.33628e-07	1.000000	1.33666e-07	0.999999
rad58	9.48433e-08	1.000000	9.48705e-08	1.000000
rad55	8.22139e-08	1.000000	8.22375e-08	1.000000
rad34	7.56235e-08	1.000000	7.56447e-08	1.000000
rad61	7.45086e-08	1.000000	7.45298e-08	1.000000
rad62	3.23565e-08	1.000000	3.23657e-08	1.000000
rad41	2.13212e-08	1.000000	2.13273e-08	1.000000
rad53	1.49188e-08	1.000000	1.49231e-08	1.000000
rad56	1.23746e-08	1.000000	1.23782e-08	1.000000
rad65	1.15036e-08	1.000000	1.15069e-08	1.000000
PAH8+H	1.11832e-08	1.000000	1.11864e-08	1.000000
rad64	5.02551e-09	1.000000	5.02694e-09	1.000000
rad71	4.76253e-09	1.000000	4.76388e-09	1.000000
rad73	4.36513e-09	1.000000	4.36638e-09	1.000000
rad68syn	3.35945e-09	1.000000	3.36041e-09	1.000000
rad68anti	2.20311e-09	1.000000	2.20373e-09	1.000000
rad40syn	2.06131e-09	1.000000	2.06190e-09	1.000000
rad42	1.87919e-09	1.000000	1.87972e-09	1.000000

rad40anti	1.60444e-09	1.00000	1.60490e-09	1.000000
rad72	9.34613e-11	1.00000	9.34878e-11	1.000000
rad9	1.93961e-13	1.00000	1.94017e-13	1.000000
rad12	5.89852e-16	1.00000	5.90020e-16	1.000000
rad15	9.47479e-17	1.00000	9.47751e-17	1.000000
rad23	3.13771e-17	1.00000	3.13861e-17	1.000000
rad45	2.02838e-17	1.00000	2.02896e-17	1.000000
rad19anti	1.48394e-17	1.00000	1.48436e-17	1.000000
rad2	9.09929e-18	1.00000	9.10189e-18	1.000000
rad11	5.69964e-18	1.00000	5.70127e-18	1.000000
rad8	4.42248e-18	1.00000	4.42375e-18	1.000000
rad21	3.03536e-18	1.00000	3.03622e-18	1.000000
rad1	2.68364e-18	1.00000	2.68440e-18	1.000000
rad6	2.33226e-18	1.00000	2.33293e-18	1.000000
rad13	2.24558e-18	1.00000	2.24623e-18	1.000000
rad36	2.11050e-18	1.00000	2.11111e-18	1.000000
rad19syn	1.00706e-18	1.00000	1.00735e-18	1.000000
rad7	8.18872e-19	1.00000	8.19109e-19	1.000000
rad20	7.38165e-19	1.00000	7.38377e-19	1.000000
rad10	7.05015e-19	1.00000	7.05217e-19	1.000000
rad33	1.76734e-19	1.00000	1.76784e-19	1.000000
rad18	1.53527e-19	1.00000	1.53571e-19	1.000000
rad24	1.53474e-19	1.00000	1.53518e-19	1.000000
rad3	7.53923e-20	1.00000	7.54135e-20	1.000000
rad4	6.14012e-20	1.00000	6.14188e-20	1.000000
rad25	5.66799e-20	1.00000	5.66960e-20	1.000000
rad27	2.70870e-20	1.00000	2.70948e-20	1.000000
rad31	2.62744e-21	1.00000	2.62819e-21	1.000000
rad14	2.40834e-21	1.00000	2.40903e-21	1.000000
rad26	1.22095e-21	1.00000	1.22130e-21	1.000000
rad47	3.40948e-22	1.00000	3.41046e-22	1.000000
rad28	2.49001e-23	1.00000	2.49071e-23	1.000000
rad22	4.91251e-24	1.00000	4.91391e-24	1.000000
rad5	2.37772e-25	1.00000	2.37840e-25	1.000000

0.100000000E-06 Pa, 1400.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.19360e-12 (1.00)	6.18997e-12 (1.00)
Formation of rad19	4.34185e-12 (0.701)	4.33861e-12 (0.701)
H-abstraction to cyc2enyl	1.32990e-12 (0.215)	1.32990e-12 (0.215)
H-abstraction to cyc1enyl	5.21850e-13 (0.0843)	5.21461e-13 (0.0842)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.566028	0.566028	0.566360	0.566360
Benzene+cycloprop-2-enylidene	0.214721	0.780749	0.214847	0.781207
PhCHCCH2+H	0.113526	0.894275	0.113593	0.894800
Benzene+cycloprop-1-enylidene	0.0842564	0.978532	0.0842429	0.979043
Ph+MeAc	0.00387284	0.982405	0.00387511	0.982918
Ph+Allene	0.00376036	0.986165	0.00376256	0.986680
C2H2+PhCH2	0.00367929	0.989844	0.00368145	0.990362
PhCH2CCH+H	0.00231297	0.992157	0.00231433	0.992676
PhCCCH3+H	0.00159640	0.993754	0.00159734	0.994274
rad67	0.00144409	0.995198	0.00144494	0.995719
PhcycC3H3_A+H	0.00120489	0.996403	0.00120559	0.996924
PhcycC3H3_B+H	0.00109183	0.997495	0.00109247	0.998017
PhCCH+CH3	0.000988680	0.998483	0.000989264	0.999006
Phenyl+cycC3H4	0.000523345	0.999007	0.000000	0.999006
rad35	0.000519418	0.999526	0.000519722	0.999526
PAH10+CH3	0.000132940	0.999659	0.000133019	0.999659
rad37	0.000103969	0.999763	0.000104030	0.999763
PAH7+H	9.76629e-05	0.999861	9.77202e-05	0.999860
PAH9+H	3.30451e-05	0.999894	3.30646e-05	0.999893
rad38	2.89869e-05	0.999923	2.90039e-05	0.999922
PAH3+H	2.09773e-05	0.999944	2.09896e-05	0.999943
rad30	2.03484e-05	0.999964	2.03603e-05	0.999964
rad39	1.60326e-05	0.999980	1.60420e-05	0.999980
rad46	4.60489e-06	0.999985	4.60759e-06	0.999984
rad50	3.39256e-06	0.999988	3.39455e-06	0.999988
rad59	2.10237e-06	0.999990	2.10360e-06	0.999990
PAH1+H	2.05214e-06	0.999992	2.05334e-06	0.999992
rad60syn	1.88965e-06	0.999994	1.89076e-06	0.999994
rad54	1.78086e-06	0.999996	1.78190e-06	0.999996
rad60anti	1.16973e-06	0.999997	1.17042e-06	0.999997
rad51	8.27129e-07	0.999998	8.27613e-07	0.999998
rad43	6.31782e-07	0.999998	6.32153e-07	0.999998
rad70	5.60217e-07	0.999999	5.60546e-07	0.999999
rad52	2.70713e-07	0.999999	2.70872e-07	0.999999

rad58	1.78428e-07	0.999999	1.78532e-07	0.999999
rad61	1.46277e-07	1.000000	1.46363e-07	0.999999
rad34	1.30056e-07	1.000000	1.30132e-07	1.000000
rad55	1.23571e-07	1.000000	1.23644e-07	1.000000
rad62	4.61529e-08	1.000000	4.61799e-08	1.000000
rad41	3.74002e-08	1.000000	3.74221e-08	1.000000
PAH8+H	2.63148e-08	1.000000	2.63303e-08	1.000000
rad53	2.60384e-08	1.000000	2.60537e-08	1.000000
rad65	2.42340e-08	1.000000	2.42482e-08	1.000000
rad56	2.33522e-08	1.000000	2.33659e-08	1.000000
rad71	1.41523e-08	1.000000	1.41606e-08	1.000000
rad73	1.20322e-08	1.000000	1.20393e-08	1.000000
rad64	8.79755e-09	1.000000	8.80273e-09	1.000000
rad68syn	6.90097e-09	1.000000	6.90502e-09	1.000000
rad40syn	4.57744e-09	1.000000	4.58013e-09	1.000000
rad68anti	4.51464e-09	1.000000	4.51729e-09	1.000000
rad40anti	3.59045e-09	1.000000	3.59256e-09	1.000000
rad42	3.00666e-09	1.000000	3.00843e-09	1.000000
rad72	3.28506e-10	1.000000	3.28699e-10	1.000000
rad9	1.23997e-13	1.000000	1.24069e-13	1.000000
rad12	4.68956e-16	1.000000	4.69231e-16	1.000000
rad15	3.62250e-16	1.000000	3.62462e-16	1.000000
rad23	2.81891e-17	1.000000	2.82056e-17	1.000000
rad45	1.87709e-17	1.000000	1.87819e-17	1.000000
rad11	1.44856e-17	1.000000	1.44941e-17	1.000000
rad19anti	1.15118e-17	1.000000	1.15186e-17	1.000000
rad2	6.73822e-18	1.000000	6.74217e-18	1.000000
rad8	5.66687e-18	1.000000	5.67019e-18	1.000000
rad6	3.91472e-18	1.000000	3.91702e-18	1.000000
rad21	3.67060e-18	1.000000	3.67275e-18	1.000000
rad7	3.48156e-18	1.000000	3.48360e-18	1.000000
rad13	2.61024e-18	1.000000	2.61177e-18	1.000000
rad10	2.47820e-18	1.000000	2.47965e-18	1.000000
rad1	2.00645e-18	1.000000	2.00762e-18	1.000000
rad36	1.96365e-18	1.000000	1.96480e-18	1.000000
rad19syn	8.90593e-19	1.000000	8.91116e-19	1.000000
rad20	8.28826e-19	1.000000	8.29310e-19	1.000000
rad18	5.37818e-19	1.000000	5.38134e-19	1.000000
rad24	1.80313e-19	1.000000	1.80420e-19	1.000000
rad33	1.72625e-19	1.000000	1.72727e-19	1.000000
rad25	7.72646e-20	1.000000	7.73097e-20	1.000000
rad3	5.30122e-20	1.000000	5.30433e-20	1.000000
rad4	4.29028e-20	1.000000	4.29280e-20	1.000000
rad27	3.50744e-20	1.000000	3.50950e-20	1.000000
rad26	2.23174e-20	1.000000	2.23305e-20	1.000000
rad14	3.02573e-21	1.000000	3.02750e-21	1.000000
rad31	2.62635e-21	1.000000	2.62789e-21	1.000000
rad47	7.15113e-22	1.000000	7.15531e-22	1.000000
rad28	3.11058e-22	1.000000	3.11240e-22	1.000000
rad22	8.81269e-23	1.000000	8.81787e-23	1.000000
rad5	1.06059e-23	1.000000	1.06121e-23	1.000000

0.100000000E-06 Pa, 1500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.80417e-12 (1.00)	7.79561e-12 (1.00)
Formation of rad19	5.22661e-12 (0.670)	5.21915e-12 (0.669)
H-abstraction to cyc2enyl	1.80920e-12 (0.232)	1.80920e-12 (0.232)
H-abstraction to cyclenyl	7.68359e-13 (0.0985)	7.67262e-13 (0.0984)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.505870	0.505870	0.506425	0.506425
Benzene+cycloprop-2-enylidene	0.231825	0.737695	0.232079	0.738505
PhCHCCH2+H	0.135967	0.873662	0.136116	0.874621
Benzene+cycloprop-1-enylidene	0.0984549	0.972117	0.0984223	0.973043
Ph+MeAc	0.00470570	0.976823	0.00471086	0.977754
Ph+Allene	0.00464760	0.981470	0.00465271	0.982407
C2H2+PhCH2	0.00447301	0.985943	0.00447791	0.986885
PhCH2CCH+H	0.00304819	0.988991	0.00305154	0.989936
PhcycC3H3_A+H	0.00198976	0.990981	0.00199195	0.991928
PhcycC3H3_B+H	0.00193280	0.992914	0.00193492	0.993863
PhCCCH3+H	0.00187667	0.994791	0.00187873	0.995742
rad67	0.00179097	0.996582	0.00179294	0.997535
PhCCH+CH3	0.00117783	0.997759	0.00117912	0.998714
Phenyl+cycC3H4	0.000956146	0.998716	0.000000	0.998714
rad35	0.000644848	0.999360	0.000645555	0.999360
PAH10+CH3	0.000194190	0.999555	0.000194404	0.999554
rad37	0.000129806	0.999684	0.000129949	0.999684

Indene+H	0.999772	0.999772	0.999772	0.999772
PhCHCCH2+H	0.000217190	0.999989	0.000217190	0.999989
PhCCH+CH3	3.74993e-06	0.999993	3.74993e-06	0.999993
C2H2+PhCH2	2.66078e-06	0.999996	2.66078e-06	0.999996
PhCCCH3+H	2.10744e-06	0.999998	2.10744e-06	0.999998
Ph+MeAc	1.55535e-06	0.999999	1.55535e-06	0.999999
rad67	4.72017e-07	1.000000	4.72017e-07	1.000000
rad35	2.09059e-07	1.000000	2.09059e-07	1.000000
Ph+Allene	1.34639e-07	1.000000	1.34639e-07	1.000000
PAH7+H	1.78373e-08	1.000000	1.78373e-08	1.000000
PhCH2CCH+H	1.63595e-08	1.000000	1.63595e-08	1.000000
rad39	5.03017e-09	1.000000	5.03017e-09	1.000000
rad37	4.62673e-09	1.000000	4.62673e-09	1.000000
rad30	3.90781e-09	1.000000	3.90781e-09	1.000000
PAH9+H	2.53961e-10	1.000000	2.53961e-10	1.000000
rad38	1.06938e-10	1.000000	1.06938e-10	1.000000
rad60syn	1.69319e-11	1.000000	1.69319e-11	1.000000
rad60anti	8.26560e-12	1.000000	8.26560e-12	1.000000
PAH3+H	6.72155e-12	1.000000	6.72155e-12	1.000000
rad46	6.42601e-12	1.000000	6.42601e-12	1.000000
PAH10+CH3	5.52880e-12	1.000000	5.52880e-12	1.000000
rad59	1.39467e-12	1.000000	1.39467e-12	1.000000
PhcycC3H3_A+H	4.13677e-13	1.000000	4.13677e-13	1.000000
rad43	2.58810e-13	1.000000	2.58810e-13	1.000000
rad54	2.05786e-13	1.000000	2.05786e-13	1.000000
rad62	5.54306e-14	1.000000	5.54306e-14	1.000000
rad50	4.23315e-14	1.000000	4.23315e-14	1.000000
rad70	3.14362e-15	1.000000	3.14362e-15	1.000000
rad55	1.37813e-15	1.000000	1.37813e-15	1.000000
PAH1+H	5.58594e-16	1.000000	5.58594e-16	1.000000
rad52	2.67814e-16	1.000000	2.67814e-16	1.000000
rad58	7.50234e-17	1.000000	7.50234e-17	1.000000
rad51	6.49691e-17	1.000000	6.49691e-17	1.000000
rad34	2.91050e-17	1.000000	2.91050e-17	1.000000
Phenyl+cycC3H4	2.77347e-17	1.000000	0.000000	1.000000
rad42	3.04830e-18	1.000000	3.04830e-18	1.000000
rad41	2.76406e-18	1.000000	2.76406e-18	1.000000
rad65	1.27714e-18	1.000000	1.27714e-18	1.000000
PhcycC3H3_B+H	2.48349e-31	1.000000	2.48349e-31	1.000000
rad53	1.11865e-32	1.000000	1.11865e-32	1.000000
rad6	1.08467e-32	1.000000	1.08467e-32	1.000000
rad26	8.42249e-33	1.000000	8.42249e-33	1.000000
rad47	5.36316e-33	1.000000	5.36316e-33	1.000000
rad28	2.85953e-33	1.000000	2.85953e-33	1.000000
rad64	4.89180e-35	1.000000	4.89180e-35	1.000000
rad2	1.53972e-35	1.000000	1.53972e-35	1.000000
rad14	2.26788e-36	1.000000	2.26788e-36	1.000000
rad25	1.04423e-36	1.000000	1.04423e-36	1.000000
rad1	9.72593e-37	1.000000	9.72593e-37	1.000000
rad10	8.05889e-37	1.000000	8.05889e-37	1.000000
rad7	7.82536e-37	1.000000	7.82536e-37	1.000000
rad27	2.12313e-37	1.000000	2.12313e-37	1.000000
rad11	1.94623e-37	1.000000	1.94623e-37	1.000000
rad19anti	1.76071e-37	1.000000	1.76071e-37	1.000000
rad3	1.60068e-37	1.000000	1.60068e-37	1.000000
rad4	8.08463e-38	1.000000	8.08463e-38	1.000000
rad13	4.32209e-39	1.000000	4.32209e-39	1.000000
rad9	2.40698e-39	1.000000	2.40698e-39	1.000000
rad5	7.09922e-40	1.000000	7.09922e-40	1.000000
rad33	1.62497e-41	1.000000	1.62497e-41	1.000000
rad31	1.07180e-41	1.000000	1.07180e-41	1.000000
rad61	5.02958e-42	1.000000	5.02958e-42	1.000000
rad15	1.05240e-42	1.000000	1.05240e-42	1.000000
rad20	5.65075e-44	1.000000	5.65075e-44	1.000000
rad21	4.47127e-44	1.000000	4.47127e-44	1.000000
rad56	3.36943e-44	1.000000	3.36943e-44	1.000000
rad18	7.20083e-46	1.000000	7.20083e-46	1.000000
rad12	3.97080e-46	1.000000	3.97080e-46	1.000000
Benzene+cycloprop-2-enylidene	3.08591e-46	1.000000	3.08591e-46	1.000000
rad68syn	2.54023e-46	1.000000	2.54023e-46	1.000000
rad68anti	2.17398e-46	1.000000	2.17398e-46	1.000000
rad19syn	1.37416e-47	1.000000	1.37416e-47	1.000000
rad23	5.31319e-48	1.000000	5.31319e-48	1.000000
rad22	3.72947e-48	1.000000	3.72947e-48	1.000000
rad24	7.35788e-50	1.000000	7.35788e-50	1.000000
rad45	3.76091e-50	1.000000	3.76091e-50	1.000000
rad36	2.30670e-51	1.000000	2.30670e-51	1.000000
rad73	2.07001e-54	1.000000	2.07001e-54	1.000000
rad40syn	2.93458e-55	1.000000	2.93458e-55	1.000000
rad40anti	2.41836e-55	1.000000	2.41836e-55	1.000000

PAH8+H	1.12087e-59	1.00000	1.12087e-59	1.00000
rad71	3.49397e-63	1.00000	3.49397e-63	1.00000
rad8	2.40363e-67	1.00000	2.40363e-67	1.00000
Benzene+cycloprop-1-enylidene	5.02895e-84	1.00000	5.02895e-84	1.00000

0.100000000E-07 Pa, 30.0000000 K

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Rate constant      | True (fraction)      Effective (fraction)
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Total              | 8.13009e-20 (1.00   ) 8.13009e-20 (1.00   )
Formation of rad19 | 8.13009e-20 (1.00   ) 8.13009e-20 (1.00   )
H-abstraction to cyc2enyl | 1.08880e-49 (1.34e-30) 1.08880e-49 (1.34e-30)
H-abstraction to cyclenyl | 7.55172e-75 (9.29e-56) 7.55172e-75 (9.29e-56)
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species            | PYtrue      Cumul      | PYeffective  Cumul
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Indene+H           | 0.999770    0.999770    | 0.999770    0.999770
PhCHCCH2+H        | 0.000218740 0.999989    | 0.000218740 0.999989
PhCCH+CH3         | 3.77922e-06 0.999993    | 3.77922e-06 0.999993
C2H2+PhCH2       | 2.68544e-06 0.999995    | 2.68544e-06 0.999995
PhCCCH3+H        | 2.12543e-06 0.999997    | 2.12543e-06 0.999997
Ph+MeAc          | 1.57151e-06 0.999999    | 1.57151e-06 0.999999
rad67             | 4.76660e-07 0.999999    | 4.76660e-07 0.999999
rad35             | 2.11031e-07 1.000000    | 2.11031e-07 1.000000
Ph+Allene         | 1.36499e-07 1.000000    | 1.36499e-07 1.000000
PAH7+H           | 1.80489e-08 1.000000    | 1.80489e-08 1.000000
PhCH2CCH+H       | 1.66215e-08 1.000000    | 1.66215e-08 1.000000
rad39            | 5.09007e-09 1.000000    | 5.09007e-09 1.000000
rad37            | 4.68501e-09 1.000000    | 4.68501e-09 1.000000
rad30            | 3.94539e-09 1.000000    | 3.94539e-09 1.000000
PAH9+H           | 2.57108e-10 1.000000    | 2.57108e-10 1.000000
rad38            | 1.08385e-10 1.000000    | 1.08385e-10 1.000000
rad60syn         | 1.71588e-11 1.000000    | 1.71588e-11 1.000000
rad60anti        | 8.37914e-12 1.000000    | 8.37914e-12 1.000000
PAH3+H           | 6.84326e-12 1.000000    | 6.84326e-12 1.000000
rad46            | 6.51963e-12 1.000000    | 6.51963e-12 1.000000
PAH10+CH3        | 5.67120e-12 1.000000    | 5.67120e-12 1.000000
rad59            | 1.41896e-12 1.000000    | 1.41896e-12 1.000000
PhcycC3H3_A+H    | 4.42422e-13 1.000000    | 4.42422e-13 1.000000
rad43            | 2.64743e-13 1.000000    | 2.64743e-13 1.000000
rad54            | 2.11004e-13 1.000000    | 2.11004e-13 1.000000
rad62            | 5.67504e-14 1.000000    | 5.67504e-14 1.000000
rad50            | 4.32261e-14 1.000000    | 4.32261e-14 1.000000
rad70            | 3.24823e-15 1.000000    | 3.24823e-15 1.000000
rad55            | 1.42504e-15 1.000000    | 1.42504e-15 1.000000
PAH1+H           | 5.84855e-16 1.000000    | 5.84855e-16 1.000000
rad52            | 2.74820e-16 1.000000    | 2.74820e-16 1.000000
rad58            | 7.77933e-17 1.000000    | 7.77933e-17 1.000000
rad51            | 6.70684e-17 1.000000    | 6.70684e-17 1.000000
Phenyl+cycC3H4  | 5.25631e-17 1.000000    | 0.00000     1.000000
rad34            | 3.05744e-17 1.000000    | 3.05744e-17 1.000000
rad42            | 3.20852e-18 1.000000    | 3.20852e-18 1.000000
rad41            | 2.96189e-18 1.000000    | 2.96189e-18 1.000000
rad65            | 1.32250e-18 1.000000    | 1.32250e-18 1.000000
PhcycC3H3_B+H    | 4.17906e-19 1.000000    | 4.17906e-19 1.000000
Benzene+cycloprop-2-enylidene | 1.33923e-30 1.000000    | 1.33923e-30 1.000000
rad53            | 9.57173e-33 1.000000    | 9.57173e-33 1.000000
rad26            | 3.92746e-33 1.000000    | 3.92746e-33 1.000000
rad47            | 2.66202e-33 1.000000    | 2.66202e-33 1.000000
rad6             | 2.44799e-33 1.000000    | 2.44799e-33 1.000000
rad28            | 1.18486e-33 1.000000    | 1.18486e-33 1.000000
rad64            | 3.66428e-35 1.000000    | 3.66428e-35 1.000000
rad2             | 5.84034e-36 1.000000    | 5.84034e-36 1.000000
rad14            | 1.11600e-36 1.000000    | 1.11600e-36 1.000000
rad25            | 5.15837e-37 1.000000    | 5.15837e-37 1.000000
rad1             | 3.69111e-37 1.000000    | 3.69111e-37 1.000000
rad10            | 3.24648e-37 1.000000    | 3.24648e-37 1.000000
rad7             | 1.76677e-37 1.000000    | 1.76677e-37 1.000000
rad27            | 1.04941e-37 1.000000    | 1.04941e-37 1.000000
rad19anti        | 9.43582e-38 1.000000    | 9.43582e-38 1.000000
rad3             | 6.66431e-38 1.000000    | 6.66431e-38 1.000000
rad11            | 4.47845e-38 1.000000    | 4.47845e-38 1.000000
rad4             | 3.36633e-38 1.000000    | 3.36633e-38 1.000000
rad13            | 9.76078e-40 1.000000    | 9.76078e-40 1.000000
rad9             | 9.02921e-40 1.000000    | 9.02921e-40 1.000000
rad5             | 2.93670e-40 1.000000    | 2.93670e-40 1.000000
rad33            | 5.90910e-42 1.000000    | 5.90910e-42 1.000000
rad31            | 5.64755e-42 1.000000    | 5.64755e-42 1.000000
rad61            | 3.99438e-42 1.000000    | 3.99438e-42 1.000000
rad15            | 3.96314e-43 1.000000    | 3.96314e-43 1.000000

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rad20	2.85019e-44	1.000000	2.85019e-44	1.000000
rad56	2.62090e-44	1.000000	2.62090e-44	1.000000
rad21	2.25784e-44	1.000000	2.25784e-44	1.000000
rad18	3.58954e-46	1.000000	3.58954e-46	1.000000
rad12	2.04615e-46	1.000000	2.04615e-46	1.000000
rad68syn	1.99221e-46	1.000000	1.99221e-46	1.000000
rad68anti	1.70453e-46	1.000000	1.70453e-46	1.000000
rad19syn	8.38610e-48	1.000000	8.38610e-48	1.000000
rad23	1.82949e-48	1.000000	1.82949e-48	1.000000
rad22	1.82806e-48	1.000000	1.82806e-48	1.000000
rad24	3.78959e-50	1.000000	3.78959e-50	1.000000
rad45	1.34393e-50	1.000000	1.34393e-50	1.000000
rad36	8.24135e-52	1.000000	8.24135e-52	1.000000
rad73	1.66954e-54	1.000000	1.66954e-54	1.000000
rad40syn	2.57248e-55	1.000000	2.57248e-55	1.000000
rad40anti	2.11969e-55	1.000000	2.11969e-55	1.000000
Benzene+cycloprop-1-enylidene	9.28861e-56	1.000000	9.28861e-56	1.000000
PAH8+H	1.00608e-59	1.000000	1.00608e-59	1.000000
rad71	2.96430e-63	1.000000	2.96430e-63	1.000000
rad8	1.26714e-67	1.000000	1.26714e-67	1.000000

0.100000000E-07 Pa, 40.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.24819e-18 (1.00)	2.24819e-18 (1.00)
Formation of rad19	2.24819e-18 (1.00)	2.24819e-18 (1.00)
H-abstraction to cyc2enyl	1.72361e-40 (7.67e-23)	1.72361e-40 (7.67e-23)
H-abstraction to cyclenyl	2.48792e-59 (1.11e-41)	2.48792e-59 (1.11e-41)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999767	0.999767	0.999767	0.999767
PhCHCCH2+H	0.000221748	0.999989	0.000221748	0.999989
PhCCH+CH3	3.83605e-06	0.999993	3.83605e-06	0.999993
C2H2+PhCH2	2.73340e-06	0.999995	2.73340e-06	0.999995
PhCCCH3+H	2.16038e-06	0.999997	2.16038e-06	0.999997
Ph+MeAc	1.60299e-06	0.999999	1.60299e-06	0.999999
rad67	4.85698e-07	1.000000	4.85698e-07	1.000000
rad35	2.14867e-07	1.000000	2.14867e-07	1.000000
Ph+Allene	1.40139e-07	1.000000	1.40139e-07	1.000000
PAH7+H	1.84621e-08	1.000000	1.84621e-08	1.000000
PhCH2CCH+H	1.71356e-08	1.000000	1.71356e-08	1.000000
rad39	5.20698e-09	1.000000	5.20698e-09	1.000000
rad37	4.79888e-09	1.000000	4.79888e-09	1.000000
rad30	4.01853e-09	1.000000	4.01853e-09	1.000000
PAH9+H	2.63258e-10	1.000000	2.63258e-10	1.000000
rad38	1.11216e-10	1.000000	1.11216e-10	1.000000
rad60syn	1.76027e-11	1.000000	1.76027e-11	1.000000
rad60anti	8.60137e-12	1.000000	8.60137e-12	1.000000
PAH3+H	7.08284e-12	1.000000	7.08284e-12	1.000000
rad46	6.70313e-12	1.000000	6.70313e-12	1.000000
PAH10+CH3	5.95405e-12	1.000000	5.95405e-12	1.000000
rad59	1.46672e-12	1.000000	1.46672e-12	1.000000
PhcycC3H3_A+H	5.01394e-13	1.000000	5.01394e-13	1.000000
rad43	2.76481e-13	1.000000	2.76481e-13	1.000000
rad54	2.21365e-13	1.000000	2.21365e-13	1.000000
rad62	5.93637e-14	1.000000	5.93637e-14	1.000000
rad50	4.49944e-14	1.000000	4.49944e-14	1.000000
rad70	3.45813e-15	1.000000	3.45813e-15	1.000000
rad55	1.51897e-15	1.000000	1.51897e-15	1.000000
PAH1+H	6.38443e-16	1.000000	6.38443e-16	1.000000
rad52	2.88755e-16	1.000000	2.88755e-16	1.000000
Phenyl+cycC3H4	1.15738e-16	1.000000	0.000000	1.000000
rad58	8.33664e-17	1.000000	8.33664e-17	1.000000
rad51	7.12775e-17	1.000000	7.12775e-17	1.000000
rad34	3.35233e-17	1.000000	3.35233e-17	1.000000
rad42	3.55448e-18	1.000000	3.55448e-18	1.000000
rad41	3.38724e-18	1.000000	3.38724e-18	1.000000
rad65	1.41378e-18	1.000000	1.41378e-18	1.000000
Benzene+cycloprop-2-enylidene	7.66665e-23	1.000000	7.66665e-23	1.000000
PhcycC3H3_B+H	8.31291e-25	1.000000	8.31291e-25	1.000000
rad53	2.40803e-29	1.000000	2.40803e-29	1.000000
rad64	2.76937e-33	1.000000	2.76937e-33	1.000000
rad26	2.52652e-33	1.000000	2.52652e-33	1.000000
rad47	1.79767e-33	1.000000	1.79767e-33	1.000000
rad6	1.08285e-33	1.000000	1.08285e-33	1.000000
rad28	7.25670e-34	1.000000	7.25670e-34	1.000000
rad2	3.98506e-36	1.000000	3.98506e-36	1.000000
rad14	7.43207e-37	1.000000	7.43207e-37	1.000000

rad25	3.46204e-37	1.000000	3.46204e-37	1.000000
rad1	2.52139e-37	1.000000	2.52139e-37	1.000000
rad10	2.16370e-37	1.000000	2.16370e-37	1.000000
rad7	7.82078e-38	1.000000	7.82078e-38	1.000000
rad19anti	7.57595e-38	1.000000	7.57595e-38	1.000000
rad27	7.05390e-38	1.000000	7.05390e-38	1.000000
rad3	4.93081e-38	1.000000	4.93081e-38	1.000000
rad4	2.49126e-38	1.000000	2.49126e-38	1.000000
rad11	2.01858e-38	1.000000	2.01858e-38	1.000000
rad9	5.77539e-40	1.000000	5.77539e-40	1.000000
rad13	4.32265e-40	1.000000	4.32265e-40	1.000000
rad5	1.79484e-40	1.000000	1.79484e-40	1.000000
Benzene+cycloprop-1-enylidene	1.10663e-41	1.000000	1.10663e-41	1.000000
rad61	6.80052e-42	1.000000	6.80052e-42	1.000000
rad31	4.36406e-42	1.000000	4.36406e-42	1.000000
rad33	3.63468e-42	1.000000	3.63468e-42	1.000000
rad15	2.53869e-43	1.000000	2.53869e-43	1.000000
rad56	4.28736e-44	1.000000	4.28736e-44	1.000000
rad20	1.99984e-44	1.000000	1.99984e-44	1.000000
rad21	1.58797e-44	1.000000	1.58797e-44	1.000000
rad68syn	3.31655e-46	1.000000	3.31655e-46	1.000000
rad68anti	2.83606e-46	1.000000	2.83606e-46	1.000000
rad18	2.45624e-46	1.000000	2.45624e-46	1.000000
rad12	1.52362e-46	1.000000	1.52362e-46	1.000000
rad19syn	8.61360e-48	1.000000	8.61360e-48	1.000000
rad22	1.22869e-48	1.000000	1.22869e-48	1.000000
rad23	1.09554e-48	1.000000	1.09554e-48	1.000000
rad24	2.77723e-50	1.000000	2.77723e-50	1.000000
rad45	8.55213e-51	1.000000	8.55213e-51	1.000000
rad36	5.24261e-52	1.000000	5.24261e-52	1.000000
rad73	2.95408e-54	1.000000	2.95408e-54	1.000000
rad40syn	5.41703e-55	1.000000	5.41703e-55	1.000000
rad40anti	4.46179e-55	1.000000	4.46179e-55	1.000000
PAH8+H	2.23567e-59	1.000000	2.23567e-59	1.000000
rad71	5.87042e-63	1.000000	5.87042e-63	1.000000
rad8	9.75566e-68	1.000000	9.75566e-68	1.000000

0.100000000E-07 Pa, 50.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.72707e-17 (1.00)	1.72707e-17 (1.00)
Formation of rad19	1.72707e-17 (1.00)	1.72707e-17 (1.00)
H-abstraction to cyc2enyl	5.49905e-35 (3.18e-18)	5.49905e-35 (3.18e-18)
H-abstraction to cyclenyl	4.93090e-50 (2.86e-33)	4.93090e-50 (2.86e-33)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999763	0.999763	0.999763	0.999763
PhCHCCH2+H	0.000225658	0.999989	0.000225658	0.999989
PhCCH+CH3	3.90994e-06	0.999993	3.90994e-06	0.999993
C2H2+PhCH2	2.79605e-06	0.999995	2.79605e-06	0.999995
PhCCCH3+H	2.20592e-06	0.999998	2.20592e-06	0.999998
Ph+MeAc	1.64418e-06	0.999999	1.64418e-06	0.999999
rad67	4.97514e-07	1.000000	4.97514e-07	1.000000
rad35	2.19879e-07	1.000000	2.19879e-07	1.000000
Ph+Allene	1.44942e-07	1.000000	1.44942e-07	1.000000
PAH7+H	1.90048e-08	1.000000	1.90048e-08	1.000000
PhCH2CCH+H	1.78174e-08	1.000000	1.78174e-08	1.000000
rad39	5.36057e-09	1.000000	5.36057e-09	1.000000
rad37	4.94868e-09	1.000000	4.94868e-09	1.000000
rad30	4.11419e-09	1.000000	4.11419e-09	1.000000
PAH9+H	2.71352e-10	1.000000	2.71352e-10	1.000000
rad38	1.14954e-10	1.000000	1.14954e-10	1.000000
rad60syn	1.81880e-11	1.000000	1.81880e-11	1.000000
rad60anti	8.89466e-12	1.000000	8.89466e-12	1.000000
PAH3+H	7.40206e-12	1.000000	7.40206e-12	1.000000
rad46	6.94584e-12	1.000000	6.94584e-12	1.000000
PAH10+CH3	6.33665e-12	1.000000	6.33665e-12	1.000000
rad59	1.53025e-12	1.000000	1.53025e-12	1.000000
PhcycC3H3_A+H	5.85937e-13	1.000000	5.85937e-13	1.000000
rad43	2.92252e-13	1.000000	2.92252e-13	1.000000
rad54	2.35374e-13	1.000000	2.35374e-13	1.000000
rad62	6.28791e-14	1.000000	6.28791e-14	1.000000
rad50	4.73675e-14	1.000000	4.73675e-14	1.000000
rad70	3.74676e-15	1.000000	3.74676e-15	1.000000
rad55	1.64775e-15	1.000000	1.64775e-15	1.000000
PAH1+H	7.14028e-16	1.000000	7.14028e-16	1.000000
rad52	3.07655e-16	1.000000	3.07655e-16	1.000000
Phenyl+cycC3H4	2.36668e-16	1.000000	0.000000	1.000000

rad58	9.10706e-17	1.00000	9.10706e-17	1.00000
rad51	7.70607e-17	1.00000	7.70607e-17	1.00000
rad34	3.76207e-17	1.00000	3.76207e-17	1.00000
rad42	4.07396e-18	1.00000	4.07396e-18	1.00000
rad41	4.02391e-18	1.00000	4.02391e-18	1.00000
Benzene+cycloprop-2-enylidene	3.18404e-18	1.00000	3.18404e-18	1.00000
rad65	1.53995e-18	1.00000	1.53995e-18	1.00000
PhcycC3H3_B+H	2.98283e-22	1.00000	2.98283e-22	1.00000
rad53	8.13836e-27	1.00000	8.13836e-27	1.00000
rad64	5.78556e-30	1.00000	5.78556e-30	1.00000
Benzene+cycloprop-1-enylidene	2.85507e-33	1.00000	2.85507e-33	1.00000
rad26	1.83949e-33	1.00000	1.83949e-33	1.00000
rad47	1.37437e-33	1.00000	1.37437e-33	1.00000
rad6	6.18810e-34	1.00000	6.18810e-34	1.00000
rad28	5.13390e-34	1.00000	5.13390e-34	1.00000
rad2	3.15995e-36	1.00000	3.15995e-36	1.00000
rad14	5.60681e-37	1.00000	5.60681e-37	1.00000
rad25	2.63922e-37	1.00000	2.63922e-37	1.00000
rad1	2.00257e-37	1.00000	2.00257e-37	1.00000
rad10	1.76376e-37	1.00000	1.76376e-37	1.00000
rad19anti	7.56647e-38	1.00000	7.56647e-38	1.00000
rad27	5.39173e-38	1.00000	5.39173e-38	1.00000
rad7	4.47369e-38	1.00000	4.47369e-38	1.00000
rad3	3.97644e-38	1.00000	3.97644e-38	1.00000
rad4	2.00976e-38	1.00000	2.00976e-38	1.00000
rad11	1.17544e-38	1.00000	1.17544e-38	1.00000
rad9	4.58682e-40	1.00000	4.58682e-40	1.00000
rad13	2.47419e-40	1.00000	2.47419e-40	1.00000
rad5	1.27715e-40	1.00000	1.27715e-40	1.00000
rad61	1.95110e-41	1.00000	1.95110e-41	1.00000
rad31	4.10754e-42	1.00000	4.10754e-42	1.00000
rad33	2.71603e-42	1.00000	2.71603e-42	1.00000
rad15	2.01711e-43	1.00000	2.01711e-43	1.00000
rad56	1.18498e-43	1.00000	1.18498e-43	1.00000
rad20	1.62472e-44	1.00000	1.62472e-44	1.00000
rad21	1.29446e-44	1.00000	1.29446e-44	1.00000
rad68syn	9.39641e-46	1.00000	9.39641e-46	1.00000
rad68anti	8.02868e-46	1.00000	8.02868e-46	1.00000
rad18	1.92536e-46	1.00000	1.92536e-46	1.00000
rad12	1.35290e-46	1.00000	1.35290e-46	1.00000
rad19syn	1.15714e-47	1.00000	1.15714e-47	1.00000
rad22	9.41403e-49	1.00000	9.41403e-49	1.00000
rad23	8.26576e-49	1.00000	8.26576e-49	1.00000
rad24	2.40030e-50	1.00000	2.40030e-50	1.00000
rad45	6.45377e-51	1.00000	6.45377e-51	1.00000
rad36	3.95462e-52	1.00000	3.95462e-52	1.00000
rad73	9.15254e-54	1.00000	9.15254e-54	1.00000
rad40syn	2.11570e-54	1.00000	2.11570e-54	1.00000
rad40anti	1.74111e-54	1.00000	1.74111e-54	1.00000
PAH8+H	9.50859e-59	1.00000	9.50859e-59	1.00000
rad71	2.15899e-62	1.00000	2.15899e-62	1.00000
rad8	9.04687e-68	1.00000	9.04687e-68	1.00000

0.100000000E-07 Pa, 60.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.93738e-17 (1.00)	6.93738e-17 (1.00)
Formation of rad19	6.93738e-17 (1.000)	6.93738e-17 (1.000)
H-abstraction to cyc2enyl	2.50609e-31 (3.61e-15)	2.50609e-31 (3.61e-15)
H-abstraction to cyc1enyl	7.62015e-44 (1.10e-27)	7.62015e-44 (1.10e-27)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999758	0.999758	0.999758	0.999758
PhCHCCH2+H	0.000230121	0.999988	0.000230121	0.999988
PhCCH+CH3	3.99427e-06	0.999992	3.99427e-06	0.999992
C2H2+PhCH2	2.86797e-06	0.999995	2.86797e-06	0.999995
PhCCCH3+H	2.25806e-06	0.999997	2.25806e-06	0.999997
Ph+MeAc	1.69157e-06	0.999999	1.69157e-06	0.999999
rad67	5.11098e-07	0.999999	5.11098e-07	0.999999
rad35	2.25634e-07	1.000000	2.25634e-07	1.000000
Ph+Allene	1.50530e-07	1.000000	1.50530e-07	1.000000
PAH7+H	1.96327e-08	1.000000	1.96327e-08	1.000000
PhCH2CCH+H	1.86153e-08	1.000000	1.86153e-08	1.000000
rad39	5.53820e-09	1.000000	5.53820e-09	1.000000
rad37	5.12226e-09	1.000000	5.12226e-09	1.000000
rad30	4.22418e-09	1.000000	4.22418e-09	1.000000
PAH9+H	2.80739e-10	1.000000	2.80739e-10	1.000000
rad38	1.19306e-10	1.000000	1.19306e-10	1.000000

rad60syn	1.88685e-11	1.000000	1.88685e-11	1.000000
rad60anti	9.23591e-12	1.000000	9.23591e-12	1.000000
PAH3+H	7.77808e-12	1.000000	7.77808e-12	1.000000
rad46	7.22908e-12	1.000000	7.22908e-12	1.000000
PAH10+CH3	6.79612e-12	1.000000	6.79612e-12	1.000000
rad59	1.60493e-12	1.000000	1.60493e-12	1.000000
PhcycC3H3_A+H	6.95715e-13	1.000000	6.95715e-13	1.000000
rad43	3.11028e-13	1.000000	3.11028e-13	1.000000
rad54	2.52187e-13	1.000000	2.52187e-13	1.000000
rad62	6.70704e-14	1.000000	6.70704e-14	1.000000
rad50	5.01888e-14	1.000000	5.01888e-14	1.000000
rad70	4.10054e-15	1.000000	4.10054e-15	1.000000
Benzene+cycloprop-2-enylidene	3.61245e-15	1.000000	3.61245e-15	1.000000
rad55	1.80524e-15	1.000000	1.80524e-15	1.000000
PAH1+H	8.09571e-16	1.000000	8.09571e-16	1.000000
Phenyl+cycC3H4	4.45921e-16	1.000000	0.000000	1.000000
rad52	3.30434e-16	1.000000	3.30434e-16	1.000000
rad58	1.00588e-16	1.000000	1.00588e-16	1.000000
rad51	8.41470e-17	1.000000	8.41470e-17	1.000000
rad34	4.27629e-17	1.000000	4.27629e-17	1.000000
rad41	4.87030e-18	1.000000	4.87030e-18	1.000000
rad42	4.76393e-18	1.000000	4.76393e-18	1.000000
rad65	1.69577e-18	1.000000	1.69577e-18	1.000000
PhcycC3H3_B+H	1.47017e-20	1.000000	1.47017e-20	1.000000
rad53	3.73122e-25	1.000000	3.73122e-25	1.000000
Benzene+cycloprop-1-enylidene	1.09842e-27	1.000000	1.09842e-27	1.000000
rad64	9.21628e-28	1.000000	9.21628e-28	1.000000
rad26	1.43553e-33	1.000000	1.43553e-33	1.000000
rad47	1.12620e-33	1.000000	1.12620e-33	1.000000
rad6	4.05987e-34	1.000000	4.05987e-34	1.000000
rad28	3.92701e-34	1.000000	3.92701e-34	1.000000
rad61	4.84973e-35	1.000000	4.84973e-35	1.000000
rad2	3.43764e-36	1.000000	3.43764e-36	1.000000
rad14	4.54809e-37	1.000000	4.54809e-37	1.000000
rad1	2.18293e-37	1.000000	2.18293e-37	1.000000
rad25	2.16692e-37	1.000000	2.16692e-37	1.000000
rad10	1.63948e-37	1.000000	1.63948e-37	1.000000
rad19anti	8.79993e-38	1.000000	8.79993e-38	1.000000
rad3	4.46605e-38	1.000000	4.46605e-38	1.000000
rad27	4.44347e-38	1.000000	4.44347e-38	1.000000
rad7	2.93857e-38	1.000000	2.93857e-38	1.000000
rad4	2.25819e-38	1.000000	2.25819e-38	1.000000
rad11	7.86159e-39	1.000000	7.86159e-39	1.000000
rad9	4.12633e-40	1.000000	4.12633e-40	1.000000
rad13	1.62641e-40	1.000000	1.62641e-40	1.000000
rad5	9.88495e-41	1.000000	9.88495e-41	1.000000
rad31	4.41910e-42	1.000000	4.41910e-42	1.000000
rad33	2.25930e-42	1.000000	2.25930e-42	1.000000
rad56	6.11503e-43	1.000000	6.11503e-43	1.000000
rad15	1.81448e-43	1.000000	1.81448e-43	1.000000
rad20	1.44207e-44	1.000000	1.44207e-44	1.000000
rad21	1.15369e-44	1.000000	1.15369e-44	1.000000
rad68syn	4.98097e-45	1.000000	4.98097e-45	1.000000
rad68anti	4.25203e-45	1.000000	4.25203e-45	1.000000
rad18	1.63559e-46	1.000000	1.63559e-46	1.000000
rad12	1.34263e-46	1.000000	1.34263e-46	1.000000
rad19syn	1.80508e-47	1.000000	1.80508e-47	1.000000
rad22	7.78305e-49	1.000000	7.78305e-49	1.000000
rad23	7.22721e-49	1.000000	7.22721e-49	1.000000
rad24	2.29768e-50	1.000000	2.29768e-50	1.000000
rad45	6.81362e-51	1.000000	6.81362e-51	1.000000
rad36	4.17344e-52	1.000000	4.17344e-52	1.000000
rad73	5.37830e-53	1.000000	5.37830e-53	1.000000
rad40syn	1.54572e-53	1.000000	1.54572e-53	1.000000
rad40anti	1.27006e-53	1.000000	1.27006e-53	1.000000
PAH8+H	7.80377e-58	1.000000	7.80377e-58	1.000000
rad71	1.56443e-61	1.000000	1.56443e-61	1.000000
rad8	9.43551e-68	1.000000	9.43551e-68	1.000000

0.100000000E-07 Pa, 70.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.91520e-16 (1.00)	1.91520e-16 (1.00)
Formation of rad19	1.91520e-16 (1.000)	1.91520e-16 (1.000)
H-abstraction to cyc2enyl	1.01125e-28 (5.28e-13)	1.01125e-28 (5.28e-13)
H-abstraction to cyclenyl	1.97822e-39 (1.03e-23)	1.97822e-39 (1.03e-23)

species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.999753	0.999753	0.999753	0.999753
PhCHCCH2+H	0.000235006	0.999988	0.000235006	0.999988
PhCCH+CH3	4.08659e-06	0.999992	4.08659e-06	0.999992
C2H2+PhCH2	2.94722e-06	0.999995	2.94722e-06	0.999995
PhCCCH3+H	2.31532e-06	0.999997	2.31532e-06	0.999997
Ph+MeAc	1.74394e-06	0.999999	1.74394e-06	0.999999
rad67	5.26090e-07	1.000000	5.26090e-07	1.000000
rad35	2.31978e-07	1.000000	2.31978e-07	1.000000
Ph+Allene	1.56781e-07	1.000000	1.56781e-07	1.000000
PAH7+H	2.03305e-08	1.000000	2.03305e-08	1.000000
PhCH2CCH+H	1.95142e-08	1.000000	1.95142e-08	1.000000
rad39	5.73559e-09	1.000000	5.73559e-09	1.000000
rad37	5.31557e-09	1.000000	5.31557e-09	1.000000
rad30	4.34562e-09	1.000000	4.34562e-09	1.000000
PAH9+H	2.91202e-10	1.000000	2.91202e-10	1.000000
rad38	1.24178e-10	1.000000	1.24178e-10	1.000000
rad60syn	1.96290e-11	1.000000	1.96290e-11	1.000000
rad60anti	9.61777e-12	1.000000	9.61777e-12	1.000000
PAH3+H	8.20481e-12	1.000000	8.20481e-12	1.000000
rad46	7.54709e-12	1.000000	7.54709e-12	1.000000
PAH10+CH3	7.32916e-12	1.000000	7.32916e-12	1.000000
rad59	1.68948e-12	1.000000	1.68948e-12	1.000000
PhcycC3H3_A+H	8.34926e-13	1.000000	8.34926e-13	1.000000
Benzene+cycloprop-2-enylidene	5.28015e-13	1.000000	5.28015e-13	1.000000
rad43	3.32593e-13	1.000000	3.32593e-13	1.000000
rad54	2.71678e-13	1.000000	2.71678e-13	1.000000
rad62	7.18916e-14	1.000000	7.18916e-14	1.000000
rad50	5.34248e-14	1.000000	5.34248e-14	1.000000
rad70	4.52036e-15	1.000000	4.52036e-15	1.000000
rad55	1.99187e-15	1.000000	1.99187e-15	1.000000
PAH1+H	9.26902e-16	1.000000	9.26902e-16	1.000000
Phenyl+cycC3H4	7.87809e-16	1.000000	0.000000	1.000000
rad52	3.56973e-16	1.000000	3.56973e-16	1.000000
rad58	1.11992e-16	1.000000	1.11992e-16	1.000000
rad51	9.25595e-17	1.000000	9.25595e-17	1.000000
rad34	4.90706e-17	1.000000	4.90706e-17	1.000000
rad41	5.95426e-18	1.000000	5.95426e-18	1.000000
rad42	5.64287e-18	1.000000	5.64287e-18	1.000000
rad65	1.88240e-18	1.000000	1.88240e-18	1.000000
PhcycC3H3_B+H	2.38334e-19	1.000000	2.38334e-19	1.000000
Benzene+cycloprop-1-enylidene	1.03290e-23	1.000000	1.03290e-23	1.000000
rad53	5.56944e-24	1.000000	5.56944e-24	1.000000
rad64	3.39556e-26	1.000000	3.39556e-26	1.000000
rad61	5.68423e-32	1.000000	5.68423e-32	1.000000
rad26	1.17193e-33	1.000000	1.17193e-33	1.000000
rad47	9.65474e-34	1.000000	9.65474e-34	1.000000
rad28	3.15621e-34	1.000000	3.15621e-34	1.000000
rad6	2.90523e-34	1.000000	2.90523e-34	1.000000
rad56	2.32701e-35	1.000000	2.32701e-35	1.000000
rad2	3.25932e-36	1.000000	3.25932e-36	1.000000
rad14	3.87166e-37	1.000000	3.87166e-37	1.000000
rad1	2.07458e-37	1.000000	2.07458e-37	1.000000
rad25	1.86910e-37	1.000000	1.86910e-37	1.000000
rad10	1.60196e-37	1.000000	1.60196e-37	1.000000
rad19anti	1.14994e-37	1.000000	1.14994e-37	1.000000
rad3	4.73681e-38	1.000000	4.73681e-38	1.000000
rad27	3.85079e-38	1.000000	3.85079e-38	1.000000
rad4	2.39635e-38	1.000000	2.39635e-38	1.000000
rad7	2.10564e-38	1.000000	2.10564e-38	1.000000
rad11	5.73912e-39	1.000000	5.73912e-39	1.000000
rad9	4.03293e-40	1.000000	4.03293e-40	1.000000
rad13	1.16642e-40	1.000000	1.16642e-40	1.000000
rad5	8.07310e-41	1.000000	8.07310e-41	1.000000
rad31	5.25659e-42	1.000000	5.25659e-42	1.000000
rad33	2.01449e-42	1.000000	2.01449e-42	1.000000
rad15	1.77290e-43	1.000000	1.77290e-43	1.000000
rad68syn	8.35689e-44	1.000000	8.35689e-44	1.000000
rad68anti	7.12847e-44	1.000000	7.12847e-44	1.000000
rad20	1.35932e-44	1.000000	1.35932e-44	1.000000
rad21	1.09265e-44	1.000000	1.09265e-44	1.000000
rad18	1.46622e-46	1.000000	1.46622e-46	1.000000
rad12	1.44091e-46	1.000000	1.44091e-46	1.000000
rad19syn	3.07655e-47	1.000000	3.07655e-47	1.000000
rad23	7.10621e-49	1.000000	7.10621e-49	1.000000
rad22	6.76607e-49	1.000000	6.76607e-49	1.000000
rad24	2.36069e-50	1.000000	2.36069e-50	1.000000
rad45	7.73663e-51	1.000000	7.73663e-51	1.000000
rad73	9.69701e-52	1.000000	9.69701e-52	1.000000
rad36	4.73737e-52	1.000000	4.73737e-52	1.000000
rad40syn	2.86238e-52	1.000000	2.86238e-52	1.000000

rad40anti	2.34562e-52	1.00000	2.34562e-52	1.00000
PAH8+H	1.67105e-56	1.00000	1.67105e-56	1.00000
rad71	3.35676e-60	1.00000	3.35676e-60	1.00000
rad8	1.06794e-67	1.00000	1.06794e-67	1.00000

0.100000000E-07 Pa, 80.0000000 K

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Rate constant      | True (fraction)      Effective (fraction)
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Total              | 4.17084e-16 (1.00   ) 4.17084e-16 (1.00   )
Formation of rad19| 4.17084e-16 (1.000  ) 4.17084e-16 (1.000  )
H-abstraction to cyc2enyl| 8.98751e-27 (2.15e-11) 8.98751e-27 (2.15e-11)
H-abstraction to cyclenyl| 4.00120e-36 (9.59e-21) 4.00120e-36 (9.59e-21)

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species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999747	0.999747	0.999747	0.999747
PhCHCCH2+H	0.000240278	0.999987	0.000240278	0.999987
PhCCH+CH3	4.18618e-06	0.999991	4.18618e-06	0.999991
C2H2+PhCH2	3.03335e-06	0.999994	3.03335e-06	0.999994
PhCCCH3+H	2.37733e-06	0.999997	2.37733e-06	0.999997
Ph+MeAc	1.80101e-06	0.999999	1.80101e-06	0.999999
rad67	5.42408e-07	0.999999	5.42408e-07	0.999999
rad35	2.38874e-07	0.999999	2.38874e-07	0.999999
Ph+Allene	1.63686e-07	1.000000	1.63686e-07	1.000000
PAH7+H	2.10959e-08	1.000000	2.10959e-08	1.000000
PhCH2CCH+H	2.05146e-08	1.000000	2.05146e-08	1.000000
rad39	5.95207e-09	1.000000	5.95207e-09	1.000000
rad37	5.52806e-09	1.000000	5.52806e-09	1.000000
rad30	4.47786e-09	1.000000	4.47786e-09	1.000000
PAH9+H	3.02716e-10	1.000000	3.02716e-10	1.000000
rad38	1.29567e-10	1.000000	1.29567e-10	1.000000
Benzene+cycloprop-2-enylidene	2.15484e-11	1.000000	2.15484e-11	1.000000
rad60syn	2.04685e-11	1.000000	2.04685e-11	1.000000
rad60anti	1.00397e-11	1.000000	1.00397e-11	1.000000
PAH3+H	8.68358e-12	1.000000	8.68358e-12	1.000000
PAH10+CH3	7.94154e-12	1.000000	7.94154e-12	1.000000
rad46	7.89977e-12	1.000000	7.89977e-12	1.000000
rad59	1.78410e-12	1.000000	1.78410e-12	1.000000
PhcycC3H3_A+H	1.01061e-12	1.000000	1.01061e-12	1.000000
rad43	3.57097e-13	1.000000	3.57097e-13	1.000000
rad54	2.94055e-13	1.000000	2.94055e-13	1.000000
rad62	7.73784e-14	1.000000	7.73784e-14	1.000000
rad50	5.70981e-14	1.000000	5.70981e-14	1.000000
rad70	5.01449e-15	1.000000	5.01449e-15	1.000000
rad55	2.21137e-15	1.000000	2.21137e-15	1.000000
Phenyl+cycC3H4	1.32430e-15	1.000000	0.000000	1.000000
PAH1+H	1.07021e-15	1.000000	1.07021e-15	1.000000
rad52	3.87617e-16	1.000000	3.87617e-16	1.000000
rad58	1.25561e-16	1.000000	1.25561e-16	1.000000
rad51	1.02472e-16	1.000000	1.02472e-16	1.000000
rad34	5.67860e-17	1.000000	5.67860e-17	1.000000
rad41	7.33020e-18	1.000000	7.33020e-18	1.000000
rad42	6.74822e-18	1.000000	6.74822e-18	1.000000
rad65	2.10442e-18	1.000000	2.10442e-18	1.000000
PhcycC3H3_B+H	1.96138e-18	1.000000	1.96138e-18	1.000000
Benzene+cycloprop-1-enylidene	9.59328e-21	1.000000	9.59328e-21	1.000000
rad53	4.18956e-23	1.000000	4.18956e-23	1.000000
rad64	5.09107e-25	1.000000	5.09107e-25	1.000000
rad61	8.41954e-30	1.000000	8.41954e-30	1.000000
rad56	1.31867e-32	1.000000	1.31867e-32	1.000000
rad26	9.87370e-34	1.000000	9.87370e-34	1.000000
rad47	8.54859e-34	1.000000	8.54859e-34	1.000000
rad28	2.62449e-34	1.000000	2.62449e-34	1.000000
rad6	2.20667e-34	1.000000	2.20667e-34	1.000000
rad68syn	1.87136e-34	1.000000	1.87136e-34	1.000000
rad68anti	1.57600e-34	1.000000	1.57600e-34	1.000000
rad2	3.28414e-36	1.000000	3.28414e-36	1.000000
rad14	3.41135e-37	1.000000	3.41135e-37	1.000000
rad1	2.09586e-37	1.000000	2.09586e-37	1.000000
rad10	1.74852e-37	1.000000	1.74852e-37	1.000000
rad25	1.67001e-37	1.000000	1.67001e-37	1.000000
rad19anti	1.65192e-37	1.000000	1.65192e-37	1.000000
rad3	4.10964e-38	1.000000	4.10964e-38	1.000000
rad27	3.45963e-38	1.000000	3.45963e-38	1.000000
rad4	2.08033e-38	1.000000	2.08033e-38	1.000000
rad7	1.60167e-38	1.000000	1.60167e-38	1.000000
rad11	4.45108e-39	1.000000	4.45108e-39	1.000000
rad9	4.18549e-40	1.000000	4.18549e-40	1.000000
rad13	8.88119e-41	1.000000	8.88119e-41	1.000000

rad5	6.84254e-41	1.000000	6.84254e-41	1.000000
rad31	6.77589e-42	1.000000	6.77589e-42	1.000000
rad33	1.88657e-42	1.000000	1.88657e-42	1.000000
rad15	1.83933e-43	1.000000	1.83933e-43	1.000000
rad20	1.33876e-44	1.000000	1.33876e-44	1.000000
rad21	1.08179e-44	1.000000	1.08179e-44	1.000000
rad12	1.64040e-46	1.000000	1.64040e-46	1.000000
rad18	1.36601e-46	1.000000	1.36601e-46	1.000000
rad19syn	5.56519e-47	1.000000	5.56519e-47	1.000000
rad23	7.78163e-49	1.000000	7.78163e-49	1.000000
rad22	6.09440e-49	1.000000	6.09440e-49	1.000000
rad73	1.03568e-49	1.000000	1.03568e-49	1.000000
rad24	2.55628e-50	1.000000	2.55628e-50	1.000000
rad40syn	2.29075e-50	1.000000	2.29075e-50	1.000000
rad40anti	1.86932e-50	1.000000	1.86932e-50	1.000000
rad45	7.82697e-51	1.000000	7.82697e-51	1.000000
rad36	4.79173e-52	1.000000	4.79173e-52	1.000000
PAH8+H	1.56151e-54	1.000000	1.56151e-54	1.000000
rad71	3.88539e-58	1.000000	3.88539e-58	1.000000
rad8	1.28435e-67	1.000000	1.28435e-67	1.000000

0.100000000E-07 Pa, 90.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.74016e-16 (1.00)	7.74016e-16 (1.00)
Formation of rad19	7.74016e-16 (1.000)	7.74016e-16 (1.000)
H-abstraction to cyc2enyl	2.91736e-25 (3.77e-10)	2.91736e-25 (3.77e-10)
H-abstraction to cyclenyl	1.47814e-33 (1.91e-18)	1.47814e-33 (1.91e-18)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999741	0.999741	0.999741	0.999741
PhCHCCH2+H	0.000245933	0.999987	0.000245933	0.999987
PhCCH+CH3	4.29301e-06	0.999991	4.29301e-06	0.999991
C2H2+PhCH2	3.12644e-06	0.999994	3.12644e-06	0.999994
PhCCCH3+H	2.44411e-06	0.999997	2.44411e-06	0.999997
Ph+MeAc	1.86289e-06	0.999999	1.86289e-06	0.999999
rad67	5.60078e-07	0.999999	5.60078e-07	0.999999
rad35	2.46332e-07	0.999999	2.46332e-07	0.999999
Ph+Allene	1.71280e-07	1.000000	1.71280e-07	1.000000
PAH7+H	2.19315e-08	1.000000	2.19315e-08	1.000000
PhCH2CCH+H	2.16239e-08	1.000000	2.16239e-08	1.000000
rad39	6.18834e-09	1.000000	6.18834e-09	1.000000
rad37	5.76057e-09	1.000000	5.76057e-09	1.000000
rad30	4.62113e-09	1.000000	4.62113e-09	1.000000
Benzene+cycloprop-2-enylidene	3.76912e-10	1.000000	3.76912e-10	1.000000
PAH9+H	3.15328e-10	1.000000	3.15328e-10	1.000000
rad38	1.35501e-10	1.000000	1.35501e-10	1.000000
rad60syn	2.13909e-11	1.000000	2.13909e-11	1.000000
rad60anti	1.05039e-11	1.000000	1.05039e-11	1.000000
PAH3+H	9.21902e-12	1.000000	9.21902e-12	1.000000
PAH10+CH3	8.64384e-12	1.000000	8.64384e-12	1.000000
rad46	8.28938e-12	1.000000	8.28938e-12	1.000000
rad59	1.88961e-12	1.000000	1.88961e-12	1.000000
PhcycC3H3_A+H	1.23243e-12	1.000000	1.23243e-12	1.000000
rad43	3.84868e-13	1.000000	3.84868e-13	1.000000
rad54	3.19699e-13	1.000000	3.19699e-13	1.000000
rad62	8.36058e-14	1.000000	8.36058e-14	1.000000
rad50	6.12578e-14	1.000000	6.12578e-14	1.000000
rad70	5.59584e-15	1.000000	5.59584e-15	1.000000
rad55	2.46957e-15	1.000000	2.46957e-15	1.000000
Phenyl+cycC3H4	2.14284e-15	1.000000	0.000000	1.000000
PAH1+H	1.24557e-15	1.000000	1.24557e-15	1.000000
rad52	4.22957e-16	1.000000	4.22957e-16	1.000000
rad58	1.41714e-16	1.000000	1.41714e-16	1.000000
rad51	1.14155e-16	1.000000	1.14155e-16	1.000000
rad34	6.62496e-17	1.000000	6.62496e-17	1.000000
PhcycC3H3_B+H	1.04002e-17	1.000000	1.04002e-17	1.000000
rad41	9.07988e-18	1.000000	9.07988e-18	1.000000
rad42	8.13587e-18	1.000000	8.13587e-18	1.000000
rad65	2.36870e-18	1.000000	2.36870e-18	1.000000
Benzene+cycloprop-1-enylidene	1.90970e-18	1.000000	1.90970e-18	1.000000
rad53	2.02296e-22	1.000000	2.02296e-22	1.000000
rad64	4.24438e-24	1.000000	4.24438e-24	1.000000
rad61	4.05748e-28	1.000000	4.05748e-28	1.000000
rad56	1.28600e-30	1.000000	1.28600e-30	1.000000
rad68syn	2.85402e-32	1.000000	2.85402e-32	1.000000
rad68anti	2.36878e-32	1.000000	2.36878e-32	1.000000
rad26	8.51402e-34	1.000000	8.51402e-34	1.000000

rad47	7.75924e-34	1.000000	7.75924e-34	1.000000
rad28	2.23694e-34	1.000000	2.23694e-34	1.000000
rad6	1.75069e-34	1.000000	1.75069e-34	1.000000
rad2	3.72733e-36	1.000000	3.72733e-36	1.000000
rad14	3.08470e-37	1.000000	3.08470e-37	1.000000
rad19anti	2.57295e-37	1.000000	2.57295e-37	1.000000
rad1	2.38567e-37	1.000000	2.38567e-37	1.000000
rad10	1.96078e-37	1.000000	1.96078e-37	1.000000
rad25	1.53224e-37	1.000000	1.53224e-37	1.000000
rad3	4.95088e-38	1.000000	4.95088e-38	1.000000
rad27	3.19403e-38	1.000000	3.19403e-38	1.000000
rad4	2.50792e-38	1.000000	2.50792e-38	1.000000
rad7	1.27269e-38	1.000000	1.27269e-38	1.000000
rad11	3.60960e-39	1.000000	3.60960e-39	1.000000
rad73	1.45329e-39	1.000000	1.45329e-39	1.000000
rad9	4.54976e-40	1.000000	4.54976e-40	1.000000
rad13	7.06467e-41	1.000000	7.06467e-41	1.000000
rad5	5.95845e-41	1.000000	5.95845e-41	1.000000
rad31	9.34526e-42	1.000000	9.34526e-42	1.000000
rad33	1.83327e-42	1.000000	1.83327e-42	1.000000
rad15	1.99882e-43	1.000000	1.99882e-43	1.000000
rad20	1.36383e-44	1.000000	1.36383e-44	1.000000
rad21	1.10835e-44	1.000000	1.10835e-44	1.000000
rad12	1.95760e-46	1.000000	1.95760e-46	1.000000
rad18	1.31010e-46	1.000000	1.31010e-46	1.000000
rad19syn	1.05530e-46	1.000000	1.05530e-46	1.000000
rad40syn	5.28600e-48	1.000000	5.28600e-48	1.000000
rad40anti	4.29340e-48	1.000000	4.29340e-48	1.000000
rad23	9.46339e-49	1.000000	9.46339e-49	1.000000
rad22	5.63590e-49	1.000000	5.63590e-49	1.000000
rad24	2.88490e-50	1.000000	2.88490e-50	1.000000
rad45	1.00070e-50	1.000000	1.00070e-50	1.000000
rad36	6.12617e-52	1.000000	6.12617e-52	1.000000
PAH8+H	4.16081e-52	1.000000	4.16081e-52	1.000000
rad71	1.29280e-55	1.000000	1.29280e-55	1.000000
rad8	1.61985e-67	1.000000	1.61985e-67	1.000000

0.100000000E-07 Pa, 100.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.28255e-15 (1.00)	1.28255e-15 (1.00)
Formation of rad19	1.28255e-15 (1.000)	1.28255e-15 (1.000)
H-abstraction to cyc2enyl	4.68359e-24 (3.65e-09)	4.68359e-24 (3.65e-09)
H-abstraction to cyc1enyl	1.66242e-31 (1.30e-16)	1.66242e-31 (1.30e-16)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999735	0.999735	0.999735	0.999735
PhCHCCH2+H	0.000251988	0.999987	0.000251988	0.999987
PhCCH+CH3	4.40736e-06	0.999991	4.40736e-06	0.999991
C2H2+PhCH2	3.22690e-06	0.999995	3.22690e-06	0.999995
PhCCCH3+H	2.51589e-06	0.999997	2.51589e-06	0.999997
Ph+MeAc	1.92987e-06	0.999999	1.92987e-06	0.999999
rad67	5.79181e-07	1.000000	5.79181e-07	1.000000
rad35	2.54382e-07	1.000000	2.54382e-07	1.000000
Ph+Allene	1.79627e-07	1.000000	1.79627e-07	1.000000
PhCH2CCH+H	2.28536e-08	1.000000	2.28536e-08	1.000000
PAH7+H	2.28426e-08	1.000000	2.28426e-08	1.000000
rad39	6.44590e-09	1.000000	6.44590e-09	1.000000
rad37	6.01471e-09	1.000000	6.01471e-09	1.000000
rad30	4.77610e-09	1.000000	4.77610e-09	1.000000
Benzene+cycloprop-2-enylidene	3.65179e-09	1.000000	3.65179e-09	1.000000
PAH9+H	3.29134e-10	1.000000	3.29134e-10	1.000000
rad38	1.42033e-10	1.000000	1.42033e-10	1.000000
rad60syn	2.24039e-11	1.000000	2.24039e-11	1.000000
rad60anti	1.10144e-11	1.000000	1.10144e-11	1.000000
PAH3+H	9.81802e-12	1.000000	9.81802e-12	1.000000
PAH10+CH3	9.45058e-12	1.000000	9.45058e-12	1.000000
rad46	8.71962e-12	1.000000	8.71962e-12	1.000000
rad59	2.00730e-12	1.000000	2.00730e-12	1.000000
PhcycC3H3_A+H	1.51348e-12	1.000000	1.51348e-12	1.000000
rad43	4.16368e-13	1.000000	4.16368e-13	1.000000
rad54	3.49137e-13	1.000000	3.49137e-13	1.000000
rad62	9.06791e-14	1.000000	9.06791e-14	1.000000
rad50	6.59742e-14	1.000000	6.59742e-14	1.000000
rad70	6.28192e-15	1.000000	6.28192e-15	1.000000
Phenyl+cycC3H4	3.36905e-15	1.000000	0.000000	1.000000
rad55	2.77429e-15	1.000000	2.77429e-15	1.000000
PAH1+H	1.46129e-15	1.000000	1.46129e-15	1.000000

rad52	4.63813e-16	1.00000	4.63813e-16	1.00000
rad58	1.61019e-16	1.00000	1.61019e-16	1.00000
Benzene+cycloprop-1-enylidene	1.29619e-16	1.00000	1.29619e-16	1.00000
rad51	1.27976e-16	1.00000	1.27976e-16	1.00000
rad34	7.79214e-17	1.00000	7.79214e-17	1.00000
PhcycC3H3_B+H	4.09123e-17	1.00000	4.09123e-17	1.00000
rad41	1.13186e-17	1.00000	1.13186e-17	1.00000
rad42	9.88346e-18	1.00000	9.88346e-18	1.00000
rad65	2.68465e-18	1.00000	2.68465e-18	1.00000
rad53	7.24662e-22	1.00000	7.24662e-22	1.00000
rad64	2.36968e-23	1.00000	2.36968e-23	1.00000
rad61	9.04334e-27	1.00000	9.04334e-27	1.00000
rad56	5.01134e-29	1.00000	5.01134e-29	1.00000
rad68syn	1.54810e-30	1.00000	1.54810e-30	1.00000
rad68anti	1.27120e-30	1.00000	1.27120e-30	1.00000
rad26	7.47320e-34	1.00000	7.47320e-34	1.00000
rad47	7.18611e-34	1.00000	7.18611e-34	1.00000
rad28	1.94263e-34	1.00000	1.94263e-34	1.00000
rad6	1.43632e-34	1.00000	1.43632e-34	1.00000
rad2	5.25432e-36	1.00000	5.25432e-36	1.00000
rad40syn	1.99128e-36	1.00000	1.99128e-36	1.00000
rad40anti	1.51571e-36	1.00000	1.51571e-36	1.00000
rad73	7.52968e-37	1.00000	7.52968e-37	1.00000
rad19anti	4.30712e-37	1.00000	4.30712e-37	1.00000
rad1	3.37387e-37	1.00000	3.37387e-37	1.00000
rad14	2.84666e-37	1.00000	2.84666e-37	1.00000
rad10	2.34186e-37	1.00000	2.34186e-37	1.00000
rad25	1.43549e-37	1.00000	1.43549e-37	1.00000
rad3	7.49289e-38	1.00000	7.49289e-38	1.00000
rad4	3.79857e-38	1.00000	3.79857e-38	1.00000
rad27	3.01292e-38	1.00000	3.01292e-38	1.00000
rad7	1.04587e-38	1.00000	1.04587e-38	1.00000
rad11	3.03052e-39	1.00000	3.03052e-39	1.00000
rad9	5.13556e-40	1.00000	5.13556e-40	1.00000
rad13	5.81259e-41	1.00000	5.81259e-41	1.00000
rad5	5.29619e-41	1.00000	5.29619e-41	1.00000
rad31	1.36778e-41	1.00000	1.36778e-41	1.00000
rad33	1.83430e-42	1.00000	1.83430e-42	1.00000
rad15	2.25575e-43	1.00000	2.25575e-43	1.00000
rad20	1.42773e-44	1.00000	1.42773e-44	1.00000
rad21	1.16743e-44	1.00000	1.16743e-44	1.00000
rad12	2.43022e-46	1.00000	2.43022e-46	1.00000
rad19syn	2.08907e-46	1.00000	2.08907e-46	1.00000
rad18	1.28547e-46	1.00000	1.28547e-46	1.00000
rad23	1.27712e-48	1.00000	1.27712e-48	1.00000
rad22	5.31898e-49	1.00000	5.31898e-49	1.00000
PAH8+H	2.22239e-49	1.00000	2.22239e-49	1.00000
rad24	3.36885e-50	1.00000	3.36885e-50	1.00000
rad45	1.87099e-50	1.00000	1.87099e-50	1.00000
rad36	1.14556e-51	1.00000	1.14556e-51	1.00000
rad71	8.99607e-53	1.00000	8.99607e-53	1.00000
rad8	2.12436e-67	1.00000	2.12436e-67	1.00000

0.100000000E-07 Pa, 110.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.95524e-15 (1.00)	1.95524e-15 (1.00)
Formation of rad19	1.95524e-15 (1.000)	1.95524e-15 (1.000)
H-abstraction to cyc2enyl	4.50936e-23 (2.31e-08)	4.50936e-23 (2.31e-08)
H-abstraction to cyc1enyl	7.87782e-30 (4.03e-15)	7.87782e-30 (4.03e-15)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999728	0.999728	0.999728	0.999728
PhCHCCH2+H	0.000258470	0.999986	0.000258470	0.999986
PhCCH+CH3	4.52973e-06	0.999991	4.52973e-06	0.999991
C2H2+PhCH2	3.33534e-06	0.999994	3.33534e-06	0.999994
PhCCCH3+H	2.59304e-06	0.999997	2.59304e-06	0.999997
Ph+MeAc	2.00241e-06	0.999999	2.00241e-06	0.999999
rad67	5.99841e-07	1.000000	5.99841e-07	1.000000
rad35	2.63077e-07	1.000000	2.63077e-07	1.000000
Ph+Allene	1.88813e-07	1.000000	1.88813e-07	1.000000
PhCH2CCH+H	2.42192e-08	1.000000	2.42192e-08	1.000000
PAH7+H	2.38371e-08	1.000000	2.38371e-08	1.000000
Benzene+cycloprop-2-enylidene	2.30629e-08	1.000000	2.30629e-08	1.000000
rad39	6.72692e-09	1.000000	6.72692e-09	1.000000
rad37	6.29278e-09	1.000000	6.29278e-09	1.000000
rad30	4.94382e-09	1.000000	4.94382e-09	1.000000
PAH9+H	3.44262e-10	1.000000	3.44262e-10	1.000000

rad38	1.49234e-10	1.00000	1.49234e-10	1.00000
rad60syn	2.35177e-11	1.00000	2.35177e-11	1.00000
rad60anti	1.15765e-11	1.00000	1.15765e-11	1.00000
PAH3+H	1.04898e-11	1.00000	1.04898e-11	1.00000
PAH10+CH3	1.03809e-11	1.00000	1.03809e-11	1.00000
rad46	9.19554e-12	1.00000	9.19554e-12	1.00000
rad59	2.13885e-12	1.00000	2.13885e-12	1.00000
PhcycC3H3_A+H	1.87147e-12	1.00000	1.87147e-12	1.00000
rad43	4.52200e-13	1.00000	4.52200e-13	1.00000
rad54	3.83059e-13	1.00000	3.83059e-13	1.00000
rad62	9.87359e-14	1.00000	9.87359e-14	1.00000
rad50	7.13397e-14	1.00000	7.13397e-14	1.00000
rad70	7.09592e-15	1.00000	7.09592e-15	1.00000
Phenyl+cycC3H4	5.18630e-15	1.00000	0.00000	1.00000
Benzene+cycloprop-1-enylidene	4.02908e-15	1.00000	4.02908e-15	1.00000
rad55	3.13590e-15	1.00000	3.13590e-15	1.00000
PAH1+H	1.72857e-15	1.00000	1.72857e-15	1.00000
rad52	5.11263e-16	1.00000	5.11263e-16	1.00000
rad58	1.84232e-16	1.00000	1.84232e-16	1.00000
rad51	1.44427e-16	1.00000	1.44427e-16	1.00000
PhcycC3H3_B+H	1.30407e-16	1.00000	1.30407e-16	1.00000
rad34	9.24233e-17	1.00000	9.24233e-17	1.00000
rad41	1.42061e-17	1.00000	1.42061e-17	1.00000
rad42	1.20969e-17	1.00000	1.20969e-17	1.00000
rad65	3.06485e-18	1.00000	3.06485e-18	1.00000
rad53	2.11093e-21	1.00000	2.11093e-21	1.00000
rad64	9.96387e-23	1.00000	9.96387e-23	1.00000
rad61	1.15972e-25	1.00000	1.15972e-25	1.00000
rad56	1.00969e-27	1.00000	1.00969e-27	1.00000
rad68syn	4.04803e-29	1.00000	4.04803e-29	1.00000
rad68anti	3.29762e-29	1.00000	3.29762e-29	1.00000
rad47	6.77037e-34	1.00000	6.77037e-34	1.00000
rad26	6.65234e-34	1.00000	6.65234e-34	1.00000
rad40syn	3.23201e-34	1.00000	3.23201e-34	1.00000
rad40anti	2.54378e-34	1.00000	2.54378e-34	1.00000
rad28	1.71192e-34	1.00000	1.71192e-34	1.00000
rad6	1.21080e-34	1.00000	1.21080e-34	1.00000
rad73	5.48405e-35	1.00000	5.48405e-35	1.00000
rad2	5.21612e-36	1.00000	5.21612e-36	1.00000
rad19anti	7.70499e-37	1.00000	7.70499e-37	1.00000
rad1	3.36123e-37	1.00000	3.36123e-37	1.00000
rad10	2.75283e-37	1.00000	2.75283e-37	1.00000
rad14	2.67075e-37	1.00000	2.67075e-37	1.00000
rad25	1.36790e-37	1.00000	1.36790e-37	1.00000
rad3	7.22446e-38	1.00000	7.22446e-38	1.00000
rad4	3.66568e-38	1.00000	3.66568e-38	1.00000
rad27	2.89248e-38	1.00000	2.89248e-38	1.00000
rad7	8.83185e-39	1.00000	8.83185e-39	1.00000
rad11	2.61731e-39	1.00000	2.61731e-39	1.00000
rad9	5.98499e-40	1.00000	5.98499e-40	1.00000
rad13	4.91493e-41	1.00000	4.91493e-41	1.00000
rad5	4.78388e-41	1.00000	4.78388e-41	1.00000
rad31	2.11317e-41	1.00000	2.11317e-41	1.00000
rad33	1.87999e-42	1.00000	1.87999e-42	1.00000
rad15	2.62877e-43	1.00000	2.62877e-43	1.00000
rad20	1.52913e-44	1.00000	1.52913e-44	1.00000
rad21	1.25859e-44	1.00000	1.25859e-44	1.00000
rad19syn	4.31564e-46	1.00000	4.31564e-46	1.00000
rad12	3.12268e-46	1.00000	3.12268e-46	1.00000
rad18	1.28491e-46	1.00000	1.28491e-46	1.00000
PAH8+H	1.08851e-46	1.00000	1.08851e-46	1.00000
rad23	1.90217e-48	1.00000	1.90217e-48	1.00000
rad22	5.10201e-49	1.00000	5.10201e-49	1.00000
rad71	5.50109e-50	1.00000	5.50109e-50	1.00000
rad24	4.05118e-50	1.00000	4.05118e-50	1.00000
rad45	2.75616e-50	1.00000	2.75616e-50	1.00000
rad36	1.68796e-51	1.00000	1.68796e-51	1.00000
rad8	2.88050e-67	1.00000	2.88050e-67	1.00000

0.100000000E-07 Pa, 120.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.79817e-15 (1.00)	2.79817e-15 (1.00)
Formation of rad19	2.79817e-15 (1.000)	2.79817e-15 (1.000)
H-abstraction to cyc2enyl	2.96039e-22 (1.06e-07)	2.96039e-22 (1.06e-07)
H-abstraction to cyclenyl	1.95323e-28 (6.98e-14)	1.95323e-28 (6.98e-14)

species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.999721	0.999721	0.999721	0.999721
PhCHCCH2+H	0.000265418	0.999986	0.000265418	0.999986
PhCCH+CH3	4.66083e-06	0.999991	4.66083e-06	0.999991
C2H2+PhCH2	3.45258e-06	0.999994	3.45258e-06	0.999994
PhCCCH3+H	2.67609e-06	0.999997	2.67609e-06	0.999997
Ph+MeAc	2.08110e-06	0.999999	2.08110e-06	0.999999
rad67	6.22225e-07	1.000000	6.22225e-07	1.000000
rad35	2.72481e-07	1.000000	2.72481e-07	1.000000
Ph+Allene	1.98950e-07	1.000000	1.98950e-07	1.000000
Benzene+cycloprop-2-enylidene	1.05797e-07	1.000000	1.05797e-07	1.000000
PhCH2CCH+H	2.57407e-08	1.000000	2.57407e-08	1.000000
PAH7+H	2.49248e-08	1.000000	2.49248e-08	1.000000
rad39	7.03420e-09	1.000000	7.03420e-09	1.000000
rad37	6.59774e-09	1.000000	6.59774e-09	1.000000
rad30	5.12566e-09	1.000000	5.12566e-09	1.000000
PAH9+H	3.60882e-10	1.000000	3.60882e-10	1.000000
rad38	1.57196e-10	1.000000	1.57196e-10	1.000000
rad60syn	2.47458e-11	1.000000	2.47458e-11	1.000000
rad60anti	1.21972e-11	1.000000	1.21972e-11	1.000000
PAH10+CH3	1.14592e-11	1.000000	1.14592e-11	1.000000
PAH3+H	1.12460e-11	1.000000	1.12460e-11	1.000000
rad46	9.72362e-12	1.000000	9.72362e-12	1.000000
PhcycC3H3_A+H	2.33055e-12	1.000000	2.33055e-12	1.000000
rad59	2.28645e-12	1.000000	2.28645e-12	1.000000
rad43	4.93137e-13	1.000000	4.93137e-13	1.000000
rad54	4.22356e-13	1.000000	4.22356e-13	1.000000
rad62	1.07952e-13	1.000000	1.07952e-13	1.000000
rad50	7.74736e-14	1.000000	7.74736e-14	1.000000
Benzene+cycloprop-1-enylidene	6.98038e-14	1.000000	6.98038e-14	1.000000
rad70	8.06832e-15	1.000000	8.06832e-15	1.000000
Phenyl+cycC3H4	7.86468e-15	1.000000	0.000000	1.000000
rad55	3.56798e-15	1.000000	3.56798e-15	1.000000
PAH1+H	2.06260e-15	1.000000	2.06260e-15	1.000000
rad52	5.66713e-16	1.000000	5.66713e-16	1.000000
PhcycC3H3_B+H	3.56809e-16	1.000000	3.56809e-16	1.000000
rad58	2.12355e-16	1.000000	2.12355e-16	1.000000
rad51	1.64161e-16	1.000000	1.64161e-16	1.000000
rad34	1.10600e-16	1.000000	1.10600e-16	1.000000
rad41	1.79639e-17	1.000000	1.79639e-17	1.000000
rad42	1.49203e-17	1.000000	1.49203e-17	1.000000
rad65	3.52612e-18	1.000000	3.52612e-18	1.000000
rad53	5.31328e-21	1.000000	5.31328e-21	1.000000
rad64	3.40977e-22	1.000000	3.40977e-22	1.000000
rad61	9.89208e-25	1.000000	9.89208e-25	1.000000
rad56	1.24744e-26	1.000000	1.24744e-26	1.000000
rad68syn	6.17070e-28	1.000000	6.17070e-28	1.000000
rad68anti	4.99495e-28	1.000000	4.99495e-28	1.000000
rad40syn	1.64573e-32	1.000000	1.64573e-32	1.000000
rad40anti	1.29414e-32	1.000000	1.29414e-32	1.000000
rad73	1.92333e-33	1.000000	1.92333e-33	1.000000
rad47	6.47610e-34	1.000000	6.47610e-34	1.000000
rad26	5.98924e-34	1.000000	5.98924e-34	1.000000
rad28	1.52640e-34	1.000000	1.52640e-34	1.000000
rad6	1.04466e-34	1.000000	1.04466e-34	1.000000
PAH8+H	4.13571e-35	1.000000	4.13571e-35	1.000000
rad2	6.58029e-36	1.000000	6.58029e-36	1.000000
rad19anti	1.46733e-36	1.000000	1.46733e-36	1.000000
rad1	4.25674e-37	1.000000	4.25674e-37	1.000000
rad10	3.52643e-37	1.000000	3.52643e-37	1.000000
rad14	2.54052e-37	1.000000	2.54052e-37	1.000000
rad25	1.32220e-37	1.000000	1.32220e-37	1.000000
rad3	8.56947e-38	1.000000	8.56947e-38	1.000000
rad4	4.35238e-38	1.000000	4.35238e-38	1.000000
rad27	2.81824e-38	1.000000	2.81824e-38	1.000000
rad71	1.32207e-38	1.000000	1.32207e-38	1.000000
rad7	7.63371e-39	1.000000	7.63371e-39	1.000000
rad11	2.31585e-39	1.000000	2.31585e-39	1.000000
rad9	7.17343e-40	1.000000	7.17343e-40	1.000000
rad5	4.37733e-41	1.000000	4.37733e-41	1.000000
rad13	4.25434e-41	1.000000	4.25434e-41	1.000000
rad31	3.43447e-41	1.000000	3.43447e-41	1.000000
rad33	1.96660e-42	1.000000	1.96660e-42	1.000000
rad15	3.15120e-43	1.000000	3.15120e-43	1.000000
rad20	1.67038e-44	1.000000	1.67038e-44	1.000000
rad21	1.38449e-44	1.000000	1.38449e-44	1.000000
rad19syn	9.31466e-46	1.000000	9.31466e-46	1.000000
rad12	4.13897e-46	1.000000	4.13897e-46	1.000000
rad18	1.30443e-46	1.000000	1.30443e-46	1.000000
rad23	3.11567e-48	1.000000	3.11567e-48	1.000000
rad22	4.95927e-49	1.000000	4.95927e-49	1.000000

rad24	5.00044e-50	1.00000	5.00044e-50	1.00000
rad45	4.53235e-50	1.00000	4.53235e-50	1.00000
rad36	2.77715e-51	1.00000	2.77715e-51	1.00000
rad8	4.02249e-67	1.00000	4.02249e-67	1.00000

0.100000000E-07 Pa, 130.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.81236e-15 (1.00)	3.81236e-15 (1.00)
Formation of rad19	3.81236e-15 (1.000)	3.81236e-15 (1.000)
H-abstraction to cyc2enyl	1.44825e-21 (3.80e-07)	1.44825e-21 (3.80e-07)
H-abstraction to cyclenyl	2.94348e-27 (7.72e-13)	2.94348e-27 (7.72e-13)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.9999713	0.9999713	0.9999713	0.9999713
PhCHCCH2+H	0.000272881	0.999986	0.000272881	0.999986
PhCCH+CH3	4.80155e-06	0.999990	4.80155e-06	0.999990
C2H2+PhCH2	3.57965e-06	0.999994	3.57965e-06	0.999994
PhCCCH3+H	2.76568e-06	0.999997	2.76568e-06	0.999997
Ph+MeAc	2.16669e-06	0.999999	2.16669e-06	0.999999
rad67	6.46538e-07	0.999999	6.46538e-07	0.999999
Benzene+cycloprop-2-enylidene	3.79882e-07	1.000000	3.79882e-07	1.000000
rad35	2.82679e-07	1.000000	2.82679e-07	1.000000
Ph+Allene	2.10177e-07	1.000000	2.10177e-07	1.000000
PhCH2CCH+H	2.74426e-08	1.000000	2.74426e-08	1.000000
PAH7+H	2.61181e-08	1.000000	2.61181e-08	1.000000
rad39	7.37119e-09	1.000000	7.37119e-09	1.000000
rad37	6.93326e-09	1.000000	6.93326e-09	1.000000
rad30	5.32333e-09	1.000000	5.32333e-09	1.000000
PAH9+H	3.79203e-10	1.000000	3.79203e-10	1.000000
rad38	1.66034e-10	1.000000	1.66034e-10	1.000000
rad60syn	2.61047e-11	1.000000	2.61047e-11	1.000000
rad60anti	1.28850e-11	1.000000	1.28850e-11	1.000000
PAH10+CH3	1.27171e-11	1.000000	1.27171e-11	1.000000
PAH3+H	1.21014e-11	1.000000	1.21014e-11	1.000000
rad46	1.03119e-11	1.000000	1.03119e-11	1.000000
PhcycC3H3_A+H	2.92361e-12	1.000000	2.92361e-12	1.000000
rad59	2.45281e-12	1.000000	2.45281e-12	1.000000
Benzene+cycloprop-1-enylidene	7.72089e-13	1.000000	7.72089e-13	1.000000
rad43	5.40149e-13	1.000000	5.40149e-13	1.000000
rad54	4.68163e-13	1.000000	4.68163e-13	1.000000
rad62	1.18546e-13	1.000000	1.18546e-13	1.000000
rad50	8.45270e-14	1.000000	8.45270e-14	1.000000
Phenyl+cycC3H4	1.18041e-14	1.000000	0.000000	1.000000
rad70	9.23899e-15	1.000000	9.23899e-15	1.000000
rad55	4.08826e-15	1.000000	4.08826e-15	1.000000
PAH1+H	2.48400e-15	1.000000	2.48400e-15	1.000000
PhcycC3H3_B+H	8.71416e-16	1.000000	8.71416e-16	1.000000
rad52	6.31981e-16	1.000000	6.31981e-16	1.000000
rad58	2.46721e-16	1.000000	2.46721e-16	1.000000
rad51	1.88040e-16	1.000000	1.88040e-16	1.000000
rad34	1.33600e-16	1.000000	1.33600e-16	1.000000
rad41	2.28987e-17	1.000000	2.28987e-17	1.000000
rad42	1.85493e-17	1.000000	1.85493e-17	1.000000
rad65	4.09095e-18	1.000000	4.09095e-18	1.000000
rad53	1.20428e-20	1.000000	1.20428e-20	1.000000
rad64	1.00149e-21	1.000000	1.00149e-21	1.000000
rad61	6.20139e-24	1.000000	6.20139e-24	1.000000
rad56	1.06325e-25	1.000000	1.06325e-25	1.000000
rad68syn	6.24507e-27	1.000000	6.24507e-27	1.000000
rad68anti	5.02761e-27	1.000000	5.02761e-27	1.000000
rad40syn	4.43601e-31	1.000000	4.43601e-31	1.000000
rad40anti	3.49255e-31	1.000000	3.49255e-31	1.000000
rad73	3.97404e-32	1.000000	3.97404e-32	1.000000
PAH8+H	2.25812e-33	1.000000	2.25812e-33	1.000000
rad47	6.28095e-34	1.000000	6.28095e-34	1.000000
rad26	5.44281e-34	1.000000	5.44281e-34	1.000000
rad28	1.37405e-34	1.000000	1.37405e-34	1.000000
rad6	9.20749e-35	1.000000	9.20749e-35	1.000000
rad2	8.56316e-36	1.000000	8.56316e-36	1.000000
rad19anti	2.96678e-36	1.000000	2.96678e-36	1.000000
rad71	1.12266e-36	1.000000	1.12266e-36	1.000000
rad1	5.56273e-37	1.000000	5.56273e-37	1.000000
rad10	4.88661e-37	1.000000	4.88661e-37	1.000000
rad14	2.44527e-37	1.000000	2.44527e-37	1.000000
rad3	1.30541e-37	1.000000	1.30541e-37	1.000000
rad25	1.29373e-37	1.000000	1.29373e-37	1.000000
rad4	6.63723e-38	1.000000	6.63723e-38	1.000000

rad27	2.78109e-38	1.00000	2.78109e-38	1.00000
rad7	6.74087e-39	1.00000	6.74087e-39	1.00000
rad11	2.09464e-39	1.00000	2.09464e-39	1.00000
rad9	8.81857e-40	1.00000	8.81857e-40	1.00000
rad31	5.85924e-41	1.00000	5.85924e-41	1.00000
rad5	4.04786e-41	1.00000	4.04786e-41	1.00000
rad13	3.76272e-41	1.00000	3.76272e-41	1.00000
rad33	2.09425e-42	1.00000	2.09425e-42	1.00000
rad15	3.87516e-43	1.00000	3.87516e-43	1.00000
rad20	1.85691e-44	1.00000	1.85691e-44	1.00000
rad21	1.55056e-44	1.00000	1.55056e-44	1.00000
rad19syn	2.10397e-45	1.00000	2.10397e-45	1.00000
rad12	5.64590e-46	1.00000	5.64590e-46	1.00000
rad18	1.34196e-46	1.00000	1.34196e-46	1.00000
rad23	5.57940e-48	1.00000	5.57940e-48	1.00000
rad22	4.87422e-49	1.00000	4.87422e-49	1.00000
rad45	7.82277e-50	1.00000	7.82277e-50	1.00000
rad24	6.32081e-50	1.00000	6.32081e-50	1.00000
rad36	4.79681e-51	1.00000	4.79681e-51	1.00000
rad8	5.76906e-67	1.00000	5.76906e-67	1.00000

0.100000000E-07 Pa, 140.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.99515e-15 (1.00)	4.99515e-15 (1.00)
Formation of rad19	4.99514e-15 (1.000)	4.99514e-15 (1.000)
H-abstraction to cyc2enyl	5.62488e-21 (1.13e-06)	5.62488e-21 (1.13e-06)
H-abstraction to cyclenyl	3.00047e-26 (6.01e-12)	3.00047e-26 (6.01e-12)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999703	0.999703	0.999703	0.999703
PhCHCCH2+H	0.000280917	0.999984	0.000280917	0.999984
PhCCH+CH3	4.95294e-06	0.999989	4.95294e-06	0.999989
C2H2+PhCH2	3.71777e-06	0.999992	3.71777e-06	0.999992
PhCCCH3+H	2.86259e-06	0.999995	2.86259e-06	0.999995
Ph+MeAc	2.26007e-06	0.999998	2.26007e-06	0.999998
Benzene+cycloprop-2-enylidene	1.12607e-06	0.999999	1.12607e-06	0.999999
rad67	6.73023e-07	0.999999	6.73023e-07	0.999999
rad35	2.93770e-07	1.000000	2.93770e-07	1.000000
Ph+Allene	2.22660e-07	1.000000	2.22660e-07	1.000000
PhCH2CCH+H	2.93552e-08	1.000000	2.93552e-08	1.000000
PAH7+H	2.74321e-08	1.000000	2.74321e-08	1.000000
rad39	7.74205e-09	1.000000	7.74205e-09	1.000000
rad37	7.30375e-09	1.000000	7.30375e-09	1.000000
rad30	5.53888e-09	1.000000	5.53888e-09	1.000000
PAH9+H	3.99479e-10	1.000000	3.99479e-10	1.000000
rad38	1.75886e-10	1.000000	1.75886e-10	1.000000
rad60syn	2.76144e-11	1.000000	2.76144e-11	1.000000
PAH10+CH3	1.41941e-11	1.000000	1.41941e-11	1.000000
rad60anti	1.36504e-11	1.000000	1.36504e-11	1.000000
PAH3+H	1.30742e-11	1.000000	1.30742e-11	1.000000
rad46	1.09703e-11	1.000000	1.09703e-11	1.000000
Benzene+cycloprop-1-enylidene	6.00677e-12	1.000000	6.00677e-12	1.000000
PhcycC3H3_A+H	3.69543e-12	1.000000	3.69543e-12	1.000000
rad59	2.64125e-12	1.000000	2.64125e-12	1.000000
rad43	5.94445e-13	1.000000	5.94445e-13	1.000000
rad54	5.21921e-13	1.000000	5.21921e-13	1.000000
rad62	1.30794e-13	1.000000	1.30794e-13	1.000000
rad50	9.26897e-14	1.000000	9.26897e-14	1.000000
Phenyl+cycC3H4	1.75978e-14	1.000000	0.000000	1.000000
rad70	1.06600e-14	1.000000	1.06600e-14	1.000000
rad55	4.71987e-15	1.000000	4.71987e-15	1.000000
PAH1+H	3.02080e-15	1.000000	3.02080e-15	1.000000
PhcycC3H3_B+H	1.95210e-15	1.000000	1.95210e-15	1.000000
rad52	7.09403e-16	1.000000	7.09403e-16	1.000000
rad58	2.89095e-16	1.000000	2.89095e-16	1.000000
rad51	2.17208e-16	1.000000	2.17208e-16	1.000000
rad34	1.62990e-16	1.000000	1.62990e-16	1.000000
rad41	2.94364e-17	1.000000	2.94364e-17	1.000000
rad42	2.32499e-17	1.000000	2.32499e-17	1.000000
rad65	4.78938e-18	1.000000	4.78938e-18	1.000000
rad53	2.52919e-20	1.000000	2.52919e-20	1.000000
rad64	2.62060e-21	1.000000	2.62060e-21	1.000000
rad61	3.06689e-23	1.000000	3.06689e-23	1.000000
rad56	6.80095e-25	1.000000	6.80095e-25	1.000000
rad68syn	4.60298e-26	1.000000	4.60298e-26	1.000000
rad68anti	3.68680e-26	1.000000	3.68680e-26	1.000000
rad40syn	7.53654e-30	1.000000	7.53654e-30	1.000000

rad40anti	5.95184e-30	1.000000	5.95184e-30	1.000000
rad73	5.47778e-31	1.000000	5.47778e-31	1.000000
PAH8+H	6.68141e-32	1.000000	6.68141e-32	1.000000
rad47	6.17129e-34	1.000000	6.17129e-34	1.000000
rad26	4.98484e-34	1.000000	4.98484e-34	1.000000
rad28	1.24670e-34	1.000000	1.24670e-34	1.000000
rad6	8.29178e-35	1.000000	8.29178e-35	1.000000
rad71	4.16930e-35	1.000000	4.16930e-35	1.000000
rad2	1.63647e-35	1.000000	1.63647e-35	1.000000
rad19anti	6.35581e-36	1.000000	6.35581e-36	1.000000
rad1	1.06795e-36	1.000000	1.06795e-36	1.000000
rad10	7.65157e-37	1.000000	7.65157e-37	1.000000
rad3	2.53302e-37	1.000000	2.53302e-37	1.000000
rad14	2.37779e-37	1.000000	2.37779e-37	1.000000
rad4	1.28940e-37	1.000000	1.28940e-37	1.000000
rad25	1.27945e-37	1.000000	1.27945e-37	1.000000
rad27	2.77528e-38	1.000000	2.77528e-38	1.000000
rad7	6.08226e-39	1.000000	6.08226e-39	1.000000
rad11	1.93549e-39	1.000000	1.93549e-39	1.000000
rad9	1.10979e-39	1.000000	1.10979e-39	1.000000
rad31	1.04782e-40	1.000000	1.04782e-40	1.000000
rad5	3.77611e-41	1.000000	3.77611e-41	1.000000
rad13	3.40097e-41	1.000000	3.40097e-41	1.000000
rad33	2.26601e-42	1.000000	2.26601e-42	1.000000
rad15	4.87930e-43	1.000000	4.87930e-43	1.000000
rad20	2.09728e-44	1.000000	2.09728e-44	1.000000
rad21	1.76510e-44	1.000000	1.76510e-44	1.000000
rad19syn	4.98180e-45	1.000000	4.98180e-45	1.000000
rad12	7.91334e-46	1.000000	7.91334e-46	1.000000
rad18	1.39665e-46	1.000000	1.39665e-46	1.000000
rad23	1.08846e-47	1.000000	1.08846e-47	1.000000
rad22	4.83586e-49	1.000000	4.83586e-49	1.000000
rad45	1.81064e-49	1.000000	1.81064e-49	1.000000
rad24	8.16914e-50	1.000000	8.16914e-50	1.000000
rad36	1.11129e-50	1.000000	1.11129e-50	1.000000
rad8	8.48093e-67	1.000000	8.48093e-67	1.000000

0.100000000E-07 Pa, 150.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.34137e-15 (1.00)	6.34137e-15 (1.00)
Formation of rad19	6.34135e-15 (1.000)	6.34135e-15 (1.000)
H-abstraction to cyc2enyl	1.81685e-20 (2.87e-06)	1.81685e-20 (2.87e-06)
H-abstraction to cyc1enyl	2.23765e-25 (3.53e-11)	2.23765e-25 (3.53e-11)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999692	0.999692	0.999692	0.999692
PhCHCCH2+H	0.000289592	0.999982	0.000289592	0.999982
PhCCH+CH3	5.11623e-06	0.999987	5.11623e-06	0.999987
C2H2+PhCH2	3.86834e-06	0.999991	3.86834e-06	0.999991
PhCCCH3+H	2.96768e-06	0.999994	2.96768e-06	0.999994
Benzene+cycloprop-2-enylidene	2.86508e-06	0.999997	2.86508e-06	0.999997
Ph+MeAc	2.36224e-06	0.999999	2.36224e-06	0.999999
rad67	7.01968e-07	1.000000	7.01968e-07	1.000000
rad35	3.05869e-07	1.000000	3.05869e-07	1.000000
Ph+Allene	2.36598e-07	1.000000	2.36598e-07	1.000000
PhCH2CCH+H	3.15146e-08	1.000000	3.15146e-08	1.000000
PAH7+H	2.88839e-08	1.000000	2.88839e-08	1.000000
rad39	8.15167e-09	1.000000	8.15167e-09	1.000000
rad37	7.71444e-09	1.000000	7.71444e-09	1.000000
rad30	5.77470e-09	1.000000	5.77470e-09	1.000000
PAH9+H	4.22009e-10	1.000000	4.22009e-10	1.000000
rad38	1.86919e-10	1.000000	1.86919e-10	1.000000
Benzene+cycloprop-1-enylidene	3.52865e-11	1.000000	3.52865e-11	1.000000
rad60syn	2.92988e-11	1.000000	2.92988e-11	1.000000
PAH10+CH3	1.59406e-11	1.000000	1.59406e-11	1.000000
rad60anti	1.45059e-11	1.000000	1.45059e-11	1.000000
PAH3+H	1.41866e-11	1.000000	1.41866e-11	1.000000
rad46	1.17105e-11	1.000000	1.17105e-11	1.000000
PhcycC3H3_A+H	4.70694e-12	1.000000	4.70694e-12	1.000000
rad59	2.85583e-12	1.000000	2.85583e-12	1.000000
rad43	6.57518e-13	1.000000	6.57518e-13	1.000000
rad54	5.85445e-13	1.000000	5.85445e-13	1.000000
rad62	1.45031e-13	1.000000	1.45031e-13	1.000000
rad50	1.02199e-13	1.000000	1.02199e-13	1.000000
Phenyl+cycC3H4	2.61242e-14	1.000000	0.000000	1.000000
rad70	1.23994e-14	1.000000	1.23994e-14	1.000000
rad55	5.49294e-15	1.000000	5.49294e-15	1.000000

PhcycC3H3_B+H	4.08980e-15	1.00000	4.08980e-15	1.00000
PAH1+H	3.71111e-15	1.00000	3.71111e-15	1.00000
rad52	8.01987e-16	1.00000	8.01987e-16	1.00000
rad58	3.41821e-16	1.00000	3.41821e-16	1.00000
rad51	2.53178e-16	1.00000	2.53178e-16	1.00000
rad34	2.00908e-16	1.00000	2.00908e-16	1.00000
rad41	3.81683e-17	1.00000	3.81683e-17	1.00000
rad42	2.93833e-17	1.00000	2.93833e-17	1.00000
rad65	5.66165e-18	1.00000	5.66165e-18	1.00000
rad53	5.02100e-20	1.00000	5.02100e-20	1.00000
rad64	6.27506e-21	1.00000	6.27506e-21	1.00000
rad61	1.25963e-22	1.00000	1.25963e-22	1.00000
rad56	3.47179e-24	1.00000	3.47179e-24	1.00000
rad68syn	2.64356e-25	1.00000	2.64356e-25	1.00000
rad68anti	2.10658e-25	1.00000	2.10658e-25	1.00000
rad40syn	8.88016e-29	1.00000	8.88016e-29	1.00000
rad40anti	7.03998e-29	1.00000	7.03998e-29	1.00000
rad73	5.47735e-30	1.00000	5.47735e-30	1.00000
PAH8+H	1.26388e-30	1.00000	1.26388e-30	1.00000
rad71	9.41848e-34	1.00000	9.41848e-34	1.00000
rad47	6.13964e-34	1.00000	6.13964e-34	1.00000
rad26	4.59537e-34	1.00000	4.59537e-34	1.00000
rad28	1.13862e-34	1.00000	1.13862e-34	1.00000
rad6	7.64845e-35	1.00000	7.64845e-35	1.00000
rad2	1.82206e-35	1.00000	1.82206e-35	1.00000
rad19anti	1.44031e-35	1.00000	1.44031e-35	1.00000
rad1	1.19506e-36	1.00000	1.19506e-36	1.00000
rad10	1.02605e-36	1.00000	1.02605e-36	1.00000
rad14	2.33312e-37	1.00000	2.33312e-37	1.00000
rad3	2.29242e-37	1.00000	2.29242e-37	1.00000
rad25	1.27737e-37	1.00000	1.27737e-37	1.00000
rad4	1.16847e-37	1.00000	1.16847e-37	1.00000
rad27	2.79721e-38	1.00000	2.79721e-38	1.00000
rad7	5.62156e-39	1.00000	5.62156e-39	1.00000
rad11	1.82901e-39	1.00000	1.82901e-39	1.00000
rad9	1.42777e-39	1.00000	1.42777e-39	1.00000
rad31	1.96252e-40	1.00000	1.96252e-40	1.00000
rad5	3.54852e-41	1.00000	3.54852e-41	1.00000
rad13	3.14923e-41	1.00000	3.14923e-41	1.00000
rad33	2.48768e-42	1.00000	2.48768e-42	1.00000
rad15	6.28180e-43	1.00000	6.28180e-43	1.00000
rad20	2.40370e-44	1.00000	2.40370e-44	1.00000
rad21	2.03988e-44	1.00000	2.03988e-44	1.00000
rad19syn	1.23836e-44	1.00000	1.23836e-44	1.00000
rad12	1.13844e-45	1.00000	1.13844e-45	1.00000
rad18	1.46856e-46	1.00000	1.46856e-46	1.00000
rad23	2.30184e-47	1.00000	2.30184e-47	1.00000
rad22	4.83677e-49	1.00000	4.83677e-49	1.00000
rad45	3.82944e-49	1.00000	3.82944e-49	1.00000
rad24	1.07828e-49	1.00000	1.07828e-49	1.00000
rad36	2.35302e-50	1.00000	2.35302e-50	1.00000
rad8	1.27613e-66	1.00000	1.27613e-66	1.00000

0.100000000E-07 Pa, 160.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.84423e-15 (1.00)	7.84423e-15 (1.00)
Formation of rad19	7.84418e-15 (1.000)	7.84418e-15 (1.000)
H-abstraction to cyc2enyl	5.05321e-20 (6.44e-06)	5.05321e-20 (6.44e-06)
H-abstraction to cyc1enyl	1.29479e-24 (1.65e-10)	1.29479e-24 (1.65e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999679	0.999679	0.999679	0.999679
PhCHCCH2+H	0.000298982	0.999978	0.000298982	0.999978
Benzene+cycloprop-2-enylidene	6.44194e-06	0.999984	6.44194e-06	0.999984
PhCCH+CH3	5.29275e-06	0.999989	5.29275e-06	0.999989
C2H2+PhCH2	4.03297e-06	0.999993	4.03297e-06	0.999993
PhCCCH3+H	3.08198e-06	0.999996	3.08198e-06	0.999996
Ph+MeAc	2.47440e-06	0.999999	2.47440e-06	0.999999
rad67	7.33696e-07	1.000000	7.33696e-07	1.000000
rad35	3.19106e-07	1.000000	3.19106e-07	1.000000
Ph+Allene	2.52226e-07	1.000000	2.52226e-07	1.000000
PhCH2CCH+H	3.39643e-08	1.000000	3.39643e-08	1.000000
PAH7+H	3.04941e-08	1.000000	3.04941e-08	1.000000
rad39	8.60568e-09	1.000000	8.60568e-09	1.000000
rad37	8.17136e-09	1.000000	8.17136e-09	1.000000
rad30	6.03351e-09	1.000000	6.03351e-09	1.000000
PAH9+H	4.47144e-10	1.000000	4.47144e-10	1.000000

rad38	1.99330e-10	1.00000	1.99330e-10	1.00000
Benzene+cycloprop-1-enylidene	1.65062e-10	1.00000	1.65062e-10	1.00000
rad60syn	3.11859e-11	1.00000	3.11859e-11	1.00000
PAH10+CH3	1.80192e-11	1.00000	1.80192e-11	1.00000
rad60anti	1.54660e-11	1.00000	1.54660e-11	1.00000
PAH3+H	1.54653e-11	1.00000	1.54653e-11	1.00000
rad46	1.25466e-11	1.00000	1.25466e-11	1.00000
PhcycC3H3_A+H	6.04093e-12	1.00000	6.04093e-12	1.00000
rad59	3.10145e-12	1.00000	3.10145e-12	1.00000
rad43	7.31202e-13	1.00000	7.31202e-13	1.00000
rad54	6.61022e-13	1.00000	6.61022e-13	1.00000
rad62	1.61671e-13	1.00000	1.61671e-13	1.00000
rad50	1.13351e-13	1.00000	1.13351e-13	1.00000
Phenyl+cycC3H4	3.86829e-14	1.00000	0.00000	1.00000
rad70	1.45456e-14	1.00000	1.45456e-14	1.00000
PhcycC3H3_B+H	8.12740e-15	1.00000	8.12740e-15	1.00000
rad55	6.44670e-15	1.00000	6.44670e-15	1.00000
PAH1+H	4.60690e-15	1.00000	4.60690e-15	1.00000
rad52	9.13581e-16	1.00000	9.13581e-16	1.00000
rad58	4.08006e-16	1.00000	4.08006e-16	1.00000
rad51	2.97957e-16	1.00000	2.97957e-16	1.00000
rad34	2.50279e-16	1.00000	2.50279e-16	1.00000
rad41	4.99159e-17	1.00000	4.99159e-17	1.00000
rad42	3.74399e-17	1.00000	3.74399e-17	1.00000
rad65	6.76165e-18	1.00000	6.76165e-18	1.00000
rad53	9.55513e-20	1.00000	9.55513e-20	1.00000
rad64	1.40204e-20	1.00000	1.40204e-20	1.00000
rad61	4.46330e-22	1.00000	4.46330e-22	1.00000
rad56	1.48090e-23	1.00000	1.48090e-23	1.00000
rad68syn	1.24419e-24	1.00000	1.24419e-24	1.00000
rad68anti	9.86157e-25	1.00000	9.86157e-25	1.00000
rad40syn	7.79816e-28	1.00000	7.79816e-28	1.00000
rad40anti	6.20621e-28	1.00000	6.20621e-28	1.00000
rad73	4.23082e-29	1.00000	4.23082e-29	1.00000
PAH8+H	1.68146e-29	1.00000	1.68146e-29	1.00000
rad71	1.46142e-32	1.00000	1.46142e-32	1.00000
rad47	6.18322e-34	1.00000	6.18322e-34	1.00000
rad26	4.25986e-34	1.00000	4.25986e-34	1.00000
rad28	1.04565e-34	1.00000	1.04565e-34	1.00000
rad6	7.28167e-35	1.00000	7.28167e-35	1.00000
rad2	3.76861e-35	1.00000	3.76861e-35	1.00000
rad19anti	3.44720e-35	1.00000	3.44720e-35	1.00000
rad1	2.48530e-36	1.00000	2.48530e-36	1.00000
rad10	1.67578e-36	1.00000	1.67578e-36	1.00000
rad3	4.87783e-37	1.00000	4.87783e-37	1.00000
rad4	2.48983e-37	1.00000	2.48983e-37	1.00000
rad14	2.30785e-37	1.00000	2.30785e-37	1.00000
rad25	1.28621e-37	1.00000	1.28621e-37	1.00000
rad27	2.84485e-38	1.00000	2.84485e-38	1.00000
rad7	5.36288e-39	1.00000	5.36288e-39	1.00000
rad9	1.87597e-39	1.00000	1.87597e-39	1.00000
rad11	1.77596e-39	1.00000	1.77596e-39	1.00000
rad31	3.84757e-40	1.00000	3.84757e-40	1.00000
rad5	3.35535e-41	1.00000	3.35535e-41	1.00000
rad13	3.01020e-41	1.00000	3.01020e-41	1.00000
rad33	2.76812e-42	1.00000	2.76812e-42	1.00000
rad15	8.26127e-43	1.00000	8.26127e-43	1.00000
rad19syn	3.23538e-44	1.00000	3.23538e-44	1.00000
rad20	2.79296e-44	1.00000	2.79296e-44	1.00000
rad21	2.39115e-44	1.00000	2.39115e-44	1.00000
rad12	1.67991e-45	1.00000	1.67991e-45	1.00000
rad18	1.55846e-46	1.00000	1.55846e-46	1.00000
rad23	5.30106e-47	1.00000	5.30106e-47	1.00000
rad45	1.10555e-48	1.00000	1.10555e-48	1.00000
rad22	4.87204e-49	1.00000	4.87204e-49	1.00000
rad24	1.45244e-49	1.00000	1.45244e-49	1.00000
rad36	6.80318e-50	1.00000	6.80318e-50	1.00000
rad8	1.96346e-66	1.00000	1.96346e-66	1.00000

0.100000000E-07 Pa, 170.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.49598e-15 (1.00)	9.49598e-15 (1.00)
Formation of rad19	9.49586e-15 (1.000)	9.49586e-15 (1.000)
H-abstraction to cyc2enyl	1.24279e-19 (1.31e-05)	1.24279e-19 (1.31e-05)
H-abstraction to cyclenyl	6.08025e-24 (6.40e-10)	6.08025e-24 (6.40e-10)

species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.999661	0.999661	0.999661	0.999661
PhCHCH2+H	0.000309167	0.999970	0.000309167	0.999970
Benzene+cycloprop-2-enylidene	1.30875e-05	0.999983	1.30875e-05	0.999983
PhCCH+CH3	5.48398e-06	0.999989	5.48398e-06	0.999989
C2H2+PhCH2	4.21347e-06	0.999993	4.21347e-06	0.999993
PhCCCH3+H	3.20659e-06	0.999996	3.20659e-06	0.999996
Ph+MeAc	2.59788e-06	0.999999	2.59788e-06	0.999999
rad67	7.68575e-07	0.999999	7.68575e-07	0.999999
rad35	3.33631e-07	1.000000	3.33631e-07	1.000000
Ph+Allene	2.69815e-07	1.000000	2.69815e-07	1.000000
PhCH2CCH+H	3.67554e-08	1.000000	3.67554e-08	1.000000
PAH7+H	3.22859e-08	1.000000	3.22859e-08	1.000000
rad39	9.11054e-09	1.000000	9.11054e-09	1.000000
rad37	8.68151e-09	1.000000	8.68151e-09	1.000000
rad30	6.31840e-09	1.000000	6.31840e-09	1.000000
Benzene+cycloprop-1-enylidene	6.40297e-10	1.000000	6.40297e-10	1.000000
PAH9+H	4.75294e-10	1.000000	4.75294e-10	1.000000
rad38	2.13351e-10	1.000000	2.13351e-10	1.000000
rad60syn	3.33085e-11	1.000000	3.33085e-11	1.000000
PAH10+CH3	2.05094e-11	1.000000	2.05094e-11	1.000000
PAH3+H	1.69431e-11	1.000000	1.69431e-11	1.000000
rad60anti	1.65480e-11	1.000000	1.65480e-11	1.000000
rad46	1.34952e-11	1.000000	1.34952e-11	1.000000
PhcycC3H3_A+H	7.80973e-12	1.000000	7.80973e-12	1.000000
rad59	3.38400e-12	1.000000	3.38400e-12	1.000000
rad43	8.17741e-13	1.000000	8.17741e-13	1.000000
rad54	7.51515e-13	1.000000	7.51515e-13	1.000000
rad62	1.81221e-13	1.000000	1.81221e-13	1.000000
rad50	1.26512e-13	1.000000	1.26512e-13	1.000000
Phenyl+cycC3H4	5.71891e-14	1.000000	0.000000	1.000000
rad70	1.72142e-14	1.000000	1.72142e-14	1.000000
PhcycC3H3_B+H	1.54798e-14	1.000000	1.54798e-14	1.000000
rad55	7.63217e-15	1.000000	7.63217e-15	1.000000
PAH1+H	5.77897e-15	1.000000	5.77897e-15	1.000000
rad52	1.04914e-15	1.000000	1.04914e-15	1.000000
rad58	4.91782e-16	1.000000	4.91782e-16	1.000000
rad51	3.54209e-16	1.000000	3.54209e-16	1.000000
rad34	3.15103e-16	1.000000	3.15103e-16	1.000000
rad41	6.58203e-17	1.000000	6.58203e-17	1.000000
rad42	4.80841e-17	1.000000	4.80841e-17	1.000000
rad65	8.16178e-18	1.000000	8.16178e-18	1.000000
rad53	1.76036e-19	1.000000	1.76036e-19	1.000000
rad64	2.96517e-20	1.000000	2.96517e-20	1.000000
rad61	1.40406e-21	1.000000	1.40406e-21	1.000000
rad56	5.46521e-23	1.000000	5.46521e-23	1.000000
rad68syn	4.98617e-24	1.000000	4.98617e-24	1.000000
rad68anti	3.92935e-24	1.000000	3.92935e-24	1.000000
rad40syn	5.38958e-27	1.000000	5.38958e-27	1.000000
rad40anti	4.30388e-27	1.000000	4.30388e-27	1.000000
rad73	2.64778e-28	1.000000	2.64778e-28	1.000000
PAH8+H	1.67789e-28	1.000000	1.67789e-28	1.000000
rad71	1.66935e-31	1.000000	1.66935e-31	1.000000
rad47	6.30329e-34	1.000000	6.30329e-34	1.000000
rad26	3.96758e-34	1.000000	3.96758e-34	1.000000
rad28	9.64754e-35	1.000000	9.64754e-35	1.000000
rad19anti	8.69987e-35	1.000000	8.69987e-35	1.000000
rad6	7.24309e-35	1.000000	7.24309e-35	1.000000
rad2	4.76510e-35	1.000000	4.76510e-35	1.000000
rad1	3.16114e-36	1.000000	3.16114e-36	1.000000
rad10	2.56146e-36	1.000000	2.56146e-36	1.000000
rad3	4.74806e-37	1.000000	4.74806e-37	1.000000
rad4	2.42744e-37	1.000000	2.42744e-37	1.000000
rad14	2.29959e-37	1.000000	2.29959e-37	1.000000
rad25	1.30524e-37	1.000000	1.30524e-37	1.000000
rad27	2.91733e-38	1.000000	2.91733e-38	1.000000
rad7	5.34538e-39	1.000000	5.34538e-39	1.000000
rad9	2.51572e-39	1.000000	2.51572e-39	1.000000
rad11	1.78585e-39	1.000000	1.78585e-39	1.000000
rad31	7.89253e-40	1.000000	7.89253e-40	1.000000
rad5	3.18941e-41	1.000000	3.18941e-41	1.000000
rad13	3.00626e-41	1.000000	3.00626e-41	1.000000
rad33	3.11969e-42	1.000000	3.11969e-42	1.000000
rad15	1.10907e-42	1.000000	1.10907e-42	1.000000
rad19syn	8.89196e-44	1.000000	8.89196e-44	1.000000
rad20	3.28786e-44	1.000000	3.28786e-44	1.000000
rad21	2.84110e-44	1.000000	2.84110e-44	1.000000
rad12	2.54170e-45	1.000000	2.54170e-45	1.000000
rad18	1.66779e-46	1.000000	1.66779e-46	1.000000
rad23	1.32889e-46	1.000000	1.32889e-46	1.000000
rad45	2.34483e-48	1.000000	2.34483e-48	1.000000

rad22	4.93885e-49	1.00000	4.93885e-49	1.00000
rad24	1.99557e-49	1.00000	1.99557e-49	1.00000
rad36	1.44540e-49	1.00000	1.44540e-49	1.00000
rad8	3.08693e-66	1.00000	3.08693e-66	1.00000

0.100000000E-07 Pa, 180.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.12884e-14 (1.00)	1.12884e-14 (1.00)
Formation of rad19	1.12881e-14 (1.000)	1.12881e-14 (1.000)
H-abstraction to cyc2enyl	2.75916e-19 (2.44e-05)	2.75916e-19 (2.44e-05)
H-abstraction to cyclenyl	2.39955e-23 (2.13e-09)	2.39955e-23 (2.13e-09)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999638	0.999638	0.999638	0.999638
PhCHCCH2+H	0.000320239	0.999958	0.000320239	0.999958
Benzene+cycloprop-2-enylidene	2.44424e-05	0.999982	2.44424e-05	0.999982
PhCCH+CH3	5.69151e-06	0.999988	5.69151e-06	0.999988
C2H2+PhCH2	4.41182e-06	0.999992	4.41182e-06	0.999992
PhCCCH3+H	3.34271e-06	0.999996	3.34271e-06	0.999996
Ph+MeAc	2.73412e-06	0.999998	2.73412e-06	0.999998
rad67	8.07010e-07	0.999999	8.07010e-07	0.999999
rad35	3.49603e-07	1.000000	3.49603e-07	1.000000
Ph+Allene	2.89684e-07	1.000000	2.89684e-07	1.000000
PhCH2CCH+H	3.99486e-08	1.000000	3.99486e-08	1.000000
PAH7+H	3.42855e-08	1.000000	3.42855e-08	1.000000
rad39	9.67359e-09	1.000000	9.67359e-09	1.000000
rad37	9.25289e-09	1.000000	9.25289e-09	1.000000
rad30	6.63280e-09	1.000000	6.63280e-09	1.000000
Benzene+cycloprop-1-enylidene	2.12567e-09	1.000000	2.12567e-09	1.000000
PAH9+H	5.06928e-10	1.000000	5.06928e-10	1.000000
rad38	2.29255e-10	1.000000	2.29255e-10	1.000000
rad60syn	3.57046e-11	1.000000	3.57046e-11	1.000000
PAH10+CH3	2.35102e-11	1.000000	2.35102e-11	1.000000
PAH3+H	1.86591e-11	1.000000	1.86591e-11	1.000000
rad60anti	1.77718e-11	1.000000	1.77718e-11	1.000000
rad46	1.45760e-11	1.000000	1.45760e-11	1.000000
PhcycC3H3_A+H	1.01655e-11	1.000000	1.01655e-11	1.000000
rad59	3.71052e-12	1.000000	3.71052e-12	1.000000
rad43	9.19879e-13	1.000000	9.19879e-13	1.000000
rad54	8.60523e-13	1.000000	8.60523e-13	1.000000
rad62	2.04292e-13	1.000000	2.04292e-13	1.000000
rad50	1.42141e-13	1.000000	1.42141e-13	1.000000
Phenyl+cycC3H4	8.44565e-14	1.000000	0.000000	1.000000
PhcycC3H3_B+H	2.84776e-14	1.000000	2.84776e-14	1.000000
rad70	2.05555e-14	1.000000	2.05555e-14	1.000000
rad55	9.11579e-15	1.000000	9.11579e-15	1.000000
PAH1+H	7.32394e-15	1.000000	7.32394e-15	1.000000
rad52	1.21498e-15	1.000000	1.21498e-15	1.000000
rad58	5.98636e-16	1.000000	5.98636e-16	1.000000
rad51	4.25485e-16	1.000000	4.25485e-16	1.000000
rad34	4.00857e-16	1.000000	4.00857e-16	1.000000
rad41	8.74643e-17	1.000000	8.74643e-17	1.000000
rad42	6.22157e-17	1.000000	6.22157e-17	1.000000
rad65	9.95949e-18	1.000000	9.95949e-18	1.000000
rad53	3.16150e-19	1.000000	3.16150e-19	1.000000
rad64	5.99926e-20	1.000000	5.99926e-20	1.000000
rad61	4.00801e-21	1.000000	4.00801e-21	1.000000
rad56	1.79227e-22	1.000000	1.79227e-22	1.000000
rad68syn	1.75240e-23	1.000000	1.75240e-23	1.000000
rad68anti	1.37247e-23	1.000000	1.37247e-23	1.000000
rad40syn	3.05803e-26	1.000000	3.05803e-26	1.000000
rad40anti	2.44831e-26	1.000000	2.44831e-26	1.000000
rad73	1.39313e-27	1.000000	1.39313e-27	1.000000
PAH8+H	1.32188e-27	1.000000	1.32188e-27	1.000000
rad71	1.48898e-30	1.000000	1.48898e-30	1.000000
rad47	6.50507e-34	1.000000	6.50507e-34	1.000000
rad26	3.71041e-34	1.000000	3.71041e-34	1.000000
rad19anti	2.31119e-34	1.000000	2.31119e-34	1.000000
rad2	1.17518e-34	1.000000	1.17518e-34	1.000000
rad28	8.93655e-35	1.000000	8.93655e-35	1.000000
rad6	7.71573e-35	1.000000	7.71573e-35	1.000000
rad1	7.84689e-36	1.000000	7.84689e-36	1.000000
rad10	4.46172e-36	1.000000	4.46172e-36	1.000000
rad3	1.28308e-36	1.000000	1.28308e-36	1.000000
rad4	6.57109e-37	1.000000	6.57109e-37	1.000000
rad14	2.30674e-37	1.000000	2.30674e-37	1.000000
rad25	1.33411e-37	1.000000	1.33411e-37	1.000000

rad27	3.01471e-38	1.000000	3.01471e-38	1.000000
rad7	5.70566e-39	1.000000	5.70566e-39	1.000000
rad9	3.44179e-39	1.000000	3.44179e-39	1.000000
rad11	1.89211e-39	1.000000	1.89211e-39	1.000000
rad31	1.69327e-39	1.000000	1.69327e-39	1.000000
rad13	3.21452e-41	1.000000	3.21452e-41	1.000000
rad5	3.04530e-41	1.000000	3.04530e-41	1.000000
rad33	3.55971e-42	1.000000	3.55971e-42	1.000000
rad15	1.51923e-42	1.000000	1.51923e-42	1.000000
rad19syn	2.57212e-43	1.000000	2.57212e-43	1.000000
rad20	3.91929e-44	1.000000	3.91929e-44	1.000000
rad21	3.42011e-44	1.000000	3.42011e-44	1.000000
rad12	3.94232e-45	1.000000	3.94232e-45	1.000000
rad23	3.64134e-46	1.000000	3.64134e-46	1.000000
rad18	1.79862e-46	1.000000	1.79862e-46	1.000000
rad45	7.63506e-48	1.000000	7.63506e-48	1.000000
rad22	5.03687e-49	1.000000	5.03687e-49	1.000000
rad36	4.71622e-49	1.000000	4.71622e-49	1.000000
rad24	2.79582e-49	1.000000	2.79582e-49	1.000000
rad8	4.95693e-66	1.000000	4.95693e-66	1.000000

0.100000000E-07 Pa, 190.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.32132e-14 (1.00)	1.32132e-14 (1.00)
Formation of rad19	1.32126e-14 (1.000)	1.32126e-14 (1.000)
H-abstraction to cyc2enyl	5.62053e-19 (4.25e-05)	5.62053e-19 (4.25e-05)
H-abstraction to cyclenyl	8.18073e-23 (6.19e-09)	8.18073e-23 (6.19e-09)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999606	0.999606	0.999606	0.999606
PhCHCCH2+H	0.000332293	0.999939	0.000332293	0.999939
Benzene+cycloprop-2-enylidene	4.25373e-05	0.999981	4.25373e-05	0.999981
PhCCH+CH3	5.91707e-06	0.999987	5.91707e-06	0.999987
C2H2+PhCH2	4.63023e-06	0.999992	4.63023e-06	0.999992
PhCCCH3+H	3.49167e-06	0.999995	3.49167e-06	0.999995
Ph+MeAc	2.88479e-06	0.999998	2.88479e-06	0.999998
rad67	8.49457e-07	0.999999	8.49457e-07	0.999999
rad35	3.67207e-07	0.999999	3.67207e-07	0.999999
Ph+Allene	3.12197e-07	1.000000	3.12197e-07	1.000000
PhCH2CCH+H	4.36151e-08	1.000000	4.36151e-08	1.000000
PAH7+H	3.65230e-08	1.000000	3.65230e-08	1.000000
rad39	1.03032e-08	1.000000	1.03032e-08	1.000000
rad37	9.89464e-09	1.000000	9.89464e-09	1.000000
rad30	6.98058e-09	1.000000	6.98058e-09	1.000000
Benzene+cycloprop-1-enylidene	6.19133e-09	1.000000	6.19133e-09	1.000000
PAH9+H	5.42590e-10	1.000000	5.42590e-10	1.000000
rad38	2.47359e-10	1.000000	2.47359e-10	1.000000
rad60syn	3.84183e-11	1.000000	3.84183e-11	1.000000
PAH10+CH3	2.71459e-11	1.000000	2.71459e-11	1.000000
PAH3+H	2.06610e-11	1.000000	2.06610e-11	1.000000
rad60anti	1.91607e-11	1.000000	1.91607e-11	1.000000
rad46	1.58119e-11	1.000000	1.58119e-11	1.000000
PhcycC3H3_A+H	1.33135e-11	1.000000	1.33135e-11	1.000000
rad59	4.08946e-12	1.000000	4.08946e-12	1.000000
rad43	1.04096e-12	1.000000	1.04096e-12	1.000000
rad54	9.92552e-13	1.000000	9.92552e-13	1.000000
rad62	2.31631e-13	1.000000	2.31631e-13	1.000000
rad50	1.60801e-13	1.000000	1.60801e-13	1.000000
Phenyl+cycC3H4	1.24603e-13	1.000000	0.00000	1.000000
PhcycC3H3_B+H	5.08976e-14	1.000000	5.08976e-14	1.000000
rad70	2.47658e-14	1.000000	2.47658e-14	1.000000
rad55	1.09840e-14	1.000000	1.09840e-14	1.000000
PAH1+H	9.37357e-15	1.000000	9.37357e-15	1.000000
rad52	1.41930e-15	1.000000	1.41930e-15	1.000000
rad58	7.35874e-16	1.000000	7.35874e-16	1.000000
rad51	5.16512e-16	1.000000	5.16512e-16	1.000000
rad34	5.15049e-16	1.000000	5.15049e-16	1.000000
rad41	1.17041e-16	1.000000	1.17041e-16	1.000000
rad42	8.10502e-17	1.000000	8.10502e-17	1.000000
rad65	1.22862e-17	1.000000	1.22862e-17	1.000000
rad53	5.56219e-19	1.000000	5.56219e-19	1.000000
rad64	1.17042e-19	1.000000	1.17042e-19	1.000000
rad61	1.05588e-20	1.000000	1.05588e-20	1.000000
rad56	5.33231e-22	1.000000	5.33231e-22	1.000000
rad68syn	5.52671e-23	1.000000	5.52671e-23	1.000000
rad68anti	4.30019e-23	1.000000	4.30019e-23	1.000000
rad40syn	1.47212e-25	1.000000	1.47212e-25	1.000000

rad40anti	1.18054e-25	1.000000	1.18054e-25	1.000000
PAH8+H	8.53886e-27	1.000000	8.53886e-27	1.000000
rad73	6.34253e-27	1.000000	6.34253e-27	1.000000
rad71	1.07847e-29	1.000000	1.07847e-29	1.000000
rad47	6.79798e-34	1.000000	6.79798e-34	1.000000
rad19anti	6.45010e-34	1.000000	6.45010e-34	1.000000
rad26	3.48224e-34	1.000000	3.48224e-34	1.000000
rad2	1.44181e-34	1.000000	1.44181e-34	1.000000
rad6	9.15688e-35	1.000000	9.15688e-35	1.000000
rad28	8.30637e-35	1.000000	8.30637e-35	1.000000
rad1	9.69482e-36	1.000000	9.69482e-36	1.000000
rad10	7.71927e-36	1.000000	7.71927e-36	1.000000
rad3	1.02875e-36	1.000000	1.02875e-36	1.000000
rad4	5.27859e-37	1.000000	5.27859e-37	1.000000
rad14	2.32831e-37	1.000000	2.32831e-37	1.000000
rad25	1.37281e-37	1.000000	1.37281e-37	1.000000
rad27	3.13788e-38	1.000000	3.13788e-38	1.000000
rad7	6.78432e-39	1.000000	6.78432e-39	1.000000
rad9	4.80275e-39	1.000000	4.80275e-39	1.000000
rad31	3.79748e-39	1.000000	3.79748e-39	1.000000
rad11	2.17789e-39	1.000000	2.17789e-39	1.000000
rad13	3.82718e-41	1.000000	3.82718e-41	1.000000
rad5	2.91893e-41	1.000000	2.91893e-41	1.000000
rad33	4.11279e-42	1.000000	4.11279e-42	1.000000
rad15	2.12299e-42	1.000000	2.12299e-42	1.000000
rad19syn	7.83212e-43	1.000000	7.83212e-43	1.000000
rad20	4.72933e-44	1.000000	4.72933e-44	1.000000
rad21	4.16987e-44	1.000000	4.16987e-44	1.000000
rad12	6.26883e-45	1.000000	6.26883e-45	1.000000
rad23	1.08948e-45	1.000000	1.08948e-45	1.000000
rad18	1.95369e-46	1.000000	1.95369e-46	1.000000
rad45	2.38247e-47	1.000000	2.38247e-47	1.000000
rad36	1.47518e-48	1.000000	1.47518e-48	1.000000
rad22	5.17050e-49	1.000000	5.17050e-49	1.000000
rad24	3.99373e-49	1.000000	3.99373e-49	1.000000
rad8	8.12778e-66	1.000000	8.12778e-66	1.000000

0.100000000E-07 Pa, 200.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.52621e-14 (1.00)	1.52621e-14 (1.00)
Formation of rad19	1.52610e-14 (1.000)	1.52610e-14 (1.000)
H-abstraction to cyc2enyl	1.06427e-18 (6.97e-05)	1.06427e-18 (6.97e-05)
H-abstraction to cyc1enyl	2.46309e-22 (1.61e-08)	2.46309e-22 (1.61e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999565	0.999565	0.999565	0.999565
PhCHCCH2+H	0.000345433	0.999911	0.000345433	0.999911
Benzene+cycloprop-2-enylidene	6.97330e-05	0.999980	6.97330e-05	0.999980
PhCCH+CH3	6.16243e-06	0.999987	6.16243e-06	0.999987
C2H2+PhCH2	4.87110e-06	0.999991	4.87110e-06	0.999991
PhCCCH3+H	3.65492e-06	0.999995	3.65492e-06	0.999995
Ph+MeAc	3.05169e-06	0.999998	3.05169e-06	0.999998
rad67	8.96414e-07	0.999999	8.96414e-07	0.999999
rad35	3.86641e-07	0.999999	3.86641e-07	0.999999
Ph+Allene	3.37776e-07	1.000000	3.37776e-07	1.000000
PhCH2CCH+H	4.78388e-08	1.000000	4.78388e-08	1.000000
PAH7+H	3.90324e-08	1.000000	3.90324e-08	1.000000
Benzene+cycloprop-1-enylidene	1.61386e-08	1.000000	1.61386e-08	1.000000
rad39	1.10085e-08	1.000000	1.10085e-08	1.000000
rad37	1.06172e-08	1.000000	1.06172e-08	1.000000
rad30	7.36603e-09	1.000000	7.36603e-09	1.000000
PAH9+H	5.82902e-10	1.000000	5.82902e-10	1.000000
rad38	2.68036e-10	1.000000	2.68036e-10	1.000000
rad60syn	4.15004e-11	1.000000	4.15004e-11	1.000000
PAH10+CH3	3.15724e-11	1.000000	3.15724e-11	1.000000
PAH3+H	2.30055e-11	1.000000	2.30055e-11	1.000000
rad60anti	2.07416e-11	1.000000	2.07416e-11	1.000000
PhcycC3H3_A+H	1.75314e-11	1.000000	1.75314e-11	1.000000
rad46	1.72300e-11	1.000000	1.72300e-11	1.000000
rad59	4.53088e-12	1.000000	4.53088e-12	1.000000
rad43	1.18504e-12	1.000000	1.18504e-12	1.000000
rad54	1.15325e-12	1.000000	1.15325e-12	1.000000
rad62	2.64143e-13	1.000000	2.64143e-13	1.000000
Phenyl+cycC3H4	1.83626e-13	1.000000	0.000000	1.000000
rad50	1.83198e-13	1.000000	1.83198e-13	1.000000
PhcycC3H3_B+H	8.87690e-14	1.000000	8.87690e-14	1.000000
rad70	3.01009e-14	1.000000	3.01009e-14	1.000000

rad55	1.33496e-14	1.000000	1.33496e-14	1.000000
PAH1+H	1.21077e-14	1.000000	1.21077e-14	1.000000
rad52	1.67258e-15	1.000000	1.67258e-15	1.000000
rad58	9.13220e-16	1.000000	9.13220e-16	1.000000
rad34	6.67958e-16	1.000000	6.67958e-16	1.000000
rad51	6.33617e-16	1.000000	6.33617e-16	1.000000
rad41	1.57585e-16	1.000000	1.57585e-16	1.000000
rad42	1.06227e-16	1.000000	1.06227e-16	1.000000
rad65	1.53192e-17	1.000000	1.53192e-17	1.000000
rad53	9.61974e-19	1.000000	9.61974e-19	1.000000
rad64	2.21495e-19	1.000000	2.21495e-19	1.000000
rad61	2.60103e-20	1.000000	2.60103e-20	1.000000
rad56	1.46279e-21	1.000000	1.46279e-21	1.000000
rad68syn	1.59261e-22	1.000000	1.59261e-22	1.000000
rad68anti	1.23075e-22	1.000000	1.23075e-22	1.000000
rad40syn	6.17076e-25	1.000000	6.17076e-25	1.000000
rad40anti	4.95189e-25	1.000000	4.95189e-25	1.000000
PAH8+H	4.65852e-26	1.000000	4.65852e-26	1.000000
rad73	2.55582e-26	1.000000	2.55582e-26	1.000000
rad71	6.53613e-29	1.000000	6.53613e-29	1.000000
rad19anti	1.88664e-33	1.000000	1.88664e-33	1.000000
rad47	7.19638e-34	1.000000	7.19638e-34	1.000000
rad26	3.27845e-34	1.000000	3.27845e-34	1.000000
rad2	1.53201e-34	1.000000	1.53201e-34	1.000000
rad6	1.28227e-34	1.000000	1.28227e-34	1.000000
rad28	7.74419e-35	1.000000	7.74419e-35	1.000000
rad10	1.19644e-35	1.000000	1.19644e-35	1.000000
rad1	1.03806e-35	1.000000	1.03806e-35	1.000000
rad3	4.22852e-36	1.000000	4.22852e-36	1.000000
rad4	2.17416e-36	1.000000	2.17416e-36	1.000000
rad14	2.36381e-37	1.000000	2.36381e-37	1.000000
rad25	1.42166e-37	1.000000	1.42166e-37	1.000000
rad27	3.28854e-38	1.000000	3.28854e-38	1.000000
rad7	9.51699e-39	1.000000	9.51699e-39	1.000000
rad31	8.89667e-39	1.000000	8.89667e-39	1.000000
rad9	6.83521e-39	1.000000	6.83521e-39	1.000000
rad11	2.86993e-39	1.000000	2.86993e-39	1.000000
rad13	5.37220e-41	1.000000	5.37220e-41	1.000000
rad5	2.80710e-41	1.000000	2.80710e-41	1.000000
rad33	4.81640e-42	1.000000	4.81640e-42	1.000000
rad15	3.02617e-42	1.000000	3.02617e-42	1.000000
rad19syn	2.51002e-42	1.000000	2.51002e-42	1.000000
rad20	5.77552e-44	1.000000	5.77552e-44	1.000000
rad21	5.14817e-44	1.000000	5.14817e-44	1.000000
rad12	1.02213e-44	1.000000	1.02213e-44	1.000000
rad23	3.56788e-45	1.000000	3.56788e-45	1.000000
rad18	2.13655e-46	1.000000	2.13655e-46	1.000000
rad45	5.74889e-47	1.000000	5.74889e-47	1.000000
rad36	3.56970e-48	1.000000	3.56970e-48	1.000000
rad24	5.81686e-49	1.000000	5.81686e-49	1.000000
rad22	5.35715e-49	1.000000	5.35715e-49	1.000000
rad8	1.36072e-65	1.000000	1.36072e-65	1.000000

0.100000000E-07 Pa, 210.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.74272e-14 (1.00)	1.74272e-14 (1.00)
Formation of rad19	1.74253e-14 (1.000)	1.74253e-14 (1.000)
H-abstraction to cyc2enyl	1.89310e-18 (0.000109)	1.89310e-18 (0.000109)
H-abstraction to cyc1enyl	6.66714e-22 (3.83e-08)	6.66714e-22 (3.83e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999511	0.999511	0.999511	0.999511
PhCHCCH2+H	0.000359771	0.999871	0.000359771	0.999871
Benzene+cycloprop-2-enylidene	0.000108629	0.999980	0.000108629	0.999980
PhCCH+CH3	6.42954e-06	0.999986	6.42954e-06	0.999986
C2H2+PhCH2	5.13705e-06	0.999991	5.13705e-06	0.999991
PhCCCH3+H	3.83397e-06	0.999995	3.83397e-06	0.999995
Ph+MeAc	3.23682e-06	0.999998	3.23682e-06	0.999998
rad67	9.48433e-07	0.999999	9.48433e-07	0.999999
rad35	4.08123e-07	1.000000	4.08123e-07	1.000000
Ph+Allene	3.66908e-07	1.000000	3.66908e-07	1.000000
PhCH2CCH+H	5.27181e-08	1.000000	5.27181e-08	1.000000
PAH7+H	4.18517e-08	1.000000	4.18517e-08	1.000000
Benzene+cycloprop-1-enylidene	3.82571e-08	1.000000	3.82571e-08	1.000000
rad39	1.18003e-08	1.000000	1.18003e-08	1.000000
rad37	1.14322e-08	1.000000	1.14322e-08	1.000000
rad30	7.79386e-09	1.000000	7.79386e-09	1.000000

PAH9+H	6.28582e-10	1.00000	6.28582e-10	1.00000
rad38	2.91718e-10	1.00000	2.91718e-10	1.00000
rad60syn	4.50097e-11	1.00000	4.50097e-11	1.00000
PAH10+CH3	3.69848e-11	1.00000	3.69848e-11	1.00000
PAH3+H	2.57613e-11	1.00000	2.57613e-11	1.00000
PhcycC3H3_A+H	2.31914e-11	1.00000	2.31914e-11	1.00000
rad60anti	2.25454e-11	1.00000	2.25454e-11	1.00000
rad46	1.88621e-11	1.00000	1.88621e-11	1.00000
rad59	5.04687e-12	1.00000	5.04687e-12	1.00000
rad43	1.35708e-12	1.00000	1.35708e-12	1.00000
rad54	1.34969e-12	1.00000	1.34969e-12	1.00000
rad62	3.02922e-13	1.00000	3.02922e-13	1.00000
Phenyl+cycC3H4	2.70226e-13	1.00000	0.00000	1.00000
rad50	2.10210e-13	1.00000	2.10210e-13	1.00000
PhcycC3H3_B+H	1.51586e-13	1.00000	1.51586e-13	1.00000
rad70	3.68946e-14	1.00000	3.68946e-14	1.00000
rad55	1.63588e-14	1.00000	1.63588e-14	1.00000
PAH1+H	1.57712e-14	1.00000	1.57712e-14	1.00000
rad52	1.98838e-15	1.00000	1.98838e-15	1.00000
rad58	1.14364e-15	1.00000	1.14364e-15	1.00000
rad34	8.73664e-16	1.00000	8.73664e-16	1.00000
rad51	7.85267e-16	1.00000	7.85267e-16	1.00000
rad41	2.13280e-16	1.00000	2.13280e-16	1.00000
rad42	1.39947e-16	1.00000	1.39947e-16	1.00000
rad65	1.92990e-17	1.00000	1.92990e-17	1.00000
rad53	1.63950e-18	1.00000	1.63950e-18	1.00000
rad64	4.08414e-19	1.00000	4.08414e-19	1.00000
rad61	6.05363e-20	1.00000	6.05363e-20	1.00000
rad56	3.74745e-21	1.00000	3.74745e-21	1.00000
rad68syn	4.25367e-22	1.00000	4.25367e-22	1.00000
rad68anti	3.26442e-22	1.00000	3.26442e-22	1.00000
rad40syn	2.29907e-24	1.00000	2.29907e-24	1.00000
rad40anti	1.84461e-24	1.00000	1.84461e-24	1.00000
PAH8+H	2.19678e-25	1.00000	2.19678e-25	1.00000
rad73	9.27903e-26	1.00000	9.27903e-26	1.00000
rad71	3.39170e-28	1.00000	3.39170e-28	1.00000
rad19anti	5.76790e-33	1.00000	5.76790e-33	1.00000
rad47	7.72082e-34	1.00000	7.72082e-34	1.00000
rad2	7.26448e-34	1.00000	7.26448e-34	1.00000
rad26	3.09565e-34	1.00000	3.09565e-34	1.00000
rad6	2.28032e-34	1.00000	2.28032e-34	1.00000
rad28	7.24082e-35	1.00000	7.24082e-35	1.00000
rad1	4.96333e-35	1.00000	4.96333e-35	1.00000
rad10	2.70441e-35	1.00000	2.70441e-35	1.00000
rad3	6.17328e-36	1.00000	6.17328e-36	1.00000
rad4	3.18137e-36	1.00000	3.18137e-36	1.00000
rad14	2.41312e-37	1.00000	2.41312e-37	1.00000
rad25	1.48124e-37	1.00000	1.48124e-37	1.00000
rad27	3.46924e-38	1.00000	3.46924e-38	1.00000
rad31	2.17525e-38	1.00000	2.17525e-38	1.00000
rad7	1.69511e-38	1.00000	1.69511e-38	1.00000
rad9	9.92203e-39	1.00000	9.92203e-39	1.00000
rad11	4.70174e-39	1.00000	4.70174e-39	1.00000
rad13	9.57071e-41	1.00000	9.57071e-41	1.00000
rad5	2.70739e-41	1.00000	2.70739e-41	1.00000
rad19syn	8.46110e-42	1.00000	8.46110e-42	1.00000
rad33	5.73884e-42	1.00000	5.73884e-42	1.00000
rad15	4.40034e-42	1.00000	4.40034e-42	1.00000
rad20	7.13728e-44	1.00000	7.13728e-44	1.00000
rad21	6.43567e-44	1.00000	6.43567e-44	1.00000
rad12	1.70940e-44	1.00000	1.70940e-44	1.00000
rad23	1.27673e-44	1.00000	1.27673e-44	1.00000
rad45	3.25313e-46	1.00000	3.25313e-46	1.00000
rad18	2.35163e-46	1.00000	2.35163e-46	1.00000
rad36	2.02664e-47	1.00000	2.02664e-47	1.00000
rad24	8.63992e-49	1.00000	8.63992e-49	1.00000
rad22	5.65629e-49	1.00000	5.65629e-49	1.00000
rad8	2.32606e-65	1.00000	2.32606e-65	1.00000

0.100000000E-07 Pa, 220.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.97009e-14 (1.00)	1.97009e-14 (1.00)
Formation of rad19	1.96977e-14 (1.000)	1.96977e-14 (1.000)
H-abstraction to cyc2enyl	3.19064e-18 (0.000162)	3.19064e-18 (0.000162)
H-abstraction to cyclenyl	1.64627e-21 (8.36e-08)	1.64627e-21 (8.36e-08)
species	PYtrue	Cumul
	PYeffective	Cumul

Indene+H	0.999441	0.999441	0.999441	0.999441
PhCHCH2+H	0.000375424	0.999816	0.000375424	0.999816
Benzene+cycloprop-2-enylidene	0.000161954	0.999978	0.000161954	0.999978
PhCCH+CH3	6.72039e-06	0.999985	6.72039e-06	0.999985
C2H2+PhCH2	5.43098e-06	0.999991	5.43098e-06	0.999991
PhCCCH3+H	4.03052e-06	0.999995	4.03052e-06	0.999995
Ph+MeAc	3.44236e-06	0.999998	3.44236e-06	0.999998
rad67	1.00612e-06	0.999999	1.00612e-06	0.999999
rad35	4.31892e-07	0.999999	4.31892e-07	0.999999
Ph+Allene	4.00152e-07	1.000000	4.00152e-07	1.000000
Benzene+cycloprop-1-enylidene	8.35632e-08	1.000000	8.35632e-08	1.000000
PhCH2CCH+H	5.83685e-08	1.000000	5.83685e-08	1.000000
PAH7+H	4.50239e-08	1.000000	4.50239e-08	1.000000
rad39	1.26902e-08	1.000000	1.26902e-08	1.000000
rad37	1.23532e-08	1.000000	1.23532e-08	1.000000
rad30	8.26934e-09	1.000000	8.26934e-09	1.000000
PAH9+H	6.80449e-10	1.000000	6.80449e-10	1.000000
rad38	3.18912e-10	1.000000	3.18912e-10	1.000000
rad60syn	4.90141e-11	1.000000	4.90141e-11	1.000000
PAH10+CH3	4.36275e-11	1.000000	4.36275e-11	1.000000
PhcycC3H3_A+H	3.07931e-11	1.000000	3.07931e-11	1.000000
PAH3+H	2.90111e-11	1.000000	2.90111e-11	1.000000
rad60anti	2.46085e-11	1.000000	2.46085e-11	1.000000
rad46	2.07451e-11	1.000000	2.07451e-11	1.000000
rad59	5.65179e-12	1.000000	5.65179e-12	1.000000
rad54	1.59075e-12	1.000000	1.59075e-12	1.000000
rad43	1.56310e-12	1.000000	1.56310e-12	1.000000
Phenyl+cycC3H4	3.96956e-13	1.000000	0.000000	1.000000
rad62	3.49289e-13	1.000000	3.49289e-13	1.000000
PhcycC3H3_B+H	2.54101e-13	1.000000	2.54101e-13	1.000000
rad50	2.42929e-13	1.000000	2.42929e-13	1.000000
rad70	4.55816e-14	1.000000	4.55816e-14	1.000000
PAH1+H	2.06978e-14	1.000000	2.06978e-14	1.000000
rad55	2.02024e-14	1.000000	2.02024e-14	1.000000
rad52	2.38419e-15	1.000000	2.38419e-15	1.000000
rad58	1.44438e-15	1.000000	1.44438e-15	1.000000
rad34	1.15142e-15	1.000000	1.15142e-15	1.000000
rad51	9.82815e-16	1.000000	9.82815e-16	1.000000
rad41	2.89888e-16	1.000000	2.89888e-16	1.000000
rad42	1.85167e-16	1.000000	1.85167e-16	1.000000
rad65	2.45506e-17	1.000000	2.45506e-17	1.000000
rad53	2.75830e-18	1.000000	2.75830e-18	1.000000
rad64	7.36243e-19	1.000000	7.36243e-19	1.000000
rad61	1.34204e-19	1.000000	1.34204e-19	1.000000
rad56	9.05591e-21	1.000000	9.05591e-21	1.000000
rad68syn	1.06496e-21	1.000000	1.06496e-21	1.000000
rad68anti	8.11646e-22	1.000000	8.11646e-22	1.000000
rad40syn	7.73817e-24	1.000000	7.73817e-24	1.000000
rad40anti	6.20298e-24	1.000000	6.20298e-24	1.000000
PAH8+H	9.11871e-25	1.000000	9.11871e-25	1.000000
rad73	3.07722e-25	1.000000	3.07722e-25	1.000000
rad71	1.53452e-27	1.000000	1.53452e-27	1.000000
rad19anti	1.83731e-32	1.000000	1.83731e-32	1.000000
rad2	8.62546e-34	1.000000	8.62546e-34	1.000000
rad47	8.39990e-34	1.000000	8.39990e-34	1.000000
rad6	5.25969e-34	1.000000	5.25969e-34	1.000000
rad26	2.93159e-34	1.000000	2.93159e-34	1.000000
rad28	6.79072e-35	1.000000	6.79072e-35	1.000000
rad1	5.94674e-35	1.000000	5.94674e-35	1.000000
rad10	4.60274e-35	1.000000	4.60274e-35	1.000000
rad3	6.41330e-36	1.000000	6.41330e-36	1.000000
rad4	3.31328e-36	1.000000	3.31328e-36	1.000000
rad14	2.47656e-37	1.000000	2.47656e-37	1.000000
rad25	1.55245e-37	1.000000	1.55245e-37	1.000000
rad31	5.54361e-38	1.000000	5.54361e-38	1.000000
rad7	3.91554e-38	1.000000	3.91554e-38	1.000000
rad27	3.68341e-38	1.000000	3.68341e-38	1.000000
rad9	1.46932e-38	1.000000	1.46932e-38	1.000000
rad11	1.00744e-38	1.000000	1.00744e-38	1.000000
rad13	2.21198e-40	1.000000	2.21198e-40	1.000000
rad19syn	2.99699e-41	1.000000	2.99699e-41	1.000000
rad5	2.61784e-41	1.000000	2.61784e-41	1.000000
rad33	7.03122e-42	1.000000	7.03122e-42	1.000000
rad15	6.52837e-42	1.000000	6.52837e-42	1.000000
rad20	8.92522e-44	1.000000	8.92522e-44	1.000000
rad21	8.14608e-44	1.000000	8.14608e-44	1.000000
rad23	4.95668e-44	1.000000	4.95668e-44	1.000000
rad12	2.93345e-44	1.000000	2.93345e-44	1.000000
rad45	1.64022e-45	1.000000	1.64022e-45	1.000000
rad18	2.60448e-46	1.000000	2.60448e-46	1.000000

rad36	1.02571e-46	1.00000	1.02571e-46	1.00000
rad24	1.30904e-48	1.00000	1.30904e-48	1.00000
rad22	6.27703e-49	1.00000	6.27703e-49	1.00000
rad8	4.06073e-65	1.00000	4.06073e-65	1.00000

0.100000000E-07 Pa, 230.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.20761e-14 (1.00)	2.20761e-14 (1.00)
Formation of rad19	2.20710e-14 (1.000)	2.20710e-14 (1.000)
H-abstraction to cyc2enyl	5.13155e-18 (0.000232)	5.13155e-18 (0.000232)
H-abstraction to cyclenyl	3.75316e-21 (1.70e-07)	3.75316e-21 (1.70e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999352	0.999352	0.999352	0.999352
PhCHCCH2+H	0.000392520	0.999745	0.000392520	0.999745
Benzene+cycloprop-2-enylidene	0.000232448	0.999977	0.000232448	0.999977
PhCCH+CH3	7.03712e-06	0.999984	7.03712e-06	0.999984
C2H2+PhCH2	5.75601e-06	0.999990	5.75601e-06	0.999990
PhCCCH3+H	4.24633e-06	0.999994	4.24633e-06	0.999994
Ph+MeAc	3.67074e-06	0.999998	3.67074e-06	0.999998
rad67	1.07014e-06	0.999999	1.07014e-06	0.999999
rad35	4.58209e-07	1.000000	4.58209e-07	1.000000
Ph+Allene	4.38150e-07	1.000000	4.38150e-07	1.000000
Benzene+cycloprop-1-enylidene	1.70010e-07	1.000000	1.70010e-07	1.000000
PhCH2CCH+H	6.49255e-08	1.000000	6.49255e-08	1.000000
PAH7+H	4.85973e-08	1.000000	4.85973e-08	1.000000
rad39	1.36916e-08	1.000000	1.36916e-08	1.000000
rad37	1.33953e-08	1.000000	1.33953e-08	1.000000
rad30	8.79825e-09	1.000000	8.79825e-09	1.000000
PAH9+H	7.39444e-10	1.000000	7.39444e-10	1.000000
rad38	3.50209e-10	1.000000	3.50209e-10	1.000000
rad60syn	5.35915e-11	1.000000	5.35915e-11	1.000000
PAH10+CH3	5.18070e-11	1.000000	5.18070e-11	1.000000
PhcycC3H3_A+H	4.10038e-11	1.000000	4.10038e-11	1.000000
PAH3+H	3.28545e-11	1.000000	3.28545e-11	1.000000
rad60anti	2.69725e-11	1.000000	2.69725e-11	1.000000
rad46	2.29232e-11	1.000000	2.29232e-11	1.000000
rad59	6.36289e-12	1.000000	6.36289e-12	1.000000
rad54	1.88753e-12	1.000000	1.88753e-12	1.000000
rad43	1.81040e-12	1.000000	1.81040e-12	1.000000
Phenyl+cycC3H4	5.81829e-13	1.000000	0.000000	1.000000
PhcycC3H3_B+H	4.18958e-13	1.000000	4.18958e-13	1.000000
rad62	4.04844e-13	1.000000	4.04844e-13	1.000000
rad50	2.82714e-13	1.000000	2.82714e-13	1.000000
rad70	5.67286e-14	1.000000	5.67286e-14	1.000000
PAH1+H	2.73412e-14	1.000000	2.73412e-14	1.000000
rad55	2.51284e-14	1.000000	2.51284e-14	1.000000
rad52	2.88263e-15	1.000000	2.88263e-15	1.000000
rad58	1.83842e-15	1.000000	1.83842e-15	1.000000
rad34	1.52752e-15	1.000000	1.52752e-15	1.000000
rad51	1.24150e-15	1.000000	1.24150e-15	1.000000
rad41	3.95307e-16	1.000000	3.95307e-16	1.000000
rad42	2.45831e-16	1.000000	2.45831e-16	1.000000
rad65	3.15147e-17	1.000000	3.15147e-17	1.000000
rad53	4.58652e-18	1.000000	4.58652e-18	1.000000
rad64	1.30089e-18	1.000000	1.30089e-18	1.000000
rad61	2.85229e-19	1.000000	2.85229e-19	1.000000
rad56	2.08059e-20	1.000000	2.08059e-20	1.000000
rad68syn	2.52167e-21	1.000000	2.52167e-21	1.000000
rad68anti	1.90889e-21	1.000000	1.90889e-21	1.000000
rad40syn	2.38315e-23	1.000000	2.38315e-23	1.000000
rad40anti	1.90761e-23	1.000000	1.90761e-23	1.000000
PAH8+H	3.38041e-24	1.000000	3.38041e-24	1.000000
rad73	9.42054e-25	1.000000	9.42054e-25	1.000000
rad71	6.14189e-27	1.000000	6.14189e-27	1.000000
rad19anti	6.07588e-32	1.000000	6.07588e-32	1.000000
rad2	1.99200e-33	1.000000	1.99200e-33	1.000000
rad6	1.53223e-33	1.000000	1.53223e-33	1.000000
rad47	9.27304e-34	1.000000	9.27304e-34	1.000000
rad26	2.78531e-34	1.000000	2.78531e-34	1.000000
rad1	1.38677e-34	1.000000	1.38677e-34	1.000000
rad10	9.90509e-35	1.000000	9.90509e-35	1.000000
rad28	6.39314e-35	1.000000	6.39314e-35	1.000000
rad3	1.24466e-35	1.000000	1.24466e-35	1.000000
rad4	6.44753e-36	1.000000	6.44753e-36	1.000000
rad14	2.55479e-37	1.000000	2.55479e-37	1.000000
rad25	1.63651e-37	1.000000	1.63651e-37	1.000000

rad31	1.47015e-37	1.00000	1.47015e-37	1.00000
rad7	1.14226e-37	1.00000	1.14226e-37	1.00000
rad27	3.93553e-38	1.00000	3.93553e-38	1.00000
rad11	2.80020e-38	1.00000	2.80020e-38	1.00000
rad9	2.22042e-38	1.00000	2.22042e-38	1.00000
rad13	6.46159e-40	1.00000	6.46159e-40	1.00000
rad19syn	1.11381e-40	1.00000	1.11381e-40	1.00000
rad5	2.53694e-41	1.00000	2.53694e-41	1.00000
rad15	9.88504e-42	1.00000	9.88504e-42	1.00000
rad33	9.14057e-42	1.00000	9.14057e-42	1.00000
rad23	2.08460e-43	1.00000	2.08460e-43	1.00000
rad20	1.12948e-43	1.00000	1.12948e-43	1.00000
rad21	1.04415e-43	1.00000	1.04415e-43	1.00000
rad12	5.16809e-44	1.00000	5.16809e-44	1.00000
rad45	6.69072e-45	1.00000	6.69072e-45	1.00000
rad36	4.20159e-46	1.00000	4.20159e-46	1.00000
rad18	2.90200e-46	1.00000	2.90200e-46	1.00000
rad24	2.02383e-48	1.00000	2.02383e-48	1.00000
rad22	7.99749e-49	1.00000	7.99749e-49	1.00000
rad8	7.24167e-65	1.00000	7.24167e-65	1.00000

0.100000000E-07 Pa, 240.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.45462e-14 (1.00)	2.45462e-14 (1.00)
Formation of rad19	2.45383e-14 (1.000)	2.45383e-14 (1.000)
H-abstraction to cyc2enyl	7.92234e-18 (0.000323)	7.92234e-18 (0.000323)
H-abstraction to cyclenyl	7.97958e-21 (3.25e-07)	7.97958e-21 (3.25e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999241	0.999241	0.999241	0.999241
PhCHCCH2+H	0.000411192	0.999652	0.000411192	0.999652
Benzene+cycloprop-2-enylidene	0.000322752	0.999975	0.000322752	0.999975
PhCCH+CH3	7.38194e-06	0.999982	7.38194e-06	0.999982
C2H2+PhCH2	6.11553e-06	0.999989	6.11553e-06	0.999989
PhCCCH3+H	4.48334e-06	0.999993	4.48334e-06	0.999993
Ph+MeAc	3.92459e-06	0.999997	3.92459e-06	0.999997
rad67	1.14122e-06	0.999998	1.14122e-06	0.999998
rad35	4.87362e-07	0.999999	4.87362e-07	0.999999
Ph+Allene	4.81641e-07	0.999999	4.81641e-07	0.999999
Benzene+cycloprop-1-enylidene	3.25084e-07	0.999999	3.25084e-07	0.999999
PhCH2CCH+H	7.25479e-08	0.999999	7.25479e-08	0.999999
PAH7+H	5.26263e-08	0.999999	5.26263e-08	0.999999
rad39	1.48191e-08	0.999999	1.48191e-08	0.999999
rad37	1.45757e-08	1.000000	1.45757e-08	1.000000
rad30	9.38702e-09	1.000000	9.38702e-09	1.000000
PAH9+H	8.06648e-10	1.000000	8.06648e-10	1.000000
rad38	3.86297e-10	1.000000	3.86297e-10	1.000000
PAH10+CH3	6.19064e-11	1.000000	6.19064e-11	1.000000
rad60syn	5.88324e-11	1.000000	5.88324e-11	1.000000
PhcycC3H3_A+H	5.47108e-11	1.000000	5.47108e-11	1.000000
PAH3+H	3.74113e-11	1.000000	3.74113e-11	1.000000
rad60anti	2.96857e-11	1.000000	2.96857e-11	1.000000
rad46	2.54475e-11	1.000000	2.54475e-11	1.000000
rad59	7.20068e-12	1.000000	7.20068e-12	1.000000
rad54	2.25392e-12	1.000000	2.25392e-12	1.000000
rad43	2.10782e-12	1.000000	2.10782e-12	1.000000
Phenyl+cycC3H4	8.50545e-13	1.000000	0.000000	1.000000
PhcycC3H3_B+H	6.80482e-13	1.000000	6.80482e-13	1.000000
rad62	4.71505e-13	1.000000	4.71505e-13	1.000000
rad50	3.31266e-13	1.000000	3.31266e-13	1.000000
rad70	7.10727e-14	1.000000	7.10727e-14	1.000000
PAH1+H	3.63163e-14	1.000000	3.63163e-14	1.000000
rad55	3.14580e-14	1.000000	3.14580e-14	1.000000
rad52	3.51289e-15	1.000000	3.51289e-15	1.000000
rad58	2.35637e-15	1.000000	2.35637e-15	1.000000
rad34	2.03779e-15	1.000000	2.03779e-15	1.000000
rad51	1.58177e-15	1.000000	1.58177e-15	1.000000
rad41	5.40331e-16	1.000000	5.40331e-16	1.000000
rad42	3.27191e-16	1.000000	3.27191e-16	1.000000
rad65	4.07884e-17	1.000000	4.07884e-17	1.000000
rad53	7.54386e-18	1.000000	7.54386e-18	1.000000
rad64	2.25729e-18	1.000000	2.25729e-18	1.000000
rad61	5.84088e-19	1.000000	5.84088e-19	1.000000
rad56	4.57232e-20	1.000000	4.57232e-20	1.000000
rad68syn	5.68636e-21	1.000000	5.68636e-21	1.000000
rad68anti	4.27665e-21	1.000000	4.27665e-21	1.000000
rad40syn	6.78314e-23	1.000000	6.78314e-23	1.000000

rad40anti	5.41986e-23	1.000000	5.41986e-23	1.000000
PAH8+H	1.13224e-23	1.000000	1.13224e-23	1.000000
rad73	2.68346e-24	1.000000	2.68346e-24	1.000000
rad71	2.20097e-26	1.000000	2.20097e-26	1.000000
rad19anti	2.07742e-31	1.000000	2.07742e-31	1.000000
rad2	5.75394e-33	1.000000	5.75394e-33	1.000000
rad6	5.21897e-33	1.000000	5.21897e-33	1.000000
rad47	1.03946e-33	1.000000	1.03946e-33	1.000000
rad1	4.04817e-34	1.000000	4.04817e-34	1.000000
rad26	2.65765e-34	1.000000	2.65765e-34	1.000000
rad10	2.18380e-34	1.000000	2.18380e-34	1.000000
rad28	6.05594e-35	1.000000	6.05594e-35	1.000000
rad3	5.05207e-35	1.000000	5.05207e-35	1.000000
rad4	2.62484e-35	1.000000	2.62484e-35	1.000000
rad31	4.04869e-37	1.000000	4.04869e-37	1.000000
rad7	3.89591e-37	1.000000	3.89591e-37	1.000000
rad14	2.64884e-37	1.000000	2.64884e-37	1.000000
rad25	1.73500e-37	1.000000	1.73500e-37	1.000000
rad11	9.30564e-38	1.000000	9.30564e-38	1.000000
rad27	4.23137e-38	1.000000	4.23137e-38	1.000000
rad9	3.42568e-38	1.000000	3.42568e-38	1.000000
rad13	2.20838e-39	1.000000	2.20838e-39	1.000000
rad19syn	4.33470e-40	1.000000	4.33470e-40	1.000000
rad5	2.46350e-41	1.000000	2.46350e-41	1.000000
rad15	1.52826e-41	1.000000	1.52826e-41	1.000000
rad33	1.36100e-41	1.000000	1.36100e-41	1.000000
rad23	9.41242e-43	1.000000	9.41242e-43	1.000000
rad20	1.44668e-43	1.000000	1.44668e-43	1.000000
rad21	1.35552e-43	1.000000	1.35552e-43	1.000000
rad12	9.35278e-44	1.000000	9.35278e-44	1.000000
rad45	1.94783e-44	1.000000	1.94783e-44	1.000000
rad36	1.22880e-45	1.000000	1.22880e-45	1.000000
rad18	3.25290e-46	1.000000	3.25290e-46	1.000000
rad24	3.19416e-48	1.000000	3.19416e-48	1.000000
rad22	1.38840e-48	1.000000	1.38840e-48	1.000000
rad8	1.31971e-64	1.000000	1.31971e-64	1.000000

0.100000000E-07 Pa, 250.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.71048e-14 (1.00)	2.71048e-14 (1.00)
Formation of rad19	2.70930e-14 (1.000)	2.70930e-14 (1.000)
H-abstraction to cyc2enyl	1.17991e-17 (0.000435)	1.17991e-17 (0.000435)
H-abstraction to cyc1enyl	1.59554e-20 (5.89e-07)	1.59554e-20 (5.89e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999107	0.999107	0.999107	0.999107
Benzene+cycloprop-2-enylidene	0.000435312	0.999543	0.000435312	0.999543
PhCHCCH2+H	0.000431584	0.999974	0.000431584	0.999974
PhCCH+CH3	7.75719e-06	0.999982	7.75719e-06	0.999982
C2H2+PhCH2	6.51326e-06	0.999988	6.51326e-06	0.999988
PhCCCH3+H	4.74360e-06	0.999993	4.74360e-06	0.999993
Ph+MeAc	4.20682e-06	0.999997	4.20682e-06	0.999997
rad67	1.22017e-06	0.999999	1.22017e-06	0.999999
Benzene+cycloprop-1-enylidene	5.88656e-07	0.999999	5.88656e-07	0.999999
Ph+Allene	5.31474e-07	1.000000	5.31474e-07	1.000000
rad35	5.19665e-07	1.000000	5.19665e-07	1.000000
PhCH2CCH+H	8.14215e-08	1.000000	8.14215e-08	1.000000
PAH7+H	5.71717e-08	1.000000	5.71717e-08	1.000000
rad39	1.60894e-08	1.000000	1.60894e-08	1.000000
rad37	1.59138e-08	1.000000	1.59138e-08	1.000000
rad30	1.00427e-08	1.000000	1.00427e-08	1.000000
PAH9+H	8.83301e-10	1.000000	8.83301e-10	1.000000
rad38	4.27984e-10	1.000000	4.27984e-10	1.000000
PAH10+CH3	7.44048e-11	1.000000	7.44048e-11	1.000000
PhcycC3H3_A+H	7.30900e-11	1.000000	7.30900e-11	1.000000
rad60syn	6.48407e-11	1.000000	6.48407e-11	1.000000
PAH3+H	4.28259e-11	1.000000	4.28259e-11	1.000000
rad60anti	3.28040e-11	1.000000	3.28040e-11	1.000000
rad46	2.83782e-11	1.000000	2.83782e-11	1.000000
rad59	8.18974e-12	1.000000	8.18974e-12	1.000000
rad54	2.70728e-12	1.000000	2.70728e-12	1.000000
rad43	2.46610e-12	1.000000	2.46610e-12	1.000000
Phenyl+cycC3H4	1.23952e-12	1.000000	0.000000	1.000000
PhcycC3H3_B+H	1.09005e-12	1.000000	1.09005e-12	1.000000
rad62	5.51586e-13	1.000000	5.51586e-13	1.000000
rad50	3.90700e-13	1.000000	3.90700e-13	1.000000
rad70	8.95708e-14	1.000000	8.95708e-14	1.000000

PAH1+H	4.84545e-14	1.00000	4.84545e-14	1.00000
rad55	3.96080e-14	1.00000	3.96080e-14	1.00000
rad52	4.31279e-15	1.00000	4.31279e-15	1.00000
rad58	3.03881e-15	1.00000	3.03881e-15	1.00000
rad34	2.73087e-15	1.00000	2.73087e-15	1.00000
rad51	2.03107e-15	1.00000	2.03107e-15	1.00000
rad41	7.39638e-16	1.00000	7.39638e-16	1.00000
rad42	4.36203e-16	1.00000	4.36203e-16	1.00000
rad65	5.31796e-17	1.00000	5.31796e-17	1.00000
rad53	1.22797e-17	1.00000	1.22797e-17	1.00000
rad64	3.85188e-18	1.00000	3.85188e-18	1.00000
rad61	1.15688e-18	1.00000	1.15688e-18	1.00000
rad56	9.65553e-20	1.00000	9.65553e-20	1.00000
rad68syn	1.22760e-20	1.00000	1.22760e-20	1.00000
rad68anti	9.17629e-21	1.00000	9.17629e-21	1.00000
rad40syn	1.79832e-22	1.00000	1.79832e-22	1.00000
rad40anti	1.43402e-22	1.00000	1.43402e-22	1.00000
PAH8+H	3.45930e-23	1.00000	3.45930e-23	1.00000
rad73	7.15481e-24	1.00000	7.15481e-24	1.00000
rad71	7.13356e-26	1.00000	7.13356e-26	1.00000
rad19anti	7.31047e-31	1.00000	7.31047e-31	1.00000
rad6	1.94540e-32	1.00000	1.94540e-32	1.00000
rad2	1.36529e-32	1.00000	1.36529e-32	1.00000
rad47	1.18402e-33	1.00000	1.18402e-33	1.00000
rad1	9.71486e-34	1.00000	9.71486e-34	1.00000
rad10	5.26647e-34	1.00000	5.26647e-34	1.00000
rad26	2.55249e-34	1.00000	2.55249e-34	1.00000
rad3	9.94285e-35	1.00000	9.94285e-35	1.00000
rad28	5.80584e-35	1.00000	5.80584e-35	1.00000
rad4	5.18235e-35	1.00000	5.18235e-35	1.00000
rad7	1.45398e-36	1.00000	1.45398e-36	1.00000
rad31	1.15495e-36	1.00000	1.15495e-36	1.00000
rad11	3.42005e-37	1.00000	3.42005e-37	1.00000
rad14	2.76022e-37	1.00000	2.76022e-37	1.00000
rad25	1.84993e-37	1.00000	1.84993e-37	1.00000
rad9	5.39927e-38	1.00000	5.39927e-38	1.00000
rad27	4.57823e-38	1.00000	4.57823e-38	1.00000
rad13	8.26263e-39	1.00000	8.26263e-39	1.00000
rad19syn	1.76219e-39	1.00000	1.76219e-39	1.00000
rad33	2.62884e-41	1.00000	2.62884e-41	1.00000
rad15	2.41400e-41	1.00000	2.41400e-41	1.00000
rad5	2.39657e-41	1.00000	2.39657e-41	1.00000
rad23	4.56319e-42	1.00000	4.56319e-42	1.00000
rad20	1.87591e-43	1.00000	1.87591e-43	1.00000
rad21	1.78281e-43	1.00000	1.78281e-43	1.00000
rad12	1.73973e-43	1.00000	1.73973e-43	1.00000
rad45	1.71795e-43	1.00000	1.71795e-43	1.00000
rad36	1.08956e-44	1.00000	1.08956e-44	1.00000
rad18	3.66838e-46	1.00000	3.66838e-46	1.00000
rad24	5.14891e-48	1.00000	5.14891e-48	1.00000
rad22	3.66940e-48	1.00000	3.66940e-48	1.00000
rad8	2.45880e-64	1.00000	2.45880e-64	1.00000

0.100000000E-07 Pa, 260.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.97464e-14 (1.00)	2.97464e-14 (1.00)
Formation of rad19	2.97293e-14 (0.999)	2.97293e-14 (0.999)
H-abstraction to cyc2enyl	1.70236e-17 (0.000572)	1.70236e-17 (0.000572)
H-abstraction to cyc1enyl	3.02186e-20 (1.02e-06)	3.02186e-20 (1.02e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998946	0.998946	0.998946	0.998946
Benzene+cycloprop-2-enylidene	0.000572291	0.999518	0.000572291	0.999518
PhCHCCH2+H	0.000453848	0.999972	0.000453848	0.999972
PhCCH+CH3	8.16530e-06	0.999980	8.16530e-06	0.999980
C2H2+PhCH2	6.95321e-06	0.999987	6.95321e-06	0.999987
PhCCCH3+H	5.02932e-06	0.999992	5.02932e-06	0.999992
Ph+MeAc	4.52059e-06	0.999997	4.52059e-06	0.999997
rad67	1.30786e-06	0.999998	1.30786e-06	0.999998
Benzene+cycloprop-1-enylidene	1.01588e-06	0.999999	1.01588e-06	0.999999
Ph+Allene	5.88618e-07	1.000000	5.88618e-07	1.000000
rad35	5.55458e-07	1.000000	5.55458e-07	1.000000
PhCH2CCH+H	9.17637e-08	1.000000	9.17637e-08	1.000000
PAH7+H	6.23016e-08	1.000000	6.23016e-08	1.000000
rad39	1.75209e-08	1.000000	1.75209e-08	1.000000
rad37	1.74317e-08	1.000000	1.74317e-08	1.000000
rad30	1.07732e-08	1.000000	1.07732e-08	1.000000

PAH9+H	9.70823e-10	1.00000	9.70823e-10	1.00000
rad38	4.76210e-10	1.00000	4.76210e-10	1.00000
PhcycC3H3_A+H	9.76900e-11	1.00000	9.76900e-11	1.00000
PAH10+CH3	8.98996e-11	1.00000	8.98996e-11	1.00000
rad60syn	7.17361e-11	1.00000	7.17361e-11	1.00000
PAH3+H	4.92719e-11	1.00000	4.92719e-11	1.00000
rad60anti	3.63918e-11	1.00000	3.63918e-11	1.00000
rad46	3.17862e-11	1.00000	3.17862e-11	1.00000
rad59	9.35934e-12	1.00000	9.35934e-12	1.00000
rad54	3.26922e-12	1.00000	3.26922e-12	1.00000
rad43	2.89822e-12	1.00000	2.89822e-12	1.00000
Phenyl+cycC3H4	1.79997e-12	1.00000	0.00000	1.00000
PhcycC3H3_B+H	1.72357e-12	1.00000	1.72357e-12	1.00000
rad62	6.47858e-13	1.00000	6.47858e-13	1.00000
rad50	4.63657e-13	1.00000	4.63657e-13	1.00000
rad70	1.13462e-13	1.00000	1.13462e-13	1.00000
PAH1+H	6.48747e-14	1.00000	6.48747e-14	1.00000
rad55	5.01162e-14	1.00000	5.01162e-14	1.00000
rad52	5.33110e-15	1.00000	5.33110e-15	1.00000
rad58	3.93954e-15	1.00000	3.93954e-15	1.00000
rad34	3.67253e-15	1.00000	3.67253e-15	1.00000
rad51	2.62615e-15	1.00000	2.62615e-15	1.00000
rad41	1.01308e-15	1.00000	1.01308e-15	1.00000
rad42	5.82033e-16	1.00000	5.82033e-16	1.00000
rad65	6.97793e-17	1.00000	6.97793e-17	1.00000
rad53	1.97860e-17	1.00000	1.97860e-17	1.00000
rad64	6.46999e-18	1.00000	6.46999e-18	1.00000
rad61	2.22252e-18	1.00000	2.22252e-18	1.00000
rad56	1.96583e-19	1.00000	1.96583e-19	1.00000
rad68syn	2.54704e-20	1.00000	2.54704e-20	1.00000
rad68anti	1.89312e-20	1.00000	1.89312e-20	1.00000
rad40syn	4.46797e-22	1.00000	4.46797e-22	1.00000
rad40anti	3.55555e-22	1.00000	3.55555e-22	1.00000
PAH8+H	9.71820e-23	1.00000	9.71820e-23	1.00000
rad73	1.79367e-23	1.00000	1.79367e-23	1.00000
rad71	2.10958e-25	1.00000	2.10958e-25	1.00000
rad19anti	2.63449e-30	1.00000	2.63449e-30	1.00000
rad6	7.58033e-32	1.00000	7.58033e-32	1.00000
rad2	1.92809e-32	1.00000	1.92809e-32	1.00000
rad1	1.38907e-33	1.00000	1.38907e-33	1.00000
rad47	1.37151e-33	1.00000	1.37151e-33	1.00000
rad10	1.05900e-33	1.00000	1.05900e-33	1.00000
rad26	2.47960e-34	1.00000	2.47960e-34	1.00000
rad3	1.26306e-34	1.00000	1.26306e-34	1.00000
rad4	6.60580e-35	1.00000	6.60580e-35	1.00000
rad28	5.71591e-35	1.00000	5.71591e-35	1.00000
rad7	5.67101e-36	1.00000	5.67101e-36	1.00000
rad31	3.40261e-36	1.00000	3.40261e-36	1.00000
rad11	1.31817e-36	1.00000	1.31817e-36	1.00000
rad14	2.89083e-37	1.00000	2.89083e-37	1.00000
rad25	1.98384e-37	1.00000	1.98384e-37	1.00000
rad9	8.70242e-38	1.00000	8.70242e-38	1.00000
rad27	4.98547e-38	1.00000	4.98547e-38	1.00000
rad13	3.23198e-38	1.00000	3.23198e-38	1.00000
rad19syn	7.46104e-39	1.00000	7.46104e-39	1.00000
rad33	7.00059e-41	1.00000	7.00059e-41	1.00000
rad15	3.89979e-41	1.00000	3.89979e-41	1.00000
rad23	2.34723e-41	1.00000	2.34723e-41	1.00000
rad5	2.33544e-41	1.00000	2.33544e-41	1.00000
rad45	9.51842e-43	1.00000	9.51842e-43	1.00000
rad12	3.32841e-43	1.00000	3.32841e-43	1.00000
rad20	2.46360e-43	1.00000	2.46360e-43	1.00000
rad21	2.37644e-43	1.00000	2.37644e-43	1.00000
rad36	6.07160e-44	1.00000	6.07160e-44	1.00000
rad18	4.16390e-46	1.00000	4.16390e-46	1.00000
rad22	1.32192e-47	1.00000	1.32192e-47	1.00000
rad24	8.48188e-48	1.00000	8.48188e-48	1.00000
rad8	4.68586e-64	1.00000	4.68586e-64	1.00000

0.100000000E-07 Pa, 270.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.24655e-14 (1.00)	3.24655e-14 (1.00)
Formation of rad19	3.24415e-14 (0.999)	3.24415e-14 (0.999)
H-abstraction to cyc2enyl	2.38790e-17 (0.000736)	2.38790e-17 (0.000736)
H-abstraction to cyclenyl	5.45397e-20 (1.68e-06)	5.45397e-20 (1.68e-06)

species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.998755	0.998755	0.998755	0.998755
Benzene+cycloprop-2-enylidene	0.000735519	0.999491	0.000735519	0.999491
PhCHCCH2+H	0.000478146	0.999969	0.000478146	0.999969
PhCCH+CH3	8.60880e-06	0.999977	8.60880e-06	0.999977
C2H2+PhCH2	7.43973e-06	0.999985	7.43973e-06	0.999985
PhCCCH3+H	5.34286e-06	0.999990	5.34286e-06	0.999990
Ph+MeAc	4.86938e-06	0.999995	4.86938e-06	0.999995
Benzene+cycloprop-1-enylidene	1.67993e-06	0.999997	1.67993e-06	0.999997
rad67	1.40525e-06	0.999998	1.40525e-06	0.999998
Ph+Allene	6.54187e-07	0.999999	6.54187e-07	0.999999
rad35	5.95116e-07	0.999999	5.95116e-07	0.999999
PhCH2CCH+H	1.03828e-07	1.000000	1.03828e-07	1.000000
PAH7+H	6.80924e-08	1.000000	6.80924e-08	1.000000
rad37	1.91542e-08	1.000000	1.91542e-08	1.000000
rad39	1.91343e-08	1.000000	1.91343e-08	1.000000
rad30	1.15872e-08	1.000000	1.15872e-08	1.000000
PAH9+H	1.07084e-09	1.000000	1.07084e-09	1.000000
rad38	5.32069e-10	1.000000	5.32069e-10	1.000000
PhcycC3H3_A+H	1.30538e-10	1.000000	1.30538e-10	1.000000
PAH10+CH3	1.09134e-10	1.000000	1.09134e-10	1.000000
rad60syn	7.96566e-11	1.000000	7.96566e-11	1.000000
PAH3+H	5.69580e-11	1.000000	5.69580e-11	1.000000
rad60anti	4.05238e-11	1.000000	4.05238e-11	1.000000
rad46	3.57543e-11	1.000000	3.57543e-11	1.000000
rad59	1.07444e-11	1.000000	1.07444e-11	1.000000
rad54	3.96666e-12	1.000000	3.96666e-12	1.000000
rad43	3.41976e-12	1.000000	3.41976e-12	1.000000
PhcycC3H3_B+H	2.69151e-12	1.000000	2.69151e-12	1.000000
Phenyl+cycC3H4	2.60320e-12	1.000000	0.000000	1.000000
rad62	7.63634e-13	1.000000	7.63634e-13	1.000000
rad50	5.53420e-13	1.000000	5.53420e-13	1.000000
rad70	1.44343e-13	1.000000	1.44343e-13	1.000000
PAH1+H	8.70739e-14	1.000000	8.70739e-14	1.000000
rad55	6.36740e-14	1.000000	6.36740e-14	1.000000
rad52	6.63065e-15	1.000000	6.63065e-15	1.000000
rad58	5.12944e-15	1.000000	5.12944e-15	1.000000
rad34	4.95119e-15	1.000000	4.95119e-15	1.000000
rad51	3.41605e-15	1.000000	3.41605e-15	1.000000
rad41	1.38732e-15	1.000000	1.38732e-15	1.000000
rad42	7.76679e-16	1.000000	7.76679e-16	1.000000
rad65	9.20538e-17	1.000000	9.20538e-17	1.000000
rad53	3.15550e-17	1.000000	3.15550e-17	1.000000
rad64	1.07030e-17	1.000000	1.07030e-17	1.000000
rad61	4.14942e-18	1.000000	4.14942e-18	1.000000
rad56	3.86758e-19	1.000000	3.86758e-19	1.000000
rad68syn	5.09279e-20	1.000000	5.09279e-20	1.000000
rad68anti	3.76574e-20	1.000000	3.76574e-20	1.000000
rad40syn	1.04541e-21	1.000000	1.04541e-21	1.000000
rad40anti	8.30243e-22	1.000000	8.30243e-22	1.000000
PAH8+H	2.52772e-22	1.000000	2.52772e-22	1.000000
rad73	4.24308e-23	1.000000	4.24308e-23	1.000000
rad71	5.73649e-25	1.000000	5.73649e-25	1.000000
rad19anti	9.66950e-30	1.000000	9.66950e-30	1.000000
rad6	3.00754e-31	1.000000	3.00754e-31	1.000000
rad2	5.46042e-32	1.000000	5.46042e-32	1.000000
rad1	3.98598e-33	1.000000	3.98598e-33	1.000000
rad10	2.80562e-33	1.000000	2.80562e-33	1.000000
rad47	1.61683e-33	1.000000	1.61683e-33	1.000000
rad26	2.46087e-34	1.000000	2.46087e-34	1.000000
rad3	1.86630e-34	1.000000	1.86630e-34	1.000000
rad4	9.79728e-35	1.000000	9.79728e-35	1.000000
rad28	5.97841e-35	1.000000	5.97841e-35	1.000000
rad7	2.25141e-35	1.000000	2.25141e-35	1.000000
rad31	1.03174e-35	1.000000	1.03174e-35	1.000000
rad11	5.17414e-36	1.000000	5.17414e-36	1.000000
rad14	3.04319e-37	1.000000	3.04319e-37	1.000000
rad25	2.13987e-37	1.000000	2.13987e-37	1.000000
rad9	1.43698e-37	1.000000	1.43698e-37	1.000000
rad13	1.28723e-37	1.000000	1.28723e-37	1.000000
rad27	5.46519e-38	1.000000	5.46519e-38	1.000000
rad19syn	3.27847e-38	1.000000	3.27847e-38	1.000000
rad33	2.34458e-40	1.000000	2.34458e-40	1.000000
rad23	1.27592e-40	1.000000	1.27592e-40	1.000000
rad15	6.45503e-41	1.000000	6.45503e-41	1.000000
rad5	2.27951e-41	1.000000	2.27951e-41	1.000000
rad45	5.55309e-42	1.000000	5.55309e-42	1.000000
rad12	6.55396e-43	1.000000	6.55396e-43	1.000000
rad36	3.56618e-43	1.000000	3.56618e-43	1.000000
rad20	3.27908e-43	1.000000	3.27908e-43	1.000000
rad21	3.21260e-43	1.000000	3.21260e-43	1.000000

rad18	4.76453e-46	1.000000	4.76453e-46	1.000000
rad22	5.55240e-47	1.000000	5.55240e-47	1.000000
rad24	1.42872e-47	1.000000	1.42872e-47	1.000000
rad8	9.13967e-64	1.000000	9.13967e-64	1.000000

0.100000000E-07 Pa, 280.000000 K

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Rate constant      | True (fraction)      Effective (fraction)
-----
Total              | 3.52572e-14 (1.00   ) 3.52572e-14 (1.00   )
Formation of rad19| 3.52244e-14 (0.999   ) 3.52244e-14 (0.999   )
H-abstraction to cyc2enyl| 3.26639e-17 (0.000926) 3.26639e-17 (0.000926)
H-abstraction to cyclenyl| 9.42926e-20 (2.67e-06) 9.42926e-20 (2.67e-06)
=====
species            | PYtrue      Cumul      | PYeffective  Cumul
-----
Indene+H          | 0.998535    0.998535    | 0.998535     0.998535
Benzene+cycloprop-2-enylidene | 0.000926445 0.999462    | 0.000926445 0.999462
PhCHCCH2+H       | 0.000504654 0.999966    | 0.000504654 0.999966
PhCCH+CH3        | 9.09038e-06 0.999976    | 9.09038e-06 0.999976
C2H2+PhCH2      | 7.97755e-06 0.999984    | 7.97755e-06 0.999984
PhCCCH3+H        | 5.68676e-06 0.999989    | 5.68676e-06 0.999989
Ph+MeAc          | 5.25697e-06 0.999994    | 5.25697e-06 0.999994
Benzene+cycloprop-1-enylidene | 2.67442e-06 0.999997    | 2.67442e-06 0.999997
rad67            | 1.51340e-06 0.999999    | 1.51340e-06 0.999999
Ph+Allene        | 7.29448e-07 0.999999    | 7.29448e-07 0.999999
rad35            | 6.39046e-07 1.000000    | 6.39046e-07 1.000000
PhCH2CCH+H      | 1.17909e-07 1.000000    | 1.17909e-07 1.000000
PAH7+H          | 7.46290e-08 1.000000    | 7.46290e-08 1.000000
rad37            | 2.11094e-08 1.000000    | 2.11094e-08 1.000000
rad39            | 2.09522e-08 1.000000    | 2.09522e-08 1.000000
rad30            | 1.24940e-08 1.000000    | 1.24940e-08 1.000000
PAH9+H          | 1.18522e-09 1.000000    | 1.18522e-09 1.000000
rad38            | 5.96837e-10 1.000000    | 5.96837e-10 1.000000
PhcycC3H3_A+H   | 1.74264e-10 1.000000    | 1.74264e-10 1.000000
PAH10+CH3       | 1.33029e-10 1.000000    | 1.33029e-10 1.000000
rad60syn        | 8.87606e-11 1.000000    | 8.87606e-11 1.000000
PAH3+H          | 6.61334e-11 1.000000    | 6.61334e-11 1.000000
rad60anti       | 4.52857e-11 1.000000    | 4.52857e-11 1.000000
rad46            | 4.03796e-11 1.000000    | 4.03796e-11 1.000000
rad59            | 1.23862e-11 1.000000    | 1.23862e-11 1.000000
rad54            | 4.83285e-12 1.000000    | 4.83285e-12 1.000000
PhcycC3H3_B+H   | 4.15199e-12 1.000000    | 4.15199e-12 1.000000
rad43            | 4.04946e-12 1.000000    | 4.04946e-12 1.000000
Phenyl+cycC3H4 | 3.74742e-12 1.000000    | 0.000000     1.000000
rad62            | 9.02853e-13 1.000000    | 9.02853e-13 1.000000
rad50            | 6.64061e-13 1.000000    | 6.64061e-13 1.000000
rad70            | 1.84259e-13 1.000000    | 1.84259e-13 1.000000
PAH1+H          | 1.17039e-13 1.000000    | 1.17039e-13 1.000000
rad55            | 8.11651e-14 1.000000    | 8.11651e-14 1.000000
rad52            | 8.29198e-15 1.000000    | 8.29198e-15 1.000000
rad58            | 6.70136e-15 1.000000    | 6.70136e-15 1.000000
rad34            | 6.68467e-15 1.000000    | 6.68467e-15 1.000000
rad51            | 4.46577e-15 1.000000    | 4.46577e-15 1.000000
rad41            | 1.89783e-15 1.000000    | 1.89783e-15 1.000000
rad42            | 1.03572e-15 1.000000    | 1.03572e-15 1.000000
rad65            | 1.21961e-16 1.000000    | 1.21961e-16 1.000000
rad53            | 4.97919e-17 1.000000    | 4.97919e-17 1.000000
rad64            | 1.74396e-17 1.000000    | 1.74396e-17 1.000000
rad61            | 7.53772e-18 1.000000    | 7.53772e-18 1.000000
rad56            | 7.36384e-19 1.000000    | 7.36384e-19 1.000000
rad68syn        | 9.83169e-20 1.000000    | 9.83169e-20 1.000000
rad68anti       | 7.23595e-20 1.000000    | 7.23595e-20 1.000000
rad40syn        | 2.31284e-21 1.000000    | 2.31284e-21 1.000000
rad40anti       | 1.83329e-21 1.000000    | 1.83329e-21 1.000000
PAH8+H          | 6.12419e-22 1.000000    | 6.12419e-22 1.000000
rad73            | 9.50003e-23 1.000000    | 9.50003e-23 1.000000
rad71            | 1.44434e-24 1.000000    | 1.44434e-24 1.000000
rad19anti       | 3.59338e-29 1.000000    | 3.59338e-29 1.000000
rad6             | 1.19277e-30 1.000000    | 1.19277e-30 1.000000
rad2             | 1.12079e-31 1.000000    | 1.12079e-31 1.000000
rad1             | 8.29891e-33 1.000000    | 8.29891e-33 1.000000
rad10           | 6.06041e-33 1.000000    | 6.06041e-33 1.000000
rad47           | 1.94125e-33 1.000000    | 1.94125e-33 1.000000
rad3             | 4.54668e-34 1.000000    | 4.54668e-34 1.000000
rad26           | 2.54425e-34 1.000000    | 2.54425e-34 1.000000
rad4             | 2.39635e-34 1.000000    | 2.39635e-34 1.000000
rad7            | 8.93027e-35 1.000000    | 8.93027e-35 1.000000
rad28           | 7.09640e-35 1.000000    | 7.09640e-35 1.000000
rad31           | 3.20736e-35 1.000000    | 3.20736e-35 1.000000

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rad11	2.02787e-35	1.00000	2.02787e-35	1.00000
rad13	5.12409e-37	1.00000	5.12409e-37	1.00000
rad14	3.22055e-37	1.00000	3.22055e-37	1.00000
rad9	2.43954e-37	1.00000	2.43954e-37	1.00000
rad25	2.32198e-37	1.00000	2.32198e-37	1.00000
rad19syn	1.48909e-37	1.00000	1.48909e-37	1.00000
rad27	6.03356e-38	1.00000	6.03356e-38	1.00000
rad33	8.66475e-40	1.00000	8.66475e-40	1.00000
rad23	7.28741e-40	1.00000	7.28741e-40	1.00000
rad15	1.09862e-40	1.00000	1.09862e-40	1.00000
rad45	2.42248e-41	1.00000	2.42248e-41	1.00000
rad5	2.22835e-41	1.00000	2.22835e-41	1.00000
rad36	1.56649e-42	1.00000	1.56649e-42	1.00000
rad12	1.32917e-42	1.00000	1.32917e-42	1.00000
rad20	4.42995e-43	1.00000	4.42995e-43	1.00000
rad21	4.40996e-43	1.00000	4.40996e-43	1.00000
rad18	5.52308e-46	1.00000	5.52308e-46	1.00000
rad22	2.51712e-46	1.00000	2.51712e-46	1.00000
rad24	2.46243e-47	1.00000	2.46243e-47	1.00000
rad8	1.82566e-63	1.00000	1.82566e-63	1.00000

0.100000000E-07 Pa, 290.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.81171e-14 (1.00)	3.81171e-14 (1.00)
Formation of rad19	3.80733e-14 (0.999)	3.80733e-14 (0.999)
H-abstraction to cyc2enyl	4.36868e-17 (0.00115)	4.36868e-17 (0.00115)
H-abstraction to cyclenyl	1.56861e-19 (4.12e-06)	1.56861e-19 (4.12e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998282	0.998282	0.998282	0.998282
Benzene+cycloprop-2-enylidene	0.00114612	0.999429	0.00114612	0.999429
PhCHCCH2+H	0.000533552	0.999962	0.000533552	0.999962
PhCCH+CH3	9.61277e-06	0.999972	9.61277e-06	0.999972
C2H2+PhCH2	8.57172e-06	0.999980	8.57172e-06	0.999980
PhCCCH3+H	6.06370e-06	0.999986	6.06370e-06	0.999986
Ph+MeAc	5.68749e-06	0.999992	5.68749e-06	0.999992
Benzene+cycloprop-1-enylidene	4.11523e-06	0.999996	4.11523e-06	0.999996
rad67	1.63346e-06	0.999998	1.63346e-06	0.999998
Ph+Allene	8.15840e-07	0.999999	8.15840e-07	0.999999
rad35	6.87689e-07	0.999999	6.87689e-07	0.999999
PhCH2CCH+H	1.34349e-07	0.999999	1.34349e-07	0.999999
PAH7+H	8.20060e-08	0.999999	8.20060e-08	0.999999
rad37	2.33285e-08	1.000000	2.33285e-08	1.000000
rad39	2.30001e-08	1.000000	2.30001e-08	1.000000
rad30	1.35042e-08	1.000000	1.35042e-08	1.000000
PAH9+H	1.31607e-09	1.000000	1.31607e-09	1.000000
rad38	6.71988e-10	1.000000	6.71988e-10	1.000000
PhcycC3H3_A+H	2.32248e-10	1.000000	2.32248e-10	1.000000
PAH10+CH3	1.62717e-10	1.000000	1.62717e-10	1.000000
rad60syn	9.92285e-11	1.000000	9.92285e-11	1.000000
PAH3+H	7.70956e-11	1.000000	7.70956e-11	1.000000
rad60anti	5.07758e-11	1.000000	5.07758e-11	1.000000
rad46	4.57748e-11	1.000000	4.57748e-11	1.000000
rad59	1.43338e-11	1.000000	1.43338e-11	1.000000
PhcycC3H3_B+H	6.32701e-12	1.000000	6.32701e-12	1.000000
rad54	5.90859e-12	1.000000	5.90859e-12	1.000000
Phenyl+cycC3H4	5.36584e-12	1.000000	0.000000	1.000000
rad43	4.80969e-12	1.000000	4.80969e-12	1.000000
rad62	1.07018e-12	1.000000	1.07018e-12	1.000000
rad50	8.00597e-13	1.000000	8.00597e-13	1.000000
rad70	2.35807e-13	1.000000	2.35807e-13	1.000000
PAH1+H	1.57377e-13	1.000000	1.57377e-13	1.000000
rad55	1.03709e-13	1.000000	1.03709e-13	1.000000
rad52	1.04176e-14	1.000000	1.04176e-14	1.000000
rad34	9.02825e-15	1.000000	9.02825e-15	1.000000
rad58	8.77577e-15	1.000000	8.77577e-15	1.000000
rad51	5.86071e-15	1.000000	5.86071e-15	1.000000
rad41	2.59126e-15	1.000000	2.59126e-15	1.000000
rad42	1.37914e-15	1.000000	1.37914e-15	1.000000
rad65	1.62088e-16	1.000000	1.62088e-16	1.000000
rad53	7.76876e-17	1.000000	7.76876e-17	1.000000
rad64	2.79837e-17	1.000000	2.79837e-17	1.000000
rad61	1.33318e-17	1.000000	1.33318e-17	1.000000
rad56	1.35816e-18	1.000000	1.35816e-18	1.000000
rad68syn	1.83484e-19	1.000000	1.83484e-19	1.000000
rad68anti	1.34481e-19	1.000000	1.34481e-19	1.000000
rad40syn	4.85494e-21	1.000000	4.85494e-21	1.000000

rad40anti	3.84148e-21	1.000000	3.84148e-21	1.000000
PAH8+H	1.38965e-21	1.000000	1.38965e-21	1.000000
rad73	2.01863e-22	1.000000	2.01863e-22	1.000000
rad71	3.38824e-24	1.000000	3.38824e-24	1.000000
rad19anti	1.34354e-28	1.000000	1.34354e-28	1.000000
rad6	4.67354e-30	1.000000	4.67354e-30	1.000000
rad2	1.71293e-31	1.000000	1.71293e-31	1.000000
rad10	1.36022e-32	1.000000	1.36022e-32	1.000000
rad1	1.28751e-32	1.000000	1.28751e-32	1.000000
rad47	2.37555e-33	1.000000	2.37555e-33	1.000000
rad3	1.24465e-33	1.000000	1.24465e-33	1.000000
rad4	6.58845e-34	1.000000	6.58845e-34	1.000000
rad7	3.49747e-34	1.000000	3.49747e-34	1.000000
rad26	2.83490e-34	1.000000	2.83490e-34	1.000000
rad28	1.03797e-34	1.000000	1.03797e-34	1.000000
rad31	1.01787e-34	1.000000	1.01787e-34	1.000000
rad11	7.83910e-35	1.000000	7.83910e-35	1.000000
rad13	2.01482e-36	1.000000	2.01482e-36	1.000000
rad19syn	6.95957e-37	1.000000	6.95957e-37	1.000000
rad9	4.28889e-37	1.000000	4.28889e-37	1.000000
rad14	3.42713e-37	1.000000	3.42713e-37	1.000000
rad25	2.53509e-37	1.000000	2.53509e-37	1.000000
rad27	6.71303e-38	1.000000	6.71303e-38	1.000000
rad23	4.34440e-39	1.000000	4.34440e-39	1.000000
rad33	3.27656e-39	1.000000	3.27656e-39	1.000000
rad15	1.93657e-40	1.000000	1.93657e-40	1.000000
rad45	1.88472e-40	1.000000	1.88472e-40	1.000000
rad5	2.18162e-41	1.000000	2.18162e-41	1.000000
rad36	1.22801e-41	1.000000	1.22801e-41	1.000000
rad12	2.77822e-42	1.000000	2.77822e-42	1.000000
rad21	6.16326e-43	1.000000	6.16326e-43	1.000000
rad20	6.09482e-43	1.000000	6.09482e-43	1.000000
rad22	1.19707e-45	1.000000	1.19707e-45	1.000000
rad18	6.58535e-46	1.000000	6.58535e-46	1.000000
rad24	4.34563e-47	1.000000	4.34563e-47	1.000000
rad8	3.73727e-63	1.000000	3.73727e-63	1.000000

0.100000000E-07 Pa, 300.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.34809e-14 (1.00)	5.34809e-14 (1.00)
Formation of rad19	5.34010e-14 (0.999)	5.34010e-14 (0.999)
H-abstraction to cyc2enyl	7.95823e-17 (0.00149)	7.95823e-17 (0.00149)
H-abstraction to cyc1enyl	3.44981e-19 (6.45e-06)	3.44981e-19 (6.45e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997939	0.997939	0.997939	0.997939
Benzene+cycloprop-2-enylidene	0.00148805	0.999427	0.00148805	0.999427
PhCHCCH2+H	0.000529814	0.999957	0.000529814	0.999957
PhCCH+CH3	1.04615e-05	0.999968	1.04615e-05	0.999968
C2H2+PhCH2	9.96265e-06	0.999978	9.96265e-06	0.999978
Benzene+cycloprop-1-enylidene	6.45054e-06	0.999984	6.45054e-06	0.999984
PhCCH3+H	6.36715e-06	0.999990	6.36715e-06	0.999990
Ph+MeAc	5.99826e-06	0.999996	5.99826e-06	0.999996
rad67	1.76909e-06	0.999998	1.76909e-06	0.999998
Ph+Allene	8.18996e-07	0.999999	8.18996e-07	0.999999
rad35	7.31807e-07	1.000000	7.31807e-07	1.000000
PhCH2CCH+H	1.62469e-07	1.000000	1.62469e-07	1.000000
PAH7+H	1.00667e-07	1.000000	1.00667e-07	1.000000
rad37	2.83206e-08	1.000000	2.83206e-08	1.000000
rad39	2.48351e-08	1.000000	2.48351e-08	1.000000
rad30	1.39398e-08	1.000000	1.39398e-08	1.000000
PAH9+H	1.67898e-09	1.000000	1.67898e-09	1.000000
rad38	7.72652e-10	1.000000	7.72652e-10	1.000000
PhcycC3H3_A+H	3.25290e-10	1.000000	3.25290e-10	1.000000
PAH10+CH3	2.37266e-10	1.000000	2.37266e-10	1.000000
rad60syn	1.06834e-10	1.000000	1.06834e-10	1.000000
PAH3+H	9.84715e-11	1.000000	9.84715e-11	1.000000
rad60anti	5.51572e-11	1.000000	5.51572e-11	1.000000
rad46	5.45644e-11	1.000000	5.45644e-11	1.000000
rad59	1.67258e-11	1.000000	1.67258e-11	1.000000
PhcycC3H3_B+H	1.05896e-11	1.000000	1.05896e-11	1.000000
Phenyl+cycC3H4	8.20984e-12	1.000000	0.000000	1.000000
rad54	7.66783e-12	1.000000	7.66783e-12	1.000000
rad43	5.65558e-12	1.000000	5.65558e-12	1.000000
rad62	1.25276e-12	1.000000	1.25276e-12	1.000000
rad50	1.03316e-12	1.000000	1.03316e-12	1.000000
rad70	3.13392e-13	1.000000	3.13392e-13	1.000000

PAH1+H	1.93779e-13	1.00000	1.93779e-13	1.00000
rad55	1.33843e-13	1.00000	1.33843e-13	1.00000
rad52	1.45721e-14	1.00000	1.45721e-14	1.00000
rad34	1.28521e-14	1.00000	1.28521e-14	1.00000
rad58	1.11204e-14	1.00000	1.11204e-14	1.00000
rad51	8.23952e-15	1.00000	8.23952e-15	1.00000
rad41	3.58185e-15	1.00000	3.58185e-15	1.00000
rad42	1.81926e-15	1.00000	1.81926e-15	1.00000
rad65	2.32648e-16	1.00000	2.32648e-16	1.00000
rad53	1.29481e-16	1.00000	1.29481e-16	1.00000
rad64	4.98973e-17	1.00000	4.98973e-17	1.00000
rad61	2.74862e-17	1.00000	2.74862e-17	1.00000
rad56	3.01521e-18	1.00000	3.01521e-18	1.00000
rad68syn	3.96643e-19	1.00000	3.96643e-19	1.00000
rad68anti	2.85688e-19	1.00000	2.85688e-19	1.00000
rad40syn	1.34588e-20	1.00000	1.34588e-20	1.00000
rad40anti	1.02810e-20	1.00000	1.02810e-20	1.00000
PAH8+H	5.53972e-21	1.00000	5.53972e-21	1.00000
rad73	6.54843e-22	1.00000	6.54843e-22	1.00000
rad71	2.13406e-23	1.00000	2.13406e-23	1.00000
rad19anti	1.46846e-24	1.00000	1.46846e-24	1.00000
rad2	5.77959e-27	1.00000	5.77959e-27	1.00000
rad6	2.79884e-27	1.00000	2.79884e-27	1.00000
rad1	4.35617e-28	1.00000	4.35617e-28	1.00000
rad10	4.05015e-28	1.00000	4.05015e-28	1.00000
rad3	2.20712e-28	1.00000	2.20712e-28	1.00000
rad4	1.09784e-28	1.00000	1.09784e-28	1.00000
rad26	8.96322e-29	1.00000	8.96322e-29	1.00000
rad9	3.55368e-29	1.00000	3.55368e-29	1.00000
rad28	1.16017e-29	1.00000	1.16017e-29	1.00000
rad72	4.67174e-30	1.00000	4.67174e-30	1.00000
rad23	1.46005e-30	1.00000	1.46005e-30	1.00000
rad31	9.66297e-31	1.00000	9.66297e-31	1.00000
rad7	2.40839e-31	1.00000	2.40839e-31	1.00000
rad19syn	1.12386e-31	1.00000	1.12386e-31	1.00000
rad45	1.00959e-31	1.00000	1.00959e-31	1.00000
rad11	5.63556e-32	1.00000	5.63556e-32	1.00000
rad25	3.61934e-32	1.00000	3.61934e-32	1.00000
rad14	2.58065e-32	1.00000	2.58065e-32	1.00000
rad15	2.04672e-32	1.00000	2.04672e-32	1.00000
rad47	1.77284e-32	1.00000	1.77284e-32	1.00000
rad27	1.45930e-32	1.00000	1.45930e-32	1.00000
rad36	3.44130e-33	1.00000	3.44130e-33	1.00000
rad13	1.43944e-33	1.00000	1.43944e-33	1.00000
rad12	9.82711e-34	1.00000	9.82711e-34	1.00000
rad33	1.27534e-34	1.00000	1.27534e-34	1.00000
rad5	5.71988e-35	1.00000	5.71988e-35	1.00000
rad21	1.07582e-35	1.00000	1.07582e-35	1.00000
rad20	6.32982e-36	1.00000	6.32982e-36	1.00000
rad22	1.79612e-37	1.00000	1.79612e-37	1.00000
rad18	1.20143e-37	1.00000	1.20143e-37	1.00000
rad24	4.91519e-39	1.00000	4.91519e-39	1.00000
rad8	3.04177e-49	1.00000	3.04177e-49	1.00000

0.100000000E-07 Pa, 310.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.92544e-14 (1.00)	5.92544e-14 (1.00)
Formation of rad19	5.91462e-14 (0.998)	5.91462e-14 (0.998)
H-abstraction to cyc2enyl	1.07628e-16 (0.00182)	1.07628e-16 (0.00182)
H-abstraction to cyclenyl	5.62537e-19 (9.49e-06)	5.62537e-19 (9.49e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997536	0.997536	0.997536	0.997536
Benzene+cycloprop-2-enylidene	0.00181637	0.999353	0.00181637	0.999353
PhCHCCH2+H	0.000599213	0.999952	0.000599213	0.999952
PhCCH+CH3	1.07899e-05	0.999963	1.07899e-05	0.999963
C2H2+PhCH2	9.94973e-06	0.999973	9.94973e-06	0.999973
Benzene+cycloprop-1-enylidene	9.49359e-06	0.999982	9.49359e-06	0.999982
PhCCCH3+H	6.92725e-06	0.999989	6.92725e-06	0.999989
Ph+MeAc	6.69436e-06	0.999996	6.69436e-06	0.999996
rad67	1.91404e-06	0.999998	1.91404e-06	0.999998
Ph+Allene	1.02854e-06	0.999999	1.02854e-06	0.999999
rad35	8.00939e-07	0.999999	8.00939e-07	0.999999
PhCH2CCH+H	1.75897e-07	1.000000	1.75897e-07	1.000000
PAH7+H	9.96917e-08	1.000000	9.96917e-08	1.000000
rad37	2.86985e-08	1.000000	2.86985e-08	1.000000
rad39	2.78945e-08	1.000000	2.78945e-08	1.000000

rad30	1.58794e-08	1.000000	1.58794e-08	1.000000
PAH9+H	1.63685e-09	1.000000	1.63685e-09	1.000000
rad38	8.60336e-10	1.000000	8.60336e-10	1.000000
PhcycC3H3_A+H	4.09102e-10	1.000000	4.09102e-10	1.000000
PAH10+CH3	2.45221e-10	1.000000	2.45221e-10	1.000000
rad60syn	1.25085e-10	1.000000	1.25085e-10	1.000000
PAH3+H	1.05828e-10	1.000000	1.05828e-10	1.000000
rad60anti	6.43937e-11	1.000000	6.43937e-11	1.000000
rad46	5.94068e-11	1.000000	5.94068e-11	1.000000
rad59	1.93817e-11	1.000000	1.93817e-11	1.000000
PhcycC3H3_B+H	1.41415e-11	1.000000	1.41415e-11	1.000000
Phenyl+cycC3H4	1.07882e-11	1.000000	0.00000	1.000000
rad54	8.89606e-12	1.000000	8.89606e-12	1.000000
rad43	6.83075e-12	1.000000	6.83075e-12	1.000000
rad62	1.51159e-12	1.000000	1.51159e-12	1.000000
rad50	1.17696e-12	1.000000	1.17696e-12	1.000000
rad70	3.87563e-13	1.000000	3.87563e-13	1.000000
PAH1+H	2.83537e-13	1.000000	2.83537e-13	1.000000
rad55	1.69858e-13	1.000000	1.69858e-13	1.000000
rad52	1.66060e-14	1.000000	1.66060e-14	1.000000
rad34	1.64058e-14	1.000000	1.64058e-14	1.000000
rad58	1.50872e-14	1.000000	1.50872e-14	1.000000
rad51	1.01582e-14	1.000000	1.01582e-14	1.000000
rad41	4.78440e-15	1.000000	4.78440e-15	1.000000
rad42	2.42635e-15	1.000000	2.42635e-15	1.000000
rad65	2.87409e-16	1.000000	2.87409e-16	1.000000
rad53	1.82136e-16	1.000000	1.82136e-16	1.000000
rad64	6.86553e-17	1.000000	6.86553e-17	1.000000
rad61	3.85257e-17	1.000000	3.85257e-17	1.000000
rad56	4.20810e-18	1.000000	4.20810e-18	1.000000
rad68syn	5.79184e-19	1.000000	5.79184e-19	1.000000
rad68anti	4.21603e-19	1.000000	4.21603e-19	1.000000
rad40syn	1.84909e-20	1.000000	1.84909e-20	1.000000
rad40anti	1.45861e-20	1.000000	1.45861e-20	1.000000
PAH8+H	5.99119e-21	1.000000	5.99119e-21	1.000000
rad73	7.86975e-22	1.000000	7.86975e-22	1.000000
rad71	1.54165e-23	1.000000	1.54165e-23	1.000000
rad19anti	1.86169e-27	1.000000	1.86169e-27	1.000000
rad6	6.68194e-29	1.000000	6.68194e-29	1.000000
rad2	2.88998e-30	1.000000	2.88998e-30	1.000000
rad1	2.24616e-31	1.000000	2.24616e-31	1.000000
rad10	1.17003e-31	1.000000	1.17003e-31	1.000000
rad3	1.30386e-32	1.000000	1.30386e-32	1.000000
rad4	6.96836e-33	1.000000	6.96836e-33	1.000000
rad7	4.98422e-33	1.000000	4.98422e-33	1.000000
rad47	3.77537e-33	1.000000	3.77537e-33	1.000000
rad11	1.08435e-33	1.000000	1.08435e-33	1.000000
rad31	1.07023e-33	1.000000	1.07023e-33	1.000000
rad26	5.25424e-34	1.000000	5.25424e-34	1.000000
rad28	4.20018e-34	1.000000	4.20018e-34	1.000000
rad13	2.89837e-35	1.000000	2.89837e-35	1.000000
rad19syn	1.62279e-35	1.000000	1.62279e-35	1.000000
rad9	1.57589e-36	1.000000	1.57589e-36	1.000000
rad14	3.95256e-37	1.000000	3.95256e-37	1.000000
rad25	3.08072e-37	1.000000	3.08072e-37	1.000000
rad23	1.70715e-37	1.000000	1.70715e-37	1.000000
rad27	8.55810e-38	1.000000	8.55810e-38	1.000000
rad33	4.46268e-38	1.000000	4.46268e-38	1.000000
rad45	1.17278e-38	1.000000	1.17278e-38	1.000000
rad36	7.77640e-40	1.000000	7.77640e-40	1.000000
rad15	7.15678e-40	1.000000	7.15678e-40	1.000000
rad5	2.10030e-41	1.000000	2.10030e-41	1.000000
rad12	1.33211e-41	1.000000	1.33211e-41	1.000000
rad21	1.30939e-42	1.000000	1.30939e-42	1.000000
rad20	1.26792e-42	1.000000	1.26792e-42	1.000000
rad22	2.98567e-44	1.000000	2.98567e-44	1.000000
rad18	1.26086e-45	1.000000	1.26086e-45	1.000000
rad24	1.45790e-46	1.000000	1.45790e-46	1.000000
rad8	1.69031e-62	1.000000	1.69031e-62	1.000000

0.100000000E-07 Pa, 400.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.29463e-13 (1.00)	1.29463e-13 (1.00)
Formation of rad19	1.28526e-13 (0.993)	1.28526e-13 (0.993)
H-abstraction to cyc2enyl	9.19357e-16 (0.00710)	9.19357e-16 (0.00710)
H-abstraction to cyclenyl	1.69485e-17 (0.000131)	1.69485e-17 (0.000131)
species	PYtrue	Cumul
		PYeffective
		Cumul

Indene+H	0.991683	0.991683	0.991683	0.991683
Benzene+cycloprop-2-enylidene	0.00710133	0.998784	0.00710133	0.998784
PhCHCCH2+H	0.00100586	0.999790	0.00100586	0.999790
Benzene+cycloprop-1-enylidene	0.000130914	0.999921	0.000130914	0.999921
C2H2+PhCH2	2.22468e-05	0.999943	2.22468e-05	0.999943
PhCCH+CH3	1.95098e-05	0.999963	1.95098e-05	0.999963
Ph+MeAc	1.45179e-05	0.999977	1.45179e-05	0.999977
PhCCCH3+H	1.31952e-05	0.999990	1.31952e-05	0.999990
rad67	4.22167e-06	0.999994	4.22167e-06	0.999994
Ph+Allene	2.97391e-06	0.999997	2.97391e-06	0.999997
rad35	1.68909e-06	0.999999	1.68909e-06	0.999999
PhCH2CCH+H	6.93048e-07	1.000000	6.93048e-07	1.000000
PAH7+H	2.89758e-07	1.000000	2.89758e-07	1.000000
rad37	8.82205e-08	1.000000	8.82205e-08	1.000000
rad39	7.05188e-08	1.000000	7.05188e-08	1.000000
rad30	3.41246e-08	1.000000	3.41246e-08	1.000000
PAH9+H	5.67069e-09	1.000000	5.67069e-09	1.000000
PhcycC3H3_A+H	4.88900e-09	1.000000	4.88900e-09	1.000000
rad38	3.07435e-09	1.000000	3.07435e-09	1.000000
PAH10+CH3	1.94150e-09	1.000000	1.94150e-09	1.000000
PAH3+H	5.34449e-10	1.000000	5.34449e-10	1.000000
PhcycC3H3_B+H	4.15151e-10	1.000000	4.15151e-10	1.000000
rad60syn	3.79130e-10	1.000000	3.79130e-10	1.000000
rad46	2.31290e-10	1.000000	2.31290e-10	1.000000
Phenyl+cycC3H4	2.22328e-10	1.000000	0.000000	1.000000
rad60anti	2.01850e-10	1.000000	2.01850e-10	1.000000
rad59	8.49299e-11	1.000000	8.49299e-11	1.000000
rad54	6.39706e-11	1.000000	6.39706e-11	1.000000
rad43	3.46932e-11	1.000000	3.46932e-11	1.000000
rad50	8.28672e-12	1.000000	8.28672e-12	1.000000
rad62	7.28467e-12	1.000000	7.28467e-12	1.000000
rad70	3.85328e-12	1.000000	3.85328e-12	1.000000
PAH1+H	3.61003e-12	1.000000	3.61003e-12	1.000000
rad55	1.60055e-12	1.000000	1.60055e-12	1.000000
rad34	2.43952e-13	1.000000	2.43952e-13	1.000000
rad52	1.72576e-13	1.000000	1.72576e-13	1.000000
rad58	1.69180e-13	1.000000	1.69180e-13	1.000000
rad51	1.42864e-13	1.000000	1.42864e-13	1.000000
rad41	6.83260e-14	1.000000	6.83260e-14	1.000000
rad42	2.71734e-14	1.000000	2.71734e-14	1.000000
rad53	6.88019e-15	1.000000	6.88019e-15	1.000000
rad65	4.39173e-15	1.000000	4.39173e-15	1.000000
rad61	3.43038e-15	1.000000	3.43038e-15	1.000000
rad64	3.05834e-15	1.000000	3.05834e-15	1.000000
rad56	5.30924e-16	1.000000	5.30924e-16	1.000000
rad68syn	7.48244e-17	1.000000	7.48244e-17	1.000000
rad68anti	5.24834e-17	1.000000	5.24834e-17	1.000000
rad40syn	6.39129e-18	1.000000	6.39129e-18	1.000000
PAH8+H	5.94551e-18	1.000000	5.94551e-18	1.000000
rad40anti	4.74371e-18	1.000000	4.74371e-18	1.000000
rad73	4.85676e-19	1.000000	4.85676e-19	1.000000
rad71	4.97335e-20	1.000000	4.97335e-20	1.000000
rad19anti	4.76696e-21	1.000000	4.76696e-21	1.000000
rad6	1.21137e-23	1.000000	1.21137e-23	1.000000
rad2	1.17484e-23	1.000000	1.17484e-23	1.000000
rad23	1.18418e-24	1.000000	1.18418e-24	1.000000
rad1	1.09623e-24	1.000000	1.09623e-24	1.000000
rad10	9.52716e-25	1.000000	9.52716e-25	1.000000
rad72	7.32148e-25	1.000000	7.32148e-25	1.000000
rad45	2.05149e-25	1.000000	2.05149e-25	1.000000
rad3	1.82173e-25	1.000000	1.82173e-25	1.000000
rad4	9.60546e-26	1.000000	9.60546e-26	1.000000
rad19syn	2.04434e-26	1.000000	2.04434e-26	1.000000
rad9	1.20993e-26	1.000000	1.20993e-26	1.000000
rad36	7.91425e-27	1.000000	7.91425e-27	1.000000
rad31	5.03677e-27	1.000000	5.03677e-27	1.000000
rad7	9.87474e-28	1.000000	9.87474e-28	1.000000
rad11	1.68547e-28	1.000000	1.68547e-28	1.000000
rad26	1.32147e-28	1.000000	1.32147e-28	1.000000
rad28	3.91302e-29	1.000000	3.91302e-29	1.000000
rad15	7.29213e-30	1.000000	7.29213e-30	1.000000
rad13	6.16354e-30	1.000000	6.16354e-30	1.000000
rad12	1.89512e-30	1.000000	1.89512e-30	1.000000
rad47	7.65193e-31	1.000000	7.65193e-31	1.000000
rad25	1.12730e-31	1.000000	1.12730e-31	1.000000
rad14	6.52419e-32	1.000000	6.52419e-32	1.000000
rad27	5.57589e-32	1.000000	5.57589e-32	1.000000
rad22	2.51133e-32	1.000000	2.51133e-32	1.000000
rad33	9.25929e-33	1.000000	9.25929e-33	1.000000

rad21	4.23866e-34	1.00000	4.23866e-34	1.00000
rad20	1.80285e-34	1.00000	1.80285e-34	1.00000
rad5	5.84372e-35	1.00000	5.84372e-35	1.00000
rad24	3.33640e-36	1.00000	3.33640e-36	1.00000
rad18	7.04047e-37	1.00000	7.04047e-37	1.00000
rad8	6.65008e-46	1.00000	6.65008e-46	1.00000

0.100000000E-07 Pa, 500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.52837e-13 (1.00)	2.52837e-13 (1.00)
Formation of rad19	2.47941e-13 (0.981)	2.47941e-13 (0.981)
H-abstraction to cyc2enyl	4.69058e-15 (0.0186)	4.69058e-15 (0.0186)
H-abstraction to cyclenyl	2.05381e-16 (0.000812)	2.05381e-16 (0.000812)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.978428	0.978428	0.978428	0.978428
Benzene+cycloprop-2-enylidene	0.0185518	0.996979	0.0185518	0.996979
PhCHCCH2+H	0.00202477	0.999004	0.00202477	0.999004
Benzene+cycloprop-1-enylidene	0.000812306	0.999816	0.000812306	0.999816
C2H2+PhCH2	5.13363e-05	0.999868	5.13363e-05	0.999868
PhCCH+CH3	3.71182e-05	0.999905	3.71182e-05	0.999905
Ph+MeAc	3.63101e-05	0.999941	3.63101e-05	0.999941
PhCCCH3+H	2.84449e-05	0.999970	2.84449e-05	0.999970
Ph+Allene	1.09470e-05	0.999981	1.09470e-05	0.999981
rad67	1.05822e-05	0.999991	1.05822e-05	0.999991
rad35	4.10935e-06	0.999995	4.10935e-06	0.999995
PhCH2CCH+H	2.95392e-06	0.999998	2.95392e-06	0.999998
PAH7+H	8.51564e-07	0.999999	8.51564e-07	0.999999
rad37	2.86678e-07	0.999999	2.86678e-07	0.999999
rad39	2.02118e-07	1.000000	2.02118e-07	1.000000
rad30	8.94923e-08	1.000000	8.94923e-08	1.000000
PhcycC3H3_A+H	5.02850e-08	1.000000	5.02850e-08	1.000000
PAH9+H	2.06879e-08	1.000000	2.06879e-08	1.000000
PAH10+CH3	1.44052e-08	1.000000	1.44052e-08	1.000000
rad38	1.31834e-08	1.000000	1.31834e-08	1.000000
PhcycC3H3_B+H	7.81107e-09	1.000000	7.81107e-09	1.000000
Phenyl+cycC3H4	3.55660e-09	1.000000	0.000000	1.000000
PAH3+H	2.97649e-09	1.000000	2.97649e-09	1.000000
rad60syn	1.43183e-09	1.000000	1.43183e-09	1.000000
rad46	1.04913e-09	1.000000	1.04913e-09	1.000000
rad60anti	7.84373e-10	1.000000	7.84373e-10	1.000000
rad54	4.68691e-10	1.000000	4.68691e-10	1.000000
rad59	4.42102e-10	1.000000	4.42102e-10	1.000000
rad43	1.96278e-10	1.000000	1.96278e-10	1.000000
rad50	6.65687e-11	1.000000	6.65687e-11	1.000000
PAH1+H	4.68911e-11	1.000000	4.68911e-11	1.000000
rad62	3.77646e-11	1.000000	3.77646e-11	1.000000
rad70	3.76454e-11	1.000000	3.76454e-11	1.000000
rad55	1.50995e-11	1.000000	1.50995e-11	1.000000
rad34	3.22092e-12	1.000000	3.22092e-12	1.000000
rad51	2.08196e-12	1.000000	2.08196e-12	1.000000
rad58	2.05092e-12	1.000000	2.05092e-12	1.000000
rad52	1.88540e-12	1.000000	1.88540e-12	1.000000
rad41	8.63972e-13	1.000000	8.63972e-13	1.000000
rad42	2.74850e-13	1.000000	2.74850e-13	1.000000
rad53	1.70507e-13	1.000000	1.70507e-13	1.000000
rad61	1.40668e-13	1.000000	1.40668e-13	1.000000
rad64	7.73135e-14	1.000000	7.73135e-14	1.000000
rad65	6.64224e-14	1.000000	6.64224e-14	1.000000
rad56	2.62115e-14	1.000000	2.62115e-14	1.000000
rad68syn	3.88259e-15	1.000000	3.88259e-15	1.000000
rad68anti	2.67414e-15	1.000000	2.67414e-15	1.000000
PAH8+H	8.47559e-16	1.000000	8.47559e-16	1.000000
rad40syn	5.55783e-16	1.000000	5.55783e-16	1.000000
rad40anti	4.06573e-16	1.000000	4.06573e-16	1.000000
rad73	6.83536e-17	1.000000	6.83536e-17	1.000000
rad71	1.35737e-17	1.000000	1.35737e-17	1.000000
rad19anti	6.68017e-19	1.000000	6.68017e-19	1.000000
rad2	7.51474e-21	1.000000	7.51474e-21	1.000000
rad23	7.22296e-21	1.000000	7.22296e-21	1.000000
rad45	2.03760e-21	1.000000	2.03760e-21	1.000000
rad72	1.99196e-21	1.000000	1.99196e-21	1.000000
rad6	1.29466e-21	1.000000	1.29466e-21	1.000000
rad1	9.09735e-22	1.000000	9.09735e-22	1.000000
rad10	3.93833e-22	1.000000	3.93833e-22	1.000000
rad19syn	1.45990e-22	1.000000	1.45990e-22	1.000000
rad3	1.35879e-22	1.000000	1.35879e-22	1.000000

rad36	1.14242e-22	1.000000	1.14242e-22	1.000000
rad4	7.81584e-23	1.000000	7.81584e-23	1.000000
rad9	1.91468e-23	1.000000	1.91468e-23	1.000000
rad31	1.77645e-24	1.000000	1.77645e-24	1.000000
rad7	1.02730e-25	1.000000	1.02730e-25	1.000000
rad12	1.85136e-26	1.000000	1.85136e-26	1.000000
rad11	1.61613e-26	1.000000	1.61613e-26	1.000000
rad15	1.22230e-26	1.000000	1.22230e-26	1.000000
rad26	6.47380e-27	1.000000	6.47380e-27	1.000000
rad28	3.48551e-27	1.000000	3.48551e-27	1.000000
rad13	7.04316e-28	1.000000	7.04316e-28	1.000000
rad47	5.02583e-29	1.000000	5.02583e-29	1.000000
rad22	4.75773e-29	1.000000	4.75773e-29	1.000000
rad33	8.66872e-31	1.000000	8.66872e-31	1.000000
rad25	7.42587e-31	1.000000	7.42587e-31	1.000000
rad27	5.20719e-31	1.000000	5.20719e-31	1.000000
rad14	3.33806e-31	1.000000	3.33806e-31	1.000000
rad21	6.83172e-32	1.000000	6.83172e-32	1.000000
rad20	1.96304e-32	1.000000	1.96304e-32	1.000000
rad24	1.38320e-32	1.000000	1.38320e-32	1.000000
rad5	7.46741e-35	1.000000	7.46741e-35	1.000000
rad18	1.57087e-35	1.000000	1.57087e-35	1.000000
rad8	1.56286e-41	1.000000	1.56286e-41	1.000000

0.100000000E-07 Pa, 600.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.35570e-13 (1.00)	4.35570e-13 (1.00)
Formation of rad19	4.18892e-13 (0.962)	4.18892e-13 (0.962)
H-abstraction to cyc2enyl	1.54751e-14 (0.0355)	1.54751e-14 (0.0355)
H-abstraction to cyclenyl	1.20343e-15 (0.00276)	1.20343e-15 (0.00276)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.957276	0.957276	0.957276	0.957276
Benzene+cycloprop-2-enylidene	0.0355285	0.992805	0.0355285	0.992805
PhCHCCH2+H	0.00402172	0.996826	0.00402172	0.996826
Benzene+cycloprop-1-enylidene	0.00276289	0.999589	0.00276289	0.999589
C2H2+PhCH2	0.000111945	0.999701	0.000111945	0.999701
Ph+MeAc	8.57420e-05	0.999787	8.57420e-05	0.999787
PhCCH+CH3	6.75064e-05	0.999854	6.75064e-05	0.999854
PhCCCH3+H	5.90383e-05	0.999913	5.90383e-05	0.999913
Ph+Allene	3.56628e-05	0.999949	3.56628e-05	0.999949
rad67	2.54029e-05	0.999975	2.54029e-05	0.999975
PhCH2CCH+H	1.09199e-05	0.999985	1.09199e-05	0.999985
rad35	9.63305e-06	0.999995	9.63305e-06	0.999995
PAH7+H	2.26706e-06	0.999997	2.26706e-06	0.999997
rad37	8.64904e-07	0.999998	8.64904e-07	0.999998
rad39	5.20249e-07	0.999999	5.20249e-07	0.999999
PhcycC3H3_A+H	3.56529e-07	0.999999	3.56529e-07	0.999999
rad30	2.27441e-07	0.999999	2.27441e-07	0.999999
PAH10+CH3	8.50920e-08	0.999999	8.50920e-08	0.999999
PhcycC3H3_B+H	8.43895e-08	0.999999	8.43895e-08	0.999999
PAH9+H	7.13070e-08	1.000000	7.13070e-08	1.000000
rad38	5.21311e-08	1.000000	5.21311e-08	1.000000
Phenyl+cycC3H4	3.58023e-08	1.000000	0.000000	1.000000
PAH3+H	1.45691e-08	1.000000	1.45691e-08	1.000000
rad60syn	5.03972e-09	1.000000	5.03972e-09	1.000000
rad46	4.37621e-09	1.000000	4.37621e-09	1.000000
rad60anti	2.82886e-09	1.000000	2.82886e-09	1.000000
rad54	2.63022e-09	1.000000	2.63022e-09	1.000000
rad59	2.03126e-09	1.000000	2.03126e-09	1.000000
rad43	9.14301e-10	1.000000	9.14301e-10	1.000000
rad50	4.49074e-10	1.000000	4.49074e-10	1.000000
PAH1+H	4.05905e-10	1.000000	4.05905e-10	1.000000
rad70	2.63826e-10	1.000000	2.63826e-10	1.000000
rad62	1.58022e-10	1.000000	1.58022e-10	1.000000
rad55	1.01573e-10	1.000000	1.01573e-10	1.000000
rad34	2.81348e-11	1.000000	2.81348e-11	1.000000
rad51	2.21630e-11	1.000000	2.21630e-11	1.000000
rad58	1.79744e-11	1.000000	1.79744e-11	1.000000
rad52	1.61050e-11	1.000000	1.61050e-11	1.000000
rad41	7.27827e-12	1.000000	7.27827e-12	1.000000
rad61	2.69080e-12	1.000000	2.69080e-12	1.000000
rad53	2.26526e-12	1.000000	2.26526e-12	1.000000
rad42	1.88131e-12	1.000000	1.88131e-12	1.000000
rad64	9.96176e-13	1.000000	9.96176e-13	1.000000
rad65	7.15322e-13	1.000000	7.15322e-13	1.000000
rad56	5.47638e-13	1.000000	5.47638e-13	1.000000

rad68syn	8.54715e-14	1.000000	8.54715e-14	1.000000
rad68anti	5.81389e-14	1.000000	5.81389e-14	1.000000
PAH8+H	3.69240e-14	1.000000	3.69240e-14	1.000000
rad40syn	1.73285e-14	1.000000	1.73285e-14	1.000000
rad40anti	1.26417e-14	1.000000	1.26417e-14	1.000000
rad73	3.37834e-15	1.000000	3.37834e-15	1.000000
rad71	1.04445e-15	1.000000	1.04445e-15	1.000000
rad19anti	4.93441e-18	1.000000	4.93441e-18	1.000000
rad72	6.43633e-19	1.000000	6.43633e-19	1.000000
rad23	4.11239e-19	1.000000	4.11239e-19	1.000000
rad2	3.50526e-19	1.000000	3.50526e-19	1.000000
rad45	1.27391e-19	1.000000	1.27391e-19	1.000000
rad1	5.90399e-20	1.000000	5.90399e-20	1.000000
rad9	4.20120e-20	1.000000	4.20120e-20	1.000000
rad19syn	1.52297e-20	1.000000	1.52297e-20	1.000000
rad36	1.40143e-20	1.000000	1.40143e-20	1.000000
rad10	9.86155e-21	1.000000	9.86155e-21	1.000000
rad6	9.30613e-21	1.000000	9.30614e-21	1.000000
rad3	6.78005e-21	1.000000	6.78005e-21	1.000000
rad4	4.58121e-21	1.000000	4.58121e-21	1.000000
rad12	1.38518e-22	1.000000	1.38518e-22	1.000000
rad31	3.24820e-23	1.000000	3.24820e-23	1.000000
rad15	2.53725e-23	1.000000	2.53725e-23	1.000000
rad7	8.02615e-25	1.000000	8.02615e-25	1.000000
rad11	1.41972e-25	1.000000	1.41972e-25	1.000000
rad26	9.86953e-26	1.000000	9.86953e-26	1.000000
rad28	5.97336e-26	1.000000	5.97336e-26	1.000000
rad13	6.28531e-27	1.000000	6.28531e-27	1.000000
rad22	2.03069e-27	1.000000	2.03069e-27	1.000000
rad47	1.30363e-27	1.000000	1.30363e-27	1.000000
rad24	9.86828e-29	1.000000	9.86828e-29	1.000000
rad21	3.64938e-29	1.000000	3.64938e-29	1.000000
rad33	3.50184e-29	1.000000	3.50184e-29	1.000000
rad25	1.21118e-29	1.000000	1.21118e-29	1.000000
rad27	1.07883e-29	1.000000	1.07883e-29	1.000000
rad20	7.10674e-30	1.000000	7.10674e-30	1.000000
rad14	3.70455e-30	1.000000	3.70455e-30	1.000000
rad18	8.55833e-34	1.000000	8.55833e-34	1.000000
rad5	1.31321e-34	1.000000	1.31321e-34	1.000000
rad8	2.39366e-36	1.000000	2.39366e-36	1.000000

0.100000000E-07 Pa, 700.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.91694e-13 (1.00)	6.91694e-13 (1.00)
Formation of rad19	6.47922e-13 (0.937)	6.47922e-13 (0.937)
H-abstraction to cyc2enyl	3.91858e-14 (0.0567)	3.91858e-14 (0.0567)
H-abstraction to cyclenyl	4.58543e-15 (0.00663)	4.58542e-15 (0.00663)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.928261	0.928261	0.928261	0.928261
Benzene+cycloprop-2-enylidene	0.0566520	0.984913	0.0566520	0.984913
PhCHCCH2+H	0.00759850	0.992512	0.00759851	0.992512
Benzene+cycloprop-1-enylidene	0.00662927	0.999141	0.00662927	0.999141
C2H2+PhCH2	0.000223367	0.999364	0.000223367	0.999364
Ph+MeAc	0.000184762	0.999549	0.000184762	0.999549
PhCCH+CH3	0.000114475	0.999663	0.000114475	0.999663
PhCCCH3+H	0.000114174	0.999778	0.000114174	0.999778
Ph+Allene	9.86533e-05	0.999876	9.86533e-05	0.999876
rad67	5.61617e-05	0.999932	5.61618e-05	0.999932
PhCH2CCH+H	3.37385e-05	0.999966	3.37385e-05	0.999966
rad35	2.09201e-05	0.999987	2.09202e-05	0.999987
PAH7+H	5.25052e-06	0.999992	5.25052e-06	0.999992
rad37	2.31770e-06	0.999995	2.31770e-06	0.999995
PhcycC3H3_A+H	1.84668e-06	0.999997	1.84668e-06	0.999997
rad39	1.15814e-06	0.999998	1.15814e-06	0.999998
PhcycC3H3_B+H	5.97889e-07	0.999998	5.97889e-07	0.999998
rad30	5.35177e-07	0.999999	5.35177e-07	0.999999
PAH10+CH3	3.93624e-07	0.999999	3.93624e-07	0.999999
Phenyl+cycC3H4	2.47273e-07	0.999999	0.00000	0.999999
PAH9+H	2.20558e-07	1.000000	2.20558e-07	0.999999
rad38	1.79348e-07	1.000000	1.79348e-07	1.000000
PAH3+H	5.98815e-08	1.000000	5.98815e-08	1.000000
rad46	1.59383e-08	1.000000	1.59383e-08	1.000000
rad60syn	1.57198e-08	1.000000	1.57198e-08	1.000000
rad54	1.11959e-08	1.000000	1.11959e-08	1.000000
rad60anti	9.00502e-09	1.000000	9.00502e-09	1.000000
rad59	7.88061e-09	1.000000	7.88061e-09	1.000000

rad43	3.45953e-09	1.000000	3.45953e-09	1.000000
PAH1+H	2.45995e-09	1.000000	2.45995e-09	1.000000
rad50	2.44563e-09	1.000000	2.44563e-09	1.000000
rad70	1.34938e-09	1.000000	1.34938e-09	1.000000
rad62	5.31170e-10	1.000000	5.31170e-10	1.000000
rad55	4.95201e-10	1.000000	4.95201e-10	1.000000
rad51	1.72653e-10	1.000000	1.72653e-10	1.000000
rad34	1.70511e-10	1.000000	1.70511e-10	1.000000
rad58	1.15481e-10	1.000000	1.15481e-10	1.000000
rad52	1.05442e-10	1.000000	1.05442e-10	1.000000
rad41	4.33848e-11	1.000000	4.33848e-11	1.000000
rad61	2.93831e-11	1.000000	2.93831e-11	1.000000
rad53	1.83949e-11	1.000000	1.83949e-11	1.000000
rad42	9.22818e-12	1.000000	9.22818e-12	1.000000
rad64	7.68987e-12	1.000000	7.68987e-12	1.000000
rad56	6.14022e-12	1.000000	6.14022e-12	1.000000
rad65	5.56200e-12	1.000000	5.56200e-12	1.000000
rad68syn	1.01762e-12	1.000000	1.01762e-12	1.000000
PAH8+H	7.27467e-13	1.000000	7.27467e-13	1.000000
rad68anti	6.85898e-13	1.000000	6.85898e-13	1.000000
rad40syn	2.67923e-13	1.000000	2.67923e-13	1.000000
rad40anti	1.96404e-13	1.000000	1.96404e-13	1.000000
rad73	8.03975e-14	1.000000	8.03975e-14	1.000000
rad71	3.42948e-14	1.000000	3.42948e-14	1.000000
rad72	5.61670e-17	1.000000	5.61671e-17	1.000000
rad9	3.02897e-17	1.000000	3.02897e-17	1.000000
rad19anti	6.95729e-18	1.000000	6.95729e-18	1.000000
rad23	1.96783e-18	1.000000	1.96783e-18	1.000000
rad2	1.60703e-18	1.000000	1.60703e-18	1.000000
rad45	6.05057e-19	1.000000	6.05058e-19	1.000000
rad1	4.20909e-19	1.000000	4.20909e-19	1.000000
rad12	1.17945e-19	1.000000	1.17945e-19	1.000000
rad19syn	8.87889e-20	1.000000	8.87889e-20	1.000000
rad36	8.73364e-20	1.000000	8.73364e-20	1.000000
rad10	3.91773e-20	1.000000	3.91773e-20	1.000000
rad3	2.43954e-20	1.000000	2.43954e-20	1.000000
rad4	1.99880e-20	1.000000	1.99880e-20	1.000000
rad6	1.91069e-20	1.000000	1.91069e-20	1.000000
rad15	1.20603e-20	1.000000	1.20603e-20	1.000000
rad31	9.71078e-23	1.000000	9.71078e-23	1.000000
rad7	1.92301e-24	1.000000	1.92301e-24	1.000000
rad11	4.03142e-25	1.000000	4.03143e-25	1.000000
rad26	3.26613e-25	1.000000	3.26613e-25	1.000000
rad28	2.02638e-25	1.000000	2.02639e-25	1.000000
rad24	2.00377e-25	1.000000	2.00377e-25	1.000000
rad21	3.05155e-26	1.000000	3.05155e-26	1.000000
rad13	1.94313e-26	1.000000	1.94313e-26	1.000000
rad47	1.29142e-26	1.000000	1.29142e-26	1.000000
rad22	1.02496e-26	1.000000	1.02496e-26	1.000000
rad33	9.19492e-27	1.000000	9.19492e-27	1.000000
rad20	4.79030e-27	1.000000	4.79030e-27	1.000000
rad25	4.89851e-28	1.000000	4.89850e-28	1.000000
rad27	4.80606e-28	1.000000	4.80606e-28	1.000000
rad14	8.71111e-29	1.000000	8.71112e-29	1.000000
rad8	5.34063e-31	1.000000	5.34063e-31	1.000000
rad18	3.22559e-32	1.000000	3.22559e-32	1.000000
rad5	3.56247e-34	1.000000	3.56247e-34	1.000000

0.100000000E-07 Pa, 800.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.03759e-12 (1.00)	1.03758e-12 (1.00)
Formation of rad19	9.41065e-13 (0.907)	9.41063e-13 (0.907)
H-abstraction to cyc2enyl	8.32953e-14 (0.0803)	8.32953e-14 (0.0803)
H-abstraction to cyclenyl	1.32261e-14 (0.0127)	1.32261e-14 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.891851	0.891851	0.891852	0.891852
Benzene+cycloprop-2-enylidene	0.0802780	0.972129	0.0802781	0.972130
PhCHCCH2+H	0.0134622	0.985591	0.0134623	0.985592
Benzene+cycloprop-1-enylidene	0.0127470	0.998338	0.0127470	0.998339
C2H2+PhCH2	0.000407098	0.998746	0.000407098	0.998747
Ph+MeAc	0.000361138	0.999107	0.000361137	0.999108
Ph+Allene	0.000232338	0.999339	0.000232338	0.999340
PhCCCH3+H	0.000203971	0.999543	0.000203971	0.999544
PhCCH+CH3	0.000180552	0.999724	0.000180553	0.999725
rad67	0.000113174	0.999837	0.000113174	0.999838
PhCH2CCH+H	8.77930e-05	0.999924	8.77932e-05	0.999925

rad35	4.16128e-05	0.999966	4.16129e-05	0.999967
PAH7+H	1.05800e-05	0.999977	1.05800e-05	0.999978
PhcycC3H3_A+H	7.41209e-06	0.999984	7.41210e-06	0.999985
rad37	5.46662e-06	0.999990	5.46663e-06	0.999991
PhcycC3H3_B+H	3.06124e-06	0.999993	3.06124e-06	0.999994
rad39	2.23427e-06	0.999995	2.23428e-06	0.999996
PAH10+CH3	1.45372e-06	0.999996	1.45373e-06	0.999997
Phenyl+cycC3H4	1.26413e-06	0.999998	0.00000	0.999997
rad30	1.14933e-06	0.999999	1.14933e-06	0.999998
PAH9+H	6.06281e-07	0.999999	6.06282e-07	0.999999
rad38	5.31254e-07	1.000000	5.31255e-07	1.000000
PAH3+H	2.06534e-07	1.000000	2.06535e-07	1.000000
rad46	5.03837e-08	1.000000	5.03838e-08	1.000000
rad60syn	4.30113e-08	1.000000	4.30113e-08	1.000000
rad54	3.72615e-08	1.000000	3.72615e-08	1.000000
rad59	2.58004e-08	1.000000	2.58004e-08	1.000000
rad60anti	2.50612e-08	1.000000	2.50612e-08	1.000000
PAH1+H	1.11102e-08	1.000000	1.11102e-08	1.000000
rad50	1.08530e-08	1.000000	1.08530e-08	1.000000
rad43	1.08255e-08	1.000000	1.08255e-08	1.000000
rad70	5.27763e-09	1.000000	5.27763e-09	1.000000
rad55	1.83174e-09	1.000000	1.83175e-09	1.000000
rad62	1.46956e-09	1.000000	1.46956e-09	1.000000
rad51	1.02140e-09	1.000000	1.02140e-09	1.000000
rad34	7.64053e-10	1.000000	7.64054e-10	1.000000
rad58	5.66064e-10	1.000000	5.66065e-10	1.000000
rad52	5.41768e-10	1.000000	5.41769e-10	1.000000
rad61	2.09071e-10	1.000000	2.09072e-10	1.000000
rad41	1.94594e-10	1.000000	1.94595e-10	1.000000
rad53	1.01501e-10	1.000000	1.01501e-10	1.000000
rad56	4.31932e-11	1.000000	4.31933e-11	1.000000
rad64	4.01362e-11	1.000000	4.01363e-11	1.000000
rad42	3.44813e-11	1.000000	3.44814e-11	1.000000
rad65	3.26029e-11	1.000000	3.26029e-11	1.000000
PAH8+H	8.11495e-12	1.000000	8.11497e-12	1.000000
rad68syn	7.66845e-12	1.000000	7.66845e-12	1.000000
rad68anti	5.13228e-12	1.000000	5.13229e-12	1.000000
rad40syn	2.48636e-12	1.000000	2.48636e-12	1.000000
rad40anti	1.83893e-12	1.000000	1.83893e-12	1.000000
rad73	1.11381e-12	1.000000	1.11381e-12	1.000000
rad71	6.08037e-13	1.000000	6.08038e-13	1.000000
rad9	2.69203e-15	1.000000	2.69204e-15	1.000000
rad72	2.02032e-15	1.000000	2.02032e-15	1.000000
rad12	6.62384e-18	1.000000	6.62385e-18	1.000000
rad19anti	6.02835e-18	1.000000	6.02835e-18	1.000000
rad23	3.45528e-18	1.000000	3.45529e-18	1.000000
rad2	2.42539e-18	1.000000	2.42539e-18	1.000000
rad45	1.34939e-18	1.000000	1.34939e-18	1.000000
rad1	7.51134e-19	1.000000	7.51135e-19	1.000000
rad15	6.14389e-19	1.000000	6.14390e-19	1.000000
rad36	1.67525e-19	1.000000	1.67526e-19	1.000000
rad19syn	1.44428e-19	1.000000	1.44428e-19	1.000000
rad10	5.53935e-20	1.000000	5.53936e-20	1.000000
rad3	3.24844e-20	1.000000	3.24845e-20	1.000000
rad4	2.69231e-20	1.000000	2.69231e-20	1.000000
rad6	2.41363e-20	1.000000	2.41364e-20	1.000000
rad31	1.51028e-22	1.000000	1.51028e-22	1.000000
rad24	4.04465e-23	1.000000	4.04465e-23	1.000000
rad21	1.34471e-23	1.000000	1.34471e-23	1.000000
rad7	2.86306e-24	1.000000	2.86306e-24	1.000000
rad33	2.36769e-24	1.000000	2.36769e-24	1.000000
rad20	2.16399e-24	1.000000	2.16399e-24	1.000000
rad11	6.66403e-25	1.000000	6.66403e-25	1.000000
rad26	4.50356e-25	1.000000	4.50357e-25	1.000000
rad28	2.77880e-25	1.000000	2.77881e-25	1.000000
rad13	1.93413e-25	1.000000	1.93413e-25	1.000000
rad47	8.53940e-26	1.000000	8.53940e-26	1.000000
rad27	3.72406e-26	1.000000	3.72406e-26	1.000000
rad25	3.67481e-26	1.000000	3.67482e-26	1.000000
rad8	2.39851e-26	1.000000	2.39851e-26	1.000000
rad22	1.99452e-26	1.000000	1.99452e-26	1.000000
rad14	3.83309e-27	1.000000	3.83309e-27	1.000000
rad18	4.91401e-30	1.000000	4.91402e-30	1.000000
rad5	1.73064e-33	1.000000	1.73064e-33	1.000000

0.100000000E-07 Pa, 900.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.49199e-12 (1.00)	1.49199e-12 (1.00)

Formation of rad19 | 1.30395e-12 (0.874) 1.30394e-12 (0.874)
H-abstraction to cyc2enyl | 1.56554e-13 (0.105) 1.56554e-13 (0.105)
H-abstraction to cyclenyl | 3.14892e-14 (0.0211) 3.14890e-14 (0.0211)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.848699	0.848699	0.848703	0.848703
Benzene+cycloprop-2-enylidene	0.104929	0.953628	0.104930	0.953634
PhCHCCH2+H	0.0222941	0.975922	0.0222941	0.975928
Benzene+cycloprop-1-enylidene	0.0211054	0.997028	0.0211054	0.997033
C2H2+PhCH2	0.000683868	0.997712	0.000683871	0.997717
Ph+MeAc	0.000643403	0.998355	0.000643406	0.998360
Ph+Allene	0.000474185	0.998829	0.000474187	0.998835
PhCCCH3+H	0.000337156	0.999166	0.000337157	0.999172
PhCCH+CH3	0.000266833	0.999433	0.000266834	0.999439
rad67	0.000208252	0.999641	0.000208253	0.999647
PhCH2CCH+H	0.000196562	0.999838	0.000196563	0.999843
rad35	7.58728e-05	0.999914	7.58733e-05	0.999919
PhcycC3H3_A+H	2.42103e-05	0.999938	2.42105e-05	0.999943
PAH7+H	1.88375e-05	0.999957	1.88376e-05	0.999962
PhcycC3H3_B+H	1.21561e-05	0.999969	1.21561e-05	0.999974
rad37	1.14050e-05	0.999980	1.14050e-05	0.999986
Phenyl+cycC3H4	5.07995e-06	0.999986	0.00000	0.999986
PAH10+CH3	4.40461e-06	0.999990	4.40463e-06	0.999990
rad39	3.79886e-06	0.999994	3.79888e-06	0.999994
rad30	2.25163e-06	0.999996	2.25165e-06	0.999996
PAH9+H	1.48864e-06	0.999997	1.48865e-06	0.999998
rad38	1.36505e-06	0.999999	1.36505e-06	0.999999
PAH3+H	6.06186e-07	0.999999	6.06189e-07	1.000000
rad46	1.39482e-07	1.000000	1.39483e-07	1.000000
rad60syn	1.03783e-07	1.000000	1.03784e-07	1.000000
rad54	1.00666e-07	1.000000	1.00667e-07	1.000000
rad59	7.22570e-08	1.000000	7.22573e-08	1.000000
rad60anti	6.13421e-08	1.000000	6.13425e-08	1.000000
rad50	4.00788e-08	1.000000	4.00791e-08	1.000000
PAH1+H	3.94732e-08	1.000000	3.94734e-08	1.000000
rad43	2.87031e-08	1.000000	2.87033e-08	1.000000
rad70	1.65408e-08	1.000000	1.65408e-08	1.000000
rad55	5.38699e-09	1.000000	5.38702e-09	1.000000
rad51	4.77134e-09	1.000000	4.77137e-09	1.000000
rad62	3.44637e-09	1.000000	3.44638e-09	1.000000
rad34	2.67892e-09	1.000000	2.67894e-09	1.000000
rad52	2.25237e-09	1.000000	2.25238e-09	1.000000
rad58	2.20457e-09	1.000000	2.20458e-09	1.000000
rad61	1.06256e-09	1.000000	1.06257e-09	1.000000
rad41	6.91191e-10	1.000000	6.91194e-10	1.000000
rad53	4.12665e-10	1.000000	4.12668e-10	1.000000
rad56	2.12371e-10	1.000000	2.12372e-10	1.000000
rad64	1.54860e-10	1.000000	1.54860e-10	1.000000
rad65	1.50319e-10	1.000000	1.50320e-10	1.000000
rad42	1.03376e-10	1.000000	1.03377e-10	1.000000
PAH8+H	5.91171e-11	1.000000	5.91174e-11	1.000000
rad68syn	4.07131e-11	1.000000	4.07134e-11	1.000000
rad68anti	2.70946e-11	1.000000	2.70946e-11	1.000000
rad40syn	1.56733e-11	1.000000	1.56733e-11	1.000000
rad40anti	1.17159e-11	1.000000	1.17159e-11	1.000000
rad73	1.01666e-11	1.000000	1.01667e-11	1.000000
rad71	6.75145e-12	1.000000	6.75148e-12	1.000000
rad72	3.83062e-14	1.000000	3.83064e-14	1.000000
rad9	2.37338e-14	1.000000	2.37340e-14	1.000000
rad12	4.04546e-17	1.000000	4.04549e-17	1.000000
rad19anti	4.57501e-18	1.000000	4.57503e-18	1.000000
rad23	3.88243e-18	1.000000	3.88245e-18	1.000000
rad15	3.75605e-18	1.000000	3.75607e-18	1.000000
rad2	2.39696e-18	1.000000	2.39698e-18	1.000000
rad45	1.86240e-18	1.000000	1.86241e-18	1.000000
rad1	7.33691e-19	1.000000	7.33695e-19	1.000000
rad36	2.09175e-19	1.000000	2.09176e-19	1.000000
rad19syn	1.51735e-19	1.000000	1.51736e-19	1.000000
rad10	4.74719e-20	1.000000	4.74721e-20	1.000000
rad3	2.75013e-20	1.000000	2.75015e-20	1.000000
rad6	2.29437e-20	1.000000	2.29438e-20	1.000000
rad4	2.28018e-20	1.000000	2.28020e-20	1.000000
rad21	1.24312e-21	1.000000	1.24313e-21	1.000000
rad24	8.13232e-22	1.000000	8.13237e-22	1.000000
rad20	2.39352e-22	1.000000	2.39354e-22	1.000000
rad31	1.88477e-22	1.000000	1.88478e-22	1.000000
rad33	1.64389e-22	1.000000	1.64390e-22	1.000000
rad8	5.47269e-23	1.000000	5.47271e-23	1.000000
rad13	3.44445e-23	1.000000	3.44448e-23	1.000000

rad7	3.21546e-24	1.00000	3.21547e-24	1.00000
rad25	2.46143e-24	1.00000	2.46143e-24	1.00000
rad27	2.21049e-24	1.00000	2.21051e-24	1.00000
rad11	1.71468e-24	1.00000	1.71470e-24	1.00000
rad47	4.17543e-25	1.00000	4.17545e-25	1.00000
rad26	3.61785e-25	1.00000	3.61786e-25	1.00000
rad28	2.21387e-25	1.00000	2.21387e-25	1.00000
rad14	1.65926e-25	1.00000	1.65927e-25	1.00000
rad22	2.48868e-26	1.00000	2.48869e-26	1.00000
rad18	1.59449e-27	1.00000	1.59450e-27	1.00000
rad5	1.52782e-32	1.00000	1.52783e-32	1.00000

0.100000000E-07 Pa, 1000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.07591e-12 (1.00)	2.07587e-12 (1.00)
Formation of rad19	1.74189e-12 (0.839)	1.74186e-12 (0.839)
H-abstraction to cyc2enyl	2.68753e-13 (0.129)	2.68753e-13 (0.129)
H-abstraction to cyc1enyl	6.52627e-14 (0.0314)	6.52614e-14 (0.0314)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.799582	0.799582	0.799596	0.799596
Benzene+cycloprop-2-enylidene	0.129463	0.929045	0.129465	0.929061
PhCHCCH2+H	0.0345727	0.963618	0.0345733	0.963635
Benzene+cycloprop-1-enylidene	0.0314382	0.995056	0.0314381	0.995073
C2H2+PhCH2	0.00107013	0.996126	0.00107014	0.996143
Ph+MeAc	0.00105356	0.997180	0.00105357	0.997197
Ph+Allene	0.000856132	0.998036	0.000856147	0.998053
PhCCCH3+H	0.000518388	0.998554	0.000518396	0.998571
PhCH2CCH+H	0.000387329	0.998942	0.000387336	0.998958
PhCCH+CH3	0.000373412	0.999315	0.000373419	0.999332
rad67	0.000352154	0.999667	0.000352160	0.999684
rad35	0.000127506	0.999795	0.000127508	0.999812
PhcycC3H3_A+H	6.68787e-05	0.999862	6.68799e-05	0.999878
PhcycC3H3_B+H	3.94287e-05	0.999901	3.94293e-05	0.999918
PAH7+H	3.02070e-05	0.999931	3.02075e-05	0.999948
rad37	2.12565e-05	0.999953	2.12568e-05	0.999969
Phenyl+cycC3H4	1.68078e-05	0.999969	0.000000	0.999969
PAH10+CH3	1.12446e-05	0.999981	1.12447e-05	0.999981
rad39	5.81024e-06	0.999986	5.81034e-06	0.999986
rad30	4.04406e-06	0.999990	4.04413e-06	0.999990
PAH9+H	3.29361e-06	0.999994	3.29367e-06	0.999994
rad38	3.08261e-06	0.999997	3.08266e-06	0.999997
PAH3+H	1.54070e-06	0.999998	1.54073e-06	0.999998
rad46	3.42239e-07	0.999999	3.42245e-07	0.999999
rad54	2.28520e-07	0.999999	2.28524e-07	0.999999
rad60syn	2.23169e-07	0.999999	2.23173e-07	0.999999
rad59	1.76070e-07	0.999999	1.76073e-07	0.999999
rad60anti	1.33518e-07	1.000000	1.33520e-07	0.999999
rad50	1.25826e-07	1.000000	1.25828e-07	1.000000
PAH1+H	1.15144e-07	1.000000	1.15145e-07	1.000000
rad43	6.59875e-08	1.000000	6.59887e-08	1.000000
rad70	4.32135e-08	1.000000	4.32143e-08	1.000000
rad51	1.82048e-08	1.000000	1.82051e-08	1.000000
rad55	1.31137e-08	1.000000	1.31139e-08	1.000000
rad52	7.79283e-09	1.000000	7.79297e-09	1.000000
rad34	7.69222e-09	1.000000	7.69236e-09	1.000000
rad58	7.06658e-09	1.000000	7.06670e-09	1.000000
rad62	7.03940e-09	1.000000	7.03953e-09	1.000000
rad61	4.12272e-09	1.000000	4.12278e-09	1.000000
rad41	2.02447e-09	1.000000	2.02451e-09	1.000000
rad53	1.31432e-09	1.000000	1.31434e-09	1.000000
rad56	7.88428e-10	1.000000	7.88442e-10	1.000000
rad65	5.65099e-10	1.000000	5.65110e-10	1.000000
rad64	4.71855e-10	1.000000	4.71863e-10	1.000000
PAH8+H	3.09749e-10	1.000000	3.09755e-10	1.000000
rad42	2.59222e-10	1.000000	2.59226e-10	1.000000
rad68syn	1.64237e-10	1.000000	1.64240e-10	1.000000
rad68anti	1.08793e-10	1.000000	1.08795e-10	1.000000
rad40syn	7.30616e-11	1.000000	7.30628e-11	1.000000
rad73	6.65983e-11	1.000000	6.65995e-11	1.000000
rad40anti	5.52183e-11	1.000000	5.52193e-11	1.000000
rad71	5.18856e-11	1.000000	5.18865e-11	1.000000
rad72	4.47183e-13	1.000000	4.47191e-13	1.000000
rad9	4.34379e-14	1.000000	4.34386e-14	1.000000
rad12	7.27750e-17	1.000000	7.27764e-17	1.000000
rad15	5.72150e-18	1.000000	5.72161e-18	1.000000
rad23	3.88833e-18	1.000000	3.88840e-18	1.000000

rad19anti	3.42048e-18	1.000000	3.42054e-18	1.000000
rad45	2.12354e-18	1.000000	2.12358e-18	1.000000
rad2	2.01878e-18	1.000000	2.01882e-18	1.000000
rad1	6.07085e-19	1.000000	6.07096e-19	1.000000
rad36	2.26288e-19	1.000000	2.26292e-19	1.000000
rad19syn	1.42443e-19	1.000000	1.42446e-19	1.000000
rad10	4.02840e-20	1.000000	4.02847e-20	1.000000
rad6	2.25672e-20	1.000000	2.25677e-20	1.000000
rad21	2.11576e-20	1.000000	2.11580e-20	1.000000
rad3	2.07171e-20	1.000000	2.07175e-20	1.000000
rad4	1.71402e-20	1.000000	1.71405e-20	1.000000
rad8	6.27706e-21	1.000000	6.27717e-21	1.000000
rad20	4.93245e-21	1.000000	4.93254e-21	1.000000
rad24	3.61522e-21	1.000000	3.61528e-21	1.000000
rad33	2.31462e-21	1.000000	2.31466e-21	1.000000
rad13	2.20293e-21	1.000000	2.20296e-21	1.000000
rad31	2.18570e-22	1.000000	2.18575e-22	1.000000
rad11	1.06831e-22	1.000000	1.06833e-22	1.000000
rad25	7.69190e-23	1.000000	7.69203e-23	1.000000
rad27	5.63063e-23	1.000000	5.63073e-23	1.000000
rad7	5.75868e-24	1.000000	5.75879e-24	1.000000
rad14	4.01739e-24	1.000000	4.01746e-24	1.000000
rad47	1.62908e-24	1.000000	1.62911e-24	1.000000
rad18	4.29913e-25	1.000000	4.29920e-25	1.000000
rad26	2.74389e-25	1.000000	2.74395e-25	1.000000
rad28	1.58956e-25	1.000000	1.58958e-25	1.000000
rad22	2.89416e-26	1.000000	2.89421e-26	1.000000
rad5	2.65447e-31	1.000000	2.65452e-31	1.000000

0.100000000E-07 Pa, 1100.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.81236e-12 (1.00)	2.81222e-12 (1.00)
Formation of rad19	2.25993e-12 (0.804)	2.25980e-12 (0.804)
H-abstraction to cyc2enyl	4.30538e-13 (0.153)	4.30538e-13 (0.153)
H-abstraction to cyc1enyl	1.21896e-13 (0.0433)	1.21889e-13 (0.0433)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.745455	0.745455	0.745493	0.745493
Benzene+cycloprop-2-enylidene	0.153088	0.898543	0.153095	0.898588
PhCHCCH2+H	0.0504085	0.948951	0.0504110	0.948999
Benzene+cycloprop-1-enylidene	0.0433429	0.992294	0.0433425	0.992342
Ph+MeAc	0.00159989	0.993894	0.00159997	0.993942
C2H2+PhCH2	0.00157393	0.995468	0.00157401	0.995516
Ph+Allene	0.00139377	0.996862	0.00139384	0.996909
PhCCCH3+H	0.000746146	0.997608	0.000746184	0.997656
PhCH2CCH+H	0.000685299	0.998293	0.000685333	0.998341
rad67	0.000551509	0.998845	0.000551537	0.998892
PhCCH+CH3	0.000499927	0.999345	0.000499952	0.999392
rad35	0.000198904	0.999544	0.000198914	0.999591
PhcycC3H3_A+H	0.000160985	0.999705	0.000160994	0.999752
PhcycC3H3_B+H	0.000108569	0.999813	0.000108575	0.999861
Phenyl+cycC3H4	4.74535e-05	0.999861	0.00000	0.999861
PAH7+H	4.44306e-05	0.999905	4.44328e-05	0.999905
rad37	3.57976e-05	0.999941	3.57993e-05	0.999941
PAH10+CH3	2.47740e-05	0.999966	2.47753e-05	0.999966
rad39	8.15502e-06	0.999974	8.15543e-06	0.999974
rad30	6.70503e-06	0.999981	6.70536e-06	0.999981
PAH9+H	6.62670e-06	0.999987	6.62703e-06	0.999987
rad38	6.20641e-06	0.999993	6.20672e-06	0.999994
PAH3+H	3.44988e-06	0.999997	3.45006e-06	0.999997
rad46	7.53032e-07	0.999998	7.53070e-07	0.999998
rad54	4.48842e-07	0.999998	4.48864e-07	0.999998
rad60syn	4.32688e-07	0.999998	4.32709e-07	0.999999
rad59	3.79560e-07	0.999999	3.79579e-07	0.999999
rad50	3.42341e-07	0.999999	3.42358e-07	0.999999
PAH1+H	2.85109e-07	0.999999	2.85123e-07	1.000000
rad60anti	2.61576e-07	1.000000	2.61589e-07	1.000000
rad43	1.34197e-07	1.000000	1.34204e-07	1.000000
rad70	9.71315e-08	1.000000	9.71362e-08	1.000000
rad51	5.83466e-08	1.000000	5.83495e-08	1.000000
rad55	2.73128e-08	1.000000	2.73142e-08	1.000000
rad52	2.29834e-08	1.000000	2.29845e-08	1.000000
rad58	1.92024e-08	1.000000	1.92034e-08	1.000000
rad34	1.87451e-08	1.000000	1.87461e-08	1.000000
rad61	1.28390e-08	1.000000	1.28397e-08	1.000000
rad62	1.28154e-08	1.000000	1.28161e-08	1.000000
rad41	5.04814e-09	1.000000	5.04840e-09	1.000000

rad53	3.43664e-09	1.00000	3.43682e-09	1.00000
rad56	2.33966e-09	1.00000	2.33978e-09	1.00000
rad65	1.78385e-09	1.00000	1.78394e-09	1.00000
PAH8+H	1.24981e-09	1.00000	1.24987e-09	1.00000
rad64	1.19311e-09	1.00000	1.19317e-09	1.00000
rad42	5.61778e-10	1.00000	5.61806e-10	1.00000
rad68syn	5.31777e-10	1.00000	5.31804e-10	1.00000
rad68anti	3.50889e-10	1.00000	3.50907e-10	1.00000
rad73	3.32910e-10	1.00000	3.32927e-10	1.00000
rad71	2.96145e-10	1.00000	2.96160e-10	1.00000
rad40syn	2.67659e-10	1.00000	2.67672e-10	1.00000
rad40anti	2.04456e-10	1.00000	2.04466e-10	1.00000
rad72	3.56687e-12	1.00000	3.56704e-12	1.00000
rad9	4.00236e-14	1.00000	4.00257e-14	1.00000
rad12	7.93739e-17	1.00000	7.93778e-17	1.00000
rad15	4.80946e-18	1.00000	4.80970e-18	1.00000
rad23	3.69802e-18	1.00000	3.69820e-18	1.00000
rad19anti	2.56276e-18	1.00000	2.56289e-18	1.00000
rad45	2.19640e-18	1.00000	2.19651e-18	1.00000
rad2	1.59802e-18	1.00000	1.59810e-18	1.00000
rad1	4.72398e-19	1.00000	4.72422e-19	1.00000
rad36	2.28909e-19	1.00000	2.28920e-19	1.00000
rad19syn	1.28391e-19	1.00000	1.28398e-19	1.00000
rad21	9.63737e-20	1.00000	9.63784e-20	1.00000
rad8	7.65078e-20	1.00000	7.65117e-20	1.00000
rad6	3.62741e-20	1.00000	3.62759e-20	1.00000
rad10	3.23307e-20	1.00000	3.23323e-20	1.00000
rad13	3.15540e-20	1.00000	3.15556e-20	1.00000
rad20	2.48655e-20	1.00000	2.48667e-20	1.00000
rad3	1.49960e-20	1.00000	1.49967e-20	1.00000
rad4	1.23488e-20	1.00000	1.23495e-20	1.00000
rad33	8.69060e-21	1.00000	8.69109e-21	1.00000
rad24	7.72326e-21	1.00000	7.72364e-21	1.00000
rad11	5.52949e-21	1.00000	5.52977e-21	1.00000
rad25	7.88055e-22	1.00000	7.88094e-22	1.00000
rad27	4.73302e-22	1.00000	4.73325e-22	1.00000
rad31	2.41068e-22	1.00000	2.41079e-22	1.00000
rad7	1.91695e-22	1.00000	1.91705e-22	1.00000
rad18	4.94611e-23	1.00000	4.94635e-23	1.00000
rad14	3.73375e-23	1.00000	3.73394e-23	1.00000
rad47	5.24230e-24	1.00000	5.24256e-24	1.00000
rad26	4.29542e-25	1.00000	4.29563e-25	1.00000
rad28	1.22083e-25	1.00000	1.22089e-25	1.00000
rad22	3.28995e-26	1.00000	3.29011e-26	1.00000
rad5	8.55094e-30	1.00000	8.55135e-30	1.00000

0.100000000E-07 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	3.72623e-12 (1.00)	3.72576e-12 (1.00)		
Formation of rad19	2.86288e-12 (0.768)	2.86245e-12 (0.768)		
H-abstraction to cyc2enyl	6.53266e-13 (0.175)	6.53266e-13 (0.175)		
H-abstraction to cyclenyl	2.10085e-13 (0.0564)	2.10053e-13 (0.0564)		

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.687506	0.687506	0.687593	0.687593
Benzene+cycloprop-2-enylidene	0.175315	0.862821	0.175337	0.862930
PhCHCCH2+H	0.0694470	0.932268	0.0694557	0.932386
Benzene+cycloprop-1-enylidene	0.0563801	0.988648	0.0563786	0.988764
Ph+MeAc	0.00227272	0.990921	0.00227301	0.991037
C2H2+PhCH2	0.00219121	0.993112	0.00219148	0.993229
Ph+Allene	0.00207994	0.995192	0.00208020	0.995309
PhCH2CCH+H	0.00110691	0.996299	0.00110706	0.996416
PhCCCH3+H	0.00101200	0.997311	0.00101213	0.997428
rad67	0.000806305	0.998117	0.000806406	0.998235
PhCCH+CH3	0.000645716	0.998763	0.000645798	0.998880
PhcycC3H3_A+H	0.000345598	0.999109	0.000345641	0.999226
rad35	0.000290169	0.999399	0.000290206	0.999516
PhcycC3H3_B+H	0.000261273	0.999660	0.000261306	0.999778
Phenyl+cycC3H4	0.000117514	0.999778	0.000000	0.999778
PAH7+H	6.09151e-05	0.999838	6.09229e-05	0.999839
rad37	5.50993e-05	0.999894	5.51063e-05	0.999894
PAH10+CH3	4.81021e-05	0.999942	4.81082e-05	0.999942
PAH9+H	1.22285e-05	0.999954	1.22300e-05	0.999954
rad38	1.12958e-05	0.999965	1.12972e-05	0.999965
rad39	1.06983e-05	0.999976	1.06996e-05	0.999976
rad30	1.03391e-05	0.999986	1.03403e-05	0.999986
PAH3+H	6.91379e-06	0.999993	6.91466e-06	0.999993

rad46	1.50176e-06	0.999995	1.50195e-06	0.999995
rad50	8.20642e-07	0.999995	8.20743e-07	0.999996
rad54	7.81497e-07	0.999996	7.81598e-07	0.999996
rad60syn	7.65102e-07	0.999997	7.65199e-07	0.999997
rad59	7.35018e-07	0.999998	7.35111e-07	0.999998
PAH1+H	6.15259e-07	0.999998	6.15337e-07	0.999998
rad60anti	4.66711e-07	0.999999	4.66769e-07	0.999999
rad43	2.45550e-07	0.999999	2.45581e-07	0.999999
rad70	1.92605e-07	0.999999	1.92629e-07	0.999999
rad51	1.60721e-07	0.999999	1.60741e-07	1.000000
rad52	5.89508e-08	1.000000	5.89583e-08	1.000000
rad55	4.99974e-08	1.000000	5.00038e-08	1.000000
rad58	4.53331e-08	1.000000	4.53389e-08	1.000000
rad34	3.98655e-08	1.000000	3.98705e-08	1.000000
rad61	3.33579e-08	1.000000	3.33621e-08	1.000000
rad62	2.11968e-08	1.000000	2.11994e-08	1.000000
rad41	1.09917e-08	1.000000	1.09931e-08	1.000000
rad53	7.65059e-09	1.000000	7.65156e-09	1.000000
rad56	5.79402e-09	1.000000	5.79474e-09	1.000000
rad65	4.84114e-09	1.000000	4.84175e-09	1.000000
PAH8+H	4.08163e-09	1.000000	4.08215e-09	1.000000
rad64	2.59994e-09	1.000000	2.60027e-09	1.000000
rad68syn	1.43965e-09	1.000000	1.43983e-09	1.000000
rad73	1.32831e-09	1.000000	1.32847e-09	1.000000
rad71	1.32075e-09	1.000000	1.32091e-09	1.000000
rad42	1.07985e-09	1.000000	1.07999e-09	1.000000
rad68anti	9.46805e-10	1.000000	9.46926e-10	1.000000
rad40syn	8.05959e-10	1.000000	8.06061e-10	1.000000
rad40anti	6.21769e-10	1.000000	6.21848e-10	1.000000
rad72	2.08613e-11	1.000000	2.08640e-11	1.000000
rad9	2.91881e-14	1.000000	2.91918e-14	1.000000
rad12	7.13600e-17	1.000000	7.13690e-17	1.000000
rad15	3.78825e-18	1.000000	3.78873e-18	1.000000
rad23	3.40131e-18	1.000000	3.40174e-18	1.000000
rad45	2.14280e-18	1.000000	2.14307e-18	1.000000
rad19anti	1.93811e-18	1.000000	1.93836e-18	1.000000
rad2	1.22097e-18	1.000000	1.22113e-18	1.000000
rad1	3.58439e-19	1.000000	3.58484e-19	1.000000
rad8	2.53541e-19	1.000000	2.53574e-19	1.000000
rad36	2.22523e-19	1.000000	2.22552e-19	1.000000
rad21	2.06285e-19	1.000000	2.06311e-19	1.000000
rad13	1.26206e-19	1.000000	1.26222e-19	1.000000
rad19syn	1.13955e-19	1.000000	1.13970e-19	1.000000
rad11	9.72520e-20	1.000000	9.72648e-20	1.000000
rad6	8.05137e-20	1.000000	8.05239e-20	1.000000
rad20	5.30461e-20	1.000000	5.30528e-20	1.000000
rad10	3.08205e-20	1.000000	3.08243e-20	1.000000
rad33	1.49700e-20	1.000000	1.49719e-20	1.000000
rad24	1.18501e-20	1.000000	1.18516e-20	1.000000
rad3	1.06596e-20	1.000000	1.06609e-20	1.000000
rad4	8.73294e-21	1.000000	8.73401e-21	1.000000
rad7	6.82913e-21	1.000000	6.82999e-21	1.000000
rad25	2.92600e-21	1.000000	2.92637e-21	1.000000
rad18	1.64154e-21	1.000000	1.64175e-21	1.000000
rad27	1.52386e-21	1.000000	1.52405e-21	1.000000
rad31	2.55729e-22	1.000000	2.55762e-22	1.000000
rad14	1.32731e-22	1.000000	1.32747e-22	1.000000
rad47	1.43379e-23	1.000000	1.43397e-23	1.000000
rad26	5.33362e-24	1.000000	5.33429e-24	1.000000
rad28	1.76749e-25	1.000000	1.76771e-25	1.000000
rad22	3.70430e-26	1.000000	3.70477e-26	1.000000
rad5	4.22591e-28	1.000000	4.22645e-28	1.000000

0.100000000E-07 Pa, 1300.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.84401e-12 (1.00)	4.84262e-12 (1.00)
Formation of rad19	3.55537e-12 (0.734)	3.55411e-12 (0.734)
H-abstraction to cyc2enyl	9.48893e-13 (0.196)	9.48893e-13 (0.196)
H-abstraction to cyc1enyl	3.39740e-13 (0.0701)	3.39620e-13 (0.0701)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.627161	0.627161	0.627340	0.627340
Benzene+cycloprop-2-enylidene	0.195890	0.823052	0.195946	0.823286
PhCHCCH2+H	0.0908777	0.913929	0.0909037	0.914190
Benzene+cycloprop-1-enylidene	0.0701362	0.984065	0.0701313	0.984321
Ph+MeAc	0.00304441	0.987110	0.00304527	0.987366
C2H2+PhCH2	0.00290372	0.990014	0.00290454	0.990271

Ph+Allene	0.00288470	0.992898	0.00288553	0.993157
PhCH2CCH+H	0.00165448	0.994553	0.00165495	0.994812
PhCCCH3+H	0.00130153	0.995854	0.00130190	0.996113
rad67	0.00110883	0.996963	0.00110915	0.997223
PhCCH+CH3	0.000809514	0.997773	0.000809751	0.998032
PhcycC3H3_A+H	0.000673391	0.998446	0.000673584	0.998706
PhcycC3H3_B+H	0.000561394	0.999007	0.000561554	0.999267
rad35	0.000398725	0.999406	0.000398838	0.999666
Phenyl+cycC3H4	0.000260506	0.999667	0.000000	0.999666
PAH10+CH3	8.38007e-05	0.999750	8.38250e-05	0.999750
PAH7+H	7.89117e-05	0.999829	7.89341e-05	0.999829
rad37	7.83568e-05	0.999908	7.83785e-05	0.999907
PAH9+H	2.08511e-05	0.999929	2.08571e-05	0.999928
rad38	1.88167e-05	0.999947	1.88221e-05	0.999947
rad30	1.49360e-05	0.999962	1.49402e-05	0.999962
rad39	1.33374e-05	0.999976	1.33412e-05	0.999975
PAH3+H	1.25732e-05	0.999988	1.25768e-05	0.999988
rad46	2.73965e-06	0.999991	2.74043e-06	0.999991
rad50	1.75696e-06	0.999993	1.75746e-06	0.999992
rad59	1.29584e-06	0.999994	1.29620e-06	0.999994
rad60syn	1.24692e-06	0.999995	1.24728e-06	0.999995
rad54	1.23055e-06	0.999996	1.23091e-06	0.999996
PAH1+H	1.18164e-06	0.999998	1.18197e-06	0.999997
rad60anti	7.66599e-07	0.999998	7.66824e-07	0.999998
rad43	4.10006e-07	0.999999	4.10123e-07	0.999999
rad51	3.87406e-07	0.999999	3.87517e-07	0.999999
rad70	3.43677e-07	1.000000	3.43775e-07	0.999999
rad52	1.33628e-07	1.000000	1.33666e-07	0.999999
rad58	9.48433e-08	1.000000	9.48705e-08	1.000000
rad55	8.22139e-08	1.000000	8.22375e-08	1.000000
rad34	7.56235e-08	1.000000	7.56447e-08	1.000000
rad61	7.45086e-08	1.000000	7.45298e-08	1.000000
rad62	3.23565e-08	1.000000	3.23657e-08	1.000000
rad41	2.13212e-08	1.000000	2.13273e-08	1.000000
rad53	1.49188e-08	1.000000	1.49231e-08	1.000000
rad56	1.23746e-08	1.000000	1.23782e-08	1.000000
rad65	1.15036e-08	1.000000	1.15069e-08	1.000000
PAH8+H	1.11832e-08	1.000000	1.11864e-08	1.000000
rad64	5.02551e-09	1.000000	5.02694e-09	1.000000
rad71	4.76253e-09	1.000000	4.76388e-09	1.000000
rad73	4.36513e-09	1.000000	4.36638e-09	1.000000
rad68syn	3.35945e-09	1.000000	3.36041e-09	1.000000
rad68anti	2.20311e-09	1.000000	2.20373e-09	1.000000
rad40syn	2.06131e-09	1.000000	2.06190e-09	1.000000
rad42	1.87919e-09	1.000000	1.87972e-09	1.000000
rad40anti	1.60444e-09	1.000000	1.60490e-09	1.000000
rad72	9.34613e-11	1.000000	9.34878e-11	1.000000
rad9	1.93810e-14	1.000000	1.93865e-14	1.000000
rad12	5.89852e-17	1.000000	5.90020e-17	1.000000
rad15	9.39905e-18	1.000000	9.40177e-18	1.000000
rad23	3.07829e-18	1.000000	3.07916e-18	1.000000
rad45	2.02737e-18	1.000000	2.02795e-18	1.000000
rad19anti	1.48394e-18	1.000000	1.48436e-18	1.000000
rad2	9.09180e-19	1.000000	9.09440e-19	1.000000
rad11	5.69961e-19	1.000000	5.70123e-19	1.000000
rad8	4.42248e-19	1.000000	4.42375e-19	1.000000
rad21	3.03536e-19	1.000000	3.03622e-19	1.000000
rad1	2.68284e-19	1.000000	2.68361e-19	1.000000
rad13	2.24558e-19	1.000000	2.24623e-19	1.000000
rad36	2.11041e-19	1.000000	2.11101e-19	1.000000
rad6	1.69134e-19	1.000000	1.69182e-19	1.000000
rad19syn	1.00706e-19	1.000000	1.00735e-19	1.000000
rad7	8.18682e-20	1.000000	8.18918e-20	1.000000
rad20	7.38165e-20	1.000000	7.38377e-20	1.000000
rad10	7.03487e-20	1.000000	7.03688e-20	1.000000
rad33	1.76734e-20	1.000000	1.76784e-20	1.000000
rad18	1.53527e-20	1.000000	1.53571e-20	1.000000
rad24	1.53474e-20	1.000000	1.53518e-20	1.000000
rad3	7.48000e-21	1.000000	7.48212e-21	1.000000
rad4	6.10240e-21	1.000000	6.10414e-21	1.000000
rad25	5.66799e-21	1.000000	5.66960e-21	1.000000
rad27	2.70870e-21	1.000000	2.70948e-21	1.000000
rad31	2.62744e-22	1.000000	2.62819e-22	1.000000
rad14	2.40834e-22	1.000000	2.40903e-22	1.000000
rad26	1.21067e-22	1.000000	1.21102e-22	1.000000
rad47	3.40948e-23	1.000000	3.41046e-23	1.000000
rad28	1.73666e-24	1.000000	1.73715e-24	1.000000
rad22	1.42249e-25	1.000000	1.42289e-25	1.000000
rad5	2.36503e-26	1.000000	2.36570e-26	1.000000

0.100000000E-07 Pa, 1400.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.19360e-12 (1.00)	6.18997e-12 (1.00)
Formation of rad19	4.34185e-12 (0.701)	4.33861e-12 (0.701)
H-abstraction to cyc2enyl	1.32990e-12 (0.215)	1.32990e-12 (0.215)
H-abstraction to cyclenyl	5.21850e-13 (0.0843)	5.21461e-13 (0.0842)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.566028	0.566028	0.566360	0.566360
Benzene+cycloprop-2-enylidene	0.214721	0.780749	0.214847	0.781207
PhCHCCH2+H	0.113526	0.894275	0.113593	0.894800
Benzene+cycloprop-1-enylidene	0.0842564	0.978532	0.0842429	0.979043
Ph+MeAc	0.00387284	0.982405	0.00387511	0.982918
Ph+Allene	0.00376036	0.986165	0.00376256	0.986680
C2H2+PhCH2	0.00367929	0.989844	0.00368145	0.990362
PhCH2CCH+H	0.00231297	0.992157	0.00231433	0.992676
PhCCCH3+H	0.00159640	0.993754	0.00159734	0.994274
rad67	0.00144409	0.995198	0.00144494	0.995719
PhcycC3H3_A+H	0.00120489	0.996403	0.00120559	0.996924
PhcycC3H3_B+H	0.00109183	0.997495	0.00109247	0.998017
PhCCH+CH3	0.000988680	0.998483	0.000989264	0.999006
Phenyl+cycC3H4	0.000523345	0.999007	0.000000	0.999006
rad35	0.000519418	0.999526	0.000519722	0.999526
PAH10+CH3	0.000132940	0.999659	0.000133019	0.999659
rad37	0.000103969	0.999763	0.000104030	0.999763
PAH7+H	9.76629e-05	0.999861	9.77202e-05	0.999860
PAH9+H	3.30451e-05	0.999894	3.30646e-05	0.999893
rad38	2.89869e-05	0.999923	2.90039e-05	0.999922
PAH3+H	2.09773e-05	0.999944	2.09896e-05	0.999943
rad30	2.03484e-05	0.999964	2.03603e-05	0.999964
rad39	1.60326e-05	0.999980	1.60420e-05	0.999980
rad46	4.60489e-06	0.999985	4.60759e-06	0.999984
rad50	3.39256e-06	0.999988	3.39455e-06	0.999988
rad59	2.10237e-06	0.999990	2.10360e-06	0.999990
PAH1+H	2.05214e-06	0.999992	2.05334e-06	0.999992
rad60syn	1.88965e-06	0.999994	1.89076e-06	0.999994
rad54	1.78086e-06	0.999996	1.78190e-06	0.999996
rad60anti	1.16973e-06	0.999997	1.17042e-06	0.999997
rad51	8.27129e-07	0.999998	8.27613e-07	0.999998
rad43	6.31782e-07	0.999998	6.32153e-07	0.999998
rad70	5.60217e-07	0.999999	5.60546e-07	0.999999
rad52	2.70713e-07	0.999999	2.70872e-07	0.999999
rad58	1.78428e-07	0.999999	1.78532e-07	0.999999
rad61	1.46277e-07	1.000000	1.46363e-07	0.999999
rad34	1.30056e-07	1.000000	1.30132e-07	1.000000
rad55	1.23571e-07	1.000000	1.23644e-07	1.000000
rad62	4.61529e-08	1.000000	4.61799e-08	1.000000
rad41	3.74002e-08	1.000000	3.74221e-08	1.000000
PAH8+H	2.63148e-08	1.000000	2.63303e-08	1.000000
rad53	2.60384e-08	1.000000	2.60537e-08	1.000000
rad65	2.42340e-08	1.000000	2.42482e-08	1.000000
rad56	2.33522e-08	1.000000	2.33659e-08	1.000000
rad71	1.41523e-08	1.000000	1.41606e-08	1.000000
rad73	1.20322e-08	1.000000	1.20393e-08	1.000000
rad64	8.79755e-09	1.000000	8.80273e-09	1.000000
rad68syn	6.90097e-09	1.000000	6.90502e-09	1.000000
rad40syn	4.57744e-09	1.000000	4.58013e-09	1.000000
rad68anti	4.51464e-09	1.000000	4.51729e-09	1.000000
rad40anti	3.59045e-09	1.000000	3.59256e-09	1.000000
rad42	3.00666e-09	1.000000	3.00843e-09	1.000000
rad72	3.28506e-10	1.000000	3.28699e-10	1.000000
rad9	1.23912e-14	1.000000	1.23985e-14	1.000000
rad12	4.68956e-17	1.000000	4.69231e-17	1.000000
rad15	3.61840e-17	1.000000	3.62052e-17	1.000000
rad23	2.75752e-18	1.000000	2.75914e-18	1.000000
rad45	1.87368e-18	1.000000	1.87478e-18	1.000000
rad11	1.44856e-18	1.000000	1.44941e-18	1.000000
rad19anti	1.15118e-18	1.000000	1.15186e-18	1.000000
rad2	6.74487e-19	1.000000	6.74882e-19	1.000000
rad8	5.66687e-19	1.000000	5.67019e-19	1.000000
rad21	3.67060e-19	1.000000	3.67275e-19	1.000000
rad7	3.48136e-19	1.000000	3.48340e-19	1.000000
rad6	2.99717e-19	1.000000	2.99892e-19	1.000000
rad13	2.61024e-19	1.000000	2.61177e-19	1.000000
rad10	2.47052e-19	1.000000	2.47198e-19	1.000000
rad1	2.00661e-19	1.000000	2.00779e-19	1.000000
rad36	1.96189e-19	1.000000	1.96304e-19	1.000000

rad19syn	8.90593e-20	1.00000	8.91116e-20	1.000000
rad20	8.28826e-20	1.00000	8.29310e-20	1.000000
rad18	5.37818e-20	1.00000	5.38134e-20	1.000000
rad24	1.80313e-20	1.00000	1.80420e-20	1.000000
rad33	1.72625e-20	1.00000	1.72727e-20	1.000000
rad25	7.72646e-21	1.00000	7.73097e-21	1.000000
rad3	5.33339e-21	1.00000	5.33652e-21	1.000000
rad4	4.31136e-21	1.00000	4.31390e-21	1.000000
rad27	3.50744e-21	1.00000	3.50950e-21	1.000000
rad26	2.23042e-21	1.00000	2.23173e-21	1.000000
rad14	3.02573e-22	1.00000	3.02750e-22	1.000000
rad31	2.62635e-22	1.00000	2.62789e-22	1.000000
rad47	7.15113e-23	1.00000	7.15531e-23	1.000000
rad28	3.00926e-23	1.00000	3.01103e-23	1.000000
rad22	8.46295e-24	1.00000	8.46797e-24	1.000000
rad5	1.05698e-24	1.00000	1.05760e-24	1.000000

0.100000000E-07 Pa, 1500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.80417e-12 (1.00)	7.79561e-12 (1.00)
Formation of rad19	5.22661e-12 (0.670)	5.21915e-12 (0.669)
H-abstraction to cyc2enyl	1.80920e-12 (0.232)	1.80920e-12 (0.232)
H-abstraction to cyclenyl	7.68359e-13 (0.0985)	7.67262e-13 (0.0984)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.505870	0.505870	0.506425	0.506425
Benzene+cycloprop-2-enylidene	0.231825	0.737695	0.232079	0.738505
PhCHCCH2+H	0.135967	0.873662	0.136116	0.874621
Benzene+cycloprop-1-enylidene	0.0984549	0.972117	0.0984223	0.973043
Ph+MeAc	0.00470570	0.976823	0.00471086	0.977754
Ph+Allene	0.00464760	0.981470	0.00465271	0.982407
C2H2+PhCH2	0.00447301	0.985943	0.00447791	0.986885
PhCH2CCH+H	0.00304819	0.988991	0.00305154	0.989936
PhcycC3H3_A+H	0.00198976	0.990981	0.00199195	0.991928
PhcycC3H3_B+H	0.00193280	0.992914	0.00193492	0.993863
PhCCH3+H	0.00187667	0.994791	0.00187873	0.995742
rad67	0.00179097	0.996582	0.00179294	0.997535
PhCCH+CH3	0.00117783	0.997759	0.00117912	0.998714
Phenyl+cycC3H4	0.000956146	0.998716	0.000000	0.998714
rad35	0.000644848	0.999360	0.000645555	0.999360
PAH10+CH3	0.000194190	0.999555	0.000194404	0.999554
rad37	0.000129806	0.999684	0.000129949	0.999684
PAH7+H	0.000116417	0.999801	0.000116546	0.999800
PAH9+H	4.88535e-05	0.999850	4.89071e-05	0.999849
rad38	4.16011e-05	0.999891	4.16467e-05	0.999891
PAH3+H	3.23374e-05	0.999924	3.23729e-05	0.999923
rad30	2.62808e-05	0.999950	2.63097e-05	0.999950
rad39	1.87895e-05	0.999969	1.88102e-05	0.999968
rad46	7.16199e-06	0.999976	7.16986e-06	0.999976
rad50	5.93797e-06	0.999982	5.94449e-06	0.999982
PAH1+H	3.25722e-06	0.999985	3.26081e-06	0.999985
rad59	3.16156e-06	0.999988	3.16503e-06	0.999988
rad60syn	2.67968e-06	0.999991	2.68262e-06	0.999991
rad54	2.39838e-06	0.999993	2.40102e-06	0.999993
rad60anti	1.66867e-06	0.999995	1.67050e-06	0.999995
rad51	1.57342e-06	0.999996	1.57515e-06	0.999996
rad43	9.05576e-07	0.999997	9.06568e-07	0.999997
rad70	8.42763e-07	0.999998	8.43688e-07	0.999998
rad52	4.92950e-07	0.999999	4.93491e-07	0.999999
rad58	3.04448e-07	0.999999	3.04782e-07	0.999999
rad61	2.56145e-07	0.999999	2.56426e-07	0.999999
rad34	2.04934e-07	1.000000	2.05159e-07	0.999999
rad55	1.72012e-07	1.000000	1.72201e-07	1.000000
rad62	6.20586e-08	1.000000	6.21267e-08	1.000000
rad41	5.99063e-08	1.000000	5.99721e-08	1.000000
PAH8+H	5.38671e-08	1.000000	5.39262e-08	1.000000
rad65	4.55485e-08	1.000000	4.55985e-08	1.000000
rad53	4.12866e-08	1.000000	4.13319e-08	1.000000
rad56	3.95671e-08	1.000000	3.96105e-08	1.000000
rad71	3.49994e-08	1.000000	3.50378e-08	1.000000
rad73	2.80690e-08	1.000000	2.80998e-08	1.000000
rad64	1.41255e-08	1.000000	1.41409e-08	1.000000
rad68syn	1.26336e-08	1.000000	1.26475e-08	1.000000
rad40syn	8.93581e-09	1.000000	8.94564e-09	1.000000
rad68anti	8.24821e-09	1.000000	8.25726e-09	1.000000
rad40anti	7.05383e-09	1.000000	7.06153e-09	1.000000
rad42	4.46777e-09	1.000000	4.47268e-09	1.000000

rad72	9.20557e-10	1.00000	9.21571e-10	1.000000
rad9	7.84249e-15	1.00000	7.85107e-15	1.000000
rad15	7.46906e-17	1.00000	7.47723e-17	1.000000
rad12	3.66370e-17	1.00000	3.66772e-17	1.000000
rad23	2.45285e-18	1.00000	2.45555e-18	1.000000
rad11	2.20545e-18	1.00000	2.20786e-18	1.000000
rad45	1.70436e-18	1.00000	1.70624e-18	1.000000
rad19anti	9.04718e-19	1.00000	9.05717e-19	1.000000
rad7	7.03601e-19	1.00000	7.04373e-19	1.000000
rad8	6.24614e-19	1.00000	6.25299e-19	1.000000
rad10	5.35038e-19	1.00000	5.35625e-19	1.000000
rad6	5.02371e-19	1.00000	5.02922e-19	1.000000
rad2	4.96727e-19	1.00000	4.97273e-19	1.000000
rad21	3.97611e-19	1.00000	3.98048e-19	1.000000
rad13	2.43538e-19	1.00000	2.43805e-19	1.000000
rad36	1.79538e-19	1.00000	1.79735e-19	1.000000
rad1	1.49933e-19	1.00000	1.50098e-19	1.000000
rad18	1.01390e-19	1.00000	1.01502e-19	1.000000
rad20	8.29636e-20	1.00000	8.30546e-20	1.000000
rad19syn	7.89908e-20	1.00000	7.90771e-20	1.000000
rad26	2.48495e-20	1.00000	2.48768e-20	1.000000
rad24	1.99082e-20	1.00000	1.99301e-20	1.000000
rad33	1.52243e-20	1.00000	1.52410e-20	1.000000
rad25	8.67515e-21	1.00000	8.68467e-21	1.000000
rad27	3.81185e-21	1.00000	3.81603e-21	1.000000
rad3	3.75307e-21	1.00000	3.75718e-21	1.000000
rad4	3.00970e-21	1.00000	3.01300e-21	1.000000
rad28	3.88548e-22	1.00000	3.88975e-22	1.000000
rad14	3.12704e-22	1.00000	3.13047e-22	1.000000
rad22	3.02557e-22	1.00000	3.02888e-22	1.000000
rad31	2.56266e-22	1.00000	2.56547e-22	1.000000
rad47	1.33181e-22	1.00000	1.33327e-22	1.000000
rad5	2.77176e-23	1.00000	2.77481e-23	1.000000

0.100000000E-08 Pa, 20.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.24541e-22 (1.00)	1.24541e-22 (1.00)
Formation of rad19	1.24541e-22 (1.00)	1.24541e-22 (1.00)
H-abstraction to cyc2enyl	3.84323e-68 (3.09e-46)	3.84323e-68 (3.09e-46)
H-abstraction to cyclenyl	6.26313e-106 (5.03e-84)	6.26313e-106 (5.03e-84)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999772	0.999772	0.999772	0.999772
PhCHCCH2+H	0.000217190	0.999989	0.000217190	0.999989
PhCCH+CH3	3.74993e-06	0.999993	3.74993e-06	0.999993
C2H2+PhCH2	2.66078e-06	0.999996	2.66078e-06	0.999996
PhCCCH3+H	2.10744e-06	0.999998	2.10744e-06	0.999998
Ph+MeAc	1.55535e-06	0.999999	1.55535e-06	0.999999
rad67	4.72017e-07	1.000000	4.72017e-07	1.000000
rad35	2.09059e-07	1.000000	2.09059e-07	1.000000
Ph+Allene	1.34639e-07	1.000000	1.34639e-07	1.000000
PAH7+H	1.78373e-08	1.000000	1.78373e-08	1.000000
PhCH2CCH+H	1.63595e-08	1.000000	1.63595e-08	1.000000
rad39	5.03017e-09	1.000000	5.03017e-09	1.000000
rad37	4.62673e-09	1.000000	4.62673e-09	1.000000
rad30	3.90781e-09	1.000000	3.90781e-09	1.000000
PAH9+H	2.53961e-10	1.000000	2.53961e-10	1.000000
rad38	1.06938e-10	1.000000	1.06938e-10	1.000000
rad60syn	1.69319e-11	1.000000	1.69319e-11	1.000000
rad60anti	8.26560e-12	1.000000	8.26560e-12	1.000000
PAH3+H	6.72155e-12	1.000000	6.72155e-12	1.000000
rad46	6.42601e-12	1.000000	6.42601e-12	1.000000
PAH10+CH3	5.52880e-12	1.000000	5.52880e-12	1.000000
rad59	1.39467e-12	1.000000	1.39467e-12	1.000000
PhcycC3H3_A+H	4.13677e-13	1.000000	4.13677e-13	1.000000
rad43	2.58810e-13	1.000000	2.58810e-13	1.000000
rad54	2.05786e-13	1.000000	2.05786e-13	1.000000
rad62	5.54306e-14	1.000000	5.54306e-14	1.000000
rad50	4.23315e-14	1.000000	4.23315e-14	1.000000
rad70	3.14362e-15	1.000000	3.14362e-15	1.000000
rad55	1.37813e-15	1.000000	1.37813e-15	1.000000
PAH1+H	5.58594e-16	1.000000	5.58594e-16	1.000000
rad52	2.67814e-16	1.000000	2.67814e-16	1.000000
rad58	7.50234e-17	1.000000	7.50234e-17	1.000000
rad51	6.49691e-17	1.000000	6.49691e-17	1.000000
rad34	2.91050e-17	1.000000	2.91050e-17	1.000000
Phenyl+cycC3H4	2.77347e-17	1.000000	0.000000	1.000000

rad42	3.04830e-18	1.00000	3.04830e-18	1.00000
rad41	2.76406e-18	1.00000	2.76406e-18	1.00000
rad65	1.27714e-18	1.00000	1.27714e-18	1.00000
PhcycC3H3_B+H	2.48349e-32	1.00000	2.48349e-32	1.00000
rad53	1.11865e-33	1.00000	1.11865e-33	1.00000
rad26	7.76043e-34	1.00000	7.76043e-34	1.00000
rad47	5.36316e-34	1.00000	5.36316e-34	1.00000
rad28	2.05711e-34	1.00000	2.05711e-34	1.00000
rad6	1.16672e-34	1.00000	1.16672e-34	1.00000
rad64	4.89180e-36	1.00000	4.89180e-36	1.00000
rad2	7.77272e-37	1.00000	7.77272e-37	1.00000
rad14	2.26764e-37	1.00000	2.26764e-37	1.00000
rad25	1.04412e-37	1.00000	1.04412e-37	1.00000
rad10	4.94101e-38	1.00000	4.94101e-38	1.00000
rad1	4.90977e-38	1.00000	4.90977e-38	1.00000
rad27	2.12284e-38	1.00000	2.12284e-38	1.00000
rad19anti	1.76071e-38	1.00000	1.76071e-38	1.00000
rad3	9.55691e-39	1.00000	9.55691e-39	1.00000
rad7	8.42205e-39	1.00000	8.42205e-39	1.00000
rad4	4.82695e-39	1.00000	4.82695e-39	1.00000
rad11	2.37293e-39	1.00000	2.37293e-39	1.00000
rad9	1.27148e-40	1.00000	1.27148e-40	1.00000
rad13	4.65469e-41	1.00000	4.65469e-41	1.00000
rad5	4.48988e-41	1.00000	4.48988e-41	1.00000
rad31	1.07178e-42	1.00000	1.07178e-42	1.00000
rad33	8.99953e-43	1.00000	8.99953e-43	1.00000
rad61	5.02958e-43	1.00000	5.02958e-43	1.00000
rad15	5.61453e-44	1.00000	5.61453e-44	1.00000
rad20	5.64832e-45	1.00000	5.64832e-45	1.00000
rad21	4.46946e-45	1.00000	4.46946e-45	1.00000
rad56	3.36943e-45	1.00000	3.36943e-45	1.00000
Benzene+cycloprop-2-enylidene	3.08591e-46	1.00000	3.08591e-46	1.00000
rad18	7.19979e-47	1.00000	7.19979e-47	1.00000
rad12	3.91743e-47	1.00000	3.91743e-47	1.00000
rad68syn	2.54023e-47	1.00000	2.54023e-47	1.00000
rad68anti	2.17398e-47	1.00000	2.17398e-47	1.00000
rad19syn	1.37416e-48	1.00000	1.37416e-48	1.00000
rad22	3.66397e-49	1.00000	3.66397e-49	1.00000
rad23	2.25042e-49	1.00000	2.25042e-49	1.00000
rad24	7.35772e-51	1.00000	7.35772e-51	1.00000
rad45	1.73344e-51	1.00000	1.73344e-51	1.00000
rad36	1.06316e-52	1.00000	1.06316e-52	1.00000
rad73	2.07001e-55	1.00000	2.07001e-55	1.00000
rad40syn	2.93458e-56	1.00000	2.93458e-56	1.00000
rad40anti	2.41836e-56	1.00000	2.41836e-56	1.00000
PAH8+H	1.12087e-60	1.00000	1.12087e-60	1.00000
rad71	3.49397e-64	1.00000	3.49397e-64	1.00000
rad8	2.40363e-68	1.00000	2.40363e-68	1.00000
Benzene+cycloprop-1-enylidene	5.02895e-84	1.00000	5.02895e-84	1.00000

0.100000000E-08 Pa, 30.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.13009e-20 (1.00)	8.13009e-20 (1.00)
Formation of rad19	8.13009e-20 (1.00)	8.13009e-20 (1.00)
H-abstraction to cyc2enyl	1.08880e-49 (1.34e-30)	1.08880e-49 (1.34e-30)
H-abstraction to cyclenyl	7.55172e-75 (9.29e-56)	7.55172e-75 (9.29e-56)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999770	0.999770	0.999770	0.999770
PhCHCCH2+H	0.000218740	0.999989	0.000218740	0.999989
PhCCH+CH3	3.77922e-06	0.999993	3.77922e-06	0.999993
C2H2+PhCH2	2.68544e-06	0.999995	2.68544e-06	0.999995
PhCCCH3+H	2.12543e-06	0.999997	2.12543e-06	0.999997
Ph+MeAc	1.57151e-06	0.999999	1.57151e-06	0.999999
rad67	4.76660e-07	0.999999	4.76660e-07	0.999999
rad35	2.11031e-07	1.000000	2.11031e-07	1.000000
Ph+Allene	1.36499e-07	1.000000	1.36499e-07	1.000000
PAH7+H	1.80489e-08	1.000000	1.80489e-08	1.000000
PhCH2CCH+H	1.66215e-08	1.000000	1.66215e-08	1.000000
rad39	5.09007e-09	1.000000	5.09007e-09	1.000000
rad37	4.68501e-09	1.000000	4.68501e-09	1.000000
rad30	3.94539e-09	1.000000	3.94539e-09	1.000000
PAH9+H	2.57108e-10	1.000000	2.57108e-10	1.000000
rad38	1.08385e-10	1.000000	1.08385e-10	1.000000
rad60syn	1.71588e-11	1.000000	1.71588e-11	1.000000
rad60anti	8.37914e-12	1.000000	8.37914e-12	1.000000
PAH3+H	6.84326e-12	1.000000	6.84326e-12	1.000000

rad46	6.51964e-12	1.000000	6.51964e-12	1.000000
PAH10+CH3	5.67120e-12	1.000000	5.67120e-12	1.000000
rad59	1.41896e-12	1.000000	1.41896e-12	1.000000
PhcycC3H3_A+H	4.42422e-13	1.000000	4.42422e-13	1.000000
rad43	2.64743e-13	1.000000	2.64743e-13	1.000000
rad54	2.11004e-13	1.000000	2.11004e-13	1.000000
rad62	5.67504e-14	1.000000	5.67504e-14	1.000000
rad50	4.32261e-14	1.000000	4.32261e-14	1.000000
rad70	3.24823e-15	1.000000	3.24823e-15	1.000000
rad55	1.42504e-15	1.000000	1.42504e-15	1.000000
PAH1+H	5.84855e-16	1.000000	5.84855e-16	1.000000
rad52	2.74820e-16	1.000000	2.74820e-16	1.000000
rad58	7.77933e-17	1.000000	7.77933e-17	1.000000
rad51	6.70684e-17	1.000000	6.70684e-17	1.000000
Phenyl+cycC3H4	5.25631e-17	1.000000	0.00000	1.000000
rad34	3.05744e-17	1.000000	3.05744e-17	1.000000
rad42	3.20852e-18	1.000000	3.20852e-18	1.000000
rad41	2.96189e-18	1.000000	2.96189e-18	1.000000
rad65	1.32250e-18	1.000000	1.32250e-18	1.000000
PhcycC3H3_B+H	4.16221e-29	1.000000	4.16221e-29	1.000000
Benzene+cycloprop-2-enylidene	1.33923e-30	1.000000	1.33923e-30	1.000000
rad53	2.08877e-33	1.000000	2.08877e-33	1.000000
rad26	3.76479e-34	1.000000	3.76479e-34	1.000000
rad47	2.66202e-34	1.000000	2.66202e-34	1.000000
rad28	9.77040e-35	1.000000	9.77040e-35	1.000000
rad6	3.46317e-35	1.000000	3.46317e-35	1.000000
rad64	3.66428e-36	1.000000	3.66428e-36	1.000000
rad2	3.62282e-37	1.000000	3.62282e-37	1.000000
rad14	1.11594e-37	1.000000	1.11594e-37	1.000000
rad25	5.15811e-38	1.000000	5.15811e-38	1.000000
rad10	2.51293e-38	1.000000	2.51293e-38	1.000000
rad1	2.28963e-38	1.000000	2.28963e-38	1.000000
rad27	1.04934e-38	1.000000	1.04934e-38	1.000000
rad19anti	9.43582e-39	1.000000	9.43582e-39	1.000000
rad3	4.39232e-39	1.000000	4.39232e-39	1.000000
rad7	2.50173e-39	1.000000	2.50173e-39	1.000000
rad4	2.21863e-39	1.000000	2.21863e-39	1.000000
rad11	7.66789e-40	1.000000	7.66789e-40	1.000000
rad9	6.18182e-41	1.000000	6.18182e-41	1.000000
rad5	2.03053e-41	1.000000	2.03053e-41	1.000000
rad13	1.38359e-41	1.000000	1.38359e-41	1.000000
rad31	5.64751e-43	1.000000	5.64751e-43	1.000000
rad33	4.33388e-43	1.000000	4.33388e-43	1.000000
rad61	3.99438e-43	1.000000	3.99438e-43	1.000000
rad15	2.73168e-44	1.000000	2.73168e-44	1.000000
rad20	2.84963e-45	1.000000	2.84963e-45	1.000000
rad56	2.62090e-45	1.000000	2.62090e-45	1.000000
rad21	2.25743e-45	1.000000	2.25743e-45	1.000000
rad18	3.58930e-47	1.000000	3.58930e-47	1.000000
rad12	2.03275e-47	1.000000	2.03275e-47	1.000000
rad68syn	1.99221e-47	1.000000	1.99221e-47	1.000000
rad68anti	1.70453e-47	1.000000	1.70453e-47	1.000000
rad19syn	8.38610e-49	1.000000	8.38610e-49	1.000000
rad22	1.81215e-49	1.000000	1.81215e-49	1.000000
rad23	1.04448e-49	1.000000	1.04448e-49	1.000000
rad24	3.78955e-51	1.000000	3.78955e-51	1.000000
rad45	6.35029e-52	1.000000	6.35029e-52	1.000000
rad36	3.89418e-53	1.000000	3.89418e-53	1.000000
rad73	1.66954e-55	1.000000	1.66954e-55	1.000000
Benzene+cycloprop-1-enylidene	9.28861e-56	1.000000	9.28861e-56	1.000000
rad40syn	2.57248e-56	1.000000	2.57248e-56	1.000000
rad40anti	2.11969e-56	1.000000	2.11969e-56	1.000000
PAH8+H	1.00608e-60	1.000000	1.00608e-60	1.000000
rad71	2.96429e-64	1.000000	2.96429e-64	1.000000
rad8	1.26714e-68	1.000000	1.26714e-68	1.000000

0.100000000E-08 Pa, 40.000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	2.24819e-18 (1.00)	2.24819e-18 (1.00)		
Formation of rad19	2.24819e-18 (1.00)	2.24819e-18 (1.00)		
H-abstraction to cyc2enyl	1.72361e-40 (7.67e-23)	1.72361e-40 (7.67e-23)		
H-abstraction to cyclenyl	2.48792e-59 (1.11e-41)	2.48792e-59 (1.11e-41)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999767	0.999767	0.999767	0.999767
PhCHCCH2+H	0.000221748	0.999989	0.000221748	0.999989
PhCCH+CH3	3.83605e-06	0.999993	3.83605e-06	0.999993

C2H2+PhCH2	2.73340e-06	0.999995	2.73340e-06	0.999995
PhCCCH3+H	2.16038e-06	0.999997	2.16038e-06	0.999997
Ph+MeAc	1.60299e-06	0.999999	1.60299e-06	0.999999
rad67	4.85698e-07	1.000000	4.85698e-07	1.000000
rad35	2.14867e-07	1.000000	2.14867e-07	1.000000
Ph+Allene	1.40139e-07	1.000000	1.40139e-07	1.000000
PAH7+H	1.84621e-08	1.000000	1.84621e-08	1.000000
PhCH2CCH+H	1.71356e-08	1.000000	1.71356e-08	1.000000
rad39	5.20698e-09	1.000000	5.20698e-09	1.000000
rad37	4.79888e-09	1.000000	4.79888e-09	1.000000
rad30	4.01853e-09	1.000000	4.01853e-09	1.000000
PAH9+H	2.63258e-10	1.000000	2.63258e-10	1.000000
rad38	1.11216e-10	1.000000	1.11216e-10	1.000000
rad60syn	1.76027e-11	1.000000	1.76027e-11	1.000000
rad60anti	8.60137e-12	1.000000	8.60137e-12	1.000000
PAH3+H	7.08284e-12	1.000000	7.08284e-12	1.000000
rad46	6.70313e-12	1.000000	6.70313e-12	1.000000
PAH10+CH3	5.95405e-12	1.000000	5.95405e-12	1.000000
rad59	1.46672e-12	1.000000	1.46672e-12	1.000000
PhcycC3H3_A+H	5.01394e-13	1.000000	5.01394e-13	1.000000
rad43	2.76481e-13	1.000000	2.76481e-13	1.000000
rad54	2.21365e-13	1.000000	2.21365e-13	1.000000
rad62	5.93637e-14	1.000000	5.93637e-14	1.000000
rad50	4.49944e-14	1.000000	4.49944e-14	1.000000
rad70	3.45813e-15	1.000000	3.45813e-15	1.000000
rad55	1.51897e-15	1.000000	1.51897e-15	1.000000
PAH1+H	6.38443e-16	1.000000	6.38443e-16	1.000000
rad52	2.88755e-16	1.000000	2.88755e-16	1.000000
Phenyl+cycC3H4	1.15738e-16	1.000000	0.000000	1.000000
rad58	8.33664e-17	1.000000	8.33664e-17	1.000000
rad51	7.12775e-17	1.000000	7.12775e-17	1.000000
rad34	3.35233e-17	1.000000	3.35233e-17	1.000000
rad42	3.55448e-18	1.000000	3.55448e-18	1.000000
rad41	3.38724e-18	1.000000	3.38724e-18	1.000000
rad65	1.41378e-18	1.000000	1.41378e-18	1.000000
Benzene+cycloprop-2-enylidene	7.66665e-23	1.000000	7.66665e-23	1.000000
PhcycC3H3_B+H	8.31291e-25	1.000000	8.31291e-25	1.000000
rad53	2.40692e-29	1.000000	2.40692e-29	1.000000
rad64	2.71954e-33	1.000000	2.71954e-33	1.000000
rad26	2.45428e-34	1.000000	2.45428e-34	1.000000
rad47	1.79767e-34	1.000000	1.79767e-34	1.000000
rad28	6.31433e-35	1.000000	6.31433e-35	1.000000
rad6	1.78230e-35	1.000000	1.78230e-35	1.000000
rad2	3.49747e-37	1.000000	3.49747e-37	1.000000
rad14	7.43180e-38	1.000000	7.43180e-38	1.000000
rad25	3.46192e-38	1.000000	3.46192e-38	1.000000
rad1	2.21290e-38	1.000000	2.21290e-38	1.000000
rad10	1.76327e-38	1.000000	1.76327e-38	1.000000
rad19anti	7.57595e-39	1.000000	7.57595e-39	1.000000
rad27	7.05358e-39	1.000000	7.05358e-39	1.000000
rad3	4.83254e-39	1.000000	4.83254e-39	1.000000
rad4	2.44162e-39	1.000000	2.44162e-39	1.000000
rad7	1.28875e-39	1.000000	1.28875e-39	1.000000
rad11	4.19802e-40	1.000000	4.19802e-40	1.000000
rad9	4.39066e-41	1.000000	4.39066e-41	1.000000
rad5	1.30075e-41	1.000000	1.30075e-41	1.000000
Benzene+cycloprop-1-enylidene	1.10663e-41	1.000000	1.10663e-41	1.000000
rad13	7.13313e-42	1.000000	7.13313e-42	1.000000
rad61	6.80052e-43	1.000000	6.80052e-43	1.000000
rad31	4.36404e-43	1.000000	4.36404e-43	1.000000
rad33	2.95578e-43	1.000000	2.95578e-43	1.000000
rad15	1.93945e-44	1.000000	1.93945e-44	1.000000
rad56	4.28735e-45	1.000000	4.28735e-45	1.000000
rad20	1.99960e-45	1.000000	1.99960e-45	1.000000
rad21	1.58779e-45	1.000000	1.58779e-45	1.000000
rad68syn	3.31655e-47	1.000000	3.31655e-47	1.000000
rad68anti	2.83606e-47	1.000000	2.83606e-47	1.000000
rad18	2.45614e-47	1.000000	2.45614e-47	1.000000
rad12	1.51709e-47	1.000000	1.51709e-47	1.000000
rad19syn	8.61360e-49	1.000000	8.61360e-49	1.000000
rad22	1.22146e-49	1.000000	1.22146e-49	1.000000
rad23	7.16218e-50	1.000000	7.16218e-50	1.000000
rad24	2.77721e-51	1.000000	2.77721e-51	1.000000
rad45	6.16376e-52	1.000000	6.16376e-52	1.000000
rad36	3.77876e-53	1.000000	3.77876e-53	1.000000
rad73	2.95408e-55	1.000000	2.95408e-55	1.000000
rad40syn	5.41703e-56	1.000000	5.41703e-56	1.000000
rad40anti	4.46179e-56	1.000000	4.46179e-56	1.000000
PAH8+H	2.23567e-60	1.000000	2.23567e-60	1.000000
rad71	5.87042e-64	1.000000	5.87042e-64	1.000000

rad8 | 9.75566e-69 1.000000 | 9.75566e-69 1.000000

0.100000000E-08 Pa, 50.0000000 K

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

Total | 1.72707e-17 (1.00) | 1.72707e-17 (1.00)
Formation of rad19 | 1.72707e-17 (1.00) | 1.72707e-17 (1.00)
H-abstraction to cyc2enyl | 5.49905e-35 (3.18e-18) | 5.49905e-35 (3.18e-18)
H-abstraction to cyclenyl | 4.93090e-50 (2.86e-33) | 4.93090e-50 (2.86e-33)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999763	0.999763	0.999763	0.999763
PhCHCCH2+H	0.000225658	0.999989	0.000225658	0.999989
PhCCH+CH3	3.90994e-06	0.999993	3.90994e-06	0.999993
C2H2+PhCH2	2.79605e-06	0.999995	2.79605e-06	0.999995
PhCCCH3+H	2.20592e-06	0.999998	2.20592e-06	0.999998
Ph+MeAc	1.64418e-06	0.999999	1.64418e-06	0.999999
rad67	4.97514e-07	1.000000	4.97514e-07	1.000000
rad35	2.19879e-07	1.000000	2.19879e-07	1.000000
Ph+Allene	1.44942e-07	1.000000	1.44942e-07	1.000000
PAH7+H	1.90048e-08	1.000000	1.90048e-08	1.000000
PhCH2CCH+H	1.78174e-08	1.000000	1.78174e-08	1.000000
rad39	5.36057e-09	1.000000	5.36057e-09	1.000000
rad37	4.94868e-09	1.000000	4.94868e-09	1.000000
rad30	4.11419e-09	1.000000	4.11419e-09	1.000000
PAH9+H	2.71352e-10	1.000000	2.71352e-10	1.000000
rad38	1.14954e-10	1.000000	1.14954e-10	1.000000
rad60syn	1.81880e-11	1.000000	1.81880e-11	1.000000
rad60anti	8.89466e-12	1.000000	8.89466e-12	1.000000
PAH3+H	7.40206e-12	1.000000	7.40206e-12	1.000000
rad46	6.94584e-12	1.000000	6.94584e-12	1.000000
PAH10+CH3	6.33665e-12	1.000000	6.33665e-12	1.000000
rad59	1.53025e-12	1.000000	1.53025e-12	1.000000
PhcycC3H3_A+H	5.85937e-13	1.000000	5.85937e-13	1.000000
rad43	2.92252e-13	1.000000	2.92252e-13	1.000000
rad54	2.35374e-13	1.000000	2.35374e-13	1.000000
rad62	6.28791e-14	1.000000	6.28791e-14	1.000000
rad50	4.73675e-14	1.000000	4.73675e-14	1.000000
rad70	3.74676e-15	1.000000	3.74676e-15	1.000000
rad55	1.64775e-15	1.000000	1.64775e-15	1.000000
PAH1+H	7.14028e-16	1.000000	7.14028e-16	1.000000
rad52	3.07655e-16	1.000000	3.07655e-16	1.000000
Phenyl+cycC3H4	2.36668e-16	1.000000	0.000000	1.000000
rad58	9.10706e-17	1.000000	9.10706e-17	1.000000
rad51	7.70607e-17	1.000000	7.70607e-17	1.000000
rad34	3.76207e-17	1.000000	3.76207e-17	1.000000
rad42	4.07396e-18	1.000000	4.07396e-18	1.000000
rad41	4.02391e-18	1.000000	4.02391e-18	1.000000
Benzene+cycloprop-2-enylidene	3.18404e-18	1.000000	3.18404e-18	1.000000
rad65	1.53995e-18	1.000000	1.53995e-18	1.000000
PhcycC3H3_B+H	2.98283e-22	1.000000	2.98283e-22	1.000000
rad53	8.13833e-27	1.000000	8.13833e-27	1.000000
rad64	5.78544e-30	1.000000	5.78544e-30	1.000000
Benzene+cycloprop-1-enylidene	2.85507e-33	1.000000	2.85507e-33	1.000000
rad26	1.79891e-34	1.000000	1.79891e-34	1.000000
rad47	1.37437e-34	1.000000	1.37437e-34	1.000000
rad28	4.59936e-35	1.000000	4.59936e-35	1.000000
rad6	1.13042e-35	1.000000	1.13042e-35	1.000000
rad2	4.19507e-37	1.000000	4.19507e-37	1.000000
rad14	5.60666e-38	1.000000	5.60666e-38	1.000000
rad1	2.65850e-38	1.000000	2.65850e-38	1.000000
rad25	2.63915e-38	1.000000	2.63915e-38	1.000000
rad10	1.68776e-38	1.000000	1.68776e-38	1.000000
rad19anti	7.56647e-39	1.000000	7.56647e-39	1.000000
rad3	6.48201e-39	1.000000	6.48201e-39	1.000000
rad27	5.39155e-39	1.000000	5.39155e-39	1.000000
rad4	3.27610e-39	1.000000	3.27610e-39	1.000000
rad7	8.18361e-40	1.000000	8.18361e-40	1.000000
rad11	2.80628e-40	1.000000	2.80628e-40	1.000000
rad9	3.69321e-41	1.000000	3.69321e-41	1.000000
rad5	9.55590e-42	1.000000	9.55590e-42	1.000000
rad13	4.53398e-42	1.000000	4.53398e-42	1.000000
rad61	1.95110e-42	1.000000	1.95110e-42	1.000000
rad31	4.10753e-43	1.000000	4.10753e-43	1.000000
rad33	2.33575e-43	1.000000	2.33575e-43	1.000000
rad15	1.63007e-44	1.000000	1.63007e-44	1.000000
rad56	1.18498e-44	1.000000	1.18498e-44	1.000000
rad20	1.62458e-45	1.000000	1.62458e-45	1.000000

rad21	1.29435e-45	1.00000	1.29435e-45	1.00000
rad68syn	9.39640e-47	1.00000	9.39640e-47	1.00000
rad68anti	8.02867e-47	1.00000	8.02867e-47	1.00000
rad18	1.92530e-47	1.00000	1.92530e-47	1.00000
rad12	1.34867e-47	1.00000	1.34867e-47	1.00000
rad19syn	1.15714e-48	1.00000	1.15714e-48	1.00000
rad22	9.37175e-50	1.00000	9.37175e-50	1.00000
rad23	5.85829e-50	1.00000	5.85829e-50	1.00000
rad24	2.40028e-51	1.00000	2.40028e-51	1.00000
rad45	7.34302e-52	1.00000	7.34302e-52	1.00000
rad36	4.49954e-53	1.00000	4.49954e-53	1.00000
rad73	9.15254e-55	1.00000	9.15254e-55	1.00000
rad40syn	2.11570e-55	1.00000	2.11570e-55	1.00000
rad40anti	1.74111e-55	1.00000	1.74111e-55	1.00000
PAH8+H	9.50859e-60	1.00000	9.50859e-60	1.00000
rad71	2.15899e-63	1.00000	2.15899e-63	1.00000
rad8	9.04687e-69	1.00000	9.04687e-69	1.00000

0.100000000E-08 Pa, 60.0000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	6.93738e-17 (1.00)	6.93738e-17 (1.00)		
Formation of rad19	6.93738e-17 (1.000)	6.93738e-17 (1.000)		
H-abstraction to cyc2enyl	2.50609e-31 (3.61e-15)	2.50609e-31 (3.61e-15)		
H-abstraction to cyclenyl	7.62015e-44 (1.10e-27)	7.62015e-44 (1.10e-27)		

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999758	0.999758	0.999758	0.999758
PhCHCCH2+H	0.000230121	0.999988	0.000230121	0.999988
PhCCH+CH3	3.99427e-06	0.999992	3.99427e-06	0.999992
C2H2+PhCH2	2.86797e-06	0.999995	2.86797e-06	0.999995
PhCCCH3+H	2.25806e-06	0.999997	2.25806e-06	0.999997
Ph+MeAc	1.69157e-06	0.999999	1.69157e-06	0.999999
rad67	5.11098e-07	0.999999	5.11098e-07	0.999999
rad35	2.25634e-07	1.000000	2.25634e-07	1.000000
Ph+Allene	1.50530e-07	1.000000	1.50530e-07	1.000000
PAH7+H	1.96327e-08	1.000000	1.96327e-08	1.000000
PhCH2CCH+H	1.86153e-08	1.000000	1.86153e-08	1.000000
rad39	5.53820e-09	1.000000	5.53820e-09	1.000000
rad37	5.12226e-09	1.000000	5.12226e-09	1.000000
rad30	4.22418e-09	1.000000	4.22418e-09	1.000000
PAH9+H	2.80739e-10	1.000000	2.80739e-10	1.000000
rad38	1.19306e-10	1.000000	1.19306e-10	1.000000
rad60syn	1.88685e-11	1.000000	1.88685e-11	1.000000
rad60anti	9.23591e-12	1.000000	9.23591e-12	1.000000
PAH3+H	7.77808e-12	1.000000	7.77808e-12	1.000000
rad46	7.22908e-12	1.000000	7.22908e-12	1.000000
PAH10+CH3	6.79612e-12	1.000000	6.79612e-12	1.000000
rad59	1.60493e-12	1.000000	1.60493e-12	1.000000
PhcycC3H3_A+H	6.95715e-13	1.000000	6.95715e-13	1.000000
rad43	3.11028e-13	1.000000	3.11028e-13	1.000000
rad54	2.52187e-13	1.000000	2.52187e-13	1.000000
rad62	6.70704e-14	1.000000	6.70704e-14	1.000000
rad50	5.01888e-14	1.000000	5.01888e-14	1.000000
rad70	4.10054e-15	1.000000	4.10054e-15	1.000000
Benzene+cycloprop-2-enylidene	3.61245e-15	1.000000	3.61245e-15	1.000000
rad55	1.80524e-15	1.000000	1.80524e-15	1.000000
PAH1+H	8.09571e-16	1.000000	8.09571e-16	1.000000
Phenyl+cycC3H4	4.45921e-16	1.000000	0.000000	1.000000
rad52	3.30434e-16	1.000000	3.30434e-16	1.000000
rad58	1.00588e-16	1.000000	1.00588e-16	1.000000
rad51	8.41470e-17	1.000000	8.41470e-17	1.000000
rad34	4.27629e-17	1.000000	4.27629e-17	1.000000
rad41	4.87030e-18	1.000000	4.87030e-18	1.000000
rad42	4.76393e-18	1.000000	4.76393e-18	1.000000
rad65	1.69577e-18	1.000000	1.69577e-18	1.000000
PhcycC3H3_B+H	1.47017e-20	1.000000	1.47017e-20	1.000000
rad53	3.73122e-25	1.000000	3.73122e-25	1.000000
Benzene+cycloprop-1-enylidene	1.09842e-27	1.000000	1.09842e-27	1.000000
rad64	9.21628e-28	1.000000	9.21628e-28	1.000000
rad26	1.40957e-34	1.000000	1.40957e-34	1.000000
rad47	1.12620e-34	1.000000	1.12620e-34	1.000000
rad61	4.84972e-35	1.000000	4.84972e-35	1.000000
rad28	3.58360e-35	1.000000	3.58360e-35	1.000000
rad6	8.02761e-36	1.000000	8.02761e-36	1.000000
rad2	9.49673e-38	1.000000	9.49673e-38	1.000000
rad14	4.54799e-38	1.000000	4.54799e-38	1.000000
rad25	2.16688e-38	1.000000	2.16688e-38	1.000000

rad10	1.23853e-38	1.000000	1.23853e-38	1.000000
rad19anti	8.79993e-39	1.000000	8.79993e-39	1.000000
rad1	6.03090e-39	1.000000	6.03090e-39	1.000000
rad27	4.44335e-39	1.000000	4.44335e-39	1.000000
rad3	8.65577e-40	1.000000	8.65577e-40	1.000000
rad7	5.81963e-40	1.000000	5.81963e-40	1.000000
rad4	4.37651e-40	1.000000	4.37651e-40	1.000000
rad11	2.09166e-40	1.000000	2.09166e-40	1.000000
rad9	3.44622e-41	1.000000	3.44622e-41	1.000000
rad5	7.57622e-42	1.000000	7.57622e-42	1.000000
rad13	3.22796e-42	1.000000	3.22796e-42	1.000000
rad31	4.41909e-43	1.000000	4.41909e-43	1.000000
rad33	2.01384e-43	1.000000	2.01384e-43	1.000000
rad56	6.11503e-44	1.000000	6.11503e-44	1.000000
rad15	1.51961e-44	1.000000	1.51961e-44	1.000000
rad20	1.44197e-45	1.000000	1.44197e-45	1.000000
rad21	1.15362e-45	1.000000	1.15362e-45	1.000000
rad68syn	4.98097e-46	1.000000	4.98097e-46	1.000000
rad68anti	4.25203e-46	1.000000	4.25203e-46	1.000000
rad18	1.63554e-47	1.000000	1.63554e-47	1.000000
rad12	1.33940e-47	1.000000	1.33940e-47	1.000000
rad19syn	1.80508e-48	1.000000	1.80508e-48	1.000000
rad22	7.75458e-50	1.000000	7.75458e-50	1.000000
rad23	5.38609e-50	1.000000	5.38609e-50	1.000000
rad24	2.29768e-51	1.000000	2.29768e-51	1.000000
rad45	2.87510e-52	1.000000	2.87510e-52	1.000000
rad36	1.76089e-53	1.000000	1.76089e-53	1.000000
rad73	5.37830e-54	1.000000	5.37830e-54	1.000000
rad40syn	1.54572e-54	1.000000	1.54572e-54	1.000000
rad40anti	1.27006e-54	1.000000	1.27006e-54	1.000000
PAH8+H	7.80377e-59	1.000000	7.80377e-59	1.000000
rad71	1.56443e-62	1.000000	1.56443e-62	1.000000
rad8	9.43551e-69	1.000000	9.43551e-69	1.000000

0.100000000E-08 Pa, 70.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.91520e-16 (1.00)	1.91520e-16 (1.00)
Formation of rad19	1.91520e-16 (1.000)	1.91520e-16 (1.000)
H-abstraction to cyc2enyl	1.01125e-28 (5.28e-13)	1.01125e-28 (5.28e-13)
H-abstraction to cyclenyl	1.97822e-39 (1.03e-23)	1.97822e-39 (1.03e-23)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999753	0.999753	0.999753	0.999753
PhCHCCH2+H	0.000235006	0.999988	0.000235006	0.999988
PhCCH+CH3	4.08659e-06	0.999992	4.08659e-06	0.999992
C2H2+PhCH2	2.94722e-06	0.999995	2.94722e-06	0.999995
PhCCCH3+H	2.31532e-06	0.999997	2.31532e-06	0.999997
Ph+MeAc	1.74394e-06	0.999999	1.74394e-06	0.999999
rad67	5.26090e-07	1.000000	5.26090e-07	1.000000
rad35	2.31978e-07	1.000000	2.31978e-07	1.000000
Ph+Allene	1.56781e-07	1.000000	1.56781e-07	1.000000
PAH7+H	2.03305e-08	1.000000	2.03305e-08	1.000000
PhCH2CCH+H	1.95142e-08	1.000000	1.95142e-08	1.000000
rad39	5.73559e-09	1.000000	5.73559e-09	1.000000
rad37	5.31557e-09	1.000000	5.31557e-09	1.000000
rad30	4.34562e-09	1.000000	4.34562e-09	1.000000
PAH9+H	2.91202e-10	1.000000	2.91202e-10	1.000000
rad38	1.24178e-10	1.000000	1.24178e-10	1.000000
rad60syn	1.96290e-11	1.000000	1.96290e-11	1.000000
rad60anti	9.61777e-12	1.000000	9.61777e-12	1.000000
PAH3+H	8.20481e-12	1.000000	8.20481e-12	1.000000
rad46	7.54709e-12	1.000000	7.54709e-12	1.000000
PAH10+CH3	7.32916e-12	1.000000	7.32916e-12	1.000000
rad59	1.68948e-12	1.000000	1.68948e-12	1.000000
PhcycC3H3_A+H	8.34926e-13	1.000000	8.34926e-13	1.000000
Benzene+cycloprop-2-enylidene	5.28015e-13	1.000000	5.28015e-13	1.000000
rad43	3.32593e-13	1.000000	3.32593e-13	1.000000
rad54	2.71678e-13	1.000000	2.71678e-13	1.000000
rad62	7.18916e-14	1.000000	7.18916e-14	1.000000
rad50	5.34248e-14	1.000000	5.34248e-14	1.000000
rad70	4.52036e-15	1.000000	4.52036e-15	1.000000
rad55	1.99187e-15	1.000000	1.99187e-15	1.000000
PAH1+H	9.26902e-16	1.000000	9.26902e-16	1.000000
Phenyl+cycC3H4	7.87809e-16	1.000000	0.000000	1.000000
rad52	3.56973e-16	1.000000	3.56973e-16	1.000000
rad58	1.11992e-16	1.000000	1.11992e-16	1.000000
rad51	9.25595e-17	1.000000	9.25595e-17	1.000000

rad34	4.90706e-17	1.00000	4.90706e-17	1.00000
rad41	5.95426e-18	1.00000	5.95426e-18	1.00000
rad42	5.64287e-18	1.00000	5.64287e-18	1.00000
rad65	1.88240e-18	1.00000	1.88240e-18	1.00000
PhcycC3H3_B+H	2.38334e-19	1.00000	2.38334e-19	1.00000
Benzene+cycloprop-1-enylidene	1.03290e-23	1.00000	1.03290e-23	1.00000
rad53	5.56944e-24	1.00000	5.56944e-24	1.00000
rad64	3.39556e-26	1.00000	3.39556e-26	1.00000
rad61	5.68423e-32	1.00000	5.68423e-32	1.00000
rad26	1.15389e-34	1.00000	1.15389e-34	1.00000
rad47	9.65474e-35	1.00000	9.65474e-35	1.00000
rad28	2.91725e-35	1.00000	2.91725e-35	1.00000
rad56	2.32701e-35	1.00000	2.32701e-35	1.00000
rad6	6.12194e-36	1.00000	6.12194e-36	1.00000
rad2	6.61546e-37	1.00000	6.61546e-37	1.00000
rad1	4.21045e-38	1.00000	4.21045e-38	1.00000
rad14	3.87159e-38	1.00000	3.87159e-38	1.00000
rad10	2.35488e-38	1.00000	2.35488e-38	1.00000
rad25	1.86907e-38	1.00000	1.86907e-38	1.00000
rad19anti	1.14994e-38	1.00000	1.14994e-38	1.00000
rad3	1.14508e-38	1.00000	1.14508e-38	1.00000
rad4	5.79310e-39	1.00000	5.79310e-39	1.00000
rad27	3.85070e-39	1.00000	3.85070e-39	1.00000
rad7	4.44492e-40	1.00000	4.44492e-40	1.00000
rad11	1.67109e-40	1.00000	1.67109e-40	1.00000
rad9	3.45518e-41	1.00000	3.45518e-41	1.00000
rad5	6.30744e-42	1.00000	6.30744e-42	1.00000
rad13	2.46872e-42	1.00000	2.46872e-42	1.00000
rad31	5.25659e-43	1.00000	5.25659e-43	1.00000
rad33	1.84123e-43	1.00000	1.84123e-43	1.00000
rad15	1.52211e-44	1.00000	1.52211e-44	1.00000
rad68syn	8.35689e-45	1.00000	8.35689e-45	1.00000
rad68anti	7.12847e-45	1.00000	7.12847e-45	1.00000
rad20	1.35925e-45	1.00000	1.35925e-45	1.00000
rad21	1.09260e-45	1.00000	1.09260e-45	1.00000
rad18	1.46619e-47	1.00000	1.46619e-47	1.00000
rad12	1.43815e-47	1.00000	1.43815e-47	1.00000
rad19syn	3.07655e-48	1.00000	3.07655e-48	1.00000
rad22	6.74509e-50	1.00000	6.74509e-50	1.00000
rad23	5.52245e-50	1.00000	5.52245e-50	1.00000
rad24	2.36068e-51	1.00000	2.36068e-51	1.00000
rad45	4.23741e-52	1.00000	4.23741e-52	1.00000
rad73	9.69701e-53	1.00000	9.69701e-53	1.00000
rad40syn	2.86238e-53	1.00000	2.86238e-53	1.00000
rad36	2.59476e-53	1.00000	2.59476e-53	1.00000
rad40anti	2.34562e-53	1.00000	2.34562e-53	1.00000
PAH8+H	1.67105e-57	1.00000	1.67105e-57	1.00000
rad71	3.35676e-61	1.00000	3.35676e-61	1.00000
rad8	1.06794e-68	1.00000	1.06794e-68	1.00000

0.100000000E-08 Pa, 80.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.17084e-16 (1.00)	4.17084e-16 (1.00)
Formation of rad19	4.17084e-16 (1.000)	4.17084e-16 (1.000)
H-abstraction to cyc2enyl	8.98751e-27 (2.15e-11)	8.98751e-27 (2.15e-11)
H-abstraction to cyclenyl	4.00120e-36 (9.59e-21)	4.00120e-36 (9.59e-21)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999747	0.999747	0.999747	0.999747
PhCHCCH2+H	0.000240278	0.999987	0.000240278	0.999987
PhCCH+CH3	4.18618e-06	0.999991	4.18618e-06	0.999991
C2H2+PhCH2	3.03335e-06	0.999994	3.03335e-06	0.999994
PhCCCH3+H	2.37733e-06	0.999997	2.37733e-06	0.999997
Ph+MeAc	1.80101e-06	0.999999	1.80101e-06	0.999999
rad67	5.42408e-07	0.999999	5.42408e-07	0.999999
rad35	2.38874e-07	0.999999	2.38874e-07	0.999999
Ph+Allene	1.63686e-07	1.000000	1.63686e-07	1.000000
PAH7+H	2.10959e-08	1.000000	2.10959e-08	1.000000
PhCH2CCH+H	2.05146e-08	1.000000	2.05146e-08	1.000000
rad39	5.95207e-09	1.000000	5.95207e-09	1.000000
rad37	5.52806e-09	1.000000	5.52806e-09	1.000000
rad30	4.47786e-09	1.000000	4.47786e-09	1.000000
PAH9+H	3.02716e-10	1.000000	3.02716e-10	1.000000
rad38	1.29567e-10	1.000000	1.29567e-10	1.000000
Benzene+cycloprop-2-enylidene	2.15484e-11	1.000000	2.15484e-11	1.000000
rad60syn	2.04685e-11	1.000000	2.04685e-11	1.000000
rad60anti	1.00397e-11	1.000000	1.00397e-11	1.000000

PAH3+H	8.68358e-12	1.000000	8.68358e-12	1.000000
PAH10+CH3	7.94154e-12	1.000000	7.94154e-12	1.000000
rad46	7.89977e-12	1.000000	7.89977e-12	1.000000
rad59	1.78410e-12	1.000000	1.78410e-12	1.000000
PhcycC3H3_A+H	1.01061e-12	1.000000	1.01061e-12	1.000000
rad43	3.57097e-13	1.000000	3.57097e-13	1.000000
rad54	2.94055e-13	1.000000	2.94055e-13	1.000000
rad62	7.73784e-14	1.000000	7.73784e-14	1.000000
rad50	5.70981e-14	1.000000	5.70981e-14	1.000000
rad70	5.01449e-15	1.000000	5.01449e-15	1.000000
rad55	2.21137e-15	1.000000	2.21137e-15	1.000000
Phenyl+cycC3H4	1.32430e-15	1.000000	0.000000	1.000000
PAH1+H	1.07021e-15	1.000000	1.07021e-15	1.000000
rad52	3.87617e-16	1.000000	3.87617e-16	1.000000
rad58	1.25561e-16	1.000000	1.25561e-16	1.000000
rad51	1.02472e-16	1.000000	1.02472e-16	1.000000
rad34	5.67860e-17	1.000000	5.67860e-17	1.000000
rad41	7.33020e-18	1.000000	7.33020e-18	1.000000
rad42	6.74822e-18	1.000000	6.74822e-18	1.000000
rad65	2.10442e-18	1.000000	2.10442e-18	1.000000
PhcycC3H3_B+H	1.96138e-18	1.000000	1.96138e-18	1.000000
Benzene+cycloprop-1-enylidene	9.59328e-21	1.000000	9.59328e-21	1.000000
rad53	4.18956e-23	1.000000	4.18956e-23	1.000000
rad64	5.09107e-25	1.000000	5.09107e-25	1.000000
rad61	8.41954e-30	1.000000	8.41954e-30	1.000000
rad56	1.31867e-32	1.000000	1.31867e-32	1.000000
rad68syn	1.87136e-34	1.000000	1.87136e-34	1.000000
rad68anti	1.57600e-34	1.000000	1.57600e-34	1.000000
rad26	9.74089e-35	1.000000	9.74089e-35	1.000000
rad47	8.54859e-35	1.000000	8.54859e-35	1.000000
rad28	2.44871e-35	1.000000	2.44871e-35	1.000000
rad6	4.90205e-36	1.000000	4.90205e-36	1.000000
rad2	3.03384e-37	1.000000	3.03384e-37	1.000000
rad14	3.41130e-38	1.000000	3.41130e-38	1.000000
rad1	1.93611e-38	1.000000	1.93611e-38	1.000000
rad25	1.66998e-38	1.000000	1.66998e-38	1.000000
rad19anti	1.65192e-38	1.000000	1.65192e-38	1.000000
rad10	1.50914e-38	1.000000	1.50914e-38	1.000000
rad27	3.45956e-39	1.000000	3.45956e-39	1.000000
rad3	2.14076e-39	1.000000	2.14076e-39	1.000000
rad4	1.08377e-39	1.000000	1.08377e-39	1.000000
rad7	3.56511e-40	1.000000	3.56511e-40	1.000000
rad11	1.40105e-40	1.000000	1.40105e-40	1.000000
rad9	3.65418e-41	1.000000	3.65418e-41	1.000000
rad5	5.43156e-42	1.000000	5.43156e-42	1.000000
rad13	1.98306e-42	1.000000	1.98306e-42	1.000000
rad31	6.77588e-43	1.000000	6.77588e-43	1.000000
rad33	1.75650e-43	1.000000	1.75650e-43	1.000000
rad15	1.60841e-44	1.000000	1.60841e-44	1.000000
rad20	1.33871e-45	1.000000	1.33871e-45	1.000000
rad21	1.08175e-45	1.000000	1.08175e-45	1.000000
rad12	1.63785e-47	1.000000	1.63785e-47	1.000000
rad18	1.36598e-47	1.000000	1.36598e-47	1.000000
rad19syn	5.56519e-48	1.000000	5.56519e-48	1.000000
rad23	6.21110e-50	1.000000	6.21110e-50	1.000000
rad22	6.07794e-50	1.000000	6.07794e-50	1.000000
rad73	1.03568e-50	1.000000	1.03568e-50	1.000000
rad24	2.55627e-51	1.000000	2.55627e-51	1.000000
rad40syn	2.29075e-51	1.000000	2.29075e-51	1.000000
rad40anti	1.86932e-51	1.000000	1.86932e-51	1.000000
rad45	1.21389e-51	1.000000	1.21389e-51	1.000000
rad36	7.43123e-53	1.000000	7.43123e-53	1.000000
PAH8+H	1.56151e-55	1.000000	1.56151e-55	1.000000
rad71	3.88539e-59	1.000000	3.88539e-59	1.000000
rad8	1.28435e-68	1.000000	1.28435e-68	1.000000

0.100000000E-08 Pa, 90.000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	7.74016e-16 (1.00)	7.74016e-16 (1.00)		
Formation of rad19	7.74016e-16 (1.000)	7.74016e-16 (1.000)		
H-abstraction to cyc2enyl	2.91736e-25 (3.77e-10)	2.91736e-25 (3.77e-10)		
H-abstraction to cyclenyl	1.47814e-33 (1.91e-18)	1.47814e-33 (1.91e-18)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999741	0.999741	0.999741	0.999741
PhCHCCH2+H	0.000245933	0.999987	0.000245933	0.999987
PhCCH+CH3	4.29301e-06	0.999991	4.29301e-06	0.999991

C2H2+PhCH2	3.12644e-06	0.999994	3.12644e-06	0.999994
PhCCCH3+H	2.44411e-06	0.999997	2.44411e-06	0.999997
Ph+MeAc	1.86289e-06	0.999999	1.86289e-06	0.999999
rad67	5.60078e-07	0.999999	5.60078e-07	0.999999
rad35	2.46332e-07	0.999999	2.46332e-07	0.999999
Ph+Allene	1.71280e-07	1.000000	1.71280e-07	1.000000
PAH7+H	2.19315e-08	1.000000	2.19315e-08	1.000000
PhCH2CCH+H	2.16239e-08	1.000000	2.16239e-08	1.000000
rad39	6.18834e-09	1.000000	6.18834e-09	1.000000
rad37	5.76057e-09	1.000000	5.76057e-09	1.000000
rad30	4.62113e-09	1.000000	4.62113e-09	1.000000
Benzene+cycloprop-2-enylidene	3.76912e-10	1.000000	3.76912e-10	1.000000
PAH9+H	3.15328e-10	1.000000	3.15328e-10	1.000000
rad38	1.35501e-10	1.000000	1.35501e-10	1.000000
rad60syn	2.13909e-11	1.000000	2.13909e-11	1.000000
rad60anti	1.05039e-11	1.000000	1.05039e-11	1.000000
PAH3+H	9.21902e-12	1.000000	9.21902e-12	1.000000
PAH10+CH3	8.64384e-12	1.000000	8.64384e-12	1.000000
rad46	8.28938e-12	1.000000	8.28938e-12	1.000000
rad59	1.88961e-12	1.000000	1.88961e-12	1.000000
PhcycC3H3_A+H	1.23243e-12	1.000000	1.23243e-12	1.000000
rad43	3.84868e-13	1.000000	3.84868e-13	1.000000
rad54	3.19699e-13	1.000000	3.19699e-13	1.000000
rad62	8.36058e-14	1.000000	8.36058e-14	1.000000
rad50	6.12578e-14	1.000000	6.12578e-14	1.000000
rad70	5.59584e-15	1.000000	5.59584e-15	1.000000
rad55	2.46957e-15	1.000000	2.46957e-15	1.000000
Phenyl+cycC3H4	2.14284e-15	1.000000	0.00000	1.000000
PAH1+H	1.24557e-15	1.000000	1.24557e-15	1.000000
rad52	4.22957e-16	1.000000	4.22957e-16	1.000000
rad58	1.41714e-16	1.000000	1.41714e-16	1.000000
rad51	1.14155e-16	1.000000	1.14155e-16	1.000000
rad34	6.62496e-17	1.000000	6.62496e-17	1.000000
PhcycC3H3_B+H	1.04002e-17	1.000000	1.04002e-17	1.000000
rad41	9.07988e-18	1.000000	9.07988e-18	1.000000
rad42	8.13587e-18	1.000000	8.13587e-18	1.000000
rad65	2.36870e-18	1.000000	2.36870e-18	1.000000
Benzene+cycloprop-1-enylidene	1.90970e-18	1.000000	1.90970e-18	1.000000
rad53	2.02296e-22	1.000000	2.02296e-22	1.000000
rad64	4.24438e-24	1.000000	4.24438e-24	1.000000
rad61	4.05748e-28	1.000000	4.05748e-28	1.000000
rad56	1.28600e-30	1.000000	1.28600e-30	1.000000
rad68syn	2.85402e-32	1.000000	2.85402e-32	1.000000
rad68anti	2.36878e-32	1.000000	2.36878e-32	1.000000
rad26	8.41204e-35	1.000000	8.41204e-35	1.000000
rad47	7.75924e-35	1.000000	7.75924e-35	1.000000
rad28	2.10229e-35	1.000000	2.10229e-35	1.000000
rad6	4.06691e-36	1.000000	4.06691e-36	1.000000
rad2	3.38258e-37	1.000000	3.38258e-37	1.000000
rad14	3.08466e-38	1.000000	3.08466e-38	1.000000
rad19anti	2.57295e-38	1.000000	2.57295e-38	1.000000
rad10	2.55114e-38	1.000000	2.55114e-38	1.000000
rad1	2.16494e-38	1.000000	2.16494e-38	1.000000
rad25	1.53223e-38	1.000000	1.53223e-38	1.000000
rad27	3.19398e-39	1.000000	3.19398e-39	1.000000
rad3	2.58540e-39	1.000000	2.58540e-39	1.000000
rad73	1.45329e-39	1.000000	1.45329e-39	1.000000
rad4	1.30971e-39	1.000000	1.30971e-39	1.000000
rad7	2.96296e-40	1.000000	2.96296e-40	1.000000
rad11	1.21731e-40	1.000000	1.21731e-40	1.000000
rad9	4.03059e-41	1.000000	4.03059e-41	1.000000
rad5	4.79392e-42	1.000000	4.79392e-42	1.000000
rad13	1.65094e-42	1.000000	1.65094e-42	1.000000
rad31	9.34525e-43	1.000000	9.34525e-43	1.000000
rad33	1.73110e-43	1.000000	1.73110e-43	1.000000
rad15	1.77286e-44	1.000000	1.77286e-44	1.000000
rad20	1.36378e-45	1.000000	1.36378e-45	1.000000
rad21	1.10832e-45	1.000000	1.10832e-45	1.000000
rad12	1.95510e-47	1.000000	1.95510e-47	1.000000
rad18	1.31008e-47	1.000000	1.31008e-47	1.000000
rad19syn	1.05530e-47	1.000000	1.05530e-47	1.000000
rad40syn	5.28600e-49	1.000000	5.28600e-49	1.000000
rad40anti	4.29340e-49	1.000000	4.29340e-49	1.000000
rad23	7.73362e-50	1.000000	7.73362e-50	1.000000
rad22	5.62236e-50	1.000000	5.62236e-50	1.000000
rad24	2.88490e-51	1.000000	2.88490e-51	1.000000
rad45	3.22779e-52	1.000000	3.22779e-52	1.000000
PAH8+H	4.16081e-53	1.000000	4.16081e-53	1.000000
rad36	1.97582e-53	1.000000	1.97582e-53	1.000000
rad71	1.29280e-56	1.000000	1.29280e-56	1.000000

rad8 | 1.61985e-68 1.000000 | 1.61985e-68 1.000000

0.100000000E-08 Pa, 100.000000 K

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

Total | 1.28255e-15 (1.00) | 1.28255e-15 (1.00)
Formation of rad19 | 1.28255e-15 (1.000) | 1.28255e-15 (1.000)
H-abstraction to cyc2enyl | 4.68359e-24 (3.65e-09) | 4.68359e-24 (3.65e-09)
H-abstraction to cyclenyl | 1.66242e-31 (1.30e-16) | 1.66242e-31 (1.30e-16)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999735	0.999735	0.999735	0.999735
PhCHCCH2+H	0.000251988	0.999987	0.000251988	0.999987
PhCCH+CH3	4.40736e-06	0.999991	4.40736e-06	0.999991
C2H2+PhCH2	3.22690e-06	0.999995	3.22690e-06	0.999995
PhCCCH3+H	2.51589e-06	0.999997	2.51589e-06	0.999997
Ph+MeAc	1.92987e-06	0.999999	1.92987e-06	0.999999
rad67	5.79181e-07	1.000000	5.79181e-07	1.000000
rad35	2.54382e-07	1.000000	2.54382e-07	1.000000
Ph+Allene	1.79627e-07	1.000000	1.79627e-07	1.000000
PhCH2CCH+H	2.28536e-08	1.000000	2.28536e-08	1.000000
PAH7+H	2.28426e-08	1.000000	2.28426e-08	1.000000
rad39	6.44590e-09	1.000000	6.44590e-09	1.000000
rad37	6.01471e-09	1.000000	6.01471e-09	1.000000
rad30	4.77610e-09	1.000000	4.77610e-09	1.000000
Benzene+cycloprop-2-enylidene	3.65179e-09	1.000000	3.65179e-09	1.000000
PAH9+H	3.29134e-10	1.000000	3.29134e-10	1.000000
rad38	1.42033e-10	1.000000	1.42033e-10	1.000000
rad60syn	2.24039e-11	1.000000	2.24039e-11	1.000000
rad60anti	1.10144e-11	1.000000	1.10144e-11	1.000000
PAH3+H	9.81802e-12	1.000000	9.81802e-12	1.000000
PAH10+CH3	9.45058e-12	1.000000	9.45058e-12	1.000000
rad46	8.71962e-12	1.000000	8.71962e-12	1.000000
rad59	2.00730e-12	1.000000	2.00730e-12	1.000000
PhcycC3H3_A+H	1.51348e-12	1.000000	1.51348e-12	1.000000
rad43	4.16368e-13	1.000000	4.16368e-13	1.000000
rad54	3.49137e-13	1.000000	3.49137e-13	1.000000
rad62	9.06791e-14	1.000000	9.06791e-14	1.000000
rad50	6.59742e-14	1.000000	6.59742e-14	1.000000
rad70	6.28192e-15	1.000000	6.28192e-15	1.000000
Phenyl+cycC3H4	3.36905e-15	1.000000	0.000000	1.000000
rad55	2.77429e-15	1.000000	2.77429e-15	1.000000
PAH1+H	1.46129e-15	1.000000	1.46129e-15	1.000000
rad52	4.63813e-16	1.000000	4.63813e-16	1.000000
rad58	1.61019e-16	1.000000	1.61019e-16	1.000000
Benzene+cycloprop-1-enylidene	1.29619e-16	1.000000	1.29619e-16	1.000000
rad51	1.27976e-16	1.000000	1.27976e-16	1.000000
rad34	7.79214e-17	1.000000	7.79214e-17	1.000000
PhcycC3H3_B+H	4.09123e-17	1.000000	4.09123e-17	1.000000
rad41	1.13186e-17	1.000000	1.13186e-17	1.000000
rad42	9.88346e-18	1.000000	9.88346e-18	1.000000
rad65	2.68465e-18	1.000000	2.68465e-18	1.000000
rad53	7.24662e-22	1.000000	7.24662e-22	1.000000
rad64	2.36968e-23	1.000000	2.36968e-23	1.000000
rad61	9.04334e-27	1.000000	9.04334e-27	1.000000
rad56	5.01134e-29	1.000000	5.01134e-29	1.000000
rad68syn	1.54810e-30	1.000000	1.54810e-30	1.000000
rad68anti	1.27120e-30	1.000000	1.27120e-30	1.000000
rad26	7.39233e-35	1.000000	7.39233e-35	1.000000
rad47	7.18611e-35	1.000000	7.18611e-35	1.000000
rad28	1.83624e-35	1.000000	1.83624e-35	1.000000
rad6	3.46577e-36	1.000000	3.46577e-36	1.000000
rad40syn	1.99128e-36	1.000000	1.99128e-36	1.000000
rad40anti	1.51571e-36	1.000000	1.51571e-36	1.000000
rad73	7.52968e-37	1.000000	7.52968e-37	1.000000
rad2	1.41430e-37	1.000000	1.41430e-37	1.000000
rad19anti	4.30712e-38	1.000000	4.30712e-38	1.000000
rad14	2.84662e-38	1.000000	2.84662e-38	1.000000
rad10	2.07323e-38	1.000000	2.07323e-38	1.000000
rad25	1.43548e-38	1.000000	1.43548e-38	1.000000
rad1	9.08155e-39	1.000000	9.08155e-39	1.000000
rad27	3.01287e-39	1.000000	3.01287e-39	1.000000
rad3	7.24370e-40	1.000000	7.24370e-40	1.000000
rad4	3.67207e-40	1.000000	3.67207e-40	1.000000
rad7	2.52971e-40	1.000000	2.52971e-40	1.000000
rad11	1.08727e-40	1.000000	1.08727e-40	1.000000
rad9	4.60287e-41	1.000000	4.60287e-41	1.000000
rad5	4.31100e-42	1.000000	4.31100e-42	1.000000

rad13	1.41227e-42	1.00000	1.41227e-42	1.00000
rad31	1.36778e-42	1.00000	1.36778e-42	1.00000
rad33	1.75118e-43	1.00000	1.75118e-43	1.00000
rad15	2.02357e-44	1.00000	2.02357e-44	1.00000
rad20	1.42769e-45	1.00000	1.42769e-45	1.00000
rad21	1.16740e-45	1.00000	1.16740e-45	1.00000
rad12	2.42764e-47	1.00000	2.42764e-47	1.00000
rad19syn	2.08907e-47	1.00000	2.08907e-47	1.00000
rad18	1.28545e-47	1.00000	1.28545e-47	1.00000
rad23	1.06298e-49	1.00000	1.06298e-49	1.00000
rad22	5.30744e-50	1.00000	5.30744e-50	1.00000
PAH8+H	2.22239e-50	1.00000	2.22239e-50	1.00000
rad24	3.36884e-51	1.00000	3.36884e-51	1.00000
rad45	5.38789e-52	1.00000	5.38789e-52	1.00000
rad36	3.29814e-53	1.00000	3.29814e-53	1.00000
rad71	8.99607e-54	1.00000	8.99607e-54	1.00000
rad8	2.12436e-68	1.00000	2.12436e-68	1.00000

0.100000000E-08 Pa, 110.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.95524e-15 (1.00)	1.95524e-15 (1.00)
Formation of rad19	1.95524e-15 (1.000)	1.95524e-15 (1.000)
H-abstraction to cyc2enyl	4.50936e-23 (2.31e-08)	4.50936e-23 (2.31e-08)
H-abstraction to cyclenyl	7.87782e-30 (4.03e-15)	7.87782e-30 (4.03e-15)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999728	0.999728	0.999728	0.999728
PhCHCCH2+H	0.000258470	0.999986	0.000258470	0.999986
PhCCH+CH3	4.52973e-06	0.999991	4.52973e-06	0.999991
C2H2+PhCH2	3.33534e-06	0.999994	3.33534e-06	0.999994
PhCCCH3+H	2.59304e-06	0.999997	2.59304e-06	0.999997
Ph+MeAc	2.00241e-06	0.999999	2.00241e-06	0.999999
rad67	5.99841e-07	1.000000	5.99841e-07	1.000000
rad35	2.63077e-07	1.000000	2.63077e-07	1.000000
Ph+Allene	1.88813e-07	1.000000	1.88813e-07	1.000000
PhCH2CCH+H	2.42192e-08	1.000000	2.42192e-08	1.000000
PAH7+H	2.38371e-08	1.000000	2.38371e-08	1.000000
Benzene+cycloprop-2-enylidene	2.30629e-08	1.000000	2.30629e-08	1.000000
rad39	6.72692e-09	1.000000	6.72692e-09	1.000000
rad37	6.29278e-09	1.000000	6.29278e-09	1.000000
rad30	4.94382e-09	1.000000	4.94382e-09	1.000000
PAH9+H	3.44262e-10	1.000000	3.44262e-10	1.000000
rad38	1.49234e-10	1.000000	1.49234e-10	1.000000
rad60syn	2.35177e-11	1.000000	2.35177e-11	1.000000
rad60anti	1.15765e-11	1.000000	1.15765e-11	1.000000
PAH3+H	1.04898e-11	1.000000	1.04898e-11	1.000000
PAH10+CH3	1.03809e-11	1.000000	1.03809e-11	1.000000
rad46	9.19554e-12	1.000000	9.19554e-12	1.000000
rad59	2.13885e-12	1.000000	2.13885e-12	1.000000
PhcycC3H3_A+H	1.87147e-12	1.000000	1.87147e-12	1.000000
rad43	4.52200e-13	1.000000	4.52200e-13	1.000000
rad54	3.83059e-13	1.000000	3.83059e-13	1.000000
rad62	9.87359e-14	1.000000	9.87359e-14	1.000000
rad50	7.13397e-14	1.000000	7.13397e-14	1.000000
rad70	7.09592e-15	1.000000	7.09592e-15	1.000000
Phenyl+cycC3H4	5.18630e-15	1.000000	0.000000	1.000000
Benzene+cycloprop-1-enylidene	4.02908e-15	1.000000	4.02908e-15	1.000000
rad55	3.13590e-15	1.000000	3.13590e-15	1.000000
PAH1+H	1.72857e-15	1.000000	1.72857e-15	1.000000
rad52	5.11263e-16	1.000000	5.11263e-16	1.000000
rad58	1.84232e-16	1.000000	1.84232e-16	1.000000
rad51	1.44427e-16	1.000000	1.44427e-16	1.000000
PhcycC3H3_B+H	1.30407e-16	1.000000	1.30407e-16	1.000000
rad34	9.24233e-17	1.000000	9.24233e-17	1.000000
rad41	1.42061e-17	1.000000	1.42061e-17	1.000000
rad42	1.20969e-17	1.000000	1.20969e-17	1.000000
rad65	3.06485e-18	1.000000	3.06485e-18	1.000000
rad53	2.11093e-21	1.000000	2.11093e-21	1.000000
rad64	9.96387e-23	1.000000	9.96387e-23	1.000000
rad61	1.15972e-25	1.000000	1.15972e-25	1.000000
rad56	1.00969e-27	1.000000	1.00969e-27	1.000000
rad68syn	4.04803e-29	1.000000	4.04803e-29	1.000000
rad68anti	3.29762e-29	1.000000	3.29762e-29	1.000000
rad40syn	3.23201e-34	1.000000	3.23201e-34	1.000000
rad40anti	2.54378e-34	1.000000	2.54378e-34	1.000000
rad47	6.77037e-35	1.000000	6.77037e-35	1.000000
rad26	6.58656e-35	1.000000	6.58656e-35	1.000000

rad73	5.48405e-35	1.00000	5.48405e-35	1.00000
rad28	1.62578e-35	1.00000	1.62578e-35	1.00000
rad6	3.01687e-36	1.00000	3.01687e-36	1.00000
rad3	4.67555e-37	1.00000	4.67555e-37	1.00000
rad2	3.77669e-37	1.00000	3.77669e-37	1.00000
rad4	2.37226e-37	1.00000	2.37226e-37	1.00000
rad19anti	7.70499e-38	1.00000	7.70499e-38	1.00000
rad10	3.39382e-38	1.00000	3.39382e-38	1.00000
rad14	2.67072e-38	1.00000	2.67072e-38	1.00000
rad1	2.43345e-38	1.00000	2.43345e-38	1.00000
rad25	1.36789e-38	1.00000	1.36789e-38	1.00000
rad27	2.89244e-39	1.00000	2.89244e-39	1.00000
rad7	2.20637e-40	1.00000	2.20637e-40	1.00000
rad11	9.93043e-41	1.00000	9.93043e-41	1.00000
rad9	5.41567e-41	1.00000	5.41567e-41	1.00000
rad5	3.93397e-42	1.00000	3.93397e-42	1.00000
rad31	2.11317e-42	1.00000	2.11317e-42	1.00000
rad13	1.23447e-42	1.00000	1.23447e-42	1.00000
rad33	1.81039e-43	1.00000	1.81039e-43	1.00000
rad15	2.38024e-44	1.00000	2.38024e-44	1.00000
rad20	1.52910e-45	1.00000	1.52910e-45	1.00000
rad21	1.25856e-45	1.00000	1.25856e-45	1.00000
rad19syn	4.31564e-47	1.00000	4.31564e-47	1.00000
rad12	3.11989e-47	1.00000	3.11989e-47	1.00000
rad18	1.28489e-47	1.00000	1.28489e-47	1.00000
PAH8+H	1.08851e-47	1.00000	1.08851e-47	1.00000
rad23	1.61453e-49	1.00000	1.61453e-49	1.00000
rad22	5.09186e-50	1.00000	5.09186e-50	1.00000
rad71	5.50109e-51	1.00000	5.50109e-51	1.00000
rad24	4.05117e-51	1.00000	4.05117e-51	1.00000
rad45	1.81939e-51	1.00000	1.81939e-51	1.00000
rad36	1.11403e-52	1.00000	1.11403e-52	1.00000
rad8	2.88050e-68	1.00000	2.88050e-68	1.00000

0.100000000E-08 Pa, 120.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.79817e-15 (1.00)	2.79817e-15 (1.00)
Formation of rad19	2.79817e-15 (1.000)	2.79817e-15 (1.000)
H-abstraction to cyc2enyl	2.96039e-22 (1.06e-07)	2.96039e-22 (1.06e-07)
H-abstraction to cyclenyl	1.95323e-28 (6.98e-14)	1.95323e-28 (6.98e-14)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999721	0.999721	0.999721	0.999721
PhCHCCH2+H	0.000265418	0.999986	0.000265418	0.999986
PhCCH+CH3	4.66083e-06	0.999991	4.66083e-06	0.999991
C2H2+PhCH2	3.45258e-06	0.999994	3.45258e-06	0.999994
PhCCCH3+H	2.67609e-06	0.999997	2.67609e-06	0.999997
Ph+MeAc	2.08110e-06	0.999999	2.08110e-06	0.999999
rad67	6.22225e-07	1.000000	6.22225e-07	1.000000
rad35	2.72481e-07	1.000000	2.72481e-07	1.000000
Ph+Allene	1.98950e-07	1.000000	1.98950e-07	1.000000
Benzene+cycloprop-2-enylidene	1.05797e-07	1.000000	1.05797e-07	1.000000
PhCH2CCH+H	2.57407e-08	1.000000	2.57407e-08	1.000000
PAH7+H	2.49248e-08	1.000000	2.49248e-08	1.000000
rad39	7.03420e-09	1.000000	7.03420e-09	1.000000
rad37	6.59774e-09	1.000000	6.59774e-09	1.000000
rad30	5.12566e-09	1.000000	5.12566e-09	1.000000
PAH9+H	3.60882e-10	1.000000	3.60882e-10	1.000000
rad38	1.57196e-10	1.000000	1.57196e-10	1.000000
rad60syn	2.47458e-11	1.000000	2.47458e-11	1.000000
rad60anti	1.21972e-11	1.000000	1.21972e-11	1.000000
PAH10+CH3	1.14592e-11	1.000000	1.14592e-11	1.000000
PAH3+H	1.12460e-11	1.000000	1.12460e-11	1.000000
rad46	9.72362e-12	1.000000	9.72362e-12	1.000000
PhcycC3H3_A+H	2.33055e-12	1.000000	2.33055e-12	1.000000
rad59	2.28645e-12	1.000000	2.28645e-12	1.000000
rad43	4.93137e-13	1.000000	4.93137e-13	1.000000
rad54	4.22356e-13	1.000000	4.22356e-13	1.000000
rad62	1.07952e-13	1.000000	1.07952e-13	1.000000
rad50	7.74736e-14	1.000000	7.74736e-14	1.000000
Benzene+cycloprop-1-enylidene	6.98038e-14	1.000000	6.98038e-14	1.000000
rad70	8.06832e-15	1.000000	8.06832e-15	1.000000
Phenyl+cycC3H4	7.86468e-15	1.000000	0.000000	1.000000
rad55	3.56798e-15	1.000000	3.56798e-15	1.000000
PAH1+H	2.06260e-15	1.000000	2.06260e-15	1.000000
rad52	5.66713e-16	1.000000	5.66713e-16	1.000000
PhcycC3H3_B+H	3.56809e-16	1.000000	3.56809e-16	1.000000

rad58	2.12355e-16	1.00000	2.12355e-16	1.00000
rad51	1.64161e-16	1.00000	1.64161e-16	1.00000
rad34	1.10600e-16	1.00000	1.10600e-16	1.00000
rad41	1.79639e-17	1.00000	1.79639e-17	1.00000
rad42	1.49203e-17	1.00000	1.49203e-17	1.00000
rad65	3.52612e-18	1.00000	3.52612e-18	1.00000
rad53	5.31328e-21	1.00000	5.31328e-21	1.00000
rad64	3.40977e-22	1.00000	3.40977e-22	1.00000
rad61	9.89208e-25	1.00000	9.89208e-25	1.00000
rad56	1.24744e-26	1.00000	1.24744e-26	1.00000
rad68syn	6.17070e-28	1.00000	6.17070e-28	1.00000
rad68anti	4.99495e-28	1.00000	4.99495e-28	1.00000
rad40syn	1.64573e-32	1.00000	1.64573e-32	1.00000
rad40anti	1.29414e-32	1.00000	1.29414e-32	1.00000
rad73	1.92333e-33	1.00000	1.92333e-33	1.00000
rad47	6.47610e-35	1.00000	6.47610e-35	1.00000
rad26	5.93459e-35	1.00000	5.93459e-35	1.00000
PAH8+H	4.13571e-35	1.00000	4.13571e-35	1.00000
rad28	1.45526e-35	1.00000	1.45526e-35	1.00000
rad6	2.67139e-36	1.00000	2.67139e-36	1.00000
rad2	6.78064e-37	1.00000	6.78064e-37	1.00000
rad19anti	1.46733e-37	1.00000	1.46733e-37	1.00000
rad3	1.29877e-37	1.00000	1.29877e-37	1.00000
rad4	6.59644e-38	1.00000	6.59644e-38	1.00000
rad1	4.38592e-38	1.00000	4.38592e-38	1.00000
rad10	3.29615e-38	1.00000	3.29615e-38	1.00000
rad14	2.54050e-38	1.00000	2.54050e-38	1.00000
rad25	1.32219e-38	1.00000	1.32219e-38	1.00000
rad71	1.32207e-38	1.00000	1.32207e-38	1.00000
rad27	2.81820e-39	1.00000	2.81820e-39	1.00000
rad7	1.95773e-40	1.00000	1.95773e-40	1.00000
rad11	9.23916e-41	1.00000	9.23916e-41	1.00000
rad9	6.54316e-41	1.00000	6.54316e-41	1.00000
rad5	3.63243e-42	1.00000	3.63243e-42	1.00000
rad31	3.43446e-42	1.00000	3.43446e-42	1.00000
rad13	1.09810e-42	1.00000	1.09810e-42	1.00000
rad33	1.90686e-43	1.00000	1.90686e-43	1.00000
rad15	2.87562e-44	1.00000	2.87562e-44	1.00000
rad20	1.67035e-45	1.00000	1.67035e-45	1.00000
rad21	1.38447e-45	1.00000	1.38447e-45	1.00000
rad19syn	9.31466e-47	1.00000	9.31466e-47	1.00000
rad12	4.13587e-47	1.00000	4.13587e-47	1.00000
rad18	1.30442e-47	1.00000	1.30442e-47	1.00000
rad23	2.67641e-49	1.00000	2.67641e-49	1.00000
rad22	4.95012e-50	1.00000	4.95012e-50	1.00000
rad45	1.01198e-50	1.00000	1.01198e-50	1.00000
rad24	5.00044e-51	1.00000	5.00044e-51	1.00000
rad36	6.20216e-52	1.00000	6.20216e-52	1.00000
rad8	4.02249e-68	1.00000	4.02249e-68	1.00000

0.100000000E-08 Pa, 130.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.81236e-15 (1.00)	3.81236e-15 (1.00)
Formation of rad19	3.81236e-15 (1.000)	3.81236e-15 (1.000)
H-abstraction to cyc2enyl	1.44825e-21 (3.80e-07)	1.44825e-21 (3.80e-07)
H-abstraction to cyclenyl	2.94348e-27 (7.72e-13)	2.94348e-27 (7.72e-13)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999713	0.999713	0.999713	0.999713
PhCHCCH2+H	0.000272881	0.999986	0.000272881	0.999986
PhCCH+CH3	4.80155e-06	0.999990	4.80155e-06	0.999990
C2H2+PhCH2	3.57965e-06	0.999994	3.57965e-06	0.999994
PhCCCH3+H	2.76568e-06	0.999997	2.76568e-06	0.999997
Ph+MeAc	2.16669e-06	0.999999	2.16669e-06	0.999999
rad67	6.46538e-07	0.999999	6.46538e-07	0.999999
Benzene+cycloprop-2-enylidene	3.79882e-07	1.000000	3.79882e-07	1.000000
rad35	2.82679e-07	1.000000	2.82679e-07	1.000000
Ph+Allene	2.10177e-07	1.000000	2.10177e-07	1.000000
PhCH2CCH+H	2.74426e-08	1.000000	2.74426e-08	1.000000
PAH7+H	2.61181e-08	1.000000	2.61181e-08	1.000000
rad39	7.37119e-09	1.000000	7.37119e-09	1.000000
rad37	6.93326e-09	1.000000	6.93326e-09	1.000000
rad30	5.32333e-09	1.000000	5.32333e-09	1.000000
PAH9+H	3.79203e-10	1.000000	3.79203e-10	1.000000
rad38	1.66034e-10	1.000000	1.66034e-10	1.000000
rad60syn	2.61047e-11	1.000000	2.61047e-11	1.000000
rad60anti	1.28850e-11	1.000000	1.28850e-11	1.000000

PAH10+CH3	1.27171e-11	1.00000	1.27171e-11	1.00000
PAH3+H	1.21014e-11	1.00000	1.21014e-11	1.00000
rad46	1.03119e-11	1.00000	1.03119e-11	1.00000
PhcycC3H3_A+H	2.92361e-12	1.00000	2.92361e-12	1.00000
rad59	2.45281e-12	1.00000	2.45281e-12	1.00000
Benzene+cycloprop-1-enylidene	7.72089e-13	1.00000	7.72089e-13	1.00000
rad43	5.40149e-13	1.00000	5.40149e-13	1.00000
rad54	4.68163e-13	1.00000	4.68163e-13	1.00000
rad62	1.18546e-13	1.00000	1.18546e-13	1.00000
rad50	8.45270e-14	1.00000	8.45270e-14	1.00000
Phenyl+cycC3H4	1.18041e-14	1.00000	0.00000	1.00000
rad70	9.23899e-15	1.00000	9.23899e-15	1.00000
rad55	4.08826e-15	1.00000	4.08826e-15	1.00000
PAH1+H	2.48400e-15	1.00000	2.48400e-15	1.00000
PhcycC3H3_B+H	8.71416e-16	1.00000	8.71416e-16	1.00000
rad52	6.31981e-16	1.00000	6.31981e-16	1.00000
rad58	2.46721e-16	1.00000	2.46721e-16	1.00000
rad51	1.88040e-16	1.00000	1.88040e-16	1.00000
rad34	1.33600e-16	1.00000	1.33600e-16	1.00000
rad41	2.28987e-17	1.00000	2.28987e-17	1.00000
rad42	1.85493e-17	1.00000	1.85493e-17	1.00000
rad65	4.09095e-18	1.00000	4.09095e-18	1.00000
rad53	1.20428e-20	1.00000	1.20428e-20	1.00000
rad64	1.00149e-21	1.00000	1.00149e-21	1.00000
rad61	6.20139e-24	1.00000	6.20139e-24	1.00000
rad56	1.06325e-25	1.00000	1.06325e-25	1.00000
rad68syn	6.24507e-27	1.00000	6.24507e-27	1.00000
rad68anti	5.02761e-27	1.00000	5.02761e-27	1.00000
rad40syn	4.43601e-31	1.00000	4.43601e-31	1.00000
rad40anti	3.49255e-31	1.00000	3.49255e-31	1.00000
rad73	3.97404e-32	1.00000	3.97404e-32	1.00000
PAH8+H	2.25812e-33	1.00000	2.25812e-33	1.00000
rad47	6.28095e-35	1.00000	6.28095e-35	1.00000
rad26	5.39660e-35	1.00000	5.39660e-35	1.00000
rad28	1.31434e-35	1.00000	1.31434e-35	1.00000
rad2	5.19432e-36	1.00000	5.19432e-36	1.00000
rad6	2.40089e-36	1.00000	2.40089e-36	1.00000
rad71	1.12266e-36	1.00000	1.12266e-36	1.00000
rad3	7.76061e-37	1.00000	7.76061e-37	1.00000
rad4	3.94577e-37	1.00000	3.94577e-37	1.00000
rad1	3.37399e-37	1.00000	3.37399e-37	1.00000
rad19anti	2.96678e-37	1.00000	2.96678e-37	1.00000
rad10	1.50785e-37	1.00000	1.50785e-37	1.00000
rad14	2.44524e-38	1.00000	2.44524e-38	1.00000
rad25	1.29372e-38	1.00000	1.29372e-38	1.00000
rad27	2.78105e-39	1.00000	2.78105e-39	1.00000
rad7	1.76327e-40	1.00000	1.76327e-40	1.00000
rad11	8.73565e-41	1.00000	8.73565e-41	1.00000
rad9	8.09866e-41	1.00000	8.09866e-41	1.00000
rad31	5.85925e-42	1.00000	5.85925e-42	1.00000
rad5	3.38644e-42	1.00000	3.38644e-42	1.00000
rad13	9.91846e-43	1.00000	9.91846e-43	1.00000
rad33	2.04173e-43	1.00000	2.04173e-43	1.00000
rad15	3.55987e-44	1.00000	3.55987e-44	1.00000
rad20	1.85688e-45	1.00000	1.85688e-45	1.00000
rad21	1.55054e-45	1.00000	1.55054e-45	1.00000
rad19syn	2.10397e-46	1.00000	2.10397e-46	1.00000
rad12	5.64234e-47	1.00000	5.64234e-47	1.00000
rad18	1.34195e-47	1.00000	1.34195e-47	1.00000
rad23	4.88845e-49	1.00000	4.88845e-49	1.00000
rad22	4.86574e-50	1.00000	4.86574e-50	1.00000
rad24	6.32080e-51	1.00000	6.32080e-51	1.00000
rad45	5.41956e-51	1.00000	5.41956e-51	1.00000
rad36	3.32310e-52	1.00000	3.32310e-52	1.00000
rad8	5.76906e-68	1.00000	5.76906e-68	1.00000

0.100000000E-08 Pa, 140.000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	4.99515e-15 (1.00)	4.99515e-15 (1.00)		
Formation of rad19	4.99514e-15 (1.000)	4.99514e-15 (1.000)		
H-abstraction to cyc2enyl	5.62488e-21 (1.13e-06)	5.62488e-21 (1.13e-06)		
H-abstraction to cyclenyl	3.00047e-26 (6.01e-12)	3.00047e-26 (6.01e-12)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999703	0.999703	0.999703	0.999703
PhCHCCH2+H	0.000280917	0.999984	0.000280917	0.999984
PhCCH+CH3	4.95294e-06	0.999989	4.95294e-06	0.999989

C2H2+PhCH2	3.71777e-06	0.999992	3.71777e-06	0.999992
PhCCCH3+H	2.86259e-06	0.999995	2.86259e-06	0.999995
Ph+MeAc	2.26007e-06	0.999998	2.26007e-06	0.999998
Benzene+cycloprop-2-enylidene	1.12607e-06	0.999999	1.12607e-06	0.999999
rad67	6.73023e-07	0.999999	6.73023e-07	0.999999
rad35	2.93770e-07	1.000000	2.93770e-07	1.000000
Ph+Allene	2.22660e-07	1.000000	2.22660e-07	1.000000
PhCH2CCH+H	2.93552e-08	1.000000	2.93552e-08	1.000000
PAH7+H	2.74321e-08	1.000000	2.74321e-08	1.000000
rad39	7.74205e-09	1.000000	7.74205e-09	1.000000
rad37	7.30375e-09	1.000000	7.30375e-09	1.000000
rad30	5.53888e-09	1.000000	5.53888e-09	1.000000
PAH9+H	3.99479e-10	1.000000	3.99479e-10	1.000000
rad38	1.75886e-10	1.000000	1.75886e-10	1.000000
rad60syn	2.76144e-11	1.000000	2.76144e-11	1.000000
PAH10+CH3	1.41941e-11	1.000000	1.41941e-11	1.000000
rad60anti	1.36504e-11	1.000000	1.36504e-11	1.000000
PAH3+H	1.30742e-11	1.000000	1.30742e-11	1.000000
rad46	1.09703e-11	1.000000	1.09703e-11	1.000000
Benzene+cycloprop-1-enylidene	6.00677e-12	1.000000	6.00677e-12	1.000000
PhcycC3H3_A+H	3.69543e-12	1.000000	3.69543e-12	1.000000
rad59	2.64125e-12	1.000000	2.64125e-12	1.000000
rad43	5.94445e-13	1.000000	5.94445e-13	1.000000
rad54	5.21921e-13	1.000000	5.21921e-13	1.000000
rad62	1.30794e-13	1.000000	1.30794e-13	1.000000
rad50	9.26897e-14	1.000000	9.26897e-14	1.000000
Phenyl+cycC3H4	1.75978e-14	1.000000	0.000000	1.000000
rad70	1.06600e-14	1.000000	1.06600e-14	1.000000
rad55	4.71987e-15	1.000000	4.71987e-15	1.000000
PAH1+H	3.02080e-15	1.000000	3.02080e-15	1.000000
PhcycC3H3_B+H	1.95210e-15	1.000000	1.95210e-15	1.000000
rad52	7.09403e-16	1.000000	7.09403e-16	1.000000
rad58	2.89095e-16	1.000000	2.89095e-16	1.000000
rad51	2.17208e-16	1.000000	2.17208e-16	1.000000
rad34	1.62990e-16	1.000000	1.62990e-16	1.000000
rad41	2.94364e-17	1.000000	2.94364e-17	1.000000
rad42	2.32499e-17	1.000000	2.32499e-17	1.000000
rad65	4.78938e-18	1.000000	4.78938e-18	1.000000
rad53	2.52919e-20	1.000000	2.52919e-20	1.000000
rad64	2.62060e-21	1.000000	2.62060e-21	1.000000
rad61	3.06689e-23	1.000000	3.06689e-23	1.000000
rad56	6.80095e-25	1.000000	6.80095e-25	1.000000
rad68syn	4.60298e-26	1.000000	4.60298e-26	1.000000
rad68anti	3.68680e-26	1.000000	3.68680e-26	1.000000
rad40syn	7.53654e-30	1.000000	7.53654e-30	1.000000
rad40anti	5.95184e-30	1.000000	5.95184e-30	1.000000
rad73	5.47778e-31	1.000000	5.47778e-31	1.000000
PAH8+H	6.68141e-32	1.000000	6.68141e-32	1.000000
rad47	6.17129e-35	1.000000	6.17129e-35	1.000000
rad26	4.94516e-35	1.000000	4.94516e-35	1.000000
rad71	4.16930e-35	1.000000	4.16930e-35	1.000000
rad2	1.68928e-35	1.000000	1.68928e-35	1.000000
rad28	1.19590e-35	1.000000	1.19590e-35	1.000000
rad6	2.18479e-36	1.000000	2.18479e-36	1.000000
rad1	1.10261e-36	1.000000	1.10261e-36	1.000000
rad19anti	6.35581e-37	1.000000	6.35581e-37	1.000000
rad3	3.73914e-37	1.000000	3.73914e-37	1.000000
rad4	1.90364e-37	1.000000	1.90364e-37	1.000000
rad10	1.53320e-37	1.000000	1.53320e-37	1.000000
rad14	2.37776e-38	1.000000	2.37776e-38	1.000000
rad25	1.27944e-38	1.000000	1.27944e-38	1.000000
rad27	2.77524e-39	1.000000	2.77524e-39	1.000000
rad7	1.60816e-40	1.000000	1.60816e-40	1.000000
rad9	1.02519e-40	1.000000	1.02519e-40	1.000000
rad11	8.37526e-41	1.000000	8.37526e-41	1.000000
rad31	1.04782e-41	1.000000	1.04782e-41	1.000000
rad5	3.18238e-42	1.000000	3.18238e-42	1.000000
rad13	9.07543e-43	1.000000	9.07543e-43	1.000000
rad33	2.21868e-43	1.000000	2.21868e-43	1.000000
rad15	4.50817e-44	1.000000	4.50817e-44	1.000000
rad20	2.09725e-45	1.000000	2.09725e-45	1.000000
rad21	1.76508e-45	1.000000	1.76508e-45	1.000000
rad19syn	4.98180e-46	1.000000	4.98180e-46	1.000000
rad12	7.90912e-47	1.000000	7.90912e-47	1.000000
rad18	1.39664e-47	1.000000	1.39664e-47	1.000000
rad23	9.65861e-49	1.000000	9.65861e-49	1.000000
rad45	1.13189e-49	1.000000	1.13189e-49	1.000000
rad22	4.82775e-50	1.000000	4.82775e-50	1.000000
rad24	8.16913e-51	1.000000	8.16913e-51	1.000000
rad36	6.94926e-51	1.000000	6.94926e-51	1.000000

rad8 | 8.48093e-68 1.000000 | 8.48093e-68 1.000000

0.100000000E-08 Pa, 150.000000 K

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

Total | 6.34137e-15 (1.00) | 6.34137e-15 (1.00)
Formation of rad19 | 6.34135e-15 (1.000) | 6.34135e-15 (1.000)
H-abstraction to cyc2enyl | 1.81685e-20 (2.87e-06) | 1.81685e-20 (2.87e-06)
H-abstraction to cyc1enyl | 2.23765e-25 (3.53e-11) | 2.23765e-25 (3.53e-11)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999692	0.999692	0.999692	0.999692
PhCHCCH2+H	0.000289592	0.999982	0.000289592	0.999982
PhCCH+CH3	5.11623e-06	0.999987	5.11623e-06	0.999987
C2H2+PhCH2	3.86834e-06	0.999991	3.86834e-06	0.999991
PhCCCH3+H	2.96768e-06	0.999994	2.96768e-06	0.999994
Benzene+cycloprop-2-enylidene	2.86508e-06	0.999997	2.86508e-06	0.999997
Ph+MeAc	2.36224e-06	0.999999	2.36224e-06	0.999999
rad67	7.01968e-07	1.000000	7.01968e-07	1.000000
rad35	3.05869e-07	1.000000	3.05869e-07	1.000000
Ph+Allene	2.36598e-07	1.000000	2.36598e-07	1.000000
PhCH2CCH+H	3.15146e-08	1.000000	3.15146e-08	1.000000
PAH7+H	2.88839e-08	1.000000	2.88839e-08	1.000000
rad39	8.15167e-09	1.000000	8.15167e-09	1.000000
rad37	7.71444e-09	1.000000	7.71444e-09	1.000000
rad30	5.77470e-09	1.000000	5.77470e-09	1.000000
PAH9+H	4.22009e-10	1.000000	4.22009e-10	1.000000
rad38	1.86919e-10	1.000000	1.86919e-10	1.000000
Benzene+cycloprop-1-enylidene	3.52865e-11	1.000000	3.52865e-11	1.000000
rad60syn	2.92988e-11	1.000000	2.92988e-11	1.000000
PAH10+CH3	1.59406e-11	1.000000	1.59406e-11	1.000000
rad60anti	1.45059e-11	1.000000	1.45059e-11	1.000000
PAH3+H	1.41866e-11	1.000000	1.41866e-11	1.000000
rad46	1.17105e-11	1.000000	1.17105e-11	1.000000
PhcycC3H3_A+H	4.70694e-12	1.000000	4.70694e-12	1.000000
rad59	2.85583e-12	1.000000	2.85583e-12	1.000000
rad43	6.57518e-13	1.000000	6.57518e-13	1.000000
rad54	5.85445e-13	1.000000	5.85445e-13	1.000000
rad62	1.45031e-13	1.000000	1.45031e-13	1.000000
rad50	1.02199e-13	1.000000	1.02199e-13	1.000000
Phenyl+cycC3H4	2.61242e-14	1.000000	0.000000	1.000000
rad70	1.23994e-14	1.000000	1.23994e-14	1.000000
rad55	5.49294e-15	1.000000	5.49294e-15	1.000000
PhcycC3H3_B+H	4.08980e-15	1.000000	4.08980e-15	1.000000
PAH1+H	3.71111e-15	1.000000	3.71111e-15	1.000000
rad52	8.01987e-16	1.000000	8.01987e-16	1.000000
rad58	3.41821e-16	1.000000	3.41821e-16	1.000000
rad51	2.53178e-16	1.000000	2.53178e-16	1.000000
rad34	2.00908e-16	1.000000	2.00908e-16	1.000000
rad41	3.81683e-17	1.000000	3.81683e-17	1.000000
rad42	2.93833e-17	1.000000	2.93833e-17	1.000000
rad65	5.66165e-18	1.000000	5.66165e-18	1.000000
rad53	5.02100e-20	1.000000	5.02100e-20	1.000000
rad64	6.27506e-21	1.000000	6.27506e-21	1.000000
rad61	1.25963e-22	1.000000	1.25963e-22	1.000000
rad56	3.47179e-24	1.000000	3.47179e-24	1.000000
rad68syn	2.64356e-25	1.000000	2.64356e-25	1.000000
rad68anti	2.10658e-25	1.000000	2.10658e-25	1.000000
rad40syn	8.88016e-29	1.000000	8.88016e-29	1.000000
rad40anti	7.03998e-29	1.000000	7.03998e-29	1.000000
rad73	5.47735e-30	1.000000	5.47735e-30	1.000000
PAH8+H	1.26388e-30	1.000000	1.26388e-30	1.000000
rad71	9.41848e-34	1.000000	9.41848e-34	1.000000
rad47	6.13964e-35	1.000000	6.13964e-35	1.000000
rad26	4.56081e-35	1.000000	4.56081e-35	1.000000
rad28	1.09488e-35	1.000000	1.09488e-35	1.000000
rad2	7.85279e-36	1.000000	7.85279e-36	1.000000
rad6	2.01257e-36	1.000000	2.01257e-36	1.000000
rad19anti	1.44031e-36	1.000000	1.44031e-36	1.000000
rad1	5.15143e-37	1.000000	5.15143e-37	1.000000
rad3	1.77717e-37	1.000000	1.77717e-37	1.000000
rad10	1.72044e-37	1.000000	1.72044e-37	1.000000
rad4	9.05944e-38	1.000000	9.05944e-38	1.000000
rad14	2.33310e-38	1.000000	2.33310e-38	1.000000
rad25	1.27736e-38	1.000000	1.27736e-38	1.000000
rad27	2.79716e-39	1.000000	2.79716e-39	1.000000
rad7	1.48485e-40	1.000000	1.48485e-40	1.000000
rad9	1.32572e-40	1.000000	1.32572e-40	1.000000

rad11	8.13441e-41	1.00000	8.13441e-41	1.00000
rad31	1.96252e-41	1.00000	1.96252e-41	1.00000
rad5	3.01062e-42	1.00000	3.01062e-42	1.00000
rad13	8.41080e-43	1.00000	8.41080e-43	1.00000
rad33	2.44380e-43	1.00000	2.44380e-43	1.00000
rad15	5.83331e-44	1.00000	5.83331e-44	1.00000
rad20	2.40367e-45	1.00000	2.40367e-45	1.00000
rad21	2.03985e-45	1.00000	2.03985e-45	1.00000
rad19syn	1.23836e-45	1.00000	1.23836e-45	1.00000
rad12	1.13793e-46	1.00000	1.13793e-46	1.00000
rad18	1.46855e-47	1.00000	1.46855e-47	1.00000
rad23	2.04873e-48	1.00000	2.04873e-48	1.00000
rad45	1.19862e-49	1.00000	1.19862e-49	1.00000
rad22	4.82867e-50	1.00000	4.82867e-50	1.00000
rad24	1.07828e-50	1.00000	1.07828e-50	1.00000
rad36	7.36557e-51	1.00000	7.36557e-51	1.00000
rad8	1.27613e-67	1.00000	1.27613e-67	1.00000

0.100000000E-08 Pa, 160.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.84423e-15 (1.00)	7.84423e-15 (1.00)
Formation of rad19	7.84418e-15 (1.000)	7.84418e-15 (1.000)
H-abstraction to cyc2enyl	5.05321e-20 (6.44e-06)	5.05321e-20 (6.44e-06)
H-abstraction to cyclenyl	1.29479e-24 (1.65e-10)	1.29479e-24 (1.65e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999679	0.999679	0.999679	0.999679
PhCHCCH2+H	0.000298982	0.999978	0.000298982	0.999978
Benzene+cycloprop-2-enylidene	6.44194e-06	0.999984	6.44194e-06	0.999984
PhCCH+CH3	5.29275e-06	0.999989	5.29275e-06	0.999989
C2H2+PhCH2	4.03297e-06	0.999993	4.03297e-06	0.999993
PhCCCH3+H	3.08198e-06	0.999996	3.08198e-06	0.999996
Ph+MeAc	2.47440e-06	0.999999	2.47440e-06	0.999999
rad67	7.33696e-07	1.000000	7.33696e-07	1.000000
rad35	3.19106e-07	1.000000	3.19106e-07	1.000000
Ph+Allene	2.52226e-07	1.000000	2.52226e-07	1.000000
PhCH2CCH+H	3.39643e-08	1.000000	3.39643e-08	1.000000
PAH7+H	3.04941e-08	1.000000	3.04941e-08	1.000000
rad39	8.60568e-09	1.000000	8.60568e-09	1.000000
rad37	8.17136e-09	1.000000	8.17136e-09	1.000000
rad30	6.03351e-09	1.000000	6.03351e-09	1.000000
PAH9+H	4.47144e-10	1.000000	4.47144e-10	1.000000
rad38	1.99330e-10	1.000000	1.99330e-10	1.000000
Benzene+cycloprop-1-enylidene	1.65062e-10	1.000000	1.65062e-10	1.000000
rad60syn	3.11859e-11	1.000000	3.11859e-11	1.000000
PAH10+CH3	1.80192e-11	1.000000	1.80192e-11	1.000000
rad60anti	1.54660e-11	1.000000	1.54660e-11	1.000000
PAH3+H	1.54653e-11	1.000000	1.54653e-11	1.000000
rad46	1.25466e-11	1.000000	1.25466e-11	1.000000
PhcycC3H3_A+H	6.04093e-12	1.000000	6.04093e-12	1.000000
rad59	3.10145e-12	1.000000	3.10145e-12	1.000000
rad43	7.31202e-13	1.000000	7.31202e-13	1.000000
rad54	6.61022e-13	1.000000	6.61022e-13	1.000000
rad62	1.61671e-13	1.000000	1.61671e-13	1.000000
rad50	1.13351e-13	1.000000	1.13351e-13	1.000000
Phenyl+cycC3H4	3.86829e-14	1.000000	0.000000	1.000000
rad70	1.45456e-14	1.000000	1.45456e-14	1.000000
PhcycC3H3_B+H	8.12740e-15	1.000000	8.12740e-15	1.000000
rad55	6.44670e-15	1.000000	6.44670e-15	1.000000
PAH1+H	4.60690e-15	1.000000	4.60690e-15	1.000000
rad52	9.13581e-16	1.000000	9.13581e-16	1.000000
rad58	4.08006e-16	1.000000	4.08006e-16	1.000000
rad51	2.97957e-16	1.000000	2.97957e-16	1.000000
rad34	2.50279e-16	1.000000	2.50279e-16	1.000000
rad41	4.99159e-17	1.000000	4.99159e-17	1.000000
rad42	3.74399e-17	1.000000	3.74399e-17	1.000000
rad65	6.76165e-18	1.000000	6.76165e-18	1.000000
rad53	9.55514e-20	1.000000	9.55514e-20	1.000000
rad64	1.40204e-20	1.000000	1.40204e-20	1.000000
rad61	4.46330e-22	1.000000	4.46330e-22	1.000000
rad56	1.48090e-23	1.000000	1.48090e-23	1.000000
rad68syn	1.24419e-24	1.000000	1.24419e-24	1.000000
rad68anti	9.86157e-25	1.000000	9.86157e-25	1.000000
rad40syn	7.79816e-28	1.000000	7.79816e-28	1.000000
rad40anti	6.20621e-28	1.000000	6.20621e-28	1.000000
rad73	4.23082e-29	1.000000	4.23082e-29	1.000000
PAH8+H	1.68146e-29	1.000000	1.68146e-29	1.000000

rad71	1.46142e-32	1.00000	1.46142e-32	1.00000
rad47	6.18322e-35	1.00000	6.18322e-35	1.00000
rad26	4.22934e-35	1.00000	4.22934e-35	1.00000
rad28	1.00759e-35	1.00000	1.00759e-35	1.00000
rad19anti	3.44720e-36	1.00000	3.44720e-36	1.00000
rad2	2.31926e-36	1.00000	2.31926e-36	1.00000
rad6	1.87943e-36	1.00000	1.87943e-36	1.00000
rad10	2.09800e-37	1.00000	2.09800e-37	1.00000
rad1	1.52929e-37	1.00000	1.52929e-37	1.00000
rad3	6.49947e-38	1.00000	6.49947e-38	1.00000
rad4	3.31724e-38	1.00000	3.31724e-38	1.00000
rad14	2.30783e-38	1.00000	2.30783e-38	1.00000
rad25	1.28621e-38	1.00000	1.28621e-38	1.00000
rad27	2.84480e-39	1.00000	2.84480e-39	1.00000
rad9	1.74980e-40	1.00000	1.74980e-40	1.00000
rad7	1.38994e-40	1.00000	1.38994e-40	1.00000
rad11	8.00171e-41	1.00000	8.00171e-41	1.00000
rad31	3.84757e-41	1.00000	3.84757e-41	1.00000
rad5	2.86420e-42	1.00000	2.86420e-42	1.00000
rad13	7.90644e-43	1.00000	7.90644e-43	1.00000
rad33	2.72585e-43	1.00000	2.72585e-43	1.00000
rad15	7.70575e-44	1.00000	7.70575e-44	1.00000
rad19syn	3.23538e-45	1.00000	3.23538e-45	1.00000
rad20	2.79293e-45	1.00000	2.79293e-45	1.00000
rad21	2.39112e-45	1.00000	2.39112e-45	1.00000
rad12	1.67927e-46	1.00000	1.67927e-46	1.00000
rad18	1.55844e-47	1.00000	1.55844e-47	1.00000
rad23	4.75036e-48	1.00000	4.75036e-48	1.00000
rad45	7.32325e-50	1.00000	7.32325e-50	1.00000
rad22	4.86333e-50	1.00000	4.86333e-50	1.00000
rad24	1.45244e-50	1.00000	1.45244e-50	1.00000
rad36	4.50716e-51	1.00000	4.50716e-51	1.00000
rad8	1.96346e-67	1.00000	1.96346e-67	1.00000

0.100000000E-08 Pa, 170.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	9.49598e-15 (1.00)	9.49598e-15 (1.00)
Formation of rad19	9.49586e-15 (1.000)	9.49586e-15 (1.000)
H-abstraction to cyc2enyl	1.24279e-19 (1.31e-05)	1.24279e-19 (1.31e-05)
H-abstraction to cyclenyl	6.08025e-24 (6.40e-10)	6.08025e-24 (6.40e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999661	0.999661	0.999661	0.999661
PhCHCCH2+H	0.000309167	0.999970	0.000309167	0.999970
Benzene+cycloprop-2-enylidene	1.30875e-05	0.999983	1.30875e-05	0.999983
PhCCH+CH3	5.48398e-06	0.999989	5.48398e-06	0.999989
C2H2+PhCH2	4.21347e-06	0.999993	4.21347e-06	0.999993
PhCCCH3+H	3.20659e-06	0.999996	3.20659e-06	0.999996
Ph+MeAc	2.59788e-06	0.999999	2.59788e-06	0.999999
rad67	7.68575e-07	0.999999	7.68575e-07	0.999999
rad35	3.33631e-07	1.000000	3.33631e-07	1.000000
Ph+Allene	2.69815e-07	1.000000	2.69815e-07	1.000000
PhCH2CCH+H	3.67554e-08	1.000000	3.67554e-08	1.000000
PAH7+H	3.22859e-08	1.000000	3.22859e-08	1.000000
rad39	9.11054e-09	1.000000	9.11054e-09	1.000000
rad37	8.68151e-09	1.000000	8.68151e-09	1.000000
rad30	6.31840e-09	1.000000	6.31840e-09	1.000000
Benzene+cycloprop-1-enylidene	6.40297e-10	1.000000	6.40297e-10	1.000000
PAH9+H	4.75294e-10	1.000000	4.75294e-10	1.000000
rad38	2.13351e-10	1.000000	2.13351e-10	1.000000
rad60syn	3.33085e-11	1.000000	3.33085e-11	1.000000
PAH10+CH3	2.05094e-11	1.000000	2.05094e-11	1.000000
PAH3+H	1.69431e-11	1.000000	1.69431e-11	1.000000
rad60anti	1.65480e-11	1.000000	1.65480e-11	1.000000
rad46	1.34952e-11	1.000000	1.34952e-11	1.000000
PhcycC3H3_A+H	7.80973e-12	1.000000	7.80973e-12	1.000000
rad59	3.38400e-12	1.000000	3.38400e-12	1.000000
rad43	8.17741e-13	1.000000	8.17741e-13	1.000000
rad54	7.51515e-13	1.000000	7.51515e-13	1.000000
rad62	1.81221e-13	1.000000	1.81221e-13	1.000000
rad50	1.26512e-13	1.000000	1.26512e-13	1.000000
Phenyl+cycC3H4	5.71891e-14	1.000000	0.000000	1.000000
rad70	1.72142e-14	1.000000	1.72142e-14	1.000000
PhcycC3H3_B+H	1.54798e-14	1.000000	1.54798e-14	1.000000
rad55	7.63217e-15	1.000000	7.63217e-15	1.000000
PAH1+H	5.77897e-15	1.000000	5.77897e-15	1.000000
rad52	1.04914e-15	1.000000	1.04914e-15	1.000000

rad58	4.91782e-16	1.00000	4.91782e-16	1.00000
rad51	3.54209e-16	1.00000	3.54209e-16	1.00000
rad34	3.15103e-16	1.00000	3.15103e-16	1.00000
rad41	6.58203e-17	1.00000	6.58203e-17	1.00000
rad42	4.80841e-17	1.00000	4.80841e-17	1.00000
rad65	8.16178e-18	1.00000	8.16178e-18	1.00000
rad53	1.76036e-19	1.00000	1.76036e-19	1.00000
rad64	2.96517e-20	1.00000	2.96517e-20	1.00000
rad61	1.40406e-21	1.00000	1.40406e-21	1.00000
rad56	5.46521e-23	1.00000	5.46521e-23	1.00000
rad68syn	4.98617e-24	1.00000	4.98617e-24	1.00000
rad68anti	3.92935e-24	1.00000	3.92935e-24	1.00000
rad40syn	5.38958e-27	1.00000	5.38958e-27	1.00000
rad40anti	4.30388e-27	1.00000	4.30388e-27	1.00000
rad73	2.64778e-28	1.00000	2.64778e-28	1.00000
PAH8+H	1.67789e-28	1.00000	1.67789e-28	1.00000
rad71	1.66935e-31	1.00000	1.66935e-31	1.00000
rad47	6.30329e-35	1.00000	6.30329e-35	1.00000
rad26	3.94021e-35	1.00000	3.94021e-35	1.00000
rad28	9.31323e-36	1.00000	9.31323e-36	1.00000
rad19anti	8.69987e-36	1.00000	8.69987e-36	1.00000
rad6	1.79039e-36	1.00000	1.79039e-36	1.00000
rad2	8.50484e-37	1.00000	8.50484e-37	1.00000
rad10	2.75333e-37	1.00000	2.75333e-37	1.00000
rad1	5.64211e-38	1.00000	5.64211e-38	1.00000
rad3	2.71857e-38	1.00000	2.71857e-38	1.00000
rad14	2.29956e-38	1.00000	2.29956e-38	1.00000
rad4	1.38981e-38	1.00000	1.38981e-38	1.00000
rad25	1.30523e-38	1.00000	1.30523e-38	1.00000
rad27	2.91726e-39	1.00000	2.91726e-39	1.00000
rad9	2.35602e-40	1.00000	2.35602e-40	1.00000
rad7	1.32729e-40	1.00000	1.32729e-40	1.00000
rad11	7.98486e-41	1.00000	7.98486e-41	1.00000
rad31	7.89253e-41	1.00000	7.89253e-41	1.00000
rad5	2.73792e-42	1.00000	2.73792e-42	1.00000
rad13	7.58504e-43	1.00000	7.58504e-43	1.00000
rad33	3.07680e-43	1.00000	3.07680e-43	1.00000
rad15	1.03862e-43	1.00000	1.03862e-43	1.00000
rad19syn	8.89196e-45	1.00000	8.89196e-45	1.00000
rad20	3.28783e-45	1.00000	3.28783e-45	1.00000
rad21	2.84108e-45	1.00000	2.84108e-45	1.00000
rad12	2.54088e-46	1.00000	2.54088e-46	1.00000
rad18	1.66777e-47	1.00000	1.66777e-47	1.00000
rad23	1.19928e-47	1.00000	1.19928e-47	1.00000
rad45	5.88715e-50	1.00000	5.88715e-50	1.00000
rad22	4.92826e-50	1.00000	4.92826e-50	1.00000
rad24	1.99556e-50	1.00000	1.99556e-50	1.00000
rad36	3.63205e-51	1.00000	3.63205e-51	1.00000
rad8	3.08693e-67	1.00000	3.08693e-67	1.00000

0.100000000E-08 Pa, 180.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.12884e-14 (1.00)	1.12884e-14 (1.00)
Formation of rad19	1.12881e-14 (1.000)	1.12881e-14 (1.000)
H-abstraction to cyc2enyl	2.75916e-19 (2.44e-05)	2.75916e-19 (2.44e-05)
H-abstraction to cyclenyl	2.39955e-23 (2.13e-09)	2.39955e-23 (2.13e-09)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999638	0.999638	0.999638	0.999638
PhCHCCH2+H	0.000320239	0.999958	0.000320239	0.999958
Benzene+cycloprop-2-enylidene	2.44424e-05	0.999982	2.44424e-05	0.999982
PhCCH+CH3	5.69151e-06	0.999988	5.69151e-06	0.999988
C2H2+PhCH2	4.41182e-06	0.999992	4.41182e-06	0.999992
PhCCCH3+H	3.34271e-06	0.999996	3.34271e-06	0.999996
Ph+MeAc	2.73412e-06	0.999998	2.73412e-06	0.999998
rad67	8.07010e-07	0.999999	8.07010e-07	0.999999
rad35	3.49603e-07	1.000000	3.49603e-07	1.000000
Ph+Allene	2.89684e-07	1.000000	2.89684e-07	1.000000
PhCH2CCH+H	3.99486e-08	1.000000	3.99486e-08	1.000000
PAH7+H	3.42855e-08	1.000000	3.42855e-08	1.000000
rad39	9.67359e-09	1.000000	9.67359e-09	1.000000
rad37	9.25289e-09	1.000000	9.25289e-09	1.000000
rad30	6.63280e-09	1.000000	6.63280e-09	1.000000
Benzene+cycloprop-1-enylidene	2.12567e-09	1.000000	2.12567e-09	1.000000
PAH9+H	5.06928e-10	1.000000	5.06928e-10	1.000000
rad38	2.29255e-10	1.000000	2.29255e-10	1.000000
rad60syn	3.57046e-11	1.000000	3.57046e-11	1.000000

PAH10+CH3	2.35102e-11	1.000000	2.35102e-11	1.000000
PAH3+H	1.86591e-11	1.000000	1.86591e-11	1.000000
rad60anti	1.77718e-11	1.000000	1.77718e-11	1.000000
rad46	1.45760e-11	1.000000	1.45760e-11	1.000000
PhcycC3H3_A+H	1.01655e-11	1.000000	1.01655e-11	1.000000
rad59	3.71052e-12	1.000000	3.71052e-12	1.000000
rad43	9.19879e-13	1.000000	9.19879e-13	1.000000
rad54	8.60523e-13	1.000000	8.60523e-13	1.000000
rad62	2.04292e-13	1.000000	2.04292e-13	1.000000
rad50	1.42141e-13	1.000000	1.42141e-13	1.000000
Phenyl+cycC3H4	8.44565e-14	1.000000	0.000000	1.000000
PhcycC3H3_B+H	2.84776e-14	1.000000	2.84776e-14	1.000000
rad70	2.05555e-14	1.000000	2.05555e-14	1.000000
rad55	9.11579e-15	1.000000	9.11579e-15	1.000000
PAH1+H	7.32394e-15	1.000000	7.32394e-15	1.000000
rad52	1.21498e-15	1.000000	1.21498e-15	1.000000
rad58	5.98636e-16	1.000000	5.98636e-16	1.000000
rad51	4.25485e-16	1.000000	4.25485e-16	1.000000
rad34	4.00857e-16	1.000000	4.00857e-16	1.000000
rad41	8.74643e-17	1.000000	8.74643e-17	1.000000
rad42	6.22157e-17	1.000000	6.22157e-17	1.000000
rad65	9.95949e-18	1.000000	9.95949e-18	1.000000
rad53	3.16150e-19	1.000000	3.16150e-19	1.000000
rad64	5.99926e-20	1.000000	5.99926e-20	1.000000
rad61	4.00801e-21	1.000000	4.00801e-21	1.000000
rad56	1.79227e-22	1.000000	1.79227e-22	1.000000
rad68syn	1.75240e-23	1.000000	1.75240e-23	1.000000
rad68anti	1.37247e-23	1.000000	1.37247e-23	1.000000
rad40syn	3.05803e-26	1.000000	3.05803e-26	1.000000
rad40anti	2.44831e-26	1.000000	2.44831e-26	1.000000
rad73	1.39313e-27	1.000000	1.39313e-27	1.000000
PAH8+H	1.32188e-27	1.000000	1.32188e-27	1.000000
rad71	1.48898e-30	1.000000	1.48898e-30	1.000000
rad47	6.50507e-35	1.000000	6.50507e-35	1.000000
rad26	3.68542e-35	1.000000	3.68542e-35	1.000000
rad19anti	2.31119e-35	1.000000	2.31119e-35	1.000000
rad28	8.64000e-36	1.000000	8.64000e-36	1.000000
rad6	1.77552e-36	1.000000	1.77552e-36	1.000000
rad2	7.95305e-37	1.000000	7.95305e-37	1.000000
rad10	3.86268e-37	1.000000	3.86268e-37	1.000000
rad1	5.30961e-38	1.000000	5.30961e-38	1.000000
rad14	2.30671e-38	1.000000	2.30671e-38	1.000000
rad3	2.02423e-38	1.000000	2.02423e-38	1.000000
rad25	1.33411e-38	1.000000	1.33411e-38	1.000000
rad4	1.03676e-38	1.000000	1.03676e-38	1.000000
rad27	3.01462e-39	1.000000	3.01462e-39	1.000000
rad9	3.23501e-40	1.000000	3.23501e-40	1.000000
rad31	1.69327e-40	1.000000	1.69327e-40	1.000000
rad7	1.31924e-40	1.000000	1.31924e-40	1.000000
rad11	8.13664e-41	1.000000	8.13664e-41	1.000000
rad5	2.62787e-42	1.000000	2.62787e-42	1.000000
rad13	7.57321e-43	1.000000	7.57321e-43	1.000000
rad33	3.51271e-43	1.000000	3.51271e-43	1.000000
rad15	1.42784e-43	1.000000	1.42784e-43	1.000000
rad19syn	2.57212e-44	1.000000	2.57212e-44	1.000000
rad20	3.91926e-45	1.000000	3.91926e-45	1.000000
rad21	3.42008e-45	1.000000	3.42008e-45	1.000000
rad12	3.94125e-46	1.000000	3.94125e-46	1.000000
rad23	3.30104e-47	1.000000	3.30104e-47	1.000000
rad18	1.79860e-47	1.000000	1.79860e-47	1.000000
rad45	1.27023e-49	1.000000	1.27023e-49	1.000000
rad22	5.02126e-50	1.000000	5.02126e-50	1.000000
rad24	2.79582e-50	1.000000	2.79582e-50	1.000000
rad36	7.85018e-51	1.000000	7.85018e-51	1.000000
rad8	4.95693e-67	1.000000	4.95693e-67	1.000000

0.100000000E-08 Pa, 190.000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	1.32132e-14 (1.00)	1.32132e-14 (1.00)		
Formation of rad19	1.32126e-14 (1.000)	1.32126e-14 (1.000)		
H-abstraction to cyc2enyl	5.62053e-19 (4.25e-05)	5.62053e-19 (4.25e-05)		
H-abstraction to cyclenyl	8.18073e-23 (6.19e-09)	8.18073e-23 (6.19e-09)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999606	0.999606	0.999606	0.999606
PhCHCH2+H	0.000332293	0.999939	0.000332293	0.999939
Benzene+cycloprop-2-enylidene	4.25373e-05	0.999981	4.25373e-05	0.999981

PhCCH+CH3	5.91707e-06	0.999987	5.91707e-06	0.999987
C2H2+PhCH2	4.63023e-06	0.999992	4.63023e-06	0.999992
PhCCCH3+H	3.49167e-06	0.999995	3.49167e-06	0.999995
Ph+MeAc	2.88479e-06	0.999998	2.88479e-06	0.999998
rad67	8.49457e-07	0.999999	8.49457e-07	0.999999
rad35	3.67207e-07	0.999999	3.67207e-07	0.999999
Ph+Allene	3.12197e-07	1.000000	3.12197e-07	1.000000
PhCH2CCH+H	4.36151e-08	1.000000	4.36151e-08	1.000000
PAH7+H	3.65230e-08	1.000000	3.65230e-08	1.000000
rad39	1.03032e-08	1.000000	1.03032e-08	1.000000
rad37	9.89464e-09	1.000000	9.89464e-09	1.000000
rad30	6.98058e-09	1.000000	6.98058e-09	1.000000
Benzene+cycloprop-1-enylidene	6.19133e-09	1.000000	6.19133e-09	1.000000
PAH9+H	5.42590e-10	1.000000	5.42590e-10	1.000000
rad38	2.47359e-10	1.000000	2.47359e-10	1.000000
rad60syn	3.84183e-11	1.000000	3.84183e-11	1.000000
PAH10+CH3	2.71459e-11	1.000000	2.71459e-11	1.000000
PAH3+H	2.06610e-11	1.000000	2.06610e-11	1.000000
rad60anti	1.91607e-11	1.000000	1.91607e-11	1.000000
rad46	1.58119e-11	1.000000	1.58119e-11	1.000000
PhcycC3H3_A+H	1.33135e-11	1.000000	1.33135e-11	1.000000
rad59	4.08946e-12	1.000000	4.08946e-12	1.000000
rad43	1.04096e-12	1.000000	1.04096e-12	1.000000
rad54	9.92552e-13	1.000000	9.92552e-13	1.000000
rad62	2.31631e-13	1.000000	2.31631e-13	1.000000
rad50	1.60801e-13	1.000000	1.60801e-13	1.000000
Phenyl+cycC3H4	1.24603e-13	1.000000	0.000000	1.000000
PhcycC3H3_B+H	5.08976e-14	1.000000	5.08976e-14	1.000000
rad70	2.47658e-14	1.000000	2.47658e-14	1.000000
rad55	1.09840e-14	1.000000	1.09840e-14	1.000000
PAH1+H	9.37357e-15	1.000000	9.37357e-15	1.000000
rad52	1.41930e-15	1.000000	1.41930e-15	1.000000
rad58	7.35874e-16	1.000000	7.35874e-16	1.000000
rad51	5.16512e-16	1.000000	5.16512e-16	1.000000
rad34	5.15049e-16	1.000000	5.15049e-16	1.000000
rad41	1.17041e-16	1.000000	1.17041e-16	1.000000
rad42	8.10502e-17	1.000000	8.10502e-17	1.000000
rad65	1.22862e-17	1.000000	1.22862e-17	1.000000
rad53	5.56219e-19	1.000000	5.56219e-19	1.000000
rad64	1.17042e-19	1.000000	1.17042e-19	1.000000
rad61	1.05588e-20	1.000000	1.05588e-20	1.000000
rad56	5.33231e-22	1.000000	5.33231e-22	1.000000
rad68syn	5.52671e-23	1.000000	5.52671e-23	1.000000
rad68anti	4.30019e-23	1.000000	4.30019e-23	1.000000
rad40syn	1.47212e-25	1.000000	1.47212e-25	1.000000
rad40anti	1.18054e-25	1.000000	1.18054e-25	1.000000
PAH8+H	8.53886e-27	1.000000	8.53886e-27	1.000000
rad73	6.34253e-27	1.000000	6.34253e-27	1.000000
rad71	1.07847e-29	1.000000	1.07847e-29	1.000000
rad47	6.79798e-35	1.000000	6.79798e-35	1.000000
rad19anti	6.45010e-35	1.000000	6.45010e-35	1.000000
rad26	3.45886e-35	1.000000	3.45886e-35	1.000000
rad28	8.04044e-36	1.000000	8.04044e-36	1.000000
rad2	6.33177e-36	1.000000	6.33177e-36	1.000000
rad6	1.94729e-36	1.000000	1.94729e-36	1.000000
rad10	5.76431e-37	1.000000	5.76431e-37	1.000000
rad1	4.25843e-37	1.000000	4.25843e-37	1.000000
rad14	2.32828e-38	1.000000	2.32828e-38	1.000000
rad25	1.37281e-38	1.000000	1.37281e-38	1.000000
rad3	1.23527e-38	1.000000	1.23527e-38	1.000000
rad4	6.33714e-39	1.000000	6.33714e-39	1.000000
rad27	3.13775e-39	1.000000	3.13775e-39	1.000000
rad9	4.52904e-40	1.000000	4.52904e-40	1.000000
rad31	3.79748e-40	1.000000	3.79748e-40	1.000000
rad7	1.44919e-40	1.000000	1.44919e-40	1.000000
rad11	8.65440e-41	1.000000	8.65440e-41	1.000000
rad5	2.53102e-42	1.000000	2.53102e-42	1.000000
rad13	8.34162e-43	1.000000	8.34162e-43	1.000000
rad33	4.05539e-43	1.000000	4.05539e-43	1.000000
rad15	2.00176e-43	1.000000	2.00176e-43	1.000000
rad19syn	7.83212e-44	1.000000	7.83212e-44	1.000000
rad20	4.72928e-45	1.000000	4.72928e-45	1.000000
rad21	4.16983e-45	1.000000	4.16983e-45	1.000000
rad12	6.26740e-46	1.000000	6.26740e-46	1.000000
rad23	9.91306e-47	1.000000	9.91306e-47	1.000000
rad18	1.95367e-47	1.000000	1.95367e-47	1.000000
rad45	1.72803e-49	1.000000	1.72803e-49	1.000000
rad22	5.14142e-50	1.000000	5.14142e-50	1.000000
rad24	3.99372e-50	1.000000	3.99372e-50	1.000000
rad36	1.07080e-50	1.000000	1.07080e-50	1.000000

rad8 | 8.12778e-67 1.000000 | 8.12778e-67 1.000000

0.100000000E-08 Pa, 200.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.52621e-14 (1.00)	1.52621e-14 (1.00)
Formation of rad19	1.52610e-14 (1.000)	1.52610e-14 (1.000)
H-abstraction to cyc2enyl	1.06427e-18 (6.97e-05)	1.06427e-18 (6.97e-05)
H-abstraction to cyc1enyl	2.46309e-22 (1.61e-08)	2.46309e-22 (1.61e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999565	0.999565	0.999565	0.999565
PhCHCCH2+H	0.000345433	0.999911	0.000345433	0.999911
Benzene+cycloprop-2-enylidene	6.97330e-05	0.999980	6.97330e-05	0.999980
PhCCH+CH3	6.16243e-06	0.999987	6.16243e-06	0.999987
C2H2+PhCH2	4.87110e-06	0.999991	4.87110e-06	0.999991
PhCCCH3+H	3.65492e-06	0.999995	3.65492e-06	0.999995
Ph+MeAc	3.05169e-06	0.999998	3.05169e-06	0.999998
rad67	8.96414e-07	0.999999	8.96414e-07	0.999999
rad35	3.86641e-07	0.999999	3.86641e-07	0.999999
Ph+Allene	3.37776e-07	1.000000	3.37776e-07	1.000000
PhCH2CCH+H	4.78388e-08	1.000000	4.78388e-08	1.000000
PAH7+H	3.90324e-08	1.000000	3.90324e-08	1.000000
Benzene+cycloprop-1-enylidene	1.61386e-08	1.000000	1.61386e-08	1.000000
rad39	1.10085e-08	1.000000	1.10085e-08	1.000000
rad37	1.06172e-08	1.000000	1.06172e-08	1.000000
rad30	7.36603e-09	1.000000	7.36603e-09	1.000000
PAH9+H	5.82902e-10	1.000000	5.82902e-10	1.000000
rad38	2.68036e-10	1.000000	2.68036e-10	1.000000
rad60syn	4.15004e-11	1.000000	4.15004e-11	1.000000
PAH10+CH3	3.15724e-11	1.000000	3.15724e-11	1.000000
PAH3+H	2.30055e-11	1.000000	2.30055e-11	1.000000
rad60anti	2.07416e-11	1.000000	2.07416e-11	1.000000
PhcycC3H3_A+H	1.75314e-11	1.000000	1.75314e-11	1.000000
rad46	1.72300e-11	1.000000	1.72300e-11	1.000000
rad59	4.53088e-12	1.000000	4.53088e-12	1.000000
rad43	1.18504e-12	1.000000	1.18504e-12	1.000000
rad54	1.15325e-12	1.000000	1.15325e-12	1.000000
rad62	2.64143e-13	1.000000	2.64143e-13	1.000000
Phenyl+cycC3H4	1.83626e-13	1.000000	0.00000	1.000000
rad50	1.83198e-13	1.000000	1.83198e-13	1.000000
PhcycC3H3_B+H	8.87690e-14	1.000000	8.87690e-14	1.000000
rad70	3.01009e-14	1.000000	3.01009e-14	1.000000
rad55	1.33496e-14	1.000000	1.33496e-14	1.000000
PAH1+H	1.21077e-14	1.000000	1.21077e-14	1.000000
rad52	1.67258e-15	1.000000	1.67258e-15	1.000000
rad58	9.13220e-16	1.000000	9.13220e-16	1.000000
rad34	6.67958e-16	1.000000	6.67958e-16	1.000000
rad51	6.33617e-16	1.000000	6.33617e-16	1.000000
rad41	1.57585e-16	1.000000	1.57585e-16	1.000000
rad42	1.06227e-16	1.000000	1.06227e-16	1.000000
rad65	1.53192e-17	1.000000	1.53192e-17	1.000000
rad53	9.61974e-19	1.000000	9.61974e-19	1.000000
rad64	2.21495e-19	1.000000	2.21495e-19	1.000000
rad61	2.60103e-20	1.000000	2.60103e-20	1.000000
rad56	1.46279e-21	1.000000	1.46279e-21	1.000000
rad68syn	1.59261e-22	1.000000	1.59261e-22	1.000000
rad68anti	1.23075e-22	1.000000	1.23075e-22	1.000000
rad40syn	6.17076e-25	1.000000	6.17076e-25	1.000000
rad40anti	4.95189e-25	1.000000	4.95189e-25	1.000000
PAH8+H	4.65852e-26	1.000000	4.65852e-26	1.000000
rad73	2.55582e-26	1.000000	2.55582e-26	1.000000
rad71	6.53613e-29	1.000000	6.53613e-29	1.000000
rad19anti	1.88664e-34	1.000000	1.88664e-34	1.000000
rad47	7.19638e-35	1.000000	7.19638e-35	1.000000
rad26	3.25578e-35	1.000000	3.25578e-35	1.000000
rad28	7.50234e-36	1.000000	7.50234e-36	1.000000
rad2	4.45260e-36	1.000000	4.45260e-36	1.000000
rad6	2.72295e-36	1.000000	2.72295e-36	1.000000
rad10	9.11479e-37	1.000000	9.11479e-37	1.000000
rad1	3.01767e-37	1.000000	3.01767e-37	1.000000
rad3	3.92276e-38	1.000000	3.92276e-38	1.000000
rad14	2.36376e-38	1.000000	2.36376e-38	1.000000
rad4	2.01707e-38	1.000000	2.01707e-38	1.000000
rad25	1.42165e-38	1.000000	1.42165e-38	1.000000
rad27	3.28836e-39	1.000000	3.28836e-39	1.000000
rad31	8.89667e-40	1.000000	8.89667e-40	1.000000
rad9	6.46493e-40	1.000000	6.46493e-40	1.000000

rad7	2.02665e-40	1.000000	2.02665e-40	1.000000
rad11	1.02631e-40	1.000000	1.02631e-40	1.000000
rad5	2.44507e-42	1.000000	2.44507e-42	1.000000
rad13	1.16367e-42	1.000000	1.16367e-42	1.000000
rad33	4.73553e-43	1.000000	4.73553e-43	1.000000
rad15	2.86183e-43	1.000000	2.86183e-43	1.000000
rad19syn	2.51002e-43	1.000000	2.51002e-43	1.000000
rad20	5.77545e-45	1.000000	5.77545e-45	1.000000
rad21	5.14812e-45	1.000000	5.14812e-45	1.000000
rad12	1.02193e-45	1.000000	1.02193e-45	1.000000
rad23	3.28898e-46	1.000000	3.28898e-46	1.000000
rad18	2.13652e-47	1.000000	2.13652e-47	1.000000
rad45	6.86486e-48	1.000000	6.86486e-48	1.000000
rad36	4.26584e-49	1.000000	4.26584e-49	1.000000
rad24	5.81686e-50	1.000000	5.81686e-50	1.000000
rad22	5.28978e-50	1.000000	5.28978e-50	1.000000
rad8	1.36072e-66	1.000000	1.36072e-66	1.000000

0.100000000E-08 Pa, 210.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.74272e-14 (1.00)	1.74272e-14 (1.00)
Formation of rad19	1.74253e-14 (1.000)	1.74253e-14 (1.000)
H-abstraction to cyc2enyl	1.89310e-18 (0.000109)	1.89310e-18 (0.000109)
H-abstraction to cyclenyl	6.66714e-22 (3.83e-08)	6.66714e-22 (3.83e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999511	0.999511	0.999511	0.999511
PhCHCCH2+H	0.000359771	0.999871	0.000359771	0.999871
Benzene+cycloprop-2-enylidene	0.000108629	0.999980	0.000108629	0.999980
PhCCH+CH3	6.42954e-06	0.999986	6.42954e-06	0.999986
C2H2+PhCH2	5.13705e-06	0.999991	5.13705e-06	0.999991
PhCCCH3+H	3.83397e-06	0.999995	3.83397e-06	0.999995
Ph+MeAc	3.23682e-06	0.999998	3.23682e-06	0.999998
rad67	9.48433e-07	0.999999	9.48433e-07	0.999999
rad35	4.08123e-07	1.000000	4.08123e-07	1.000000
Ph+Allene	3.66908e-07	1.000000	3.66908e-07	1.000000
PhCH2CCH+H	5.27181e-08	1.000000	5.27181e-08	1.000000
PAH7+H	4.18517e-08	1.000000	4.18517e-08	1.000000
Benzene+cycloprop-1-enylidene	3.82571e-08	1.000000	3.82571e-08	1.000000
rad39	1.18003e-08	1.000000	1.18003e-08	1.000000
rad37	1.14322e-08	1.000000	1.14322e-08	1.000000
rad30	7.79386e-09	1.000000	7.79386e-09	1.000000
PAH9+H	6.28582e-10	1.000000	6.28582e-10	1.000000
rad38	2.91718e-10	1.000000	2.91718e-10	1.000000
rad60syn	4.50097e-11	1.000000	4.50097e-11	1.000000
PAH10+CH3	3.69848e-11	1.000000	3.69848e-11	1.000000
PAH3+H	2.57613e-11	1.000000	2.57613e-11	1.000000
PhcycC3H3_A+H	2.31914e-11	1.000000	2.31914e-11	1.000000
rad60anti	2.25454e-11	1.000000	2.25454e-11	1.000000
rad46	1.88621e-11	1.000000	1.88621e-11	1.000000
rad59	5.04687e-12	1.000000	5.04687e-12	1.000000
rad43	1.35708e-12	1.000000	1.35708e-12	1.000000
rad54	1.34969e-12	1.000000	1.34969e-12	1.000000
rad62	3.02922e-13	1.000000	3.02922e-13	1.000000
Phenyl+cycC3H4	2.70226e-13	1.000000	0.000000	1.000000
rad50	2.10210e-13	1.000000	2.10210e-13	1.000000
PhcycC3H3_B+H	1.51586e-13	1.000000	1.51586e-13	1.000000
rad70	3.68946e-14	1.000000	3.68946e-14	1.000000
rad55	1.63588e-14	1.000000	1.63588e-14	1.000000
PAH1+H	1.57712e-14	1.000000	1.57712e-14	1.000000
rad52	1.98838e-15	1.000000	1.98838e-15	1.000000
rad58	1.14364e-15	1.000000	1.14364e-15	1.000000
rad34	8.73664e-16	1.000000	8.73664e-16	1.000000
rad51	7.85267e-16	1.000000	7.85267e-16	1.000000
rad41	2.13280e-16	1.000000	2.13280e-16	1.000000
rad42	1.39947e-16	1.000000	1.39947e-16	1.000000
rad65	1.92990e-17	1.000000	1.92990e-17	1.000000
rad53	1.63950e-18	1.000000	1.63950e-18	1.000000
rad64	4.08414e-19	1.000000	4.08414e-19	1.000000
rad61	6.05363e-20	1.000000	6.05363e-20	1.000000
rad56	3.74745e-21	1.000000	3.74745e-21	1.000000
rad68syn	4.25367e-22	1.000000	4.25367e-22	1.000000
rad68anti	3.26442e-22	1.000000	3.26442e-22	1.000000
rad40syn	2.29907e-24	1.000000	2.29907e-24	1.000000
rad40anti	1.84461e-24	1.000000	1.84461e-24	1.000000
PAH8+H	2.19678e-25	1.000000	2.19678e-25	1.000000
rad73	9.27903e-26	1.000000	9.27903e-26	1.000000

rad71	3.39170e-28	1.00000	3.39170e-28	1.00000
rad19anti	5.76790e-34	1.00000	5.76790e-34	1.00000
rad47	7.72082e-35	1.00000	7.72082e-35	1.00000
rad26	3.07252e-35	1.00000	3.07252e-35	1.00000
rad28	7.01618e-36	1.00000	7.01618e-36	1.00000
rad2	6.16493e-36	1.00000	6.16493e-36	1.00000
rad6	5.71510e-36	1.00000	5.71510e-36	1.00000
rad10	1.52218e-36	1.00000	1.52218e-36	1.00000
rad1	4.21312e-37	1.00000	4.21312e-37	1.00000
rad3	2.79290e-38	1.00000	2.79290e-38	1.00000
rad14	2.41305e-38	1.00000	2.41305e-38	1.00000
rad25	1.48124e-38	1.00000	1.48124e-38	1.00000
rad4	1.43957e-38	1.00000	1.43957e-38	1.00000
rad27	3.46897e-39	1.00000	3.46897e-39	1.00000
rad31	2.17525e-39	1.00000	2.17525e-39	1.00000
rad9	9.41007e-40	1.00000	9.41007e-40	1.00000
rad7	4.24912e-40	1.00000	4.24912e-40	1.00000
rad11	1.57408e-40	1.00000	1.57408e-40	1.00000
rad13	2.42253e-42	1.00000	2.42253e-42	1.00000
rad5	2.36818e-42	1.00000	2.36818e-42	1.00000
rad19syn	8.46110e-43	1.00000	8.46110e-43	1.00000
rad33	5.60129e-43	1.00000	5.60129e-43	1.00000
rad15	4.17263e-43	1.00000	4.17263e-43	1.00000
rad20	7.13717e-45	1.00000	7.13717e-45	1.00000
rad21	6.43558e-45	1.00000	6.43558e-45	1.00000
rad12	1.70912e-45	1.00000	1.70912e-45	1.00000
rad23	1.18049e-45	1.00000	1.18049e-45	1.00000
rad18	2.35158e-47	1.00000	2.35158e-47	1.00000
rad45	1.20673e-47	1.00000	1.20673e-47	1.00000
rad36	7.52028e-49	1.00000	7.52028e-49	1.00000
rad24	8.63991e-50	1.00000	8.63991e-50	1.00000
rad22	5.47213e-50	1.00000	5.47213e-50	1.00000
rad8	2.32606e-66	1.00000	2.32606e-66	1.00000

0.100000000E-08 Pa, 220.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.97009e-14 (1.00)	1.97009e-14 (1.00)
Formation of rad19	1.96977e-14 (1.000)	1.96977e-14 (1.000)
H-abstraction to cyc2enyl	3.19064e-18 (0.000162)	3.19064e-18 (0.000162)
H-abstraction to cyclenyl	1.64627e-21 (8.36e-08)	1.64627e-21 (8.36e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999441	0.999441	0.999441	0.999441
PhCHCCH2+H	0.000375424	0.999816	0.000375424	0.999816
Benzene+cycloprop-2-enylidene	0.000161954	0.999978	0.000161954	0.999978
PhCCH+CH3	6.72039e-06	0.999985	6.72039e-06	0.999985
C2H2+PhCH2	5.43098e-06	0.999991	5.43098e-06	0.999991
PhCCCH3+H	4.03052e-06	0.999995	4.03052e-06	0.999995
Ph+MeAc	3.44236e-06	0.999998	3.44236e-06	0.999998
rad67	1.00612e-06	0.999999	1.00612e-06	0.999999
rad35	4.31892e-07	0.999999	4.31892e-07	0.999999
Ph+Allene	4.00152e-07	1.000000	4.00152e-07	1.000000
Benzene+cycloprop-1-enylidene	8.35632e-08	1.000000	8.35632e-08	1.000000
PhCH2CCH+H	5.83685e-08	1.000000	5.83685e-08	1.000000
PAH7+H	4.50239e-08	1.000000	4.50239e-08	1.000000
rad39	1.26902e-08	1.000000	1.26902e-08	1.000000
rad37	1.23532e-08	1.000000	1.23532e-08	1.000000
rad30	8.26934e-09	1.000000	8.26934e-09	1.000000
PAH9+H	6.80449e-10	1.000000	6.80449e-10	1.000000
rad38	3.18912e-10	1.000000	3.18912e-10	1.000000
rad60syn	4.90141e-11	1.000000	4.90141e-11	1.000000
PAH10+CH3	4.36275e-11	1.000000	4.36275e-11	1.000000
PhcycC3H3_A+H	3.07931e-11	1.000000	3.07931e-11	1.000000
PAH3+H	2.90111e-11	1.000000	2.90111e-11	1.000000
rad60anti	2.46085e-11	1.000000	2.46085e-11	1.000000
rad46	2.07451e-11	1.000000	2.07451e-11	1.000000
rad59	5.65179e-12	1.000000	5.65179e-12	1.000000
rad54	1.59075e-12	1.000000	1.59075e-12	1.000000
rad43	1.56310e-12	1.000000	1.56310e-12	1.000000
Phenyl+cycC3H4	3.96956e-13	1.000000	0.000000	1.000000
rad62	3.49289e-13	1.000000	3.49289e-13	1.000000
PhcycC3H3_B+H	2.54101e-13	1.000000	2.54101e-13	1.000000
rad50	2.42929e-13	1.000000	2.42929e-13	1.000000
rad70	4.55816e-14	1.000000	4.55816e-14	1.000000
PAH1+H	2.06978e-14	1.000000	2.06978e-14	1.000000
rad55	2.02024e-14	1.000000	2.02024e-14	1.000000
rad52	2.38419e-15	1.000000	2.38419e-15	1.000000

rad58	1.44438e-15	1.00000	1.44438e-15	1.00000
rad34	1.15142e-15	1.00000	1.15142e-15	1.00000
rad51	9.82815e-16	1.00000	9.82815e-16	1.00000
rad41	2.89888e-16	1.00000	2.89888e-16	1.00000
rad42	1.85167e-16	1.00000	1.85167e-16	1.00000
rad65	2.45506e-17	1.00000	2.45506e-17	1.00000
rad53	2.75830e-18	1.00000	2.75830e-18	1.00000
rad64	7.36243e-19	1.00000	7.36243e-19	1.00000
rad61	1.34204e-19	1.00000	1.34204e-19	1.00000
rad56	9.05591e-21	1.00000	9.05591e-21	1.00000
rad68syn	1.06496e-21	1.00000	1.06496e-21	1.00000
rad68anti	8.11646e-22	1.00000	8.11646e-22	1.00000
rad40syn	7.73817e-24	1.00000	7.73817e-24	1.00000
rad40anti	6.20298e-24	1.00000	6.20298e-24	1.00000
PAH8+H	9.11871e-25	1.00000	9.11871e-25	1.00000
rad73	3.07722e-25	1.00000	3.07722e-25	1.00000
rad71	1.53452e-27	1.00000	1.53452e-27	1.00000
rad19anti	1.83731e-33	1.00000	1.83731e-33	1.00000
rad47	8.39990e-35	1.00000	8.39990e-35	1.00000
rad26	2.90617e-35	1.00000	2.90617e-35	1.00000
rad6	1.73995e-35	1.00000	1.73995e-35	1.00000
rad28	6.57465e-36	1.00000	6.57465e-36	1.00000
rad2	5.64888e-36	1.00000	5.64888e-36	1.00000
rad10	2.67704e-36	1.00000	2.67704e-36	1.00000
rad1	3.89447e-37	1.00000	3.89447e-37	1.00000
rad3	4.01108e-38	1.00000	4.01108e-38	1.00000
rad14	2.47645e-38	1.00000	2.47645e-38	1.00000
rad4	2.07235e-38	1.00000	2.07235e-38	1.00000
rad25	1.55244e-38	1.00000	1.55244e-38	1.00000
rad31	5.54361e-39	1.00000	5.54361e-39	1.00000
rad27	3.68298e-39	1.00000	3.68298e-39	1.00000
rad9	1.39696e-39	1.00000	1.39696e-39	1.00000
rad7	1.29312e-39	1.00000	1.29312e-39	1.00000
rad11	3.61541e-40	1.00000	3.61541e-40	1.00000
rad13	7.33684e-42	1.00000	7.33684e-42	1.00000
rad19syn	2.99699e-42	1.00000	2.99699e-42	1.00000
rad5	2.29894e-42	1.00000	2.29894e-42	1.00000
rad33	6.74677e-43	1.00000	6.74677e-43	1.00000
rad15	6.20580e-43	1.00000	6.20580e-43	1.00000
rad20	8.92500e-45	1.00000	8.92500e-45	1.00000
rad21	8.14591e-45	1.00000	8.14591e-45	1.00000
rad23	4.59144e-45	1.00000	4.59144e-45	1.00000
rad12	2.93306e-45	1.00000	2.93306e-45	1.00000
rad45	5.06987e-47	1.00000	5.06987e-47	1.00000
rad18	2.60440e-47	1.00000	2.60440e-47	1.00000
rad36	3.16786e-48	1.00000	3.16786e-48	1.00000
rad24	1.30904e-49	1.00000	1.30904e-49	1.00000
rad22	5.70966e-50	1.00000	5.70966e-50	1.00000
rad8	4.06073e-66	1.00000	4.06073e-66	1.00000

0.100000000E-08 Pa, 230.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.20761e-14 (1.00)	2.20761e-14 (1.00)
Formation of rad19	2.20710e-14 (1.000)	2.20710e-14 (1.000)
H-abstraction to cyc2enyl	5.13155e-18 (0.000232)	5.13155e-18 (0.000232)
H-abstraction to cyclenyl	3.75316e-21 (1.70e-07)	3.75316e-21 (1.70e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999352	0.999352	0.999352	0.999352
PhCHCCH2+H	0.000392520	0.999745	0.000392520	0.999745
Benzene+cycloprop-2-enylidene	0.000232448	0.999977	0.000232448	0.999977
PhCCH+CH3	7.03712e-06	0.999984	7.03712e-06	0.999984
C2H2+PhCH2	5.75601e-06	0.999990	5.75601e-06	0.999990
PhCCCH3+H	4.24633e-06	0.999994	4.24633e-06	0.999994
Ph+MeAc	3.67074e-06	0.999998	3.67074e-06	0.999998
rad67	1.07014e-06	0.999999	1.07014e-06	0.999999
rad35	4.58209e-07	1.000000	4.58209e-07	1.000000
Ph+Allene	4.38150e-07	1.000000	4.38150e-07	1.000000
Benzene+cycloprop-1-enylidene	1.70010e-07	1.000000	1.70010e-07	1.000000
PhCH2CCH+H	6.49255e-08	1.000000	6.49255e-08	1.000000
PAH7+H	4.85973e-08	1.000000	4.85973e-08	1.000000
rad39	1.36916e-08	1.000000	1.36916e-08	1.000000
rad37	1.33953e-08	1.000000	1.33953e-08	1.000000
rad30	8.79825e-09	1.000000	8.79825e-09	1.000000
PAH9+H	7.39444e-10	1.000000	7.39444e-10	1.000000
rad38	3.50209e-10	1.000000	3.50209e-10	1.000000
rad60syn	5.35915e-11	1.000000	5.35915e-11	1.000000

PAH10+CH3	5.18070e-11	1.00000	5.18070e-11	1.00000
PhcycC3H3_A+H	4.10038e-11	1.00000	4.10038e-11	1.00000
PAH3+H	3.28545e-11	1.00000	3.28545e-11	1.00000
rad60anti	2.69725e-11	1.00000	2.69725e-11	1.00000
rad46	2.29232e-11	1.00000	2.29232e-11	1.00000
rad59	6.36289e-12	1.00000	6.36289e-12	1.00000
rad54	1.88753e-12	1.00000	1.88753e-12	1.00000
rad43	1.81040e-12	1.00000	1.81040e-12	1.00000
Phenyl+cycC3H4	5.81829e-13	1.00000	0.00000	1.00000
PhcycC3H3_B+H	4.18958e-13	1.00000	4.18958e-13	1.00000
rad62	4.04844e-13	1.00000	4.04844e-13	1.00000
rad50	2.82714e-13	1.00000	2.82714e-13	1.00000
rad70	5.67286e-14	1.00000	5.67286e-14	1.00000
PAH1+H	2.73412e-14	1.00000	2.73412e-14	1.00000
rad55	2.51284e-14	1.00000	2.51284e-14	1.00000
rad52	2.88263e-15	1.00000	2.88263e-15	1.00000
rad58	1.83842e-15	1.00000	1.83842e-15	1.00000
rad34	1.52752e-15	1.00000	1.52752e-15	1.00000
rad51	1.24150e-15	1.00000	1.24150e-15	1.00000
rad41	3.95307e-16	1.00000	3.95307e-16	1.00000
rad42	2.45831e-16	1.00000	2.45831e-16	1.00000
rad65	3.15147e-17	1.00000	3.15147e-17	1.00000
rad53	4.58652e-18	1.00000	4.58652e-18	1.00000
rad64	1.30089e-18	1.00000	1.30089e-18	1.00000
rad61	2.85229e-19	1.00000	2.85229e-19	1.00000
rad56	2.08059e-20	1.00000	2.08059e-20	1.00000
rad68syn	2.52167e-21	1.00000	2.52167e-21	1.00000
rad68anti	1.90889e-21	1.00000	1.90889e-21	1.00000
rad40syn	2.38315e-23	1.00000	2.38315e-23	1.00000
rad40anti	1.90761e-23	1.00000	1.90761e-23	1.00000
PAH8+H	3.38041e-24	1.00000	3.38041e-24	1.00000
rad73	9.42054e-25	1.00000	9.42054e-25	1.00000
rad71	6.14189e-27	1.00000	6.14189e-27	1.00000
rad19anti	6.07588e-33	1.00000	6.07588e-33	1.00000
rad47	9.27304e-35	1.00000	9.27304e-35	1.00000
rad6	6.45039e-35	1.00000	6.45039e-35	1.00000
rad26	2.75454e-35	1.00000	2.75454e-35	1.00000
rad28	6.17226e-36	1.00000	6.17226e-36	1.00000
rad10	4.94486e-36	1.00000	4.94486e-36	1.00000
rad2	4.59746e-36	1.00000	4.59746e-36	1.00000
rad1	3.20015e-37	1.00000	3.20015e-37	1.00000
rad3	4.22015e-38	1.00000	4.22015e-38	1.00000
rad14	2.55463e-38	1.00000	2.55463e-38	1.00000
rad4	2.18554e-38	1.00000	2.18554e-38	1.00000
rad25	1.63650e-38	1.00000	1.63650e-38	1.00000
rad31	1.47015e-38	1.00000	1.47015e-38	1.00000
rad7	4.79654e-39	1.00000	4.79654e-39	1.00000
rad27	3.93483e-39	1.00000	3.93483e-39	1.00000
rad9	2.11577e-39	1.00000	2.11577e-39	1.00000
rad11	1.16800e-39	1.00000	1.16800e-39	1.00000
rad13	2.71974e-41	1.00000	2.71974e-41	1.00000
rad19syn	1.11381e-41	1.00000	1.11381e-41	1.00000
rad5	2.23621e-42	1.00000	2.23621e-42	1.00000
rad15	9.41747e-43	1.00000	9.41747e-43	1.00000
rad33	8.42121e-43	1.00000	8.42121e-43	1.00000
rad23	1.93673e-44	1.00000	1.93673e-44	1.00000
rad20	1.12943e-44	1.00000	1.12943e-44	1.00000
rad21	1.04411e-44	1.00000	1.04411e-44	1.00000
rad12	5.16751e-45	1.00000	5.16751e-45	1.00000
rad45	1.29374e-46	1.00000	1.29374e-46	1.00000
rad18	2.90180e-47	1.00000	2.90180e-47	1.00000
rad36	8.12442e-48	1.00000	8.12442e-48	1.00000
rad24	2.02383e-49	1.00000	2.02383e-49	1.00000
rad22	6.08101e-50	1.00000	6.08101e-50	1.00000
rad8	7.24167e-66	1.00000	7.24167e-66	1.00000

0.100000000E-08 Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	2.45462e-14 (1.00)	2.45462e-14 (1.00)		
Formation of rad19	2.45383e-14 (1.000)	2.45383e-14 (1.000)		
H-abstraction to cyc2enyl	7.92234e-18 (0.000323)	7.92234e-18 (0.000323)		
H-abstraction to cyclenyl	7.97958e-21 (3.25e-07)	7.97958e-21 (3.25e-07)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999241	0.999241	0.999241	0.999241
PhCHCH2+H	0.000411192	0.999652	0.000411192	0.999652
Benzene+cycloprop-2-enylidene	0.000322752	0.999975	0.000322752	0.999975

PhCCH+CH3	7.38194e-06	0.999982	7.38194e-06	0.999982
C2H2+PhCH2	6.11553e-06	0.999989	6.11553e-06	0.999989
PhCCCH3+H	4.48334e-06	0.999993	4.48334e-06	0.999993
Ph+MeAc	3.92459e-06	0.999997	3.92459e-06	0.999997
rad67	1.14122e-06	0.999998	1.14122e-06	0.999998
rad35	4.87362e-07	0.999999	4.87362e-07	0.999999
Ph+Allene	4.81641e-07	0.999999	4.81641e-07	0.999999
Benzene+cycloprop-1-enylidene	3.25084e-07	0.999999	3.25084e-07	0.999999
PhCH2CCH+H	7.25479e-08	0.999999	7.25479e-08	0.999999
PAH7+H	5.26263e-08	0.999999	5.26263e-08	0.999999
rad39	1.48191e-08	0.999999	1.48191e-08	0.999999
rad37	1.45757e-08	1.000000	1.45757e-08	1.000000
rad30	9.38702e-09	1.000000	9.38702e-09	1.000000
PAH9+H	8.06648e-10	1.000000	8.06648e-10	1.000000
rad38	3.86297e-10	1.000000	3.86297e-10	1.000000
PAH10+CH3	6.19064e-11	1.000000	6.19064e-11	1.000000
rad60syn	5.88324e-11	1.000000	5.88324e-11	1.000000
PhcycC3H3_A+H	5.47108e-11	1.000000	5.47108e-11	1.000000
PAH3+H	3.74113e-11	1.000000	3.74113e-11	1.000000
rad60anti	2.96857e-11	1.000000	2.96857e-11	1.000000
rad46	2.54475e-11	1.000000	2.54475e-11	1.000000
rad59	7.20068e-12	1.000000	7.20068e-12	1.000000
rad54	2.25392e-12	1.000000	2.25392e-12	1.000000
rad43	2.10782e-12	1.000000	2.10782e-12	1.000000
Phenyl+cycC3H4	8.50545e-13	1.000000	0.000000	1.000000
PhcycC3H3_B+H	6.80482e-13	1.000000	6.80482e-13	1.000000
rad62	4.71505e-13	1.000000	4.71505e-13	1.000000
rad50	3.31266e-13	1.000000	3.31266e-13	1.000000
rad70	7.10727e-14	1.000000	7.10727e-14	1.000000
PAH1+H	3.63163e-14	1.000000	3.63163e-14	1.000000
rad55	3.14580e-14	1.000000	3.14580e-14	1.000000
rad52	3.51289e-15	1.000000	3.51289e-15	1.000000
rad58	2.35637e-15	1.000000	2.35637e-15	1.000000
rad34	2.03779e-15	1.000000	2.03779e-15	1.000000
rad51	1.58177e-15	1.000000	1.58177e-15	1.000000
rad41	5.40331e-16	1.000000	5.40331e-16	1.000000
rad42	3.27191e-16	1.000000	3.27191e-16	1.000000
rad65	4.07884e-17	1.000000	4.07884e-17	1.000000
rad53	7.54386e-18	1.000000	7.54386e-18	1.000000
rad64	2.25729e-18	1.000000	2.25729e-18	1.000000
rad61	5.84088e-19	1.000000	5.84088e-19	1.000000
rad56	4.57232e-20	1.000000	4.57232e-20	1.000000
rad68syn	5.68636e-21	1.000000	5.68636e-21	1.000000
rad68anti	4.27665e-21	1.000000	4.27665e-21	1.000000
rad40syn	6.78314e-23	1.000000	6.78314e-23	1.000000
rad40anti	5.41986e-23	1.000000	5.41986e-23	1.000000
PAH8+H	1.13224e-23	1.000000	1.13224e-23	1.000000
rad73	2.68346e-24	1.000000	2.68346e-24	1.000000
rad71	2.20097e-26	1.000000	2.20097e-26	1.000000
rad19anti	2.07742e-32	1.000000	2.07742e-32	1.000000
rad2	1.33663e-33	1.000000	1.33663e-33	1.000000
rad6	2.60054e-34	1.000000	2.60054e-34	1.000000
rad10	1.33638e-34	1.000000	1.33638e-34	1.000000
rad47	1.03946e-34	1.000000	1.03946e-34	1.000000
rad1	9.40971e-35	1.000000	9.40971e-35	1.000000
rad26	2.61603e-35	1.000000	2.61603e-35	1.000000
rad28	5.80544e-36	1.000000	5.80544e-36	1.000000
rad31	4.04869e-38	1.000000	4.04869e-38	1.000000
rad14	2.64859e-38	1.000000	2.64859e-38	1.000000
rad7	1.93545e-38	1.000000	1.93545e-38	1.000000
rad25	1.73498e-38	1.000000	1.73498e-38	1.000000
rad11	4.47586e-39	1.000000	4.47586e-39	1.000000
rad27	4.23016e-39	1.000000	4.23016e-39	1.000000
rad9	3.27046e-39	1.000000	3.27046e-39	1.000000
rad13	1.09921e-40	1.000000	1.09921e-40	1.000000
rad19syn	4.33470e-41	1.000000	4.33470e-41	1.000000
rad5	2.17913e-42	1.000000	2.17913e-42	1.000000
rad15	1.45875e-42	1.000000	1.45875e-42	1.000000
rad33	1.14797e-42	1.000000	1.14797e-42	1.000000
rad4	4.18303e-43	1.000000	4.18303e-43	1.000000
rad3	3.58160e-43	1.000000	3.58160e-43	1.000000
rad23	8.91248e-44	1.000000	8.91248e-44	1.000000
rad20	1.44655e-44	1.000000	1.44655e-44	1.000000
rad21	1.35542e-44	1.000000	1.35542e-44	1.000000
rad12	9.35191e-45	1.000000	9.35191e-45	1.000000
rad45	2.72660e-46	1.000000	2.72660e-46	1.000000
rad18	3.25238e-47	1.000000	3.25238e-47	1.000000
rad36	1.72148e-47	1.000000	1.72148e-47	1.000000
rad24	3.19415e-49	1.000000	3.19415e-49	1.000000
rad22	6.89454e-50	1.000000	6.89454e-50	1.000000

rad8 | 1.31971e-65 1.000000 | 1.31971e-65 1.000000

0.100000000E-08 Pa, 250.000000 K

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

Total | 2.71048e-14 (1.00) | 2.71048e-14 (1.00)
Formation of rad19 | 2.70930e-14 (1.000) | 2.70930e-14 (1.000)
H-abstraction to cyc2enyl | 1.17991e-17 (0.000435) | 1.17991e-17 (0.000435)
H-abstraction to cyclenyl | 1.59554e-20 (5.89e-07) | 1.59554e-20 (5.89e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999107	0.999107	0.999107	0.999107
Benzene+cycloprop-2-enylidene	0.000435312	0.999543	0.000435312	0.999543
PhCHCCH2+H	0.000431584	0.999974	0.000431584	0.999974
PhCCH+CH3	7.75719e-06	0.999982	7.75719e-06	0.999982
C2H2+PhCH2	6.51326e-06	0.999988	6.51326e-06	0.999988
PhCCCH3+H	4.74360e-06	0.999993	4.74360e-06	0.999993
Ph+MeAc	4.20682e-06	0.999997	4.20682e-06	0.999997
rad67	1.22017e-06	0.999999	1.22017e-06	0.999999
Benzene+cycloprop-1-enylidene	5.88656e-07	0.999999	5.88656e-07	0.999999
Ph+Allene	5.31474e-07	1.000000	5.31474e-07	1.000000
rad35	5.19665e-07	1.000000	5.19665e-07	1.000000
PhCH2CCH+H	8.14215e-08	1.000000	8.14215e-08	1.000000
PAH7+H	5.71717e-08	1.000000	5.71717e-08	1.000000
rad39	1.60894e-08	1.000000	1.60894e-08	1.000000
rad37	1.59138e-08	1.000000	1.59138e-08	1.000000
rad30	1.00427e-08	1.000000	1.00427e-08	1.000000
PAH9+H	8.83301e-10	1.000000	8.83301e-10	1.000000
rad38	4.27984e-10	1.000000	4.27984e-10	1.000000
PAH10+CH3	7.44048e-11	1.000000	7.44048e-11	1.000000
PhcycC3H3_A+H	7.30900e-11	1.000000	7.30900e-11	1.000000
rad60syn	6.48407e-11	1.000000	6.48407e-11	1.000000
PAH3+H	4.28259e-11	1.000000	4.28259e-11	1.000000
rad60anti	3.28040e-11	1.000000	3.28040e-11	1.000000
rad46	2.83782e-11	1.000000	2.83782e-11	1.000000
rad59	8.18974e-12	1.000000	8.18974e-12	1.000000
rad54	2.70728e-12	1.000000	2.70728e-12	1.000000
rad43	2.46610e-12	1.000000	2.46610e-12	1.000000
Phenyl+cycC3H4	1.23952e-12	1.000000	0.000000	1.000000
PhcycC3H3_B+H	1.09005e-12	1.000000	1.09005e-12	1.000000
rad62	5.51586e-13	1.000000	5.51586e-13	1.000000
rad50	3.90700e-13	1.000000	3.90700e-13	1.000000
rad70	8.95708e-14	1.000000	8.95708e-14	1.000000
PAH1+H	4.84545e-14	1.000000	4.84545e-14	1.000000
rad55	3.96080e-14	1.000000	3.96080e-14	1.000000
rad52	4.31279e-15	1.000000	4.31279e-15	1.000000
rad58	3.03881e-15	1.000000	3.03881e-15	1.000000
rad34	2.73087e-15	1.000000	2.73087e-15	1.000000
rad51	2.03107e-15	1.000000	2.03107e-15	1.000000
rad41	7.39638e-16	1.000000	7.39638e-16	1.000000
rad42	4.36203e-16	1.000000	4.36203e-16	1.000000
rad65	5.31796e-17	1.000000	5.31796e-17	1.000000
rad53	1.22797e-17	1.000000	1.22797e-17	1.000000
rad64	3.85188e-18	1.000000	3.85188e-18	1.000000
rad61	1.15688e-18	1.000000	1.15688e-18	1.000000
rad56	9.65553e-20	1.000000	9.65553e-20	1.000000
rad68syn	1.22760e-20	1.000000	1.22760e-20	1.000000
rad68anti	9.17629e-21	1.000000	9.17629e-21	1.000000
rad40syn	1.79832e-22	1.000000	1.79832e-22	1.000000
rad40anti	1.43402e-22	1.000000	1.43402e-22	1.000000
PAH8+H	3.45930e-23	1.000000	3.45930e-23	1.000000
rad73	7.15481e-24	1.000000	7.15481e-24	1.000000
rad71	7.13356e-26	1.000000	7.13356e-26	1.000000
rad19anti	7.31047e-32	1.000000	7.31047e-32	1.000000
rad2	1.31360e-33	1.000000	1.31360e-33	1.000000
rad6	1.07693e-33	1.000000	1.07693e-33	1.000000
rad10	2.27417e-34	1.000000	2.27417e-34	1.000000
rad47	1.18402e-34	1.000000	1.18402e-34	1.000000
rad1	9.35082e-35	1.000000	9.35082e-35	1.000000
rad26	2.48966e-35	1.000000	2.48966e-35	1.000000
rad28	5.47337e-36	1.000000	5.47337e-36	1.000000
rad31	1.15495e-37	1.000000	1.15495e-37	1.000000
rad7	8.02084e-38	1.000000	8.02084e-38	1.000000
rad14	2.75981e-38	1.000000	2.75981e-38	1.000000
rad25	1.84990e-38	1.000000	1.84990e-38	1.000000
rad11	1.81368e-38	1.000000	1.81368e-38	1.000000
rad9	5.16189e-39	1.000000	5.16189e-39	1.000000
rad27	4.57607e-39	1.000000	4.57607e-39	1.000000

rad13	4.56717e-40	1.00000	4.56717e-40	1.00000
rad19syn	1.76219e-40	1.00000	1.76219e-40	1.00000
rad15	2.30743e-42	1.00000	2.30743e-42	1.00000
rad5	2.12699e-42	1.00000	2.12699e-42	1.00000
rad33	1.91935e-42	1.00000	1.91935e-42	1.00000
rad4	6.49527e-43	1.00000	6.49527e-43	1.00000
rad3	5.29707e-43	1.00000	5.29707e-43	1.00000
rad23	4.34904e-43	1.00000	4.34904e-43	1.00000
rad20	1.87553e-44	1.00000	1.87553e-44	1.00000
rad21	1.78251e-44	1.00000	1.78251e-44	1.00000
rad12	1.73959e-44	1.00000	1.73959e-44	1.00000
rad45	2.03084e-45	1.00000	2.03084e-45	1.00000
rad36	1.28880e-46	1.00000	1.28880e-46	1.00000
rad18	3.66681e-47	1.00000	3.66681e-47	1.00000
rad24	5.14887e-49	1.00000	5.14887e-49	1.00000
rad22	9.42842e-50	1.00000	9.42842e-50	1.00000
rad8	2.45880e-65	1.00000	2.45880e-65	1.00000

0.100000000E-08 Pa, 260.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.97464e-14 (1.00)	2.97464e-14 (1.00)
Formation of rad19	2.97293e-14 (0.999)	2.97293e-14 (0.999)
H-abstraction to cyc2enyl	1.70236e-17 (0.000572)	1.70236e-17 (0.000572)
H-abstraction to cyclenyl	3.02186e-20 (1.02e-06)	3.02186e-20 (1.02e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998946	0.998946	0.998946	0.998946
Benzene+cycloprop-2-enylidene	0.000572291	0.999518	0.000572291	0.999518
PhCHCCH2+H	0.000453848	0.999972	0.000453848	0.999972
PhCCH+CH3	8.16530e-06	0.999980	8.16530e-06	0.999980
C2H2+PhCH2	6.95321e-06	0.999987	6.95321e-06	0.999987
PhCCCH3+H	5.02932e-06	0.999992	5.02932e-06	0.999992
Ph+MeAc	4.52059e-06	0.999997	4.52059e-06	0.999997
rad67	1.30786e-06	0.999998	1.30786e-06	0.999998
Benzene+cycloprop-1-enylidene	1.01588e-06	0.999999	1.01588e-06	0.999999
Ph+Allene	5.88618e-07	1.000000	5.88618e-07	1.000000
rad35	5.55458e-07	1.000000	5.55458e-07	1.000000
PhCH2CCH+H	9.17637e-08	1.000000	9.17637e-08	1.000000
PAH7+H	6.23016e-08	1.000000	6.23016e-08	1.000000
rad39	1.75209e-08	1.000000	1.75209e-08	1.000000
rad37	1.74317e-08	1.000000	1.74317e-08	1.000000
rad30	1.07732e-08	1.000000	1.07732e-08	1.000000
PAH9+H	9.70823e-10	1.000000	9.70823e-10	1.000000
rad38	4.76210e-10	1.000000	4.76210e-10	1.000000
PhcycC3H3_A+H	9.76900e-11	1.000000	9.76900e-11	1.000000
PAH10+CH3	8.98996e-11	1.000000	8.98996e-11	1.000000
rad60syn	7.17361e-11	1.000000	7.17361e-11	1.000000
PAH3+H	4.92719e-11	1.000000	4.92719e-11	1.000000
rad60anti	3.63918e-11	1.000000	3.63918e-11	1.000000
rad46	3.17862e-11	1.000000	3.17862e-11	1.000000
rad59	9.35934e-12	1.000000	9.35934e-12	1.000000
rad54	3.26922e-12	1.000000	3.26922e-12	1.000000
rad43	2.89822e-12	1.000000	2.89822e-12	1.000000
Phenyl+cycC3H4	1.79997e-12	1.000000	0.000000	1.000000
PhcycC3H3_B+H	1.72357e-12	1.000000	1.72357e-12	1.000000
rad62	6.47858e-13	1.000000	6.47858e-13	1.000000
rad50	4.63657e-13	1.000000	4.63657e-13	1.000000
rad70	1.13462e-13	1.000000	1.13462e-13	1.000000
PAH1+H	6.48747e-14	1.000000	6.48747e-14	1.000000
rad55	5.01162e-14	1.000000	5.01162e-14	1.000000
rad52	5.33110e-15	1.000000	5.33110e-15	1.000000
rad58	3.93954e-15	1.000000	3.93954e-15	1.000000
rad34	3.67253e-15	1.000000	3.67253e-15	1.000000
rad51	2.62615e-15	1.000000	2.62615e-15	1.000000
rad41	1.01308e-15	1.000000	1.01308e-15	1.000000
rad42	5.82033e-16	1.000000	5.82033e-16	1.000000
rad65	6.97793e-17	1.000000	6.97793e-17	1.000000
rad53	1.97860e-17	1.000000	1.97860e-17	1.000000
rad64	6.46999e-18	1.000000	6.46999e-18	1.000000
rad61	2.22252e-18	1.000000	2.22252e-18	1.000000
rad56	1.96583e-19	1.000000	1.96583e-19	1.000000
rad68syn	2.54704e-20	1.000000	2.54704e-20	1.000000
rad68anti	1.89312e-20	1.000000	1.89312e-20	1.000000
rad40syn	4.46797e-22	1.000000	4.46797e-22	1.000000
rad40anti	3.55555e-22	1.000000	3.55555e-22	1.000000
PAH8+H	9.71820e-23	1.000000	9.71820e-23	1.000000
rad73	1.79367e-23	1.000000	1.79367e-23	1.000000

rad71	2.10958e-25	1.00000	2.10958e-25	1.00000
rad19anti	2.63449e-31	1.00000	2.63449e-31	1.00000
rad6	4.51315e-33	1.00000	4.51315e-33	1.00000
rad2	1.13344e-33	1.00000	1.13344e-33	1.00000
rad10	4.14771e-34	1.00000	4.14771e-34	1.00000
rad47	1.37151e-34	1.00000	1.37151e-34	1.00000
rad1	8.16233e-35	1.00000	8.16233e-35	1.00000
rad26	2.37532e-35	1.00000	2.37532e-35	1.00000
rad28	5.18048e-36	1.00000	5.18048e-36	1.00000
rad31	3.40261e-37	1.00000	3.40261e-37	1.00000
rad7	3.36260e-37	1.00000	3.36260e-37	1.00000
rad11	7.49165e-38	1.00000	7.49165e-38	1.00000
rad14	2.89012e-38	1.00000	2.89012e-38	1.00000
rad25	1.98379e-38	1.00000	1.98379e-38	1.00000
rad9	8.32340e-39	1.00000	8.32340e-39	1.00000
rad27	4.98146e-39	1.00000	4.98146e-39	1.00000
rad13	1.92069e-39	1.00000	1.92069e-39	1.00000
rad19syn	7.46104e-40	1.00000	7.46104e-40	1.00000
rad33	4.48233e-42	1.00000	4.48233e-42	1.00000
rad15	3.72923e-42	1.00000	3.72923e-42	1.00000
rad23	2.24639e-42	1.00000	2.24639e-42	1.00000
rad5	2.07928e-42	1.00000	2.07928e-42	1.00000
rad4	1.12232e-42	1.00000	1.12232e-42	1.00000
rad3	8.67855e-43	1.00000	8.67855e-43	1.00000
rad12	3.32818e-44	1.00000	3.32818e-44	1.00000
rad20	2.46234e-44	1.00000	2.46234e-44	1.00000
rad21	2.37546e-44	1.00000	2.37546e-44	1.00000
rad45	6.01778e-45	1.00000	6.01778e-45	1.00000
rad36	3.83868e-46	1.00000	3.83868e-46	1.00000
rad18	4.15863e-47	1.00000	4.15863e-47	1.00000
rad24	8.48173e-49	1.00000	8.48173e-49	1.00000
rad22	1.92665e-49	1.00000	1.92665e-49	1.00000
rad8	4.68586e-65	1.00000	4.68586e-65	1.00000

0.100000000E-08 Pa, 270.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.24655e-14 (1.00)	3.24655e-14 (1.00)
Formation of rad19	3.24415e-14 (0.999)	3.24415e-14 (0.999)
H-abstraction to cyc2enyl	2.38790e-17 (0.000736)	2.38790e-17 (0.000736)
H-abstraction to cyclenyl	5.45397e-20 (1.68e-06)	5.45397e-20 (1.68e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998755	0.998755	0.998755	0.998755
Benzene+cycloprop-2-enylidene	0.000735519	0.999491	0.000735519	0.999491
PhCHCCH2+H	0.000478146	0.999969	0.000478146	0.999969
PhCCH+CH3	8.60880e-06	0.999977	8.60880e-06	0.999977
C2H2+PhCH2	7.43973e-06	0.999985	7.43973e-06	0.999985
PhCCH3+H	5.34286e-06	0.999990	5.34286e-06	0.999990
Ph+MeAc	4.86938e-06	0.999995	4.86938e-06	0.999995
Benzene+cycloprop-1-enylidene	1.67993e-06	0.999997	1.67993e-06	0.999997
rad67	1.40525e-06	0.999998	1.40525e-06	0.999998
Ph+Allene	6.54187e-07	0.999999	6.54187e-07	0.999999
rad35	5.95116e-07	0.999999	5.95116e-07	0.999999
PhCH2CCH+H	1.03828e-07	1.000000	1.03828e-07	1.000000
PAH7+H	6.80924e-08	1.000000	6.80924e-08	1.000000
rad37	1.91542e-08	1.000000	1.91542e-08	1.000000
rad39	1.91343e-08	1.000000	1.91343e-08	1.000000
rad30	1.15872e-08	1.000000	1.15872e-08	1.000000
PAH9+H	1.07084e-09	1.000000	1.07084e-09	1.000000
rad38	5.32069e-10	1.000000	5.32069e-10	1.000000
PhcycC3H3_A+H	1.30538e-10	1.000000	1.30538e-10	1.000000
PAH10+CH3	1.09134e-10	1.000000	1.09134e-10	1.000000
rad60syn	7.96566e-11	1.000000	7.96566e-11	1.000000
PAH3+H	5.69580e-11	1.000000	5.69580e-11	1.000000
rad60anti	4.05238e-11	1.000000	4.05238e-11	1.000000
rad46	3.57543e-11	1.000000	3.57543e-11	1.000000
rad59	1.07444e-11	1.000000	1.07444e-11	1.000000
rad54	3.96666e-12	1.000000	3.96666e-12	1.000000
rad43	3.41976e-12	1.000000	3.41976e-12	1.000000
PhcycC3H3_B+H	2.69151e-12	1.000000	2.69151e-12	1.000000
Phenyl+cycC3H4	2.60320e-12	1.000000	0.00000	1.000000
rad62	7.63634e-13	1.000000	7.63634e-13	1.000000
rad50	5.53420e-13	1.000000	5.53420e-13	1.000000
rad70	1.44343e-13	1.000000	1.44343e-13	1.000000
PAH1+H	8.70739e-14	1.000000	8.70739e-14	1.000000
rad55	6.36740e-14	1.000000	6.36740e-14	1.000000
rad52	6.63065e-15	1.000000	6.63065e-15	1.000000

rad58	5.12944e-15	1.000000	5.12944e-15	1.000000
rad34	4.95119e-15	1.000000	4.95119e-15	1.000000
rad51	3.41605e-15	1.000000	3.41605e-15	1.000000
rad41	1.38732e-15	1.000000	1.38732e-15	1.000000
rad42	7.76679e-16	1.000000	7.76679e-16	1.000000
rad65	9.20538e-17	1.000000	9.20538e-17	1.000000
rad53	3.15550e-17	1.000000	3.15550e-17	1.000000
rad64	1.07030e-17	1.000000	1.07030e-17	1.000000
rad61	4.14942e-18	1.000000	4.14942e-18	1.000000
rad56	3.86758e-19	1.000000	3.86758e-19	1.000000
rad68syn	5.09279e-20	1.000000	5.09279e-20	1.000000
rad68anti	3.76574e-20	1.000000	3.76574e-20	1.000000
rad40syn	1.04541e-21	1.000000	1.04541e-21	1.000000
rad40anti	8.30243e-22	1.000000	8.30243e-22	1.000000
PAH8+H	2.52772e-22	1.000000	2.52772e-22	1.000000
rad73	4.24308e-23	1.000000	4.24308e-23	1.000000
rad71	5.73649e-25	1.000000	5.73649e-25	1.000000
rad19anti	9.66950e-31	1.000000	9.66950e-31	1.000000
rad6	1.88964e-32	1.000000	1.88964e-32	1.000000
rad2	3.64929e-33	1.000000	3.64929e-33	1.000000
rad10	8.02368e-34	1.000000	8.02368e-34	1.000000
rad1	2.66588e-34	1.000000	2.66588e-34	1.000000
rad47	1.61683e-34	1.000000	1.61683e-34	1.000000
rad26	2.27428e-35	1.000000	2.27428e-35	1.000000
rad28	4.94365e-36	1.000000	4.94365e-36	1.000000
rad7	1.40776e-36	1.000000	1.40776e-36	1.000000
rad31	1.03174e-36	1.000000	1.03174e-36	1.000000
rad11	3.09378e-37	1.000000	3.09378e-37	1.000000
rad14	3.04194e-38	1.000000	3.04194e-38	1.000000
rad25	2.13978e-38	1.000000	2.13978e-38	1.000000
rad9	1.37206e-38	1.000000	1.37206e-38	1.000000
rad13	8.06953e-39	1.000000	8.06953e-39	1.000000
rad27	5.45750e-39	1.000000	5.45750e-39	1.000000
rad19syn	3.27847e-39	1.000000	3.27847e-39	1.000000
rad33	1.42148e-41	1.000000	1.42148e-41	1.000000
rad23	1.21694e-41	1.000000	1.21694e-41	1.000000
rad15	6.16214e-42	1.000000	6.16214e-42	1.000000
rad4	2.06620e-42	1.000000	2.06620e-42	1.000000
rad5	2.03557e-42	1.000000	2.03557e-42	1.000000
rad3	1.50230e-42	1.000000	1.50230e-42	1.000000
rad12	6.55354e-44	1.000000	6.55354e-44	1.000000
rad45	6.23755e-44	1.000000	6.23755e-44	1.000000
rad20	3.27459e-44	1.000000	3.27459e-44	1.000000
rad21	3.20911e-44	1.000000	3.20911e-44	1.000000
rad36	4.00869e-45	1.000000	4.00869e-45	1.000000
rad18	4.74563e-47	1.000000	4.74563e-47	1.000000
rad24	1.42867e-48	1.000000	1.42867e-48	1.000000
rad22	6.19170e-49	1.000000	6.19170e-49	1.000000
rad8	9.13967e-65	1.000000	9.13967e-65	1.000000

0.100000000E-08 Pa, 280.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.52572e-14 (1.00)	3.52572e-14 (1.00)
Formation of rad19	3.52244e-14 (0.999)	3.52244e-14 (0.999)
H-abstraction to cyc2enyl	3.26639e-17 (0.000926)	3.26639e-17 (0.000926)
H-abstraction to cyclenyl	9.42926e-20 (2.67e-06)	9.42926e-20 (2.67e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998535	0.998535	0.998535	0.998535
Benzene+cycloprop-2-enylidene	0.000926445	0.999462	0.000926445	0.999462
PhCHCCH2+H	0.000504654	0.999966	0.000504654	0.999966
PhCCH+CH3	9.09038e-06	0.999976	9.09038e-06	0.999976
C2H2+PhCH2	7.97755e-06	0.999984	7.97755e-06	0.999984
PhCCCH3+H	5.68676e-06	0.999989	5.68676e-06	0.999989
Ph+MeAc	5.25697e-06	0.999994	5.25697e-06	0.999994
Benzene+cycloprop-1-enylidene	2.67442e-06	0.999997	2.67442e-06	0.999997
rad67	1.51340e-06	0.999999	1.51340e-06	0.999999
Ph+Allene	7.29448e-07	0.999999	7.29448e-07	0.999999
rad35	6.39046e-07	1.00000	6.39046e-07	1.00000
PhCH2CCH+H	1.17909e-07	1.00000	1.17909e-07	1.00000
PAH7+H	7.46290e-08	1.00000	7.46290e-08	1.00000
rad37	2.11094e-08	1.00000	2.11094e-08	1.00000
rad39	2.09522e-08	1.00000	2.09522e-08	1.00000
rad30	1.24940e-08	1.00000	1.24940e-08	1.00000
PAH9+H	1.18522e-09	1.00000	1.18522e-09	1.00000
rad38	5.96837e-10	1.00000	5.96837e-10	1.00000
PhcycC3H3_A+H	1.74264e-10	1.00000	1.74264e-10	1.00000

PAH10+CH3	1.33029e-10	1.00000	1.33029e-10	1.00000
rad60syn	8.87606e-11	1.00000	8.87606e-11	1.00000
PAH3+H	6.61334e-11	1.00000	6.61334e-11	1.00000
rad60anti	4.52857e-11	1.00000	4.52857e-11	1.00000
rad46	4.03796e-11	1.00000	4.03796e-11	1.00000
rad59	1.23862e-11	1.00000	1.23862e-11	1.00000
rad54	4.83285e-12	1.00000	4.83285e-12	1.00000
PhcycC3H3_B+H	4.15199e-12	1.00000	4.15199e-12	1.00000
rad43	4.04946e-12	1.00000	4.04946e-12	1.00000
Phenyl+cycC3H4	3.74742e-12	1.00000	0.00000	1.00000
rad62	9.02853e-13	1.00000	9.02853e-13	1.00000
rad50	6.64061e-13	1.00000	6.64061e-13	1.00000
rad70	1.84259e-13	1.00000	1.84259e-13	1.00000
PAH1+H	1.17039e-13	1.00000	1.17039e-13	1.00000
rad55	8.11651e-14	1.00000	8.11651e-14	1.00000
rad52	8.29198e-15	1.00000	8.29198e-15	1.00000
rad58	6.70136e-15	1.00000	6.70136e-15	1.00000
rad34	6.68467e-15	1.00000	6.68467e-15	1.00000
rad51	4.46577e-15	1.00000	4.46577e-15	1.00000
rad41	1.89783e-15	1.00000	1.89783e-15	1.00000
rad42	1.03572e-15	1.00000	1.03572e-15	1.00000
rad65	1.21961e-16	1.00000	1.21961e-16	1.00000
rad53	4.97919e-17	1.00000	4.97919e-17	1.00000
rad64	1.74396e-17	1.00000	1.74396e-17	1.00000
rad61	7.53772e-18	1.00000	7.53772e-18	1.00000
rad56	7.36384e-19	1.00000	7.36384e-19	1.00000
rad68syn	9.83169e-20	1.00000	9.83169e-20	1.00000
rad68anti	7.23595e-20	1.00000	7.23595e-20	1.00000
rad40syn	2.31284e-21	1.00000	2.31284e-21	1.00000
rad40anti	1.83329e-21	1.00000	1.83329e-21	1.00000
PAH8+H	6.12419e-22	1.00000	6.12419e-22	1.00000
rad73	9.50003e-23	1.00000	9.50003e-23	1.00000
rad71	1.44434e-24	1.00000	1.44434e-24	1.00000
rad19anti	3.59338e-30	1.00000	3.59338e-30	1.00000
rad6	7.82987e-32	1.00000	7.82987e-32	1.00000
rad2	6.23344e-33	1.00000	6.23344e-33	1.00000
rad10	1.63378e-33	1.00000	1.63378e-33	1.00000
rad1	4.61478e-34	1.00000	4.61478e-34	1.00000
rad47	1.94125e-34	1.00000	1.94125e-34	1.00000
rad26	2.19061e-35	1.00000	2.19061e-35	1.00000
rad7	5.82902e-36	1.00000	5.82902e-36	1.00000
rad28	4.81133e-36	1.00000	4.81133e-36	1.00000
rad31	3.20736e-36	1.00000	3.20736e-36	1.00000
rad11	1.26279e-36	1.00000	1.26279e-36	1.00000
rad13	3.35458e-38	1.00000	3.35458e-38	1.00000
rad14	3.21825e-38	1.00000	3.21825e-38	1.00000
rad25	2.32179e-38	1.00000	2.32179e-38	1.00000
rad9	2.31421e-38	1.00000	2.31421e-38	1.00000
rad19syn	1.48909e-38	1.00000	1.48909e-38	1.00000
rad27	6.01828e-39	1.00000	6.01828e-39	1.00000
rad23	6.97072e-41	1.00000	6.97072e-41	1.00000
rad33	5.25958e-41	1.00000	5.25958e-41	1.00000
rad15	1.04194e-41	1.00000	1.04194e-41	1.00000
rad4	4.09322e-42	1.00000	4.09322e-42	1.00000
rad3	2.77003e-42	1.00000	2.77003e-42	1.00000
rad5	1.99557e-42	1.00000	1.99557e-42	1.00000
rad45	2.30561e-43	1.00000	2.30561e-43	1.00000
rad12	1.32907e-43	1.00000	1.32907e-43	1.00000
rad20	4.41341e-44	1.00000	4.41341e-44	1.00000
rad21	4.39705e-44	1.00000	4.39705e-44	1.00000
rad36	1.48989e-44	1.00000	1.48989e-44	1.00000
rad18	5.45315e-47	1.00000	5.45315e-47	1.00000
rad22	2.58583e-48	1.00000	2.58583e-48	1.00000
rad24	2.46218e-48	1.00000	2.46218e-48	1.00000
rad8	1.82566e-64	1.00000	1.82566e-64	1.00000

0.100000000E-08 Pa, 290.000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	3.81171e-14 (1.00)	3.81171e-14 (1.00)		
Formation of rad19	3.80733e-14 (0.999)	3.80733e-14 (0.999)		
H-abstraction to cyc2enyl	4.36868e-17 (0.00115)	4.36868e-17 (0.00115)		
H-abstraction to cyclenyl	1.56861e-19 (4.12e-06)	1.56861e-19 (4.12e-06)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998282	0.998282	0.998282	0.998282
Benzene+cycloprop-2-enylidene	0.00114612	0.999429	0.00114612	0.999429
PhCHCCH2+H	0.000533552	0.999962	0.000533552	0.999962

PhCCH+CH3	9.61277e-06	0.999972	9.61277e-06	0.999972
C2H2+PhCH2	8.57172e-06	0.999980	8.57172e-06	0.999980
PhCCCH3+H	6.06370e-06	0.999986	6.06370e-06	0.999986
Ph+MeAc	5.68749e-06	0.999992	5.68749e-06	0.999992
Benzene+cycloprop-1-enylidene	4.11523e-06	0.999996	4.11523e-06	0.999996
rad67	1.63346e-06	0.999998	1.63346e-06	0.999998
Ph+Allene	8.15840e-07	0.999999	8.15840e-07	0.999999
rad35	6.87689e-07	0.999999	6.87689e-07	0.999999
PhCH2CCH+H	1.34349e-07	0.999999	1.34349e-07	0.999999
PAH7+H	8.20060e-08	0.999999	8.20060e-08	0.999999
rad37	2.33285e-08	1.000000	2.33285e-08	1.000000
rad39	2.30001e-08	1.000000	2.30001e-08	1.000000
rad30	1.35042e-08	1.000000	1.35042e-08	1.000000
PAH9+H	1.31607e-09	1.000000	1.31607e-09	1.000000
rad38	6.71988e-10	1.000000	6.71988e-10	1.000000
PhcycC3H3_A+H	2.32248e-10	1.000000	2.32248e-10	1.000000
PAH10+CH3	1.62717e-10	1.000000	1.62717e-10	1.000000
rad60syn	9.92285e-11	1.000000	9.92285e-11	1.000000
PAH3+H	7.70956e-11	1.000000	7.70956e-11	1.000000
rad60anti	5.07758e-11	1.000000	5.07758e-11	1.000000
rad46	4.57748e-11	1.000000	4.57748e-11	1.000000
rad59	1.43338e-11	1.000000	1.43338e-11	1.000000
PhcycC3H3_B+H	6.32701e-12	1.000000	6.32701e-12	1.000000
rad54	5.90859e-12	1.000000	5.90859e-12	1.000000
Phenyl+cycC3H4	5.36584e-12	1.000000	0.000000	1.000000
rad43	4.80969e-12	1.000000	4.80969e-12	1.000000
rad62	1.07018e-12	1.000000	1.07018e-12	1.000000
rad50	8.00597e-13	1.000000	8.00597e-13	1.000000
rad70	2.35807e-13	1.000000	2.35807e-13	1.000000
PAH1+H	1.57377e-13	1.000000	1.57377e-13	1.000000
rad55	1.03709e-13	1.000000	1.03709e-13	1.000000
rad52	1.04176e-14	1.000000	1.04176e-14	1.000000
rad34	9.02825e-15	1.000000	9.02825e-15	1.000000
rad58	8.77577e-15	1.000000	8.77577e-15	1.000000
rad51	5.86071e-15	1.000000	5.86071e-15	1.000000
rad41	2.59126e-15	1.000000	2.59126e-15	1.000000
rad42	1.37914e-15	1.000000	1.37914e-15	1.000000
rad65	1.62088e-16	1.000000	1.62088e-16	1.000000
rad53	7.76876e-17	1.000000	7.76876e-17	1.000000
rad64	2.79837e-17	1.000000	2.79837e-17	1.000000
rad61	1.33318e-17	1.000000	1.33318e-17	1.000000
rad56	1.35816e-18	1.000000	1.35816e-18	1.000000
rad68syn	1.83484e-19	1.000000	1.83484e-19	1.000000
rad68anti	1.34481e-19	1.000000	1.34481e-19	1.000000
rad40syn	4.85494e-21	1.000000	4.85494e-21	1.000000
rad40anti	3.84148e-21	1.000000	3.84148e-21	1.000000
PAH8+H	1.38965e-21	1.000000	1.38965e-21	1.000000
rad73	2.01863e-22	1.000000	2.01863e-22	1.000000
rad71	3.38824e-24	1.000000	3.38824e-24	1.000000
rad19anti	1.34354e-29	1.000000	1.34354e-29	1.000000
rad6	3.18506e-31	1.000000	3.18506e-31	1.000000
rad2	6.47396e-33	1.000000	6.47396e-33	1.000000
rad10	3.48004e-33	1.000000	3.48004e-33	1.000000
rad1	4.86980e-34	1.000000	4.86980e-34	1.000000
rad47	2.37555e-34	1.000000	2.37555e-34	1.000000
rad7	2.36772e-35	1.000000	2.36772e-35	1.000000
rad26	2.13423e-35	1.000000	2.13423e-35	1.000000
rad31	1.01787e-35	1.000000	1.01787e-35	1.000000
rad11	5.05056e-36	1.000000	5.05056e-36	1.000000
rad28	4.91316e-36	1.000000	4.91316e-36	1.000000
rad13	1.36866e-37	1.000000	1.36866e-37	1.000000
rad19syn	6.95957e-38	1.000000	6.95957e-38	1.000000
rad9	3.99893e-38	1.000000	3.99893e-38	1.000000
rad14	3.42279e-38	1.000000	3.42279e-38	1.000000
rad25	2.53469e-38	1.000000	2.53469e-38	1.000000
rad27	6.68173e-39	1.000000	6.68173e-39	1.000000
rad23	4.14677e-40	1.000000	4.14677e-40	1.000000
rad33	2.03126e-40	1.000000	2.03126e-40	1.000000
rad15	1.80515e-41	1.000000	1.80515e-41	1.000000
rad4	9.06366e-42	1.000000	9.06366e-42	1.000000
rad3	5.68053e-42	1.000000	5.68053e-42	1.000000
rad5	1.95905e-42	1.000000	1.95905e-42	1.000000
rad45	1.42042e-42	1.000000	1.42042e-42	1.000000
rad12	2.77793e-43	1.000000	2.77793e-43	1.000000
rad36	9.26358e-44	1.000000	9.26358e-44	1.000000
rad21	6.11500e-44	1.000000	6.11500e-44	1.000000
rad20	6.03315e-44	1.000000	6.03315e-44	1.000000
rad18	6.32444e-47	1.000000	6.32444e-47	1.000000
rad22	1.20477e-47	1.000000	1.20477e-47	1.000000
rad24	4.34452e-48	1.000000	4.34452e-48	1.000000

rad8 | 3.73727e-64 1.000000 | 3.73727e-64 1.000000

0.100000000E-08 Pa, 300.000000 K

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

Total | 5.34809e-14 (1.00) | 5.34809e-14 (1.00)
Formation of rad19 | 5.34010e-14 (0.999) | 5.34010e-14 (0.999)
H-abstraction to cyc2enyl | 7.95823e-17 (0.00149) | 7.95823e-17 (0.00149)
H-abstraction to cyclenyl | 3.44981e-19 (6.45e-06) | 3.44981e-19 (6.45e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997939	0.997939	0.997939	0.997939
Benzene+cycloprop-2-enylidene	0.00148805	0.999427	0.00148805	0.999427
PhCHCCH2+H	0.000529814	0.999957	0.000529814	0.999957
PhCCH+CH3	1.04615e-05	0.999968	1.04615e-05	0.999968
C2H2+PhCH2	9.96265e-06	0.999978	9.96265e-06	0.999978
Benzene+cycloprop-1-enylidene	6.45054e-06	0.999984	6.45054e-06	0.999984
PhCCCH3+H	6.36715e-06	0.999990	6.36715e-06	0.999990
Ph+MeAc	5.99826e-06	0.999996	5.99826e-06	0.999996
rad67	1.76909e-06	0.999998	1.76909e-06	0.999998
Ph+Allene	8.18996e-07	0.999999	8.18996e-07	0.999999
rad35	7.31807e-07	1.000000	7.31807e-07	1.000000
PhCH2CCH+H	1.62469e-07	1.000000	1.62469e-07	1.000000
PAH7+H	1.00667e-07	1.000000	1.00667e-07	1.000000
rad37	2.83206e-08	1.000000	2.83206e-08	1.000000
rad39	2.48351e-08	1.000000	2.48351e-08	1.000000
rad30	1.39398e-08	1.000000	1.39398e-08	1.000000
PAH9+H	1.67898e-09	1.000000	1.67898e-09	1.000000
rad38	7.72652e-10	1.000000	7.72652e-10	1.000000
PhcycC3H3_A+H	3.25290e-10	1.000000	3.25290e-10	1.000000
PAH10+CH3	2.37266e-10	1.000000	2.37266e-10	1.000000
rad60syn	1.06834e-10	1.000000	1.06834e-10	1.000000
PAH3+H	9.84715e-11	1.000000	9.84715e-11	1.000000
rad60anti	5.51572e-11	1.000000	5.51572e-11	1.000000
rad46	5.45644e-11	1.000000	5.45644e-11	1.000000
rad59	1.67258e-11	1.000000	1.67258e-11	1.000000
PhcycC3H3_B+H	1.05896e-11	1.000000	1.05896e-11	1.000000
Phenyl+cycC3H4	8.20984e-12	1.000000	0.000000	1.000000
rad54	7.66783e-12	1.000000	7.66783e-12	1.000000
rad43	5.65558e-12	1.000000	5.65558e-12	1.000000
rad62	1.25276e-12	1.000000	1.25276e-12	1.000000
rad50	1.03316e-12	1.000000	1.03316e-12	1.000000
rad70	3.13392e-13	1.000000	3.13392e-13	1.000000
PAH1+H	1.93779e-13	1.000000	1.93779e-13	1.000000
rad55	1.33843e-13	1.000000	1.33843e-13	1.000000
rad52	1.45721e-14	1.000000	1.45721e-14	1.000000
rad34	1.28521e-14	1.000000	1.28521e-14	1.000000
rad58	1.11204e-14	1.000000	1.11204e-14	1.000000
rad51	8.23952e-15	1.000000	8.23952e-15	1.000000
rad41	3.58185e-15	1.000000	3.58185e-15	1.000000
rad42	1.81926e-15	1.000000	1.81926e-15	1.000000
rad65	2.32648e-16	1.000000	2.32648e-16	1.000000
rad53	1.29481e-16	1.000000	1.29481e-16	1.000000
rad64	4.98973e-17	1.000000	4.98973e-17	1.000000
rad61	2.74862e-17	1.000000	2.74862e-17	1.000000
rad56	3.01521e-18	1.000000	3.01521e-18	1.000000
rad68syn	3.96643e-19	1.000000	3.96643e-19	1.000000
rad68anti	2.85688e-19	1.000000	2.85688e-19	1.000000
rad40syn	1.34588e-20	1.000000	1.34588e-20	1.000000
rad40anti	1.02810e-20	1.000000	1.02810e-20	1.000000
PAH8+H	5.53972e-21	1.000000	5.53972e-21	1.000000
rad73	6.54843e-22	1.000000	6.54843e-22	1.000000
rad71	2.13406e-23	1.000000	2.13406e-23	1.000000
rad19anti	1.46846e-25	1.000000	1.46846e-25	1.000000
rad6	1.79028e-28	1.000000	1.79028e-28	1.000000
rad2	1.59698e-28	1.000000	1.59698e-28	1.000000
rad10	7.52188e-29	1.000000	7.52188e-29	1.000000
rad1	1.20175e-29	1.000000	1.20175e-29	1.000000
rad26	8.93025e-30	1.000000	8.93025e-30	1.000000
rad72	4.67174e-30	1.000000	4.67174e-30	1.000000
rad9	3.45424e-30	1.000000	3.45424e-30	1.000000
rad28	1.12251e-30	1.000000	1.12251e-30	1.000000
rad3	1.01162e-30	1.000000	1.01162e-30	1.000000
rad4	5.02521e-31	1.000000	5.02521e-31	1.000000
rad23	1.67178e-31	1.000000	1.67178e-31	1.000000
rad31	9.66297e-32	1.000000	9.66297e-32	1.000000
rad7	1.51208e-32	1.000000	1.51208e-32	1.000000
rad45	1.35226e-32	1.000000	1.35226e-32	1.000000

rad19syn	1.12386e-32	1.00000	1.12386e-32	1.00000
rad25	3.61933e-33	1.00000	3.61933e-33	1.00000
rad11	3.50816e-33	1.00000	3.50816e-33	1.00000
rad14	2.58055e-33	1.00000	2.58055e-33	1.00000
rad15	1.98750e-33	1.00000	1.98750e-33	1.00000
rad47	1.77284e-33	1.00000	1.77284e-33	1.00000
rad27	1.45916e-33	1.00000	1.45916e-33	1.00000
rad36	4.62202e-34	1.00000	4.62202e-34	1.00000
rad12	9.82701e-35	1.00000	9.82701e-35	1.00000
rad13	9.23896e-35	1.00000	9.23896e-35	1.00000
rad33	1.26368e-35	1.00000	1.26368e-35	1.00000
rad5	5.65950e-36	1.00000	5.65950e-36	1.00000
rad21	1.07580e-36	1.00000	1.07580e-36	1.00000
rad20	6.32966e-37	1.00000	6.32966e-37	1.00000
rad18	1.20139e-38	1.00000	1.20139e-38	1.00000
rad22	2.07319e-39	1.00000	2.07319e-39	1.00000
rad24	4.91496e-40	1.00000	4.91496e-40	1.00000
rad8	3.04177e-50	1.00000	3.04177e-50	1.00000

0.100000000E-08 Pa, 310.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.92544e-14 (1.00)	5.92544e-14 (1.00)
Formation of rad19	5.91462e-14 (0.998)	5.91462e-14 (0.998)
H-abstraction to cyc2enyl	1.07628e-16 (0.00182)	1.07628e-16 (0.00182)
H-abstraction to cyclenyl	5.62537e-19 (9.49e-06)	5.62537e-19 (9.49e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997536	0.997536	0.997536	0.997536
Benzene+cycloprop-2-enylidene	0.00181637	0.999353	0.00181637	0.999353
PhCHCCH2+H	0.000599213	0.999952	0.000599213	0.999952
PhCCH+CH3	1.07899e-05	0.999963	1.07899e-05	0.999963
C2H2+PhCH2	9.94973e-06	0.999973	9.94973e-06	0.999973
Benzene+cycloprop-1-enylidene	9.49359e-06	0.999982	9.49359e-06	0.999982
PhCCCH3+H	6.92725e-06	0.999989	6.92725e-06	0.999989
Ph+MeAc	6.69436e-06	0.999996	6.69436e-06	0.999996
rad67	1.91404e-06	0.999998	1.91404e-06	0.999998
Ph+Allene	1.02854e-06	0.999999	1.02854e-06	0.999999
rad35	8.00939e-07	0.999999	8.00939e-07	0.999999
PhCH2CCH+H	1.75897e-07	1.000000	1.75897e-07	1.000000
PAH7+H	9.96917e-08	1.000000	9.96917e-08	1.000000
rad37	2.86985e-08	1.000000	2.86985e-08	1.000000
rad39	2.78945e-08	1.000000	2.78945e-08	1.000000
rad30	1.58794e-08	1.000000	1.58794e-08	1.000000
PAH9+H	1.63685e-09	1.000000	1.63685e-09	1.000000
rad38	8.60336e-10	1.000000	8.60336e-10	1.000000
PhcycC3H3_A+H	4.09102e-10	1.000000	4.09102e-10	1.000000
PAH10+CH3	2.45221e-10	1.000000	2.45221e-10	1.000000
rad60syn	1.25085e-10	1.000000	1.25085e-10	1.000000
PAH3+H	1.05828e-10	1.000000	1.05828e-10	1.000000
rad60anti	6.43937e-11	1.000000	6.43937e-11	1.000000
rad46	5.94068e-11	1.000000	5.94068e-11	1.000000
rad59	1.93817e-11	1.000000	1.93817e-11	1.000000
PhcycC3H3_B+H	1.41415e-11	1.000000	1.41415e-11	1.000000
Phenyl+cycC3H4	1.07882e-11	1.000000	0.000000	1.000000
rad54	8.89606e-12	1.000000	8.89606e-12	1.000000
rad43	6.83075e-12	1.000000	6.83075e-12	1.000000
rad62	1.51159e-12	1.000000	1.51159e-12	1.000000
rad50	1.17696e-12	1.000000	1.17696e-12	1.000000
rad70	3.87563e-13	1.000000	3.87563e-13	1.000000
PAH1+H	2.83537e-13	1.000000	2.83537e-13	1.000000
rad55	1.69858e-13	1.000000	1.69858e-13	1.000000
rad52	1.66060e-14	1.000000	1.66060e-14	1.000000
rad34	1.64058e-14	1.000000	1.64058e-14	1.000000
rad58	1.50872e-14	1.000000	1.50872e-14	1.000000
rad51	1.01582e-14	1.000000	1.01582e-14	1.000000
rad41	4.78440e-15	1.000000	4.78440e-15	1.000000
rad42	2.42635e-15	1.000000	2.42635e-15	1.000000
rad65	2.87409e-16	1.000000	2.87409e-16	1.000000
rad53	1.82136e-16	1.000000	1.82136e-16	1.000000
rad64	6.86553e-17	1.000000	6.86553e-17	1.000000
rad61	3.85257e-17	1.000000	3.85257e-17	1.000000
rad56	4.20810e-18	1.000000	4.20810e-18	1.000000
rad68syn	5.79184e-19	1.000000	5.79184e-19	1.000000
rad68anti	4.21603e-19	1.000000	4.21603e-19	1.000000
rad40syn	1.84909e-20	1.000000	1.84909e-20	1.000000
rad40anti	1.45861e-20	1.000000	1.45861e-20	1.000000
PAH8+H	5.99119e-21	1.000000	5.99119e-21	1.000000

rad73	7.86975e-22	1.000000	7.86975e-22	1.000000
rad71	1.54165e-23	1.000000	1.54165e-23	1.000000
rad19anti	1.86169e-28	1.000000	1.86169e-28	1.000000
rad6	4.85077e-30	1.000000	4.85077e-30	1.000000
rad2	1.57835e-31	1.000000	1.57835e-31	1.000000
rad10	1.77095e-32	1.000000	1.77095e-32	1.000000
rad1	1.22676e-32	1.000000	1.22676e-32	1.000000
rad47	3.77537e-34	1.000000	3.77537e-34	1.000000
rad7	3.58589e-34	1.000000	3.58589e-34	1.000000
rad31	1.07023e-34	1.000000	1.07023e-34	1.000000
rad11	7.38809e-35	1.000000	7.38809e-35	1.000000
rad26	2.22276e-35	1.000000	2.22276e-35	1.000000
rad28	7.67472e-36	1.000000	7.67472e-36	1.000000
rad13	2.09443e-36	1.000000	2.09443e-36	1.000000
rad19syn	1.62279e-36	1.000000	1.62279e-36	1.000000
rad9	1.29700e-37	1.000000	1.29700e-37	1.000000
rad14	3.93580e-38	1.000000	3.93580e-38	1.000000
rad25	3.07860e-38	1.000000	3.07860e-38	1.000000
rad23	1.66827e-38	1.000000	1.66827e-38	1.000000
rad27	8.41516e-39	1.000000	8.41516e-39	1.000000
rad33	2.90769e-39	1.000000	2.90769e-39	1.000000
rad45	1.01152e-39	1.000000	1.01152e-39	1.000000
rad4	4.63150e-40	1.000000	4.63150e-40	1.000000
rad3	3.07269e-40	1.000000	3.07269e-40	1.000000
rad36	6.71737e-41	1.000000	6.71737e-41	1.000000
rad15	5.88699e-41	1.000000	5.88699e-41	1.000000
rad5	1.89565e-42	1.000000	1.89565e-42	1.000000
rad12	1.33171e-42	1.000000	1.33171e-42	1.000000
rad21	1.24395e-43	1.000000	1.24395e-43	1.000000
rad20	1.18499e-43	1.000000	1.18499e-43	1.000000
rad22	2.98678e-46	1.000000	2.98678e-46	1.000000
rad18	9.10639e-47	1.000000	9.10639e-47	1.000000
rad24	1.45550e-47	1.000000	1.45550e-47	1.000000
rad8	1.69031e-63	1.000000	1.69031e-63	1.000000

0.100000000E-08 Pa, 400.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.29463e-13 (1.00)	1.29463e-13 (1.00)
Formation of rad19	1.28526e-13 (0.993)	1.28526e-13 (0.993)
H-abstraction to cyc2enyl	9.19357e-16 (0.00710)	9.19357e-16 (0.00710)
H-abstraction to cyc1enyl	1.69485e-17 (0.000131)	1.69485e-17 (0.000131)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.991683	0.991683	0.991683	0.991683
Benzene+cycloprop-2-enylidene	0.00710133	0.998784	0.00710133	0.998784
PhCHCCH2+H	0.00100586	0.999790	0.00100586	0.999790
Benzene+cycloprop-1-enylidene	0.000130914	0.999921	0.000130914	0.999921
C2H2+PhCH2	2.22468e-05	0.999943	2.22468e-05	0.999943
PhCCH+CH3	1.95098e-05	0.999963	1.95098e-05	0.999963
Ph+MeAc	1.45179e-05	0.999977	1.45179e-05	0.999977
PhCCCH3+H	1.31952e-05	0.999990	1.31952e-05	0.999990
rad67	4.22167e-06	0.999994	4.22167e-06	0.999994
Ph+Allene	2.97391e-06	0.999997	2.97391e-06	0.999997
rad35	1.68909e-06	0.999999	1.68909e-06	0.999999
PhCH2CCH+H	6.93048e-07	1.000000	6.93048e-07	1.000000
PAH7+H	2.89758e-07	1.000000	2.89758e-07	1.000000
rad37	8.82205e-08	1.000000	8.82205e-08	1.000000
rad39	7.05188e-08	1.000000	7.05188e-08	1.000000
rad30	3.41246e-08	1.000000	3.41246e-08	1.000000
PAH9+H	5.67069e-09	1.000000	5.67069e-09	1.000000
PhcycC3H3_A+H	4.88900e-09	1.000000	4.88900e-09	1.000000
rad38	3.07435e-09	1.000000	3.07435e-09	1.000000
PAH10+CH3	1.94150e-09	1.000000	1.94150e-09	1.000000
PAH3+H	5.34449e-10	1.000000	5.34449e-10	1.000000
PhcycC3H3_B+H	4.15151e-10	1.000000	4.15151e-10	1.000000
rad60syn	3.79130e-10	1.000000	3.79130e-10	1.000000
rad46	2.31290e-10	1.000000	2.31290e-10	1.000000
Phenyl+cycC3H4	2.22328e-10	1.000000	0.000000	1.000000
rad60anti	2.01850e-10	1.000000	2.01850e-10	1.000000
rad59	8.49299e-11	1.000000	8.49299e-11	1.000000
rad54	6.39706e-11	1.000000	6.39706e-11	1.000000
rad43	3.46932e-11	1.000000	3.46932e-11	1.000000
rad50	8.28672e-12	1.000000	8.28672e-12	1.000000
rad62	7.28467e-12	1.000000	7.28467e-12	1.000000
rad70	3.85328e-12	1.000000	3.85328e-12	1.000000
PAH1+H	3.61003e-12	1.000000	3.61003e-12	1.000000
rad55	1.60055e-12	1.000000	1.60055e-12	1.000000

rad34	2.43952e-13	1.00000	2.43952e-13	1.00000
rad52	1.72576e-13	1.00000	1.72576e-13	1.00000
rad58	1.69180e-13	1.00000	1.69180e-13	1.00000
rad51	1.42864e-13	1.00000	1.42864e-13	1.00000
rad41	6.83260e-14	1.00000	6.83260e-14	1.00000
rad42	2.71734e-14	1.00000	2.71734e-14	1.00000
rad53	6.88019e-15	1.00000	6.88019e-15	1.00000
rad65	4.39173e-15	1.00000	4.39173e-15	1.00000
rad61	3.43038e-15	1.00000	3.43038e-15	1.00000
rad64	3.05834e-15	1.00000	3.05834e-15	1.00000
rad56	5.30924e-16	1.00000	5.30924e-16	1.00000
rad68syn	7.48244e-17	1.00000	7.48244e-17	1.00000
rad68anti	5.24834e-17	1.00000	5.24834e-17	1.00000
rad40syn	6.39129e-18	1.00000	6.39129e-18	1.00000
PAH8+H	5.94551e-18	1.00000	5.94551e-18	1.00000
rad40anti	4.74371e-18	1.00000	4.74371e-18	1.00000
rad73	4.85676e-19	1.00000	4.85676e-19	1.00000
rad71	4.97335e-20	1.00000	4.97335e-20	1.00000
rad19anti	4.76696e-22	1.00000	4.76696e-22	1.00000
rad6	1.00146e-24	1.00000	1.00146e-24	1.00000
rad72	7.32148e-25	1.00000	7.32148e-25	1.00000
rad23	1.27675e-25	1.00000	1.27675e-25	1.00000
rad45	6.16992e-27	1.00000	6.16992e-27	1.00000
rad19syn	2.04434e-27	1.00000	2.04434e-27	1.00000
rad9	1.18214e-27	1.00000	1.18214e-27	1.00000
rad31	5.03677e-28	1.00000	5.03677e-28	1.00000
rad36	2.65783e-28	1.00000	2.65783e-28	1.00000
rad4	1.63560e-28	1.00000	1.63560e-28	1.00000
rad3	9.85568e-29	1.00000	9.85568e-29	1.00000
rad7	7.90793e-29	1.00000	7.90793e-29	1.00000
rad1	2.71886e-29	1.00000	2.71886e-29	1.00000
rad11	1.21115e-29	1.00000	1.21115e-29	1.00000
rad26	7.19708e-30	1.00000	7.19708e-30	1.00000
rad28	1.07620e-30	1.00000	1.07620e-30	1.00000
rad15	7.11712e-31	1.00000	7.11712e-31	1.00000
rad13	4.96862e-31	1.00000	4.96862e-31	1.00000
rad12	1.89510e-31	1.00000	1.89510e-31	1.00000
rad47	7.65193e-32	1.00000	7.65193e-32	1.00000
rad10	6.31002e-32	1.00000	6.31002e-32	1.00000
rad25	1.12718e-32	1.00000	1.12718e-32	1.00000
rad14	6.50675e-33	1.00000	6.50675e-33	1.00000
rad27	5.53341e-33	1.00000	5.53341e-33	1.00000
rad2	5.20043e-33	1.00000	5.20043e-33	1.00000
rad33	6.54009e-34	1.00000	6.54009e-34	1.00000
rad22	2.51398e-34	1.00000	2.51398e-34	1.00000
rad21	4.23364e-35	1.00000	4.23364e-35	1.00000
rad20	1.79813e-35	1.00000	1.79813e-35	1.00000
rad5	5.79765e-36	1.00000	5.79765e-36	1.00000
rad24	3.31389e-37	1.00000	3.31389e-37	1.00000
rad18	6.92519e-38	1.00000	6.92519e-38	1.00000
rad8	6.65008e-47	1.00000	6.65008e-47	1.00000

0.100000000E-08 Pa, 500.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.52837e-13 (1.00)	2.52837e-13 (1.00)
Formation of rad19	2.47941e-13 (0.981)	2.47941e-13 (0.981)
H-abstraction to cyc2enyl	4.69058e-15 (0.0186)	4.69058e-15 (0.0186)
H-abstraction to cyclenyl	2.05381e-16 (0.000812)	2.05381e-16 (0.000812)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.978428	0.978428	0.978428	0.978428
Benzene+cycloprop-2-enylidene	0.0185518	0.996979	0.0185518	0.996979
PhCHCCH2+H	0.00202477	0.999004	0.00202477	0.999004
Benzene+cycloprop-1-enylidene	0.000812306	0.999816	0.000812306	0.999816
C2H2+PhCH2	5.13363e-05	0.999868	5.13363e-05	0.999868
PhCCH+CH3	3.71182e-05	0.999905	3.71182e-05	0.999905
Ph+MeAc	3.63101e-05	0.999941	3.63101e-05	0.999941
PhCCCH3+H	2.84449e-05	0.999970	2.84449e-05	0.999970
Ph+Allene	1.09470e-05	0.999981	1.09470e-05	0.999981
rad67	1.05822e-05	0.999991	1.05822e-05	0.999991
rad35	4.10935e-06	0.999995	4.10935e-06	0.999995
PhCH2CCH+H	2.95392e-06	0.999998	2.95392e-06	0.999998
PAH7+H	8.51564e-07	0.999999	8.51564e-07	0.999999
rad37	2.86678e-07	0.999999	2.86678e-07	0.999999
rad39	2.02118e-07	1.000000	2.02118e-07	1.000000
rad30	8.94923e-08	1.000000	8.94923e-08	1.000000
PhcycC3H3_A+H	5.02850e-08	1.000000	5.02850e-08	1.000000

PAH9+H	2.06879e-08	1.000000	2.06879e-08	1.000000
PAH10+CH3	1.44052e-08	1.000000	1.44052e-08	1.000000
rad38	1.31834e-08	1.000000	1.31834e-08	1.000000
PhcycC3H3_B+H	7.81107e-09	1.000000	7.81107e-09	1.000000
Phenyl+cycC3H4	3.55660e-09	1.000000	0.00000	1.000000
PAH3+H	2.97649e-09	1.000000	2.97649e-09	1.000000
rad60syn	1.43183e-09	1.000000	1.43183e-09	1.000000
rad46	1.04913e-09	1.000000	1.04913e-09	1.000000
rad60anti	7.84373e-10	1.000000	7.84373e-10	1.000000
rad54	4.68691e-10	1.000000	4.68691e-10	1.000000
rad59	4.42102e-10	1.000000	4.42102e-10	1.000000
rad43	1.96278e-10	1.000000	1.96278e-10	1.000000
rad50	6.65687e-11	1.000000	6.65687e-11	1.000000
PAH1+H	4.68911e-11	1.000000	4.68911e-11	1.000000
rad62	3.77646e-11	1.000000	3.77646e-11	1.000000
rad70	3.76454e-11	1.000000	3.76454e-11	1.000000
rad55	1.50995e-11	1.000000	1.50995e-11	1.000000
rad34	3.22092e-12	1.000000	3.22092e-12	1.000000
rad51	2.08196e-12	1.000000	2.08196e-12	1.000000
rad58	2.05092e-12	1.000000	2.05092e-12	1.000000
rad52	1.88540e-12	1.000000	1.88540e-12	1.000000
rad41	8.63972e-13	1.000000	8.63972e-13	1.000000
rad42	2.74850e-13	1.000000	2.74850e-13	1.000000
rad53	1.70507e-13	1.000000	1.70507e-13	1.000000
rad61	1.40668e-13	1.000000	1.40668e-13	1.000000
rad64	7.73135e-14	1.000000	7.73135e-14	1.000000
rad65	6.64224e-14	1.000000	6.64224e-14	1.000000
rad56	2.62115e-14	1.000000	2.62115e-14	1.000000
rad68syn	3.88259e-15	1.000000	3.88259e-15	1.000000
rad68anti	2.67414e-15	1.000000	2.67414e-15	1.000000
PAH8+H	8.47559e-16	1.000000	8.47559e-16	1.000000
rad40syn	5.55783e-16	1.000000	5.55783e-16	1.000000
rad40anti	4.06573e-16	1.000000	4.06573e-16	1.000000
rad73	6.83536e-17	1.000000	6.83536e-17	1.000000
rad71	1.35737e-17	1.000000	1.35737e-17	1.000000
rad19anti	6.68017e-20	1.000000	6.68017e-20	1.000000
rad2	2.27210e-21	1.000000	2.27210e-21	1.000000
rad72	1.99195e-21	1.000000	1.99195e-21	1.000000
rad23	8.02695e-22	1.000000	8.02695e-22	1.000000
rad1	2.65726e-22	1.000000	2.65726e-22	1.000000
rad45	2.52796e-22	1.000000	2.52796e-22	1.000000
rad6	1.10044e-22	1.000000	1.10044e-22	1.000000
rad10	4.63711e-23	1.000000	4.63711e-23	1.000000
rad19syn	1.45990e-23	1.000000	1.45990e-23	1.000000
rad36	1.36046e-23	1.000000	1.36046e-23	1.000000
rad3	6.61160e-24	1.000000	6.61160e-24	1.000000
rad4	4.16817e-24	1.000000	4.16817e-24	1.000000
rad9	1.88828e-24	1.000000	1.88828e-24	1.000000
rad31	1.77645e-25	1.000000	1.77645e-25	1.000000
rad7	8.31538e-27	1.000000	8.31538e-27	1.000000
rad12	1.85135e-27	1.000000	1.85135e-27	1.000000
rad15	1.20423e-27	1.000000	1.20423e-27	1.000000
rad11	1.12565e-27	1.000000	1.12565e-27	1.000000
rad26	7.09008e-29	1.000000	7.09008e-29	1.000000
rad13	5.73046e-29	1.000000	5.73046e-29	1.000000
rad28	3.64192e-29	1.000000	3.64192e-29	1.000000
rad47	5.02583e-30	1.000000	5.02583e-30	1.000000
rad22	4.86589e-31	1.000000	4.86589e-31	1.000000
rad25	7.41710e-32	1.000000	7.41710e-32	1.000000
rad33	5.30890e-32	1.000000	5.30890e-32	1.000000
rad27	4.69653e-32	1.000000	4.69653e-32	1.000000
rad14	3.20396e-32	1.000000	3.20396e-32	1.000000
rad21	6.79671e-33	1.000000	6.79671e-33	1.000000
rad20	1.93277e-33	1.000000	1.93277e-33	1.000000
rad24	1.37959e-33	1.000000	1.37959e-33	1.000000
rad5	7.42174e-36	1.000000	7.42174e-36	1.000000
rad18	9.37314e-37	1.000000	9.37314e-37	1.000000
rad8	1.56286e-42	1.000000	1.56286e-42	1.000000

0.100000000E-08 Pa, 600.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.35570e-13 (1.00)	4.35570e-13 (1.00)
Formation of rad19	4.18892e-13 (0.962)	4.18892e-13 (0.962)
H-abstraction to cyc2enyl	1.54751e-14 (0.0355)	1.54751e-14 (0.0355)
H-abstraction to cyclenyl	1.20343e-15 (0.00276)	1.20343e-15 (0.00276)

species	PYtrue	Cumul	PYeffective	Cumul
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Indene+H	0.957276	0.957276	0.957276	0.957276
Benzene+cycloprop-2-enylidene	0.0355285	0.992805	0.0355285	0.992805
PhCHCCH2+H	0.00402172	0.996826	0.00402172	0.996826
Benzene+cycloprop-1-enylidene	0.00276289	0.999589	0.00276289	0.999589
C2H2+PhCH2	0.000111945	0.999701	0.000111945	0.999701
Ph+MeAc	8.57420e-05	0.999787	8.57420e-05	0.999787
PhCCH+CH3	6.75064e-05	0.999854	6.75064e-05	0.999854
PhCCCH3+H	5.90383e-05	0.999913	5.90383e-05	0.999913
Ph+Allene	3.56628e-05	0.999949	3.56628e-05	0.999949
rad67	2.54029e-05	0.999975	2.54029e-05	0.999975
PhCH2CCH+H	1.09199e-05	0.999985	1.09199e-05	0.999985
rad35	9.63305e-06	0.999995	9.63305e-06	0.999995
PAH7+H	2.26706e-06	0.999997	2.26706e-06	0.999997
rad37	8.64904e-07	0.999998	8.64904e-07	0.999998
rad39	5.20249e-07	0.999999	5.20249e-07	0.999999
PhcycC3H3_A+H	3.56529e-07	0.999999	3.56529e-07	0.999999
rad30	2.27441e-07	0.999999	2.27441e-07	0.999999
PAH10+CH3	8.50920e-08	0.999999	8.50920e-08	0.999999
PhcycC3H3_B+H	8.43895e-08	0.999999	8.43895e-08	0.999999
PAH9+H	7.13070e-08	1.000000	7.13070e-08	1.000000
rad38	5.21311e-08	1.000000	5.21311e-08	1.000000
Phenyl+cycC3H4	3.58023e-08	1.000000	0.000000	1.000000
PAH3+H	1.45691e-08	1.000000	1.45691e-08	1.000000
rad60syn	5.03972e-09	1.000000	5.03972e-09	1.000000
rad46	4.37621e-09	1.000000	4.37621e-09	1.000000
rad60anti	2.82886e-09	1.000000	2.82886e-09	1.000000
rad54	2.63022e-09	1.000000	2.63022e-09	1.000000
rad59	2.03126e-09	1.000000	2.03126e-09	1.000000
rad43	9.14301e-10	1.000000	9.14301e-10	1.000000
rad50	4.49074e-10	1.000000	4.49074e-10	1.000000
PAH1+H	4.05905e-10	1.000000	4.05905e-10	1.000000
rad70	2.63826e-10	1.000000	2.63826e-10	1.000000
rad62	1.58022e-10	1.000000	1.58022e-10	1.000000
rad55	1.01573e-10	1.000000	1.01573e-10	1.000000
rad34	2.81348e-11	1.000000	2.81348e-11	1.000000
rad51	2.21630e-11	1.000000	2.21630e-11	1.000000
rad58	1.79744e-11	1.000000	1.79744e-11	1.000000
rad52	1.61050e-11	1.000000	1.61050e-11	1.000000
rad41	7.27827e-12	1.000000	7.27827e-12	1.000000
rad61	2.69080e-12	1.000000	2.69080e-12	1.000000
rad53	2.26526e-12	1.000000	2.26526e-12	1.000000
rad42	1.88131e-12	1.000000	1.88131e-12	1.000000
rad64	9.96176e-13	1.000000	9.96176e-13	1.000000
rad65	7.15322e-13	1.000000	7.15322e-13	1.000000
rad56	5.47638e-13	1.000000	5.47638e-13	1.000000
rad68syn	8.54715e-14	1.000000	8.54715e-14	1.000000
rad68anti	5.81389e-14	1.000000	5.81389e-14	1.000000
PAH8+H	3.69240e-14	1.000000	3.69240e-14	1.000000
rad40syn	1.73285e-14	1.000000	1.73285e-14	1.000000
rad40anti	1.26417e-14	1.000000	1.26417e-14	1.000000
rad73	3.37834e-15	1.000000	3.37834e-15	1.000000
rad71	1.04445e-15	1.000000	1.04445e-15	1.000000
rad72	6.43631e-19	1.000000	6.43631e-19	1.000000
rad19anti	4.93441e-19	1.000000	4.93441e-19	1.000000
rad23	4.21634e-20	1.000000	4.21634e-20	1.000000
rad2	3.65995e-20	1.000000	3.65995e-20	1.000000
rad45	1.41982e-20	1.000000	1.41982e-20	1.000000
rad1	6.00796e-21	1.000000	6.00796e-21	1.000000
rad9	4.17248e-21	1.000000	4.17248e-21	1.000000
rad19syn	1.52297e-21	1.000000	1.52297e-21	1.000000
rad36	1.44877e-21	1.000000	1.44877e-21	1.000000
rad3	1.32472e-21	1.000000	1.32472e-21	1.000000
rad4	9.37290e-22	1.000000	9.37290e-22	1.000000
rad10	8.59849e-22	1.000000	8.59849e-22	1.000000
rad6	6.93558e-22	1.000000	6.93558e-22	1.000000
rad12	1.38518e-23	1.000000	1.38518e-23	1.000000
rad31	3.24820e-24	1.000000	3.24820e-24	1.000000
rad15	2.51702e-24	1.000000	2.51702e-24	1.000000
rad7	5.37901e-26	1.000000	5.37901e-26	1.000000
rad11	7.07883e-27	1.000000	7.07883e-27	1.000000
rad26	9.57568e-28	1.000000	9.57568e-28	1.000000
rad28	5.69651e-28	1.000000	5.69651e-28	1.000000
rad13	4.15614e-28	1.000000	4.15614e-28	1.000000
rad47	1.30363e-28	1.000000	1.30363e-28	1.000000
rad22	2.06648e-29	1.000000	2.06648e-29	1.000000
rad24	9.86819e-30	1.000000	9.86819e-30	1.000000
rad21	3.64579e-30	1.000000	3.64579e-30	1.000000
rad33	2.81782e-30	1.000000	2.81782e-30	1.000000
rad25	1.20995e-30	1.000000	1.20995e-30	1.000000
rad27	9.85155e-31	1.000000	9.85155e-31	1.000000

rad20	7.07757e-31	1.000000	7.07757e-31	1.000000
rad14	3.51685e-31	1.000000	3.51685e-31	1.000000
rad18	3.18405e-35	1.000000	3.18405e-35	1.000000
rad5	1.30689e-35	1.000000	1.30689e-35	1.000000
rad8	2.39366e-37	1.000000	2.39366e-37	1.000000

0.100000000E-08 Pa, 700.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.91694e-13 (1.00)	6.91694e-13 (1.00)
Formation of rad19	6.47922e-13 (0.937)	6.47922e-13 (0.937)
H-abstraction to cyc2enyl	3.91858e-14 (0.0567)	3.91858e-14 (0.0567)
H-abstraction to cyclenyl	4.58543e-15 (0.00663)	4.58542e-15 (0.00663)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.928261	0.928261	0.928261	0.928261
Benzene+cycloprop-2-enylidene	0.0566520	0.984913	0.0566520	0.984913
PhCHCCH2+H	0.00759850	0.992512	0.00759851	0.992512
Benzene+cycloprop-1-enylidene	0.00662927	0.999141	0.00662927	0.999141
C2H2+PhCH2	0.000223367	0.999364	0.000223367	0.999364
Ph+MeAc	0.000184762	0.999549	0.000184762	0.999549
PhCCH+CH3	0.000114475	0.999663	0.000114475	0.999663
PhCCCH3+H	0.000114174	0.999778	0.000114174	0.999778
Ph+Allene	9.86533e-05	0.999876	9.86533e-05	0.999876
rad67	5.61617e-05	0.999932	5.61618e-05	0.999932
PhCH2CCH+H	3.37385e-05	0.999966	3.37385e-05	0.999966
rad35	2.09201e-05	0.999987	2.09202e-05	0.999987
PAH7+H	5.25052e-06	0.999992	5.25052e-06	0.999992
rad37	2.31770e-06	0.999995	2.31770e-06	0.999995
PhcycC3H3_A+H	1.84668e-06	0.999997	1.84668e-06	0.999997
rad39	1.15814e-06	0.999998	1.15814e-06	0.999998
PhcycC3H3_B+H	5.97889e-07	0.999998	5.97889e-07	0.999998
rad30	5.35177e-07	0.999999	5.35177e-07	0.999999
PAH10+CH3	3.93624e-07	0.999999	3.93624e-07	0.999999
Phenyl+cycC3H4	2.47273e-07	0.999999	0.00000	0.999999
PAH9+H	2.20558e-07	1.000000	2.20558e-07	0.999999
rad38	1.79348e-07	1.000000	1.79348e-07	1.000000
PAH3+H	5.98815e-08	1.000000	5.98815e-08	1.000000
rad46	1.59383e-08	1.000000	1.59383e-08	1.000000
rad60syn	1.57198e-08	1.000000	1.57198e-08	1.000000
rad54	1.11959e-08	1.000000	1.11959e-08	1.000000
rad60anti	9.00502e-09	1.000000	9.00502e-09	1.000000
rad59	7.88061e-09	1.000000	7.88061e-09	1.000000
rad43	3.45953e-09	1.000000	3.45953e-09	1.000000
PAH1+H	2.45995e-09	1.000000	2.45995e-09	1.000000
rad50	2.44563e-09	1.000000	2.44563e-09	1.000000
rad70	1.34938e-09	1.000000	1.34938e-09	1.000000
rad62	5.31170e-10	1.000000	5.31170e-10	1.000000
rad55	4.95201e-10	1.000000	4.95201e-10	1.000000
rad51	1.72653e-10	1.000000	1.72653e-10	1.000000
rad34	1.70511e-10	1.000000	1.70511e-10	1.000000
rad58	1.15481e-10	1.000000	1.15481e-10	1.000000
rad52	1.05442e-10	1.000000	1.05442e-10	1.000000
rad41	4.33848e-11	1.000000	4.33848e-11	1.000000
rad61	2.93831e-11	1.000000	2.93831e-11	1.000000
rad53	1.83949e-11	1.000000	1.83949e-11	1.000000
rad42	9.22818e-12	1.000000	9.22818e-12	1.000000
rad64	7.68987e-12	1.000000	7.68987e-12	1.000000
rad56	6.14022e-12	1.000000	6.14022e-12	1.000000
rad65	5.56200e-12	1.000000	5.56200e-12	1.000000
rad68syn	1.01762e-12	1.000000	1.01762e-12	1.000000
PAH8+H	7.27467e-13	1.000000	7.27467e-13	1.000000
rad68anti	6.85898e-13	1.000000	6.85898e-13	1.000000
rad40syn	2.67923e-13	1.000000	2.67923e-13	1.000000
rad40anti	1.96404e-13	1.000000	1.96404e-13	1.000000
rad73	8.03975e-14	1.000000	8.03975e-14	1.000000
rad71	3.42948e-14	1.000000	3.42948e-14	1.000000
rad72	5.61670e-17	1.000000	5.61670e-17	1.000000
rad9	3.01844e-18	1.000000	3.01844e-18	1.000000
rad19anti	6.95729e-19	1.000000	6.95729e-19	1.000000
rad2	3.25702e-19	1.000000	3.25702e-19	1.000000
rad23	1.92735e-19	1.000000	1.92735e-19	1.000000
rad45	5.85758e-20	1.000000	5.85758e-20	1.000000
rad1	5.84448e-20	1.000000	5.84448e-20	1.000000
rad12	1.17945e-20	1.000000	1.17945e-20	1.000000
rad19syn	8.87889e-21	1.000000	8.87889e-21	1.000000
rad36	8.66230e-21	1.000000	8.66230e-21	1.000000
rad10	4.75738e-21	1.000000	4.75738e-21	1.000000

rad4	1.37042e-21	1.000000	1.37042e-21	1.000000
rad6	1.22971e-21	1.000000	1.22971e-21	1.000000
rad15	1.20011e-21	1.000000	1.20011e-21	1.000000
rad3	9.98205e-22	1.000000	9.98205e-22	1.000000
rad31	9.71078e-24	1.000000	9.71078e-24	1.000000
rad7	1.04451e-25	1.000000	1.04451e-25	1.000000
rad24	2.00377e-26	1.000000	2.00377e-26	1.000000
rad11	1.46757e-26	1.000000	1.46757e-26	1.000000
rad26	4.04157e-27	1.000000	4.04158e-27	1.000000
rad21	3.05149e-27	1.000000	3.05149e-27	1.000000
rad28	2.54481e-27	1.000000	2.54481e-27	1.000000
rad47	1.29142e-27	1.000000	1.29142e-27	1.000000
rad13	9.90205e-28	1.000000	9.90205e-28	1.000000
rad33	9.16226e-28	1.000000	9.16226e-28	1.000000
rad20	4.78986e-28	1.000000	4.78987e-28	1.000000
rad22	1.00950e-28	1.000000	1.00950e-28	1.000000
rad25	4.89809e-29	1.000000	4.89809e-29	1.000000
rad27	4.77248e-29	1.000000	4.77248e-29	1.000000
rad14	8.64829e-30	1.000000	8.64829e-30	1.000000
rad8	5.34063e-32	1.000000	5.34063e-32	1.000000
rad18	2.37760e-33	1.000000	2.37760e-33	1.000000
rad5	3.54891e-35	1.000000	3.54891e-35	1.000000

0.100000000E-08 Pa, 800.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.03759e-12 (1.00)	1.03758e-12 (1.00)
Formation of rad19	9.41065e-13 (0.907)	9.41063e-13 (0.907)
H-abstraction to cyc2enyl	8.32953e-14 (0.0803)	8.32953e-14 (0.0803)
H-abstraction to cyc1enyl	1.32261e-14 (0.0127)	1.32261e-14 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.891851	0.891851	0.891852	0.891852
Benzene+cycloprop-2-enylidene	0.0802780	0.972129	0.0802781	0.972130
PhCHCCH2+H	0.0134622	0.985591	0.0134623	0.985592
Benzene+cycloprop-1-enylidene	0.0127470	0.998338	0.0127470	0.998339
C2H2+PhCH2	0.000407098	0.998746	0.000407098	0.998747
Ph+MeAc	0.000361138	0.999107	0.000361137	0.999108
Ph+Allene	0.000232338	0.999339	0.000232338	0.999340
PhCCCH3+H	0.000203971	0.999543	0.000203971	0.999544
PhCCH+CH3	0.000180552	0.999724	0.000180553	0.999725
rad67	0.000113174	0.999837	0.000113174	0.999838
PhCH2CCH+H	8.77930e-05	0.999924	8.77932e-05	0.999925
rad35	4.16128e-05	0.999966	4.16129e-05	0.999967
PAH7+H	1.05800e-05	0.999977	1.05800e-05	0.999978
PhcycC3H3_A+H	7.41209e-06	0.999984	7.41210e-06	0.999985
rad37	5.46662e-06	0.999990	5.46663e-06	0.999991
PhcycC3H3_B+H	3.06124e-06	0.999993	3.06124e-06	0.999994
rad39	2.23427e-06	0.999995	2.23428e-06	0.999996
PAH10+CH3	1.45372e-06	0.999996	1.45373e-06	0.999997
Phenyl+cycC3H4	1.26413e-06	0.999998	0.000000	0.999997
rad30	1.14933e-06	0.999999	1.14933e-06	0.999998
PAH9+H	6.06281e-07	0.999999	6.06282e-07	0.999999
rad38	5.31254e-07	1.000000	5.31255e-07	1.000000
PAH3+H	2.06534e-07	1.000000	2.06535e-07	1.000000
rad46	5.03837e-08	1.000000	5.03838e-08	1.000000
rad60syn	4.30113e-08	1.000000	4.30113e-08	1.000000
rad54	3.72615e-08	1.000000	3.72615e-08	1.000000
rad59	2.58004e-08	1.000000	2.58004e-08	1.000000
rad60anti	2.50612e-08	1.000000	2.50612e-08	1.000000
PAH1+H	1.11102e-08	1.000000	1.11102e-08	1.000000
rad50	1.08530e-08	1.000000	1.08530e-08	1.000000
rad43	1.08255e-08	1.000000	1.08255e-08	1.000000
rad70	5.27763e-09	1.000000	5.27763e-09	1.000000
rad55	1.83174e-09	1.000000	1.83175e-09	1.000000
rad62	1.46956e-09	1.000000	1.46956e-09	1.000000
rad51	1.02140e-09	1.000000	1.02140e-09	1.000000
rad34	7.64053e-10	1.000000	7.64054e-10	1.000000
rad58	5.66064e-10	1.000000	5.66065e-10	1.000000
rad52	5.41768e-10	1.000000	5.41769e-10	1.000000
rad61	2.09071e-10	1.000000	2.09072e-10	1.000000
rad41	1.94594e-10	1.000000	1.94595e-10	1.000000
rad53	1.01501e-10	1.000000	1.01501e-10	1.000000
rad56	4.31932e-11	1.000000	4.31933e-11	1.000000
rad64	4.01362e-11	1.000000	4.01363e-11	1.000000
rad42	3.44813e-11	1.000000	3.44814e-11	1.000000
rad65	3.26029e-11	1.000000	3.26029e-11	1.000000
PAH8+H	8.11495e-12	1.000000	8.11497e-12	1.000000

rad68syn	7.66845e-12	1.00000	7.66845e-12	1.00000
rad68anti	5.13228e-12	1.00000	5.13229e-12	1.00000
rad40syn	2.48636e-12	1.00000	2.48636e-12	1.00000
rad40anti	1.83893e-12	1.00000	1.83893e-12	1.00000
rad73	1.11381e-12	1.00000	1.11381e-12	1.00000
rad71	6.08037e-13	1.00000	6.08038e-13	1.00000
rad72	2.02032e-15	1.00000	2.02032e-15	1.00000
rad9	2.68751e-16	1.00000	2.68752e-16	1.00000
rad12	6.62384e-19	1.00000	6.62385e-19	1.00000
rad19anti	6.02835e-19	1.00000	6.02835e-19	1.00000
rad23	3.63137e-19	1.00000	3.63138e-19	1.00000
rad2	2.95415e-19	1.00000	2.95415e-19	1.00000
rad45	1.49527e-19	1.00000	1.49527e-19	1.00000
rad1	7.91589e-20	1.00000	7.91590e-20	1.00000
rad15	6.12184e-20	1.00000	6.12184e-20	1.00000
rad36	1.72195e-20	1.00000	1.72196e-20	1.00000
rad19syn	1.44428e-20	1.00000	1.44428e-20	1.00000
rad10	5.07179e-21	1.00000	5.07179e-21	1.00000
rad4	2.10198e-21	1.00000	2.10199e-21	1.00000
rad3	1.94039e-21	1.00000	1.94039e-21	1.00000
rad6	1.50493e-21	1.00000	1.50493e-21	1.00000
rad31	1.51028e-23	1.00000	1.51028e-23	1.00000
rad24	4.04465e-24	1.00000	4.04465e-24	1.00000
rad21	1.34470e-24	1.00000	1.34471e-24	1.00000
rad33	2.36762e-25	1.00000	2.36762e-25	1.00000
rad20	2.16398e-25	1.00000	2.16399e-25	1.00000
rad7	1.42577e-25	1.00000	1.42577e-25	1.00000
rad11	2.11714e-26	1.00000	2.11714e-26	1.00000
rad13	1.70557e-26	1.00000	1.70558e-26	1.00000
rad47	8.53940e-27	1.00000	8.53940e-27	1.00000
rad26	4.80435e-27	1.00000	4.80436e-27	1.00000
rad27	3.72353e-27	1.00000	3.72354e-27	1.00000
rad25	3.67480e-27	1.00000	3.67481e-27	1.00000
rad28	2.95368e-27	1.00000	2.95369e-27	1.00000
rad8	2.39851e-27	1.00000	2.39851e-27	1.00000
rad14	3.83211e-28	1.00000	3.83211e-28	1.00000
rad22	2.11105e-28	1.00000	2.11106e-28	1.00000
rad18	4.85000e-31	1.00000	4.85001e-31	1.00000
rad5	1.72530e-34	1.00000	1.72530e-34	1.00000

0.100000000E-08 Pa, 900.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.49199e-12 (1.00)	1.49199e-12 (1.00)
Formation of rad19	1.30395e-12 (0.874)	1.30394e-12 (0.874)
H-abstraction to cyc2enyl	1.56554e-13 (0.105)	1.56554e-13 (0.105)
H-abstraction to cyclenyl	3.14892e-14 (0.0211)	3.14890e-14 (0.0211)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.848699	0.848699	0.848703	0.848703
Benzene+cycloprop-2-enylidene	0.104929	0.953628	0.104930	0.953634
PhCHCCH2+H	0.0222941	0.975922	0.0222941	0.975928
Benzene+cycloprop-1-enylidene	0.0211054	0.997028	0.0211054	0.997033
C2H2+PhCH2	0.000683868	0.997712	0.000683871	0.997717
Ph+MeAc	0.000643403	0.998355	0.000643406	0.998360
Ph+Allene	0.000474185	0.998829	0.000474187	0.998835
PhCCCH3+H	0.000337156	0.999166	0.000337157	0.999172
PhCCH+CH3	0.000266833	0.999433	0.000266834	0.999439
rad67	0.000208252	0.999641	0.000208253	0.999647
PhCH2CCH+H	0.000196562	0.999838	0.000196563	0.999843
rad35	7.58728e-05	0.999914	7.58733e-05	0.999919
PhcycC3H3_A+H	2.42103e-05	0.999938	2.42105e-05	0.999943
PAH7+H	1.88375e-05	0.999957	1.88376e-05	0.999962
PhcycC3H3_B+H	1.21561e-05	0.999969	1.21561e-05	0.999974
rad37	1.14050e-05	0.999980	1.14050e-05	0.999986
Phenyl+cycC3H4	5.07995e-06	0.999986	0.000000	0.999986
PAH10+CH3	4.40461e-06	0.999990	4.40463e-06	0.999990
rad39	3.79886e-06	0.999994	3.79888e-06	0.999994
rad30	2.25163e-06	0.999996	2.25165e-06	0.999996
PAH9+H	1.48864e-06	0.999997	1.48865e-06	0.999998
rad38	1.36505e-06	0.999999	1.36505e-06	0.999999
PAH3+H	6.06186e-07	0.999999	6.06189e-07	1.000000
rad46	1.39482e-07	1.000000	1.39483e-07	1.000000
rad60syn	1.03783e-07	1.000000	1.03784e-07	1.000000
rad54	1.00666e-07	1.000000	1.00667e-07	1.000000
rad59	7.22570e-08	1.000000	7.22573e-08	1.000000
rad60anti	6.13421e-08	1.000000	6.13425e-08	1.000000
rad50	4.00788e-08	1.000000	4.00791e-08	1.000000

PAH1+H	3.94732e-08	1.00000	3.94734e-08	1.00000
rad43	2.87031e-08	1.00000	2.87033e-08	1.00000
rad70	1.65408e-08	1.00000	1.65408e-08	1.00000
rad55	5.38699e-09	1.00000	5.38702e-09	1.00000
rad51	4.77134e-09	1.00000	4.77137e-09	1.00000
rad62	3.44637e-09	1.00000	3.44638e-09	1.00000
rad34	2.67892e-09	1.00000	2.67894e-09	1.00000
rad52	2.25237e-09	1.00000	2.25238e-09	1.00000
rad58	2.20457e-09	1.00000	2.20458e-09	1.00000
rad61	1.06256e-09	1.00000	1.06257e-09	1.00000
rad41	6.91191e-10	1.00000	6.91194e-10	1.00000
rad53	4.12665e-10	1.00000	4.12668e-10	1.00000
rad56	2.12371e-10	1.00000	2.12372e-10	1.00000
rad64	1.54860e-10	1.00000	1.54860e-10	1.00000
rad65	1.50319e-10	1.00000	1.50320e-10	1.00000
rad42	1.03376e-10	1.00000	1.03377e-10	1.00000
PAH8+H	5.91171e-11	1.00000	5.91174e-11	1.00000
rad68syn	4.07131e-11	1.00000	4.07134e-11	1.00000
rad68anti	2.70946e-11	1.00000	2.70946e-11	1.00000
rad40syn	1.56733e-11	1.00000	1.56733e-11	1.00000
rad40anti	1.17159e-11	1.00000	1.17159e-11	1.00000
rad73	1.01666e-11	1.00000	1.01667e-11	1.00000
rad71	6.75145e-12	1.00000	6.75148e-12	1.00000
rad72	3.83062e-14	1.00000	3.83064e-14	1.00000
rad9	2.37158e-15	1.00000	2.37159e-15	1.00000
rad12	4.04546e-18	1.00000	4.04549e-18	1.00000
rad19anti	4.57501e-19	1.00000	4.57503e-19	1.00000
rad23	3.94099e-19	1.00000	3.94100e-19	1.00000
rad15	3.74395e-19	1.00000	3.74397e-19	1.00000
rad2	2.50412e-19	1.00000	2.50414e-19	1.00000
rad45	1.92708e-19	1.00000	1.92710e-19	1.00000
rad1	7.41243e-20	1.00000	7.41247e-20	1.00000
rad36	2.11681e-20	1.00000	2.11682e-20	1.00000
rad19syn	1.51735e-20	1.00000	1.51736e-20	1.00000
rad10	4.02323e-21	1.00000	4.02325e-21	1.00000
rad3	2.11739e-21	1.00000	2.11740e-21	1.00000
rad4	1.97728e-21	1.00000	1.97728e-21	1.00000
rad6	1.54490e-21	1.00000	1.54491e-21	1.00000
rad21	1.24312e-22	1.00000	1.24313e-22	1.00000
rad24	8.13232e-23	1.00000	8.13237e-23	1.00000
rad20	2.39352e-23	1.00000	2.39354e-23	1.00000
rad31	1.88477e-23	1.00000	1.88478e-23	1.00000
rad33	1.64389e-23	1.00000	1.64390e-23	1.00000
rad8	5.47269e-24	1.00000	5.47271e-24	1.00000
rad13	3.44119e-24	1.00000	3.44121e-24	1.00000
rad25	2.46143e-25	1.00000	2.46143e-25	1.00000
rad27	2.21049e-25	1.00000	2.21050e-25	1.00000
rad7	1.66616e-25	1.00000	1.66617e-25	1.00000
rad11	1.20758e-25	1.00000	1.20758e-25	1.00000
rad47	4.17543e-26	1.00000	4.17545e-26	1.00000
rad14	1.65925e-26	1.00000	1.65926e-26	1.00000
rad26	3.79581e-27	1.00000	3.79584e-27	1.00000
rad28	2.23230e-27	1.00000	2.23231e-27	1.00000
rad22	2.54666e-28	1.00000	2.54668e-28	1.00000
rad18	1.59421e-28	1.00000	1.59422e-28	1.00000
rad5	1.52423e-33	1.00000	1.52424e-33	1.00000

0.100000000E-08 Pa, 1000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.07591e-12 (1.00)	2.07587e-12 (1.00)
Formation of rad19	1.74189e-12 (0.839)	1.74186e-12 (0.839)
H-abstraction to cyc2enyl	2.68753e-13 (0.129)	2.68753e-13 (0.129)
H-abstraction to cyc1enyl	6.52627e-14 (0.0314)	6.52614e-14 (0.0314)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.799582	0.799582	0.799596	0.799596
Benzene+cycloprop-2-enylidene	0.129463	0.929045	0.129465	0.929061
PhCHCCH2+H	0.0345727	0.963618	0.0345733	0.963635
Benzene+cycloprop-1-enylidene	0.0314382	0.995056	0.0314381	0.995073
C2H2+PhCH2	0.00107013	0.996126	0.00107014	0.996143
Ph+MeAc	0.00105356	0.997180	0.00105357	0.997197
Ph+Allene	0.000856132	0.998036	0.000856147	0.998053
PhCCCH3+H	0.000518388	0.998554	0.000518396	0.998571
PhCH2CCH+H	0.000387329	0.998942	0.000387336	0.998958
PhCCH+CH3	0.000373412	0.999315	0.000373419	0.999332
rad67	0.000352154	0.999667	0.000352160	0.999684
rad35	0.000127506	0.999795	0.000127508	0.999812

PhcycC3H3_A+H	6.68787e-05	0.999862	6.68799e-05	0.999878
PhcycC3H3_B+H	3.94287e-05	0.999901	3.94293e-05	0.999918
PAH7+H	3.02070e-05	0.999931	3.02075e-05	0.999948
rad37	2.12565e-05	0.999953	2.12568e-05	0.999969
Phenyl+cycC3H4	1.68078e-05	0.999969	0.00000	0.999969
PAH10+CH3	1.12446e-05	0.999981	1.12447e-05	0.999981
rad39	5.81024e-06	0.999986	5.81034e-06	0.999986
rad30	4.04406e-06	0.999990	4.04413e-06	0.999990
PAH9+H	3.29361e-06	0.999994	3.29367e-06	0.999994
rad38	3.08261e-06	0.999997	3.08266e-06	0.999997
PAH3+H	1.54070e-06	0.999998	1.54073e-06	0.999998
rad46	3.42239e-07	0.999999	3.42245e-07	0.999999
rad54	2.28520e-07	0.999999	2.28524e-07	0.999999
rad60syn	2.23169e-07	0.999999	2.23173e-07	0.999999
rad59	1.76070e-07	0.999999	1.76073e-07	0.999999
rad60anti	1.33518e-07	1.000000	1.33520e-07	0.999999
rad50	1.25826e-07	1.000000	1.25828e-07	1.000000
PAH1+H	1.15144e-07	1.000000	1.15145e-07	1.000000
rad43	6.59875e-08	1.000000	6.59887e-08	1.000000
rad70	4.32135e-08	1.000000	4.32143e-08	1.000000
rad51	1.82048e-08	1.000000	1.82051e-08	1.000000
rad55	1.31137e-08	1.000000	1.31139e-08	1.000000
rad52	7.79283e-09	1.000000	7.79297e-09	1.000000
rad34	7.69222e-09	1.000000	7.69236e-09	1.000000
rad58	7.06658e-09	1.000000	7.06670e-09	1.000000
rad62	7.03940e-09	1.000000	7.03953e-09	1.000000
rad61	4.12272e-09	1.000000	4.12278e-09	1.000000
rad41	2.02447e-09	1.000000	2.02451e-09	1.000000
rad53	1.31432e-09	1.000000	1.31434e-09	1.000000
rad56	7.88428e-10	1.000000	7.88442e-10	1.000000
rad65	5.65099e-10	1.000000	5.65110e-10	1.000000
rad64	4.71855e-10	1.000000	4.71863e-10	1.000000
PAH8+H	3.09749e-10	1.000000	3.09755e-10	1.000000
rad42	2.59222e-10	1.000000	2.59226e-10	1.000000
rad68syn	1.64237e-10	1.000000	1.64240e-10	1.000000
rad68anti	1.08793e-10	1.000000	1.08795e-10	1.000000
rad40syn	7.30616e-11	1.000000	7.30628e-11	1.000000
rad73	6.65983e-11	1.000000	6.65995e-11	1.000000
rad40anti	5.52183e-11	1.000000	5.52193e-11	1.000000
rad71	5.18856e-11	1.000000	5.18865e-11	1.000000
rad72	4.47183e-13	1.000000	4.47191e-13	1.000000
rad9	4.34229e-15	1.000000	4.34238e-15	1.000000
rad12	7.27750e-18	1.000000	7.27764e-18	1.000000
rad15	5.70187e-19	1.000000	5.70197e-19	1.000000
rad23	3.86706e-19	1.000000	3.86713e-19	1.000000
rad19anti	3.42048e-19	1.000000	3.42054e-19	1.000000
rad45	2.18554e-19	1.000000	2.18558e-19	1.000000
rad2	2.05744e-19	1.000000	2.05748e-19	1.000000
rad1	6.09103e-20	1.000000	6.09114e-20	1.000000
rad36	2.28694e-20	1.000000	2.28698e-20	1.000000
rad19syn	1.42443e-20	1.000000	1.42446e-20	1.000000
rad10	3.02778e-21	1.000000	3.02783e-21	1.000000
rad21	2.11576e-21	1.000000	2.11580e-21	1.000000
rad3	1.74335e-21	1.000000	1.74338e-21	1.000000
rad6	1.65134e-21	1.000000	1.65136e-21	1.000000
rad4	1.54585e-21	1.000000	1.54588e-21	1.000000
rad8	6.27706e-22	1.000000	6.27717e-22	1.000000
rad20	4.93245e-22	1.000000	4.93254e-22	1.000000
rad24	3.61522e-22	1.000000	3.61528e-22	1.000000
rad33	2.31462e-22	1.000000	2.31466e-22	1.000000
rad13	2.20289e-22	1.000000	2.20293e-22	1.000000
rad31	2.18570e-23	1.000000	2.18575e-23	1.000000
rad11	1.06319e-23	1.000000	1.06321e-23	1.000000
rad25	7.69190e-24	1.000000	7.69203e-24	1.000000
rad27	5.63063e-24	1.000000	5.63073e-24	1.000000
rad7	4.09407e-25	1.000000	4.09415e-25	1.000000
rad14	4.01739e-25	1.000000	4.01746e-25	1.000000
rad47	1.62908e-25	1.000000	1.62911e-25	1.000000
rad18	4.29912e-26	1.000000	4.29920e-26	1.000000
rad26	4.14487e-27	1.000000	4.14494e-27	1.000000
rad28	1.62185e-27	1.000000	1.62188e-27	1.000000
rad22	2.95051e-28	1.000000	2.95056e-28	1.000000
rad5	2.64985e-32	1.000000	2.64989e-32	1.000000

0.100000000E-08 Pa, 1100.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.81236e-12 (1.00)	2.81222e-12 (1.00)
Formation of rad19	2.25993e-12 (0.804)	2.25980e-12 (0.804)

H-abstraction to cyc2enyl | 4.30538e-13 (0.153) 4.30538e-13 (0.153)
H-abstraction to cyc1enyl | 1.21896e-13 (0.0433) 1.21889e-13 (0.0433)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.745455	0.745455	0.745493	0.745493
Benzene+cycloprop-2-enylidene	0.153088	0.898543	0.153095	0.898588
PhCHCCH2+H	0.0504085	0.948951	0.0504110	0.948999
Benzene+cycloprop-1-enylidene	0.0433429	0.992294	0.0433425	0.992342
Ph+MeAc	0.00159989	0.993894	0.00159997	0.993942
C2H2+PhCH2	0.00157393	0.995468	0.00157401	0.995516
Ph+Allene	0.00139377	0.996862	0.00139384	0.996909
PhCCCH3+H	0.000746146	0.997608	0.000746184	0.997656
PhCH2CCH+H	0.000685299	0.998293	0.000685333	0.998341
rad67	0.000551509	0.998845	0.000551537	0.998892
PhCCH+CH3	0.000499927	0.999345	0.000499952	0.999392
rad35	0.000198904	0.999544	0.000198914	0.999591
PhcycC3H3_A+H	0.000160985	0.999705	0.000160994	0.999752
PhcycC3H3_B+H	0.000108569	0.999813	0.000108575	0.999861
Phenyl+cycC3H4	4.74535e-05	0.999861	0.00000	0.999861
PAH7+H	4.44306e-05	0.999905	4.44328e-05	0.999905
rad37	3.57976e-05	0.999941	3.57993e-05	0.999941
PAH10+CH3	2.47740e-05	0.999966	2.47753e-05	0.999966
rad39	8.15502e-06	0.999974	8.15543e-06	0.999974
rad30	6.70503e-06	0.999981	6.70536e-06	0.999981
PAH9+H	6.62670e-06	0.999987	6.62703e-06	0.999987
rad38	6.20641e-06	0.999993	6.20672e-06	0.999994
PAH3+H	3.44988e-06	0.999997	3.45006e-06	0.999997
rad46	7.53032e-07	0.999998	7.53070e-07	0.999998
rad54	4.48842e-07	0.999998	4.48864e-07	0.999998
rad60syn	4.32688e-07	0.999998	4.32709e-07	0.999999
rad59	3.79560e-07	0.999999	3.79579e-07	0.999999
rad50	3.42341e-07	0.999999	3.42358e-07	0.999999
PAH1+H	2.85109e-07	0.999999	2.85123e-07	1.000000
rad60anti	2.61576e-07	1.000000	2.61589e-07	1.000000
rad43	1.34197e-07	1.000000	1.34204e-07	1.000000
rad70	9.71315e-08	1.000000	9.71362e-08	1.000000
rad51	5.83466e-08	1.000000	5.83495e-08	1.000000
rad55	2.73128e-08	1.000000	2.73142e-08	1.000000
rad52	2.29834e-08	1.000000	2.29845e-08	1.000000
rad58	1.92024e-08	1.000000	1.92034e-08	1.000000
rad34	1.87451e-08	1.000000	1.87461e-08	1.000000
rad61	1.28390e-08	1.000000	1.28397e-08	1.000000
rad62	1.28154e-08	1.000000	1.28161e-08	1.000000
rad41	5.04814e-09	1.000000	5.04840e-09	1.000000
rad53	3.43664e-09	1.000000	3.43682e-09	1.000000
rad56	2.33966e-09	1.000000	2.33978e-09	1.000000
rad65	1.78385e-09	1.000000	1.78394e-09	1.000000
PAH8+H	1.24981e-09	1.000000	1.24987e-09	1.000000
rad64	1.19311e-09	1.000000	1.19317e-09	1.000000
rad42	5.61778e-10	1.000000	5.61806e-10	1.000000
rad68syn	5.31777e-10	1.000000	5.31804e-10	1.000000
rad68anti	3.50889e-10	1.000000	3.50907e-10	1.000000
rad73	3.32910e-10	1.000000	3.32927e-10	1.000000
rad71	2.96145e-10	1.000000	2.96160e-10	1.000000
rad40syn	2.67659e-10	1.000000	2.67672e-10	1.000000
rad40anti	2.04456e-10	1.000000	2.04466e-10	1.000000
rad72	3.56687e-12	1.000000	3.56704e-12	1.000000
rad9	4.00166e-15	1.000000	4.00187e-15	1.000000
rad12	7.93739e-18	1.000000	7.93778e-18	1.000000
rad15	4.79115e-19	1.000000	4.79140e-19	1.000000
rad23	3.67593e-19	1.000000	3.67611e-19	1.000000
rad19anti	2.56276e-19	1.000000	2.56289e-19	1.000000
rad45	2.22465e-19	1.000000	2.22477e-19	1.000000
rad2	1.59463e-19	1.000000	1.59470e-19	1.000000
rad1	4.70953e-20	1.000000	4.70977e-20	1.000000
rad36	2.29948e-20	1.000000	2.29959e-20	1.000000
rad19syn	1.28391e-20	1.000000	1.28398e-20	1.000000
rad21	9.63737e-21	1.000000	9.63784e-21	1.000000
rad8	7.65078e-21	1.000000	7.65117e-21	1.000000
rad13	3.15539e-21	1.000000	3.15555e-21	1.000000
rad6	2.94658e-21	1.000000	2.94673e-21	1.000000
rad20	2.48655e-21	1.000000	2.48667e-21	1.000000
rad10	2.24488e-21	1.000000	2.24498e-21	1.000000
rad3	1.30204e-21	1.000000	1.30210e-21	1.000000
rad4	1.12961e-21	1.000000	1.12967e-21	1.000000
rad33	8.69060e-22	1.000000	8.69109e-22	1.000000
rad24	7.72326e-22	1.000000	7.72364e-22	1.000000
rad11	5.52893e-22	1.000000	5.52920e-22	1.000000
rad25	7.88055e-23	1.000000	7.88094e-23	1.000000

rad27	4.73302e-23	1.00000	4.73325e-23	1.00000
rad31	2.41068e-23	1.00000	2.41079e-23	1.00000
rad7	1.89492e-23	1.00000	1.89502e-23	1.00000
rad18	4.94611e-24	1.00000	4.94635e-24	1.00000
rad14	3.73375e-24	1.00000	3.73394e-24	1.00000
rad47	5.24230e-25	1.00000	5.24256e-25	1.00000
rad26	2.58743e-26	1.00000	2.58756e-26	1.00000
rad28	1.66254e-27	1.00000	1.66263e-27	1.00000
rad22	3.32103e-28	1.00000	3.32120e-28	1.00000
rad5	8.54034e-31	1.00000	8.54074e-31	1.00000

0.100000000E-08 Pa, 1200.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.72623e-12 (1.00)	3.72576e-12 (1.00)
Formation of rad19	2.86288e-12 (0.768)	2.86245e-12 (0.768)
H-abstraction to cyc2enyl	6.53266e-13 (0.175)	6.53266e-13 (0.175)
H-abstraction to cyclenyl	2.10085e-13 (0.0564)	2.10053e-13 (0.0564)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.687506	0.687506	0.687593	0.687593
Benzene+cycloprop-2-enylidene	0.175315	0.862821	0.175337	0.862930
PhCHCCH2+H	0.0694470	0.932268	0.0694557	0.932386
Benzene+cycloprop-1-enylidene	0.0563801	0.988648	0.0563786	0.988764
Ph+MeAc	0.00227272	0.990921	0.00227301	0.991037
C2H2+PhCH2	0.00219121	0.993112	0.00219148	0.993229
Ph+Allene	0.00207994	0.995192	0.00208020	0.995309
PhCH2CCH+H	0.00110691	0.996299	0.00110706	0.996416
PhCCCH3+H	0.00101200	0.997311	0.00101213	0.997428
rad67	0.000806305	0.998117	0.000806406	0.998235
PhCCH+CH3	0.000645716	0.998763	0.000645798	0.998880
PhcycC3H3_A+H	0.000345598	0.999109	0.000345641	0.999226
rad35	0.000290169	0.999399	0.000290206	0.999516
PhcycC3H3_B+H	0.000261273	0.999660	0.000261306	0.999778
Phenyl+cycC3H4	0.000117514	0.999778	0.000000	0.999778
PAH7+H	6.09151e-05	0.999838	6.09229e-05	0.999839
rad37	5.50993e-05	0.999894	5.51063e-05	0.999894
PAH10+CH3	4.81021e-05	0.999942	4.81082e-05	0.999942
PAH9+H	1.22285e-05	0.999954	1.22300e-05	0.999954
rad38	1.12958e-05	0.999965	1.12972e-05	0.999965
rad39	1.06983e-05	0.999976	1.06996e-05	0.999976
rad30	1.03391e-05	0.999986	1.03403e-05	0.999986
PAH3+H	6.91379e-06	0.999993	6.91466e-06	0.999993
rad46	1.50176e-06	0.999995	1.50195e-06	0.999995
rad50	8.20642e-07	0.999995	8.20743e-07	0.999996
rad54	7.81497e-07	0.999996	7.81598e-07	0.999996
rad60syn	7.65102e-07	0.999997	7.65199e-07	0.999997
rad59	7.35018e-07	0.999998	7.35111e-07	0.999998
PAH1+H	6.15259e-07	0.999998	6.15337e-07	0.999998
rad60anti	4.66711e-07	0.999999	4.66769e-07	0.999999
rad43	2.45550e-07	0.999999	2.45581e-07	0.999999
rad70	1.92605e-07	0.999999	1.92629e-07	0.999999
rad51	1.60721e-07	0.999999	1.60741e-07	1.000000
rad52	5.89508e-08	1.000000	5.89583e-08	1.000000
rad55	4.99974e-08	1.000000	5.00038e-08	1.000000
rad58	4.53331e-08	1.000000	4.53389e-08	1.000000
rad34	3.98655e-08	1.000000	3.98705e-08	1.000000
rad61	3.33579e-08	1.000000	3.33621e-08	1.000000
rad62	2.11968e-08	1.000000	2.11994e-08	1.000000
rad41	1.09917e-08	1.000000	1.09931e-08	1.000000
rad53	7.65059e-09	1.000000	7.65156e-09	1.000000
rad56	5.79402e-09	1.000000	5.79474e-09	1.000000
rad65	4.84114e-09	1.000000	4.84175e-09	1.000000
PAH8+H	4.08163e-09	1.000000	4.08215e-09	1.000000
rad64	2.59994e-09	1.000000	2.60027e-09	1.000000
rad68syn	1.43965e-09	1.000000	1.43983e-09	1.000000
rad73	1.32831e-09	1.000000	1.32847e-09	1.000000
rad71	1.32075e-09	1.000000	1.32091e-09	1.000000
rad42	1.07985e-09	1.000000	1.07999e-09	1.000000
rad68anti	9.46805e-10	1.000000	9.46926e-10	1.000000
rad40syn	8.05959e-10	1.000000	8.06061e-10	1.000000
rad40anti	6.21769e-10	1.000000	6.21848e-10	1.000000
rad72	2.08613e-11	1.000000	2.08640e-11	1.000000
rad9	2.91849e-15	1.000000	2.91886e-15	1.000000
rad12	7.13600e-18	1.000000	7.13690e-18	1.000000
rad15	3.77475e-19	1.000000	3.77523e-19	1.000000
rad23	3.35814e-19	1.000000	3.35857e-19	1.000000
rad45	2.15836e-19	1.000000	2.15863e-19	1.000000

rad19anti	1.93811e-19	1.000000	1.93836e-19	1.000000
rad2	1.20661e-19	1.000000	1.20676e-19	1.000000
rad1	3.55717e-20	1.000000	3.55762e-20	1.000000
rad8	2.53541e-20	1.000000	2.53574e-20	1.000000
rad36	2.22958e-20	1.000000	2.22986e-20	1.000000
rad21	2.06285e-20	1.000000	2.06311e-20	1.000000
rad13	1.26206e-20	1.000000	1.26222e-20	1.000000
rad19syn	1.13955e-20	1.000000	1.13970e-20	1.000000
rad11	9.72512e-21	1.000000	9.72640e-21	1.000000
rad6	6.85700e-21	1.000000	6.85787e-21	1.000000
rad20	5.30461e-21	1.000000	5.30528e-21	1.000000
rad10	2.05232e-21	1.000000	2.05258e-21	1.000000
rad33	1.49700e-21	1.000000	1.49719e-21	1.000000
rad24	1.18501e-21	1.000000	1.18516e-21	1.000000
rad3	9.35196e-22	1.000000	9.35309e-22	1.000000
rad4	8.02318e-22	1.000000	8.02419e-22	1.000000
rad7	6.82547e-22	1.000000	6.82633e-22	1.000000
rad25	2.92600e-22	1.000000	2.92637e-22	1.000000
rad18	1.64154e-22	1.000000	1.64175e-22	1.000000
rad27	1.52386e-22	1.000000	1.52405e-22	1.000000
rad31	2.55729e-23	1.000000	2.55762e-23	1.000000
rad14	1.32731e-23	1.000000	1.32747e-23	1.000000
rad47	1.43379e-24	1.000000	1.43397e-24	1.000000
rad26	5.20500e-25	1.000000	5.20566e-25	1.000000
rad28	9.28842e-27	1.000000	9.28963e-27	1.000000
rad22	4.38025e-28	1.000000	4.38080e-28	1.000000
rad5	4.22231e-29	1.000000	4.22284e-29	1.000000

0.100000000E-08 Pa, 1300.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.84401e-12 (1.00)	4.84262e-12 (1.00)
Formation of rad19	3.55537e-12 (0.734)	3.55411e-12 (0.734)
H-abstraction to cyc2enyl	9.48893e-13 (0.196)	9.48893e-13 (0.196)
H-abstraction to cyclenyl	3.39740e-13 (0.0701)	3.39620e-13 (0.0701)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.627161	0.627161	0.627340	0.627340
Benzene+cycloprop-2-enylidene	0.195890	0.823052	0.195946	0.823286
PhCHCCH2+H	0.0908777	0.913929	0.0909037	0.914190
Benzene+cycloprop-1-enylidene	0.0701362	0.984065	0.0701313	0.984321
Ph+MeAc	0.00304441	0.987110	0.00304527	0.987366
C2H2+PhCH2	0.00290372	0.990014	0.00290454	0.990271
Ph+Allene	0.00288470	0.992898	0.00288553	0.993157
PhCH2CCH+H	0.00165448	0.994553	0.00165495	0.994812
PhCCCH3+H	0.00130153	0.995854	0.00130190	0.996113
rad67	0.00110883	0.996963	0.00110915	0.997223
PhCCH+CH3	0.000809514	0.997773	0.000809751	0.998032
PhcycC3H3_A+H	0.000673391	0.998446	0.000673584	0.998706
PhcycC3H3_B+H	0.000561394	0.999007	0.000561554	0.999267
rad35	0.000398725	0.999406	0.000398838	0.999666
Phenyl+cycC3H4	0.000260506	0.999667	0.000000	0.999666
PAH10+CH3	8.38007e-05	0.999750	8.38250e-05	0.999750
PAH7+H	7.89117e-05	0.999829	7.89341e-05	0.999829
rad37	7.83568e-05	0.999908	7.83785e-05	0.999907
PAH9+H	2.08511e-05	0.999929	2.08571e-05	0.999928
rad38	1.88167e-05	0.999947	1.88221e-05	0.999947
rad30	1.49360e-05	0.999962	1.49402e-05	0.999962
rad39	1.33374e-05	0.999976	1.33412e-05	0.999975
PAH3+H	1.25732e-05	0.999988	1.25768e-05	0.999988
rad46	2.73965e-06	0.999991	2.74043e-06	0.999991
rad50	1.75696e-06	0.999993	1.75746e-06	0.999992
rad59	1.29584e-06	0.999994	1.29620e-06	0.999994
rad60syn	1.24692e-06	0.999995	1.24728e-06	0.999995
rad54	1.23055e-06	0.999996	1.23091e-06	0.999996
PAH1+H	1.18164e-06	0.999998	1.18197e-06	0.999997
rad60anti	7.66599e-07	0.999998	7.66824e-07	0.999998
rad43	4.10006e-07	0.999999	4.10123e-07	0.999999
rad51	3.87406e-07	0.999999	3.87517e-07	0.999999
rad70	3.43677e-07	1.000000	3.43775e-07	0.999999
rad52	1.33628e-07	1.000000	1.33666e-07	0.999999
rad58	9.48433e-08	1.000000	9.48705e-08	1.000000
rad55	8.22139e-08	1.000000	8.22375e-08	1.000000
rad34	7.56235e-08	1.000000	7.56447e-08	1.000000
rad61	7.45086e-08	1.000000	7.45298e-08	1.000000
rad62	3.23565e-08	1.000000	3.23657e-08	1.000000
rad41	2.13212e-08	1.000000	2.13273e-08	1.000000
rad53	1.49188e-08	1.000000	1.49231e-08	1.000000

rad56	1.23746e-08	1.00000	1.23782e-08	1.000000
rad65	1.15036e-08	1.00000	1.15069e-08	1.000000
PAH8+H	1.11832e-08	1.00000	1.11864e-08	1.000000
rad64	5.02551e-09	1.00000	5.02694e-09	1.000000
rad71	4.76253e-09	1.00000	4.76388e-09	1.000000
rad73	4.36513e-09	1.00000	4.36638e-09	1.000000
rad68syn	3.35945e-09	1.00000	3.36041e-09	1.000000
rad68anti	2.20311e-09	1.00000	2.20373e-09	1.000000
rad40syn	2.06131e-09	1.00000	2.06190e-09	1.000000
rad42	1.87919e-09	1.00000	1.87972e-09	1.000000
rad40anti	1.60444e-09	1.00000	1.60490e-09	1.000000
rad72	9.34613e-11	1.00000	9.34878e-11	1.000000
rad9	1.93793e-15	1.00000	1.93848e-15	1.000000
rad12	5.89852e-18	1.00000	5.90020e-18	1.000000
rad15	9.39068e-19	1.00000	9.39333e-19	1.000000
rad23	3.04322e-19	1.00000	3.04409e-19	1.000000
rad45	2.02820e-19	1.00000	2.02878e-19	1.000000
rad19anti	1.48394e-19	1.00000	1.48436e-19	1.000000
rad2	8.93752e-20	1.00000	8.94006e-20	1.000000
rad11	5.69959e-20	1.00000	5.70122e-20	1.000000
rad8	4.42248e-20	1.00000	4.42375e-20	1.000000
rad21	3.03536e-20	1.00000	3.03622e-20	1.000000
rad1	2.65831e-20	1.00000	2.65907e-20	1.000000
rad13	2.24558e-20	1.00000	2.24623e-20	1.000000
rad36	2.10868e-20	1.00000	2.10929e-20	1.000000
rad6	1.44633e-20	1.00000	1.44674e-20	1.000000
rad19syn	1.00706e-20	1.00000	1.00735e-20	1.000000
rad7	8.18623e-21	1.00000	8.18859e-21	1.000000
rad20	7.38165e-21	1.00000	7.38377e-21	1.000000
rad10	6.34883e-21	1.00000	6.35065e-21	1.000000
rad33	1.76734e-21	1.00000	1.76784e-21	1.000000
rad18	1.53527e-21	1.00000	1.53571e-21	1.000000
rad24	1.53474e-21	1.00000	1.53518e-21	1.000000
rad3	6.61624e-22	1.00000	6.61812e-22	1.000000
rad25	5.66799e-22	1.00000	5.66960e-22	1.000000
rad4	5.63163e-22	1.00000	5.63324e-22	1.000000
rad27	2.70870e-22	1.00000	2.70948e-22	1.000000
rad31	2.62744e-23	1.00000	2.62819e-23	1.000000
rad14	2.40834e-23	1.00000	2.40903e-23	1.000000
rad26	1.20964e-23	1.00000	1.20998e-23	1.000000
rad47	3.40948e-24	1.00000	3.41046e-24	1.000000
rad28	1.65863e-25	1.00000	1.65911e-25	1.000000
rad22	1.07579e-26	1.00000	1.07610e-26	1.000000
rad5	2.36370e-27	1.00000	2.36438e-27	1.000000

0.100000000E-08 Pa, 1400.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.19360e-12 (1.00)	6.18997e-12 (1.00)
Formation of rad19	4.34185e-12 (0.701)	4.33861e-12 (0.701)
H-abstraction to cyc2enyl	1.32990e-12 (0.215)	1.32990e-12 (0.215)
H-abstraction to cyclenyl	5.21850e-13 (0.0843)	5.21461e-13 (0.0842)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.566028	0.566028	0.566360	0.566360
Benzene+cycloprop-2-enylidene	0.214721	0.780749	0.214847	0.781207
PhCHCCH2+H	0.113526	0.894275	0.113593	0.894800
Benzene+cycloprop-1-enylidene	0.0842564	0.978532	0.0842429	0.979043
Ph+MeAc	0.00387284	0.982405	0.00387511	0.982918
Ph+Allene	0.00376036	0.986165	0.00376256	0.986680
C2H2+PhCH2	0.00367929	0.989844	0.00368145	0.990362
PhCH2CCH+H	0.00231297	0.992157	0.00231433	0.992676
PhCCCH3+H	0.00159640	0.993754	0.00159734	0.994274
rad67	0.00144409	0.995198	0.00144494	0.995719
PhcycC3H3_A+H	0.00120489	0.996403	0.00120559	0.996924
PhcycC3H3_B+H	0.00109183	0.997495	0.00109247	0.998017
PhCCH+CH3	0.000988680	0.998483	0.000989264	0.999006
Phenyl+cycC3H4	0.000523345	0.999007	0.000523345	0.999006
rad35	0.000519418	0.999526	0.000519722	0.999526
PAH10+CH3	0.000132940	0.999659	0.000133019	0.999659
rad37	0.000103969	0.999763	0.000104030	0.999763
PAH7+H	9.76629e-05	0.999861	9.77202e-05	0.999860
PAH9+H	3.30451e-05	0.999894	3.30646e-05	0.999893
rad38	2.89869e-05	0.999923	2.90039e-05	0.999922
PAH3+H	2.09773e-05	0.999944	2.09896e-05	0.999943
rad30	2.03484e-05	0.999964	2.03603e-05	0.999964
rad39	1.60326e-05	0.999980	1.60420e-05	0.999980
rad46	4.60489e-06	0.999985	4.60759e-06	0.999984

rad50	3.39256e-06	0.999988	3.39455e-06	0.999988
rad59	2.10237e-06	0.999990	2.10360e-06	0.999990
PAH1+H	2.05214e-06	0.999992	2.05334e-06	0.999992
rad60syn	1.88965e-06	0.999994	1.89076e-06	0.999994
rad54	1.78086e-06	0.999996	1.78190e-06	0.999996
rad60anti	1.16973e-06	0.999997	1.17042e-06	0.999997
rad51	8.27129e-07	0.999998	8.27613e-07	0.999998
rad43	6.31782e-07	0.999998	6.32153e-07	0.999998
rad70	5.60217e-07	0.999999	5.60546e-07	0.999999
rad52	2.70713e-07	0.999999	2.70872e-07	0.999999
rad58	1.78428e-07	0.999999	1.78532e-07	0.999999
rad61	1.46277e-07	1.000000	1.46363e-07	0.999999
rad34	1.30056e-07	1.000000	1.30132e-07	1.000000
rad55	1.23571e-07	1.000000	1.23644e-07	1.000000
rad62	4.61529e-08	1.000000	4.61799e-08	1.000000
rad41	3.74002e-08	1.000000	3.74221e-08	1.000000
PAH8+H	2.63148e-08	1.000000	2.63303e-08	1.000000
rad53	2.60384e-08	1.000000	2.60537e-08	1.000000
rad65	2.42340e-08	1.000000	2.42482e-08	1.000000
rad56	2.33522e-08	1.000000	2.33659e-08	1.000000
rad71	1.41523e-08	1.000000	1.41606e-08	1.000000
rad73	1.20322e-08	1.000000	1.20393e-08	1.000000
rad64	8.79755e-09	1.000000	8.80273e-09	1.000000
rad68syn	6.90097e-09	1.000000	6.90502e-09	1.000000
rad40syn	4.57744e-09	1.000000	4.58013e-09	1.000000
rad68anti	4.51464e-09	1.000000	4.51729e-09	1.000000
rad40anti	3.59045e-09	1.000000	3.59256e-09	1.000000
rad42	3.00666e-09	1.000000	3.00843e-09	1.000000
rad72	3.28506e-10	1.000000	3.28699e-10	1.000000
rad9	1.23903e-15	1.000000	1.23976e-15	1.000000
rad12	4.68956e-18	1.000000	4.69231e-18	1.000000
rad15	3.61795e-18	1.000000	3.62007e-18	1.000000
rad45	1.65169e-19	1.000000	1.65265e-19	1.000000
rad11	1.44856e-19	1.000000	1.44940e-19	1.000000
rad19anti	1.15118e-19	1.000000	1.15186e-19	1.000000
rad2	5.73824e-20	1.000000	5.74160e-20	1.000000
rad8	5.66687e-20	1.000000	5.67019e-20	1.000000
rad21	3.67060e-20	1.000000	3.67275e-20	1.000000
rad7	3.48129e-20	1.000000	3.48333e-20	1.000000
rad13	2.61024e-20	1.000000	2.61177e-20	1.000000
rad6	2.57232e-20	1.000000	2.57383e-20	1.000000
rad10	2.53178e-20	1.000000	2.53327e-20	1.000000
rad1	1.90776e-20	1.000000	1.90888e-20	1.000000
rad36	1.86900e-20	1.000000	1.87009e-20	1.000000
rad19syn	8.90593e-21	1.000000	8.91116e-21	1.000000
rad20	8.28826e-21	1.000000	8.29310e-21	1.000000
rad18	5.37818e-21	1.000000	5.38134e-21	1.000000
rad24	1.80313e-21	1.000000	1.80420e-21	1.000000
rad33	1.72625e-21	1.000000	1.72727e-21	1.000000
rad25	7.72646e-22	1.000000	7.73097e-22	1.000000
rad3	4.69486e-22	1.000000	4.69762e-22	1.000000
rad4	3.95907e-22	1.000000	3.96139e-22	1.000000
rad27	3.50744e-22	1.000000	3.50950e-22	1.000000
rad26	2.23027e-22	1.000000	2.23159e-22	1.000000
rad14	3.02573e-23	1.000000	3.02750e-23	1.000000
rad31	2.62635e-23	1.000000	2.62789e-23	1.000000
rad47	7.15113e-24	1.000000	7.15531e-24	1.000000
rad28	2.99810e-24	1.000000	2.99986e-24	1.000000
rad22	8.42447e-25	1.000000	8.42942e-25	1.000000
rad5	1.05660e-25	1.000000	1.05722e-25	1.000000
rad23	3.03373e-26	1.000000	3.03551e-26	1.000000

0.100000000E-08 Pa, 1500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.80417e-12 (1.00)	7.79561e-12 (1.00)
Formation of rad19	5.22661e-12 (0.670)	5.21915e-12 (0.669)
H-abstraction to cyc2enyl	1.80920e-12 (0.232)	1.80920e-12 (0.232)
H-abstraction to cyclenyl	7.68359e-13 (0.0985)	7.67262e-13 (0.0984)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.505870	0.505870	0.506425	0.506425
Benzene+cycloprop-2-enylidene	0.231825	0.737695	0.232079	0.738505
PhCHCCH2+H	0.135967	0.873662	0.136116	0.874621
Benzene+cycloprop-1-enylidene	0.0984549	0.972117	0.0984223	0.973043
Ph+MeAc	0.00470570	0.976823	0.00471086	0.977754
Ph+Allene	0.00464760	0.981470	0.00465271	0.982407
C2H2+PhCH2	0.00447301	0.985943	0.00447791	0.986885

PhCH2CCH+H	0.00304819	0.988991	0.00305154	0.989936
PhcycC3H3_A+H	0.00198976	0.990981	0.00199195	0.991928
PhcycC3H3_B+H	0.00193280	0.992914	0.00193492	0.993863
PhCCCH3+H	0.00187667	0.994791	0.00187873	0.995742
rad67	0.00179097	0.996582	0.00179294	0.997535
PhCCH+CH3	0.00117783	0.997759	0.00117912	0.998714
Phenyl+cycC3H4	0.000956146	0.998716	0.000000	0.998714
rad35	0.000644848	0.999360	0.000645555	0.999360
PAH10+CH3	0.000194190	0.999555	0.000194404	0.999554
rad37	0.000129806	0.999684	0.000129949	0.999684
PAH7+H	0.000116417	0.999801	0.000116546	0.999800
PAH9+H	4.88535e-05	0.999850	4.89071e-05	0.999849
rad38	4.16011e-05	0.999891	4.16467e-05	0.999891
PAH3+H	3.23374e-05	0.999924	3.23729e-05	0.999923
rad30	2.62808e-05	0.999950	2.63097e-05	0.999950
rad39	1.87895e-05	0.999969	1.88102e-05	0.999968
rad46	7.16199e-06	0.999976	7.16986e-06	0.999976
rad50	5.93797e-06	0.999982	5.94449e-06	0.999982
PAH1+H	3.25722e-06	0.999985	3.26081e-06	0.999985
rad59	3.16156e-06	0.999988	3.16503e-06	0.999988
rad60syn	2.67968e-06	0.999991	2.68262e-06	0.999991
rad54	2.39838e-06	0.999993	2.40102e-06	0.999993
rad60anti	1.66867e-06	0.999995	1.67050e-06	0.999995
rad51	1.57342e-06	0.999996	1.57515e-06	0.999996
rad43	9.05576e-07	0.999997	9.06568e-07	0.999997
rad70	8.42763e-07	0.999998	8.43688e-07	0.999998
rad52	4.92950e-07	0.999999	4.93491e-07	0.999999
rad58	3.04448e-07	0.999999	3.04782e-07	0.999999
rad61	2.56145e-07	0.999999	2.56426e-07	0.999999
rad34	2.04934e-07	1.000000	2.05159e-07	0.999999
rad55	1.72012e-07	1.000000	1.72201e-07	1.000000
rad62	6.20586e-08	1.000000	6.21267e-08	1.000000
rad41	5.99063e-08	1.000000	5.99721e-08	1.000000
PAH8+H	5.38671e-08	1.000000	5.39262e-08	1.000000
rad65	4.55485e-08	1.000000	4.55985e-08	1.000000
rad53	4.12866e-08	1.000000	4.13319e-08	1.000000
rad56	3.95671e-08	1.000000	3.96105e-08	1.000000
rad71	3.49994e-08	1.000000	3.50378e-08	1.000000
rad73	2.80690e-08	1.000000	2.80998e-08	1.000000
rad64	1.41255e-08	1.000000	1.41409e-08	1.000000
rad68syn	1.26336e-08	1.000000	1.26475e-08	1.000000
rad40syn	8.93581e-09	1.000000	8.94564e-09	1.000000
rad68anti	8.24821e-09	1.000000	8.25726e-09	1.000000
rad40anti	7.05383e-09	1.000000	7.06153e-09	1.000000
rad42	4.46777e-09	1.000000	4.47268e-09	1.000000
rad72	9.20557e-10	1.000000	9.21571e-10	1.000000
rad9	7.84189e-16	1.000000	7.85054e-16	1.000000
rad15	7.46885e-18	1.000000	7.47702e-18	1.000000
rad12	3.66370e-18	1.000000	3.66772e-18	1.000000
rad11	2.20544e-19	1.000000	2.20786e-19	1.000000
rad45	1.50181e-19	1.000000	1.50346e-19	1.000000
rad19anti	9.04718e-20	1.000000	9.05717e-20	1.000000
rad7	7.03595e-20	1.000000	7.04366e-20	1.000000
rad8	6.24614e-20	1.000000	6.25299e-20	1.000000
rad10	5.30414e-20	1.000000	5.30997e-20	1.000000
rad6	4.43868e-20	1.000000	4.44355e-20	1.000000
rad2	4.13194e-20	1.000000	4.13648e-20	1.000000
rad21	3.97611e-20	1.000000	3.98048e-20	1.000000
rad13	2.43538e-20	1.000000	2.43805e-20	1.000000
rad36	1.71054e-20	1.000000	1.71242e-20	1.000000
rad1	1.40923e-20	1.000000	1.41077e-20	1.000000
rad18	1.01390e-20	1.000000	1.01502e-20	1.000000
rad20	8.29636e-21	1.000000	8.30546e-21	1.000000
rad19syn	7.89908e-21	1.000000	7.90771e-21	1.000000
rad26	2.48490e-21	1.000000	2.48763e-21	1.000000
rad24	1.99082e-21	1.000000	1.99301e-21	1.000000
rad33	1.52243e-21	1.000000	1.52410e-21	1.000000
rad25	8.67515e-22	1.000000	8.68467e-22	1.000000
rad27	3.81185e-22	1.000000	3.81603e-22	1.000000
rad3	3.28974e-22	1.000000	3.29336e-22	1.000000
rad4	2.75155e-22	1.000000	2.75457e-22	1.000000
rad28	3.88219e-23	1.000000	3.88646e-23	1.000000
rad14	3.12704e-23	1.000000	3.13047e-23	1.000000
rad22	3.02519e-23	1.000000	3.02852e-23	1.000000
rad31	2.56266e-23	1.000000	2.56547e-23	1.000000
rad47	1.33181e-23	1.000000	1.33327e-23	1.000000
rad5	2.77114e-24	1.000000	2.77419e-24	1.000000
rad23	2.73064e-24	1.000000	2.73364e-24	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.

Indene+H

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	3.05043e-15	4.29381e-14	1.83189e-13	4.95117e-13	1.05377e-12
1.00000e+07	1.18820e-11	1.15109e-10	4.00181e-10	9.46509e-10	1.83064e-09
1.00000e+06	1.56117e-08	1.22927e-07	3.84564e-07	8.43007e-07	1.53106e-06
100000.	1.00723e-05	5.42413e-05	0.000127356	0.000221073	0.000329619
10000.0	0.00103985	0.00264028	0.00421703	0.00576702	0.00730292
1000.00	0.0152977	0.0311564	0.0462645	0.0608785	0.0751456
100.000	0.145930	0.270875	0.372835	0.457811	0.529570
10.0000	0.768565	0.935094	0.977790	0.991211	0.996076
1.00000	0.999672	0.999773	0.999769	0.999764	0.999759
0.100000	0.999773	0.999771	0.999768	0.999763	0.999759
0.0100000	0.999772	0.999770	0.999767	0.999763	0.999758
0.00100000	0.999772	0.999770	0.999767	0.999763	0.999758
0.000100000	0.999772	0.999770	0.999767	0.999763	0.999758
1.00000e-05	0.999772	0.999770	0.999767	0.999763	0.999758
1.00000e-06	0.999772	0.999770	0.999767	0.999763	0.999758
1.00000e-07	0.999772	0.999770	0.999767	0.999763	0.999758
1.00000e-08	0.999772	0.999770	0.999767	0.999763	0.999758
1.00000e-09	0.999772	0.999770	0.999767	0.999763	0.999758

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	1.93940e-12	3.24061e-12	5.05815e-12	7.50962e-12	1.07353e-11
1.00000e+07	3.13173e-09	4.93610e-09	7.34127e-09	1.04603e-08	1.44273e-08
1.00000e+06	2.47709e-06	3.70819e-06	5.25218e-06	7.13904e-06	9.40231e-06
100000.	0.000449332	0.000577972	0.000714214	0.000857342	0.00100707
10000.0	0.00883576	0.0103751	0.0119296	0.0135071	0.0151155
1000.00	0.0891722	0.103045	0.116836	0.130608	0.144418
100.000	0.590757	0.643325	0.688759	0.728211	0.762593
10.0000	0.998038	0.998897	0.999299	0.999496	0.999596
1.00000	0.999754	0.999748	0.999742	0.999736	0.999729
0.100000	0.999753	0.999748	0.999742	0.999735	0.999728
0.0100000	0.999753	0.999747	0.999741	0.999735	0.999728
0.00100000	0.999753	0.999747	0.999741	0.999735	0.999728
0.000100000	0.999753	0.999747	0.999741	0.999735	0.999728
1.00000e-05	0.999753	0.999747	0.999741	0.999735	0.999728
1.00000e-06	0.999753	0.999747	0.999741	0.999735	0.999728
1.00000e-07	0.999753	0.999747	0.999741	0.999735	0.999728
1.00000e-08	0.999753	0.999747	0.999741	0.999735	0.999728
1.00000e-09	0.999753	0.999747	0.999741	0.999735	0.999728

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	1.49059e-11	2.02328e-11	2.69817e-11	3.54905e-11	4.61950e-11
1.00000e+07	1.94037e-08	2.55876e-08	3.32245e-08	4.26222e-08	5.41699e-08
1.00000e+06	1.20804e-05	1.52183e-05	1.88688e-05	2.30943e-05	2.79689e-05
100000.	0.00116343	0.00132672	0.00149744	0.00167631	0.00186418
10000.0	0.0167626	0.0184568	0.0202070	0.0220227	0.0239146
1000.00	0.158319	0.172361	0.186597	0.201075	0.215848
100.000	0.792642	0.818961	0.842048	0.862323	0.880135
10.0000	0.999646	0.999671	0.999680	0.999680	0.999673
1.00000	0.999722	0.999714	0.999704	0.999693	0.999680
0.100000	0.999721	0.999713	0.999703	0.999692	0.999679
0.0100000	0.999721	0.999713	0.999703	0.999692	0.999679
0.00100000	0.999721	0.999713	0.999703	0.999692	0.999679
0.000100000	0.999721	0.999713	0.999703	0.999692	0.999679
1.00000e-05	0.999721	0.999713	0.999703	0.999692	0.999679
1.00000e-06	0.999721	0.999713	0.999703	0.999692	0.999679
1.00000e-07	0.999721	0.999713	0.999703	0.999692	0.999679
1.00000e-08	0.999721	0.999713	0.999703	0.999692	0.999679
1.00000e-09	0.999721	0.999713	0.999703	0.999692	0.999679

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	5.96620e-11	7.66375e-11	9.81135e-11	1.25424e-10	1.60389e-10

1.00000e+07	6.83637e-08	8.58407e-08	1.07424e-07	1.34189e-07	1.67542e-07
1.00000e+06	3.35802e-05	4.00310e-05	4.74426e-05	5.59565e-05	6.57377e-05
100000.	0.00206213	0.00227135	0.00249324	0.00272933	0.00298135
10000.0	0.0258942	0.0279736	0.0301664	0.0324870	0.0349513
1000.00	0.230962	0.246465	0.262402	0.278814	0.295735
100.000	0.895784	0.909525	0.921577	0.932129	0.941350
10.0000	0.999659	0.999639	0.999609	0.999569	0.999515
1.00000	0.999662	0.999639	0.999608	0.999566	0.999512
0.100000	0.999661	0.999638	0.999606	0.999565	0.999511
0.0100000	0.999661	0.999638	0.999606	0.999565	0.999511
0.00100000	0.999661	0.999638	0.999606	0.999565	0.999511
0.000100000	0.999661	0.999638	0.999606	0.999565	0.999511
1.00000e-05	0.999661	0.999638	0.999606	0.999565	0.999511
1.00000e-06	0.999661	0.999638	0.999606	0.999565	0.999511
1.00000e-07	0.999661	0.999638	0.999606	0.999565	0.999511
1.00000e-08	0.999661	0.999638	0.999606	0.999565	0.999511
1.00000e-09	0.999661	0.999638	0.999606	0.999565	0.999511

Pa\K | 220.000 230.000 240.000 250.000 260.000

1.00000e+08	2.05521e-10	2.64359e-10	3.41978e-10	4.45808e-10	5.86951e-10
1.00000e+07	2.09352e-07	2.62119e-07	3.29225e-07	4.15291e-07	5.26703e-07
1.00000e+06	7.69777e-05	8.98986e-05	0.000104756	0.000121846	0.000141506
100000.	0.00325117	0.00354093	0.00385289	0.00418961	0.00455385
10000.0	0.0375760	0.0403791	0.0433801	0.0465996	0.0500597
1000.00	0.313195	0.331217	0.349813	0.368989	0.388736
100.000	0.949384	0.956361	0.962397	0.967595	0.972048
10.0000	0.999445	0.999356	0.999246	0.999112	0.998951
1.00000	0.999442	0.999353	0.999243	0.999108	0.998947
0.100000	0.999441	0.999352	0.999242	0.999107	0.998946
0.0100000	0.999441	0.999352	0.999242	0.999107	0.998946
0.00100000	0.999441	0.999352	0.999241	0.999107	0.998946
0.000100000	0.999441	0.999352	0.999241	0.999107	0.998946
1.00000e-05	0.999441	0.999352	0.999241	0.999107	0.998946
1.00000e-06	0.999441	0.999352	0.999241	0.999107	0.998946
1.00000e-07	0.999441	0.999352	0.999241	0.999107	0.998946
1.00000e-08	0.999441	0.999352	0.999241	0.999107	0.998946
1.00000e-09	0.999441	0.999352	0.999241	0.999107	0.998946

Pa\K | 270.000 280.000 290.000 300.000 310.000

1.00000e+08	7.82276e-10	1.05754e-09	1.45169e-09	3.59185e-08	2.84806e-09
1.00000e+07	6.72333e-07	8.64490e-07	1.12004e-06	7.95408e-06	1.91702e-06
1.00000e+06	0.000164125	0.000190148	0.000220082	0.000499726	0.000293989
100000.	0.00494865	0.00537736	0.00584364	0.00914137	0.00690434
10000.0	0.0537839	0.0577973	0.0621265	0.0907095	0.0718339
1000.00	0.409035	0.429857	0.451157	0.547206	0.494886
100.000	0.975840	0.979046	0.981732	0.984247	0.985650
10.0000	0.998761	0.998540	0.998288	0.997940	0.997542
1.00000	0.998757	0.998536	0.998284	0.997940	0.997537
0.100000	0.998755	0.998535	0.998283	0.997939	0.997536
0.0100000	0.998755	0.998535	0.998282	0.997939	0.997536
0.00100000	0.998755	0.998535	0.998282	0.997939	0.997536
0.000100000	0.998755	0.998535	0.998282	0.997939	0.997536
1.00000e-05	0.998755	0.998535	0.998282	0.997939	0.997536
1.00000e-06	0.998755	0.998535	0.998282	0.997939	0.997536
1.00000e-07	0.998755	0.998535	0.998282	0.997939	0.997536
1.00000e-08	0.998755	0.998535	0.998282	0.997939	0.997536
1.00000e-09	0.998755	0.998535	0.998282	0.997939	0.997536

Pa\K | 400.000 500.000 600.000 700.000 800.000

1.00000e+08	6.11330e-05	0.00576294	0.0253512	0.0463548	0.0411843
1.00000e+07	0.000316068	0.00797187	0.0718785	0.180552	0.196864
1.00000e+06	0.00228419	0.0141918	0.0973961	0.272056	0.324300
100000.	0.0237164	0.0749465	0.243216	0.469524	0.518201
10000.0	0.194254	0.387679	0.615472	0.741188	0.737041
1000.00	0.748260	0.869997	0.908945	0.899418	0.862335
100.000	0.988033	0.977049	0.956351	0.927124	0.889712
10.0000	0.991685	0.978429	0.957269	0.928229	0.891732
1.00000	0.991683	0.978429	0.957276	0.928259	0.891843
0.100000	0.991683	0.978428	0.957276	0.928261	0.891851
0.0100000	0.991683	0.978428	0.957276	0.928261	0.891852
0.00100000	0.991683	0.978428	0.957276	0.928261	0.891852
0.000100000	0.991683	0.978428	0.957276	0.928261	0.891852
1.00000e-05	0.991683	0.978428	0.957276	0.928261	0.891852
1.00000e-06	0.991683	0.978428	0.957276	0.928261	0.891852
1.00000e-07	0.991683	0.978428	0.957276	0.928261	0.891852
1.00000e-08	0.991683	0.978428	0.957276	0.928261	0.891852
1.00000e-09	0.991683	0.978428	0.957276	0.928261	0.891852

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.0219951	0.0132601	0.0102174	0.00885528	0.00780952
1.00000e+07	0.143620	0.102854	0.0844127	0.0761004	0.0717966
1.00000e+06	0.314116	0.294900	0.273123	0.256772	0.245697
100000.	0.485183	0.453225	0.427644	0.409846	0.396915
10000.0	0.686920	0.634424	0.598581	0.572553	0.545135
1000.00	0.814090	0.763239	0.715714	0.667321	0.614886
100.000	0.845288	0.795690	0.742354	0.685562	0.626161
10.0000	0.848431	0.799250	0.745208	0.687410	0.627235
1.00000	0.848680	0.799564	0.745466	0.687576	0.627331
0.100000	0.848701	0.799594	0.745490	0.687591	0.627339
0.0100000	0.848703	0.799596	0.745492	0.687593	0.627340
0.00100000	0.848703	0.799596	0.745493	0.687593	0.627340
0.000100000	0.848703	0.799596	0.745493	0.687593	0.627340
1.00000e-05	0.848703	0.799596	0.745493	0.687593	0.627340
1.00000e-06	0.848703	0.799596	0.745493	0.687593	0.627340
1.00000e-07	0.848703	0.799596	0.745493	0.687593	0.627340
1.00000e-08	0.848703	0.799596	0.745493	0.687593	0.627340
1.00000e-09	0.848703	0.799596	0.745493	0.687593	0.627340

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.00659743	0.00547326	0.0107535	0.0107704	0.0106602
1.00000e+07	0.0685826	0.0655718	0.0351813	0.0356348	0.0350140
1.00000e+06	0.237230	0.229634	0.0963702	0.0987662	0.0906502
100000.	0.384398	0.369369	0.231015	0.196421	0.148740
10000.0	0.511490	0.471816	0.335711	0.243203	0.167167
1000.00	0.559176	0.502488	0.360124	0.250980	0.169559
100.000	0.565718	0.506096	0.362951	0.251776	0.169783
10.0000	0.566304	0.506398	0.363225	0.251851	0.169803
1.00000	0.566355	0.506423	0.363251	0.251858	0.169805
0.100000	0.566359	0.506425	0.363254	0.251858	0.169805
0.0100000	0.566360	0.506425	0.363254	0.251858	0.169805
0.00100000	0.566360	0.506425	0.363254	0.251858	0.169805
0.000100000	0.566360	0.506425	0.363254	0.251858	0.169805
1.00000e-05	0.566360	0.506425	0.363254	0.251858	0.169805
1.00000e-06	0.566360	0.506425	0.363254	0.251858	0.169805
1.00000e-07	0.566360	0.506425	0.363254	0.251858	0.169805
1.00000e-08	0.566360	0.506425	0.363254	0.251858	0.169805
1.00000e-09	0.566360	0.506425	0.363254	0.251858	0.169805

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	0.000618618	0.00189231	0.00334691	0.00485849	0.00638887
1.00000e+07	0.0151076	0.0322834	0.0484296	0.0637984	0.0785768
1.00000e+06	0.154681	0.285475	0.390676	0.477057	0.548967
100000.	0.793361	0.948121	0.982647	0.991889	0.994626
10000.0	0.995369	0.994003	0.992663	0.991279	0.989864
1000.00	0.982279	0.966757	0.951824	0.937329	0.923151
100.000	0.852685	0.728058	0.626285	0.541439	0.469778
10.0000	0.231071	0.0646853	0.0220086	0.00858330	0.00371079
1.00000	0.000111826	1.34447e-06	8.22218e-08	1.08654e-08	2.25408e-09
0.100000	9.64569e-12	5.54201e-14	3.43694e-15	5.28593e-16	1.31561e-16
0.0100000	1.05891e-18	1.51229e-20	1.63375e-21	3.78722e-22	1.31673e-22
0.00100000	2.72422e-24	9.83563e-26	1.73417e-26	5.62657e-27	2.53548e-27
0.000100000	1.04992e-28	7.43481e-30	1.88075e-30	7.82736e-31	4.27614e-31
1.00000e-05	2.96922e-32	3.48953e-33	1.16047e-33	5.83732e-34	3.69364e-34
1.00000e-06	3.83097e-35	6.69992e-36	2.76854e-36	1.62006e-36	1.15307e-36
1.00000e-07	1.67379e-37	4.13101e-38	2.08277e-38	1.40776e-38	1.12414e-38
1.00000e-08	2.40698e-39	9.02921e-40	5.77539e-40	4.58682e-40	4.12633e-40
1.00000e-09	1.27148e-40	6.18182e-41	4.39066e-41	3.69321e-41	3.44622e-41

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	0.00792644	0.00946934	0.0110197	0.0125815	0.0141595
1.00000e+07	0.0929031	0.106885	0.120609	0.134148	0.147563
1.00000e+06	0.609457	0.660766	0.704576	0.742183	0.774605
100000.	0.995437	0.995618	0.995580	0.995462	0.995317
10000.0	0.988426	0.986963	0.985472	0.983949	0.982389
1000.00	0.909197	0.895385	0.881647	0.867922	0.854155
100.000	0.408668	0.356159	0.310773	0.271360	0.237009
10.0000	0.00174001	0.000871455	0.000460986	0.000255404	0.000147247
1.00000	6.28831e-10	2.16268e-10	8.69173e-11	3.94106e-11	1.96777e-11
0.100000	4.42515e-17	1.83183e-17	8.83137e-18	4.78611e-18	2.84641e-18
0.0100000	5.89198e-23	3.13311e-23	1.88968e-23	1.25523e-23	9.00442e-24

0.00100000	1.40495e-27	8.97903e-28	6.37419e-28	4.90823e-28	4.03512e-28
0.000100000	2.77767e-31	2.03559e-31	1.63158e-31	1.40249e-31	1.27607e-31
1.00000e-05	2.70915e-34	2.20447e-34	1.93890e-34	1.81304e-34	1.78265e-34
1.00000e-06	9.32227e-37	8.24991e-37	7.81699e-37	7.81968e-37	8.18140e-37
1.00000e-07	1.00122e-38	9.63882e-39	9.84354e-39	1.05375e-38	1.17315e-38
1.00000e-08	4.03293e-40	4.18549e-40	4.54976e-40	5.13556e-40	5.98499e-40
1.00000e-09	3.45518e-41	3.65418e-41	4.03059e-41	4.60287e-41	5.41567e-41

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	0.0157595	0.0173879	0.0190516	0.0207584	0.0225171
1.00000e+07	0.160913	0.174249	0.187623	0.201084	0.214684
1.00000e+06	0.802653	0.826984	0.848135	0.866550	0.882596
100000.	0.995161	0.995000	0.994835	0.994664	0.994487
10000.0	0.980784	0.979128	0.977411	0.975625	0.973760
1000.00	0.840294	0.826288	0.812086	0.797638	0.782893
100.000	0.206985	0.180685	0.157611	0.137345	0.119535
10.0000	8.78868e-05	5.40837e-05	3.41990e-05	2.21590e-05	1.46781e-05
1.00000	1.06322e-11	6.13674e-12	3.74674e-12	2.40131e-12	1.60585e-12
0.100000	1.82625e-18	1.24837e-18	9.00704e-19	6.81044e-19	5.36707e-19
0.0100000	6.88107e-24	5.54716e-24	4.68376e-24	4.12083e-24	3.76454e-24
0.00100000	3.50325e-28	3.18733e-28	3.02276e-28	2.97822e-28	3.04527e-28
0.000100000	1.21786e-31	1.21136e-31	1.25002e-31	1.33406e-31	1.46995e-31
1.00000e-05	1.82897e-34	1.94741e-34	2.14330e-34	2.43116e-34	2.83617e-34
1.00000e-06	8.89480e-37	1.00025e-36	1.15951e-36	1.38218e-36	1.69112e-36
1.00000e-07	1.35095e-38	1.60298e-38	1.95441e-38	2.44360e-38	3.12851e-38
1.00000e-08	7.17343e-40	8.81857e-40	1.10979e-39	1.42777e-39	1.87597e-39
1.00000e-09	6.54316e-41	8.09866e-41	1.02519e-40	1.32572e-40	1.74980e-40

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	0.0243373	0.0262298	0.0282066	0.0302815	0.0324699
1.00000e+07	0.228469	0.242489	0.256793	0.271429	0.286442
1.00000e+06	0.896585	0.908777	0.919393	0.928622	0.936629
100000.	0.994298	0.994096	0.993875	0.993632	0.993362
10000.0	0.971800	0.969735	0.967549	0.965224	0.962742
1000.00	0.767802	0.752316	0.736389	0.719977	0.703043
100.000	0.103883	0.0901314	0.0780590	0.0674735	0.0582061
10.0000	9.92023e-06	6.82946e-06	4.78256e-06	3.40278e-06	2.45742e-06
1.00000	1.11516e-12	8.01035e-13	5.93338e-13	4.52053e-13	3.53540e-13
0.100000	4.38973e-19	3.71465e-19	3.24531e-19	2.92451e-19	2.72037e-19
0.0100000	3.56459e-24	3.50054e-24	3.58152e-24	3.86287e-24	4.49941e-24
0.00100000	3.23880e-28	3.61203e-28	4.30384e-28	5.67545e-28	8.71117e-28
0.000100000	1.67239e-31	1.97051e-31	2.42493e-31	3.17543e-31	4.58248e-31
1.00000e-05	3.39804e-34	4.17841e-34	5.27540e-34	6.85423e-34	9.22128e-34
1.00000e-06	2.12092e-36	2.72401e-36	3.58081e-36	4.81694e-36	6.63394e-36
1.00000e-07	4.09710e-38	5.48442e-38	7.50054e-38	1.04774e-37	1.49484e-37
1.00000e-08	2.51572e-39	3.44179e-39	4.80275e-39	6.83521e-39	9.92203e-39
1.00000e-09	2.35602e-40	3.23501e-40	4.52904e-40	6.46493e-40	9.41007e-40

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	0.0347895	0.0372608	0.0399076	0.0427580	0.0458450
1.00000e+07	0.301879	0.317782	0.334191	0.351142	0.368663
1.00000e+06	0.943554	0.949521	0.954638	0.959002	0.962697
100000.	0.993060	0.992721	0.992339	0.991910	0.991429
10000.0	0.960085	0.957231	0.954160	0.950846	0.947268
1000.00	0.685553	0.667485	0.648820	0.629553	0.609689
100.000	0.0501079	0.0430465	0.0369039	0.0315742	0.0269622
10.0000	1.79988e-06	1.33607e-06	1.00462e-06	7.64831e-07	5.89368e-07
1.00000	2.83375e-13	2.32517e-13	1.95160e-13	1.67515e-13	1.47104e-13
0.100000	2.62122e-19	2.63798e-19	2.81835e-19	3.28483e-19	4.32879e-19
0.0100000	5.89373e-24	9.11119e-24	1.70680e-23	3.80181e-23	9.60141e-23
0.00100000	1.62378e-27	3.67241e-27	9.65275e-27	2.80203e-26	8.65752e-26
0.000100000	7.66772e-31	1.55425e-30	3.81952e-30	1.08964e-29	3.42390e-29
1.00000e-05	1.30282e-33	1.98990e-33	3.45148e-33	7.19267e-33	1.84123e-32
1.00000e-06	9.36809e-36	1.36176e-35	2.05609e-35	3.28879e-35	5.78893e-35
1.00000e-07	2.17871e-37	3.24564e-37	4.94786e-37	7.73879e-37	1.24893e-36
1.00000e-08	1.46932e-38	2.22042e-38	3.42568e-38	5.39927e-38	8.70242e-38
1.00000e-09	1.39696e-39	2.11577e-39	3.27046e-39	5.16189e-39	8.32340e-39

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	0.0492083	0.0528945	0.0569585	0.0617994	0.0664596
1.00000e+07	0.386774	0.405484	0.424785	0.444290	0.464946
1.00000e+06	0.965798	0.968373	0.970482	0.968088	0.973366
100000.	0.990891	0.990290	0.989621	0.985964	0.987923
10000.0	0.943397	0.939210	0.934677	0.930578	0.924327
1000.00	0.589244	0.568248	0.546740	0.450394	0.502359
100.000	0.0229824	0.0195576	0.0166186	0.0137288	0.0119550

10.0000	4.59575e-07	3.62584e-07	2.89408e-07	2.18485e-06	1.90909e-07
1.00000	1.32346e-13	1.22356e-13	1.16896e-13	4.88268e-11	1.22844e-13
0.100000	6.64190e-19	1.18894e-18	2.41444e-18	6.99355e-15	1.25108e-17
0.0100000	2.62836e-22	7.56670e-22	2.24928e-21	1.16397e-17	2.09457e-20
0.00100000	2.78468e-25	9.19993e-25	3.09337e-24	3.08352e-20	3.58272e-23
0.000100000	1.14047e-28	3.93504e-28	1.38704e-27	6.25229e-23	1.77324e-26
1.00000e-05	5.58811e-32	1.89186e-31	6.80130e-31	4.58176e-25	9.45574e-30
1.00000e-06	1.18614e-34	2.96201e-34	8.94586e-34	1.00161e-26	1.14606e-32
1.00000e-07	2.10565e-36	3.80269e-36	7.67595e-36	4.44716e-28	5.17709e-35
1.00000e-08	1.43698e-37	2.43954e-37	4.28889e-37	3.55368e-29	1.57589e-36
1.00000e-09	1.37206e-38	2.31421e-38	3.99893e-38	3.45424e-30	1.29700e-37

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	0.325766	0.812835	0.851865	0.789717	0.767321
1.00000e+07	0.773622	0.923690	0.826762	0.579511	0.489163
1.00000e+06	0.973770	0.956597	0.840502	0.551012	0.359955
100000.	0.965768	0.902052	0.707317	0.417838	0.266963
10000.0	0.796589	0.590299	0.339221	0.175448	0.120187
1000.00	0.243384	0.108410	0.0478824	0.0270165	0.0234409
100.000	0.00367559	0.00138674	0.000883513	0.000948802	0.00148716
10.0000	9.48440e-07	1.31405e-06	3.63877e-06	1.39986e-05	5.56803e-05
1.00000	2.44746e-10	6.19688e-09	3.19426e-08	2.56261e-07	2.34971e-06
0.100000	2.04223e-12	1.62815e-10	7.70810e-10	7.11733e-09	1.22918e-07
0.0100000	2.61173e-14	3.00470e-12	1.64017e-11	2.62750e-10	7.58908e-09
0.00100000	1.17021e-16	1.86161e-14	1.78934e-13	1.21406e-11	5.29428e-10
0.000100000	2.07335e-19	5.51076e-17	2.56107e-15	6.96092e-13	4.04987e-11
1.00000e-05	4.90164e-22	2.39472e-19	9.72297e-17	4.66378e-14	3.32703e-12
1.00000e-06	3.90987e-24	3.96448e-21	5.76903e-18	3.57413e-15	2.91857e-13
1.00000e-07	1.47568e-25	2.15959e-22	4.45561e-19	3.12165e-16	2.73155e-14
1.00000e-08	1.20993e-26	1.91468e-23	4.20120e-20	3.02897e-17	2.69204e-15
1.00000e-09	1.18214e-27	1.88828e-24	4.17248e-21	3.01844e-18	2.68752e-16

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.774743	0.760009	0.732359	0.700671	0.667962
1.00000e+07	0.558947	0.605905	0.606376	0.587094	0.560234
1.00000e+06	0.285268	0.262513	0.257421	0.249008	0.235140
100000.	0.178146	0.116968	0.0930501	0.0821726	0.0727301
10000.0	0.0831262	0.0500346	0.0341686	0.0258248	0.0194760
1000.00	0.0183469	0.0108698	0.00656346	0.00425121	0.00276734
100.000	0.00162412	0.00110283	0.000674697	0.000423824	0.000266269
10.0000	0.000101343	8.77703e-05	5.90703e-05	3.82949e-05	2.42943e-05
1.00000	6.69493e-06	7.16691e-06	5.26577e-06	3.52717e-06	2.26605e-06
0.100000	4.90666e-07	6.16186e-07	4.84077e-07	3.32515e-07	2.15737e-07
0.0100000	3.89505e-08	5.51031e-08	4.55202e-08	3.18645e-08	2.08266e-08
0.00100000	3.27836e-09	5.07054e-09	4.35003e-09	3.08861e-09	2.02988e-09
0.000100000	2.88316e-10	4.76640e-10	4.20650e-10	3.01863e-10	1.99209e-10
1.00000e-05	2.62384e-11	4.55541e-11	4.10497e-11	2.96895e-11	1.96525e-11
1.00000e-06	2.46474e-12	4.42123e-12	4.03975e-12	2.93705e-12	1.94809e-12
1.00000e-07	2.38922e-13	4.35706e-13	4.00879e-13	2.92211e-13	1.94017e-13
1.00000e-08	2.37340e-14	4.34386e-14	4.00257e-14	2.91918e-14	1.93865e-14
1.00000e-09	2.37159e-15	4.34238e-15	4.00187e-15	2.91886e-15	1.93848e-15

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.635381	0.604104	0.00810657	0.00774106	0.00726139
1.00000e+07	0.530464	0.499788	0.00925442	0.00819504	0.00682977
1.00000e+06	0.218229	0.199988	0.00770852	0.00550610	0.00356833
100000.	0.0628076	0.0527748	0.00341895	0.00172863	0.000816781
10000.0	0.0142682	0.0101842	0.000658930	0.000252900	9.94228e-05
1000.00	0.00178403	0.00114522	7.41307e-05	2.60353e-05	9.78737e-06
100.000	0.000166627	0.000104582	7.28550e-06	2.52629e-06	9.44371e-07
10.0000	1.52426e-05	9.57008e-06	7.10380e-07	2.46092e-07	9.19459e-08
1.00000	1.42919e-06	8.99391e-07	6.97070e-08	2.41520e-08	9.02345e-09
0.100000	1.36628e-07	8.61390e-08	6.87633e-09	2.38293e-09	8.90284e-10
0.0100000	1.32304e-08	8.35266e-09	6.80819e-10	2.35965e-10	8.81589e-11
0.00100000	1.29248e-09	8.16795e-10	6.75839e-11	2.34265e-11	8.75257e-12
0.000100000	1.27060e-10	8.03579e-11	6.72182e-12	2.33019e-12	8.70626e-13
1.00000e-05	1.25508e-11	7.94212e-12	6.69535e-13	2.32117e-13	8.67268e-14
1.00000e-06	1.24519e-12	7.88267e-13	6.67875e-14	2.31565e-14	8.65269e-15
1.00000e-07	1.24069e-13	7.85596e-14	6.67514e-15	2.31450e-15	8.64867e-16
1.00000e-08	1.23985e-14	7.85107e-15	6.67472e-16	2.31438e-16	8.64823e-17
1.00000e-09	1.23976e-15	7.85054e-16	6.67466e-17	2.31436e-17	8.64818e-18

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	0.863102	0.976087	0.991065	0.992414	0.991453

1.00000e+07	0.983084	0.966354	0.950561	0.935447	0.920852
1.00000e+06	0.845198	0.714471	0.609228	0.522788	0.450811
100000.	0.205969	0.0502700	0.0149994	0.00519279	0.00202138
10000.0	2.90161e-05	2.05729e-07	5.54634e-08	4.12947e-08	3.48872e-08
1000.00	1.95189e-08	1.18449e-08	9.07448e-09	7.58235e-09	6.62621e-09
100.000	3.97847e-09	2.38160e-09	1.71001e-09	1.31571e-09	1.05002e-09
10.0000	3.81731e-10	8.41918e-11	2.54798e-11	9.23458e-12	3.79358e-12
1.00000	9.49815e-14	1.00148e-15	5.77855e-17	7.38725e-18	1.50080e-18
0.100000	5.94168e-21	3.28098e-23	2.00937e-24	3.07702e-25	7.65469e-26
0.0100000	6.08991e-28	8.90356e-30	1.04556e-30	3.05835e-31	1.70588e-31
0.00100000	1.95894e-32	9.55737e-33	7.61547e-33	7.59013e-33	8.81947e-33
0.000100000	1.76257e-33	9.44048e-34	7.57842e-34	7.56831e-34	8.80162e-34
1.00000e-05	1.76088e-34	9.43627e-35	7.57619e-35	7.56665e-35	8.80010e-35
1.00000e-06	1.76073e-35	9.43586e-36	7.57597e-36	7.56649e-36	8.79995e-36
1.00000e-07	1.76071e-36	9.43582e-37	7.57595e-37	7.56647e-37	8.79993e-37
1.00000e-08	1.76071e-37	9.43582e-38	7.57595e-38	7.56647e-38	8.79993e-38
1.00000e-09	1.76071e-38	9.43582e-39	7.57595e-39	7.56647e-39	8.79993e-39

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	0.990039	0.988526	0.986988	0.985437	0.983871
1.00000e+07	0.906659	0.892776	0.879125	0.865640	0.852266
1.00000e+06	0.390247	0.338859	0.294966	0.257271	0.224758
100000.	0.000866393	0.000402873	0.000201060	0.000106838	6.00848e-05
10000.0	3.07341e-08	2.77473e-08	2.54804e-08	2.36974e-08	2.22583e-08
1000.00	5.95010e-09	5.44063e-09	5.03933e-09	4.71276e-09	4.44032e-09
100.000	8.57082e-10	7.10284e-10	5.95008e-10	5.02419e-10	4.26794e-10
10.0000	1.71300e-12	8.33580e-13	4.31187e-13	2.34746e-13	1.33505e-13
1.00000	4.12960e-19	1.40740e-19	5.62390e-20	2.54190e-20	1.26774e-20
0.100000	2.57935e-26	1.07143e-26	5.19080e-27	2.83197e-27	1.70079e-27
0.0100000	1.53730e-31	1.87446e-31	2.72636e-31	4.43518e-31	7.83710e-31
0.00100000	1.15193e-32	1.65425e-32	2.57604e-32	4.31162e-32	7.71212e-32
0.000100000	1.15013e-33	1.65214e-33	2.57325e-33	4.30756e-33	7.70569e-33
1.00000e-05	1.14996e-34	1.65194e-34	2.57298e-34	4.30716e-34	7.70506e-34
1.00000e-06	1.14994e-35	1.65192e-35	2.57295e-35	4.30712e-35	7.70499e-35
1.00000e-07	1.14994e-36	1.65192e-36	2.57295e-36	4.30712e-36	7.70499e-36
1.00000e-08	1.14994e-37	1.65192e-37	2.57295e-37	4.30712e-37	7.70499e-37
1.00000e-09	1.14994e-38	1.65192e-38	2.57295e-38	4.30712e-38	7.70499e-38

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	0.982286	0.980673	0.979026	0.977336	0.975592
1.00000e+07	0.838947	0.825634	0.812275	0.798825	0.785230
1.00000e+06	0.196616	0.172188	0.150936	0.132418	0.116262
100000.	3.56022e-05	2.21492e-05	1.44295e-05	9.82331e-06	6.97687e-06
10000.0	2.10744e-08	2.00863e-08	1.92531e-08	1.85457e-08	1.79433e-08
1000.00	4.20859e-09	4.00839e-09	3.83326e-09	3.67847e-09	3.54053e-09
100.000	3.64230e-10	3.11950e-10	2.67918e-10	2.30598e-10	1.98812e-10
10.0000	7.88599e-14	4.81608e-14	3.02980e-14	1.95757e-14	1.29580e-14
1.00000	6.85419e-21	3.96495e-21	2.42971e-21	1.56519e-21	1.05353e-21
0.100000	1.10981e-27	7.85949e-28	6.17063e-28	5.72590e-28	6.98912e-28
0.0100000	1.48424e-30	2.99293e-30	6.40255e-30	1.44961e-29	3.46726e-29
0.00100000	1.46854e-31	2.96901e-31	6.36015e-31	1.44121e-30	3.44918e-30
0.000100000	1.46745e-32	2.96700e-32	6.35625e-32	1.44040e-31	3.44740e-31
1.00000e-05	1.46734e-33	2.96680e-33	6.35586e-33	1.44032e-32	3.44722e-32
1.00000e-06	1.46733e-34	2.96678e-34	6.35582e-34	1.44032e-33	3.44720e-33
1.00000e-07	1.46733e-35	2.96678e-35	6.35581e-35	1.44031e-34	3.44720e-34
1.00000e-08	1.46733e-36	2.96678e-36	6.35581e-36	1.44031e-35	3.44720e-35
1.00000e-09	1.46733e-37	2.96678e-37	6.35581e-37	1.44031e-36	3.44720e-36

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	0.973784	0.971899	0.969923	0.967839	0.965631
1.00000e+07	0.771444	0.757415	0.743094	0.728431	0.713376
1.00000e+06	0.102159	0.0898445	0.0790965	0.0697224	0.0615564
100000.	5.16255e-06	3.97515e-06	3.18166e-06	2.64432e-06	2.27972e-06
10000.0	1.74301e-08	1.69948e-08	1.66291e-08	1.63270e-08	1.60843e-08
1000.00	3.41676e-09	3.30513e-09	3.20404e-09	3.11227e-09	3.02887e-09
100.000	1.71631e-10	1.48319e-10	1.28283e-10	1.11034e-10	9.61720e-11
10.0000	8.76996e-15	6.05850e-15	4.26624e-15	3.05878e-15	2.23091e-15
1.00000	7.37435e-22	5.34744e-22	4.00524e-22	3.09220e-22	2.45925e-22
0.100000	1.19280e-27	2.66104e-27	6.95017e-27	1.98428e-26	6.00824e-26
0.0100000	8.74613e-29	2.32250e-28	6.47928e-28	1.89455e-27	5.79034e-27
0.00100000	8.70447e-30	2.31232e-29	6.45302e-29	1.88743e-28	5.77015e-28
0.000100000	8.70033e-31	2.31130e-30	6.45039e-30	1.88672e-29	5.76813e-29
1.00000e-05	8.69992e-32	2.31120e-31	6.45013e-31	1.88665e-30	5.76793e-30
1.00000e-06	8.69987e-33	2.31119e-32	6.45010e-32	1.88664e-31	5.76791e-31
1.00000e-07	8.69987e-34	2.31119e-33	6.45010e-33	1.88664e-32	5.76790e-32
1.00000e-08	8.69987e-35	2.31119e-34	6.45010e-34	1.88664e-33	5.76790e-33
1.00000e-09	8.69987e-36	2.31119e-35	6.45010e-35	1.88664e-34	5.76790e-34

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	0.963277	0.960752	0.958033	0.955088	0.951882
1.00000e+07	0.697882	0.681902	0.665396	0.648323	0.630653
1.00000e+06	0.0544539	0.0482887	0.0429493	0.0383376	0.0343663
100000.	2.03665e-06	1.88355e-06	1.80149e-06	1.78004e-06	1.81522e-06
10000.0	1.58985e-08	1.57685e-08	1.56946e-08	1.56781e-08	1.57215e-08
1000.00	2.95309e-09	2.88440e-09	2.82237e-09	2.76673e-09	2.71730e-09
100.000	8.33601e-11	7.23147e-11	6.27950e-11	5.45941e-11	4.75336e-11
10.0000	1.65402e-15	1.24591e-15	9.53139e-16	7.40347e-16	5.83791e-16
1.00000	2.02186e-22	1.74902e-22	1.69775e-22	2.18081e-22	4.40976e-22
0.100000	1.90475e-25	6.27935e-25	2.14167e-24	7.52018e-24	2.70468e-23
0.0100000	1.84395e-26	6.09627e-26	2.08390e-25	7.33166e-25	2.64159e-24
0.00100000	1.83797e-27	6.07793e-27	2.07806e-26	7.31259e-26	2.63520e-25
0.000100000	1.83737e-28	6.07609e-28	2.07748e-27	7.31068e-27	2.63456e-26
1.00000e-05	1.83731e-29	6.07591e-29	2.07742e-28	7.31049e-28	2.63450e-27
1.00000e-06	1.83731e-30	6.07589e-30	2.07742e-29	7.31047e-29	2.63449e-28
1.00000e-07	1.83731e-31	6.07588e-31	2.07742e-30	7.31047e-30	2.63449e-29
1.00000e-08	1.83731e-32	6.07588e-32	2.07742e-31	7.31047e-31	2.63449e-30
1.00000e-09	1.83731e-33	6.07588e-33	2.07742e-32	7.31047e-32	2.63449e-31

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	0.948373	0.944513	0.940246	0.912273	0.930107
1.00000e+07	0.612364	0.593446	0.573904	0.491852	0.533017
1.00000e+06	0.0309581	0.0280443	0.0255642	0.0268310	0.0216923
100000.	1.90825e-06	2.06542e-06	2.29842e-06	1.78719e-05	3.07133e-06
10000.0	1.58289e-08	1.60059e-08	1.62598e-08	2.18741e-08	1.70386e-08
1000.00	2.67394e-09	2.63651e-09	2.60476e-09	2.38622e-09	2.55566e-09
100.000	4.14581e-11	3.62310e-11	3.17315e-11	2.75270e-11	2.44946e-11
10.0000	4.67296e-16	3.79707e-16	3.13309e-16	4.66794e-15	2.26201e-16
1.00000	1.29009e-21	4.44470e-21	1.61372e-20	1.54660e-16	2.17295e-19
0.100000	9.90884e-23	3.67602e-22	1.37225e-21	1.47634e-17	1.89606e-20
0.0100000	9.69373e-24	3.60175e-23	1.34645e-22	1.46925e-18	1.86518e-21
0.00100000	9.67192e-25	3.59422e-24	1.34383e-23	1.46854e-19	1.86204e-22
0.000100000	9.66974e-26	3.59346e-25	1.34357e-24	1.46847e-20	1.86172e-23
1.00000e-05	9.66952e-27	3.59339e-26	1.34354e-25	1.46846e-21	1.86169e-24
1.00000e-06	9.66950e-28	3.59338e-27	1.34354e-26	1.46846e-22	1.86169e-25
1.00000e-07	9.66950e-29	3.59338e-28	1.34354e-27	1.46846e-23	1.86169e-26
1.00000e-08	9.66950e-30	3.59338e-29	1.34354e-28	1.46846e-24	1.86169e-27
1.00000e-09	9.66950e-31	3.59338e-30	1.34354e-29	1.46846e-25	1.86169e-28

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	0.665246	0.146853	0.0345184	0.0198435	0.0192373
1.00000e+07	0.217103	0.0424678	0.0111440	0.00444231	0.00327551
1.00000e+06	0.0126688	0.00488006	0.00219118	0.00101060	0.000652069
100000.	6.37039e-05	0.000140944	0.000159533	0.000106537	7.31249e-05
10000.0	2.57284e-07	3.50104e-06	9.38274e-06	8.86048e-06	6.75014e-06
1000.00	4.74287e-09	1.49861e-07	6.72837e-07	7.82406e-07	6.37500e-07
100.000	1.12088e-10	9.14480e-09	5.56067e-08	7.27666e-08	6.15991e-08
10.0000	5.72756e-12	7.19186e-10	5.07106e-09	7.02689e-09	6.05690e-09
1.00000	4.88087e-13	6.74275e-11	4.95115e-10	6.96574e-10	6.03180e-10
0.100000	4.77861e-14	6.68658e-12	4.93612e-11	6.95815e-11	6.02871e-11
0.0100000	4.76813e-15	6.68082e-13	4.93458e-12	6.95738e-12	6.02839e-12
0.00100000	4.76708e-16	6.68024e-14	4.93443e-13	6.95730e-13	6.02835e-13
0.000100000	4.76697e-17	6.68018e-15	4.93441e-14	6.95729e-14	6.02835e-14
1.00000e-05	4.76696e-18	6.68017e-16	4.93441e-15	6.95729e-15	6.02835e-15
1.00000e-06	4.76696e-19	6.68017e-17	4.93441e-16	6.95729e-16	6.02835e-16
1.00000e-07	4.76696e-20	6.68017e-18	4.93441e-17	6.95729e-17	6.02835e-17
1.00000e-08	4.76696e-21	6.68017e-19	4.93441e-18	6.95729e-18	6.02835e-18
1.00000e-09	4.76696e-22	6.68017e-20	4.93441e-19	6.95729e-19	6.02835e-19

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.0183144	0.0168193	0.0151791	0.0136175	0.0122034
1.00000e+07	0.00281231	0.00244321	0.00210935	0.00181029	0.00154758
1.00000e+06	0.000483620	0.000372611	0.000289126	0.000225399	0.000176906
100000.	5.20702e-05	3.82165e-05	2.84720e-05	2.15098e-05	1.64916e-05
10000.0	4.92353e-06	3.62909e-06	2.70542e-06	2.04442e-06	1.56723e-06
1000.00	4.74685e-07	3.52538e-07	2.63544e-07	1.99208e-07	1.52541e-07
100.000	4.64130e-08	3.46121e-08	2.59064e-08	1.95836e-08	1.49921e-08
10.0000	4.58918e-09	3.42907e-09	2.56858e-09	1.94235e-09	1.48726e-09
1.00000	4.57673e-10	3.42155e-10	2.56356e-10	1.93882e-10	1.48470e-10
0.100000	4.57520e-11	3.42064e-11	2.56295e-11	1.93840e-11	1.48440e-11
0.0100000	4.57505e-12	3.42054e-12	2.56290e-12	1.93836e-12	1.48437e-12
0.00100000	4.57504e-13	3.42054e-13	2.56289e-13	1.93836e-13	1.48436e-13
0.000100000	4.57503e-14	3.42054e-14	2.56289e-14	1.93836e-14	1.48436e-14
1.00000e-05	4.57503e-15	3.42054e-15	2.56289e-15	1.93836e-15	1.48436e-15

1.00000e-06	4.57503e-16	3.42054e-16	2.56289e-16	1.93836e-16	1.48436e-16
1.00000e-07	4.57503e-17	3.42054e-17	2.56289e-17	1.93836e-17	1.48436e-17
1.00000e-08	4.57503e-18	3.42054e-18	2.56289e-18	1.93836e-18	1.48436e-18
1.00000e-09	4.57503e-19	3.42054e-19	2.56289e-19	1.93836e-19	1.48436e-19

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.0109447	0.00983066	N/A	N/A	N/A
1.00000e+07	0.00132026	0.00112585	N/A	N/A	N/A
1.00000e+06	0.000140032	0.000111931	N/A	N/A	N/A
100000.	1.28320e-05	1.01272e-05	N/A	N/A	N/A
10000.0	1.21825e-06	9.59565e-07	N/A	N/A	N/A
1000.00	1.18372e-07	9.30723e-08	N/A	N/A	N/A
100.000	1.16309e-08	9.14341e-09	N/A	N/A	N/A
10.0000	1.15401e-09	9.07338e-10	N/A	N/A	N/A
1.00000	1.15211e-10	9.05898e-11	N/A	N/A	N/A
0.100000	1.15188e-11	9.05731e-12	N/A	N/A	N/A
0.0100000	1.15186e-12	9.05717e-13	N/A	N/A	N/A
0.00100000	1.15186e-13	9.05717e-14	N/A	N/A	N/A
0.000100000	1.15186e-14	9.05717e-15	N/A	N/A	N/A
1.00000e-05	1.15186e-15	9.05717e-16	N/A	N/A	N/A
1.00000e-06	1.15186e-16	9.05717e-17	N/A	N/A	N/A
1.00000e-07	1.15186e-17	9.05717e-18	N/A	N/A	N/A
1.00000e-08	1.15186e-18	9.05717e-19	N/A	N/A	N/A
1.00000e-09	1.15186e-19	9.05717e-20	N/A	N/A	N/A

Benzene+cycloprop-2-enylidene

Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	3.08591e-46	1.33923e-30	7.66665e-23	3.18404e-18	3.61245e-15
1.00000e+07	3.08591e-46	1.33923e-30	7.66665e-23	3.18404e-18	3.61245e-15
1.00000e+06	3.08591e-46	1.33923e-30	7.66665e-23	3.18404e-18	3.61245e-15
100000.	3.08591e-46	1.33923e-30	7.66665e-23	3.18404e-18	3.61245e-15
10000.0	3.08591e-46	1.33923e-30	7.66665e-23	3.18404e-18	3.61245e-15
1000.00	3.08591e-46	1.33923e-30	7.66665e-23	3.18404e-18	3.61245e-15
100.000	3.08591e-46	1.33923e-30	7.66665e-23	3.18404e-18	3.61245e-15
10.0000	3.08591e-46	1.33923e-30	7.66665e-23	3.18404e-18	3.61245e-15
1.00000	3.08591e-46	1.33923e-30	7.66665e-23	3.18404e-18	3.61245e-15
0.100000	3.08591e-46	1.33923e-30	7.66665e-23	3.18404e-18	3.61245e-15
0.0100000	3.08591e-46	1.33923e-30	7.66665e-23	3.18404e-18	3.61245e-15
0.00100000	3.08591e-46	1.33923e-30	7.66665e-23	3.18404e-18	3.61245e-15
0.000100000	3.08591e-46	1.33923e-30	7.66665e-23	3.18404e-18	3.61245e-15
1.00000e-05	3.08591e-46	1.33923e-30	7.66665e-23	3.18404e-18	3.61245e-15
1.00000e-06	3.08591e-46	1.33923e-30	7.66665e-23	3.18404e-18	3.61245e-15
1.00000e-07	3.08591e-46	1.33923e-30	7.66665e-23	3.18404e-18	3.61245e-15
1.00000e-08	3.08591e-46	1.33923e-30	7.66665e-23	3.18404e-18	3.61245e-15
1.00000e-09	3.08591e-46	1.33923e-30	7.66665e-23	3.18404e-18	3.61245e-15

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	5.28015e-13	2.15484e-11	3.76912e-10	3.65179e-09	2.30629e-08
1.00000e+07	5.28015e-13	2.15484e-11	3.76912e-10	3.65179e-09	2.30629e-08
1.00000e+06	5.28015e-13	2.15484e-11	3.76912e-10	3.65179e-09	2.30629e-08
100000.	5.28015e-13	2.15484e-11	3.76912e-10	3.65179e-09	2.30629e-08
10000.0	5.28015e-13	2.15484e-11	3.76912e-10	3.65179e-09	2.30629e-08
1000.00	5.28015e-13	2.15484e-11	3.76912e-10	3.65179e-09	2.30629e-08
100.000	5.28015e-13	2.15484e-11	3.76912e-10	3.65179e-09	2.30629e-08
10.0000	5.28015e-13	2.15484e-11	3.76912e-10	3.65179e-09	2.30629e-08
1.00000	5.28015e-13	2.15484e-11	3.76912e-10	3.65179e-09	2.30629e-08
0.100000	5.28015e-13	2.15484e-11	3.76912e-10	3.65179e-09	2.30629e-08
0.0100000	5.28015e-13	2.15484e-11	3.76912e-10	3.65179e-09	2.30629e-08
0.00100000	5.28015e-13	2.15484e-11	3.76912e-10	3.65179e-09	2.30629e-08
0.000100000	5.28015e-13	2.15484e-11	3.76912e-10	3.65179e-09	2.30629e-08
1.00000e-05	5.28015e-13	2.15484e-11	3.76912e-10	3.65179e-09	2.30629e-08
1.00000e-06	5.28015e-13	2.15484e-11	3.76912e-10	3.65179e-09	2.30629e-08
1.00000e-07	5.28015e-13	2.15484e-11	3.76912e-10	3.65179e-09	2.30629e-08
1.00000e-08	5.28015e-13	2.15484e-11	3.76912e-10	3.65179e-09	2.30629e-08
1.00000e-09	5.28015e-13	2.15484e-11	3.76912e-10	3.65179e-09	2.30629e-08

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	1.05797e-07	3.79882e-07	1.12607e-06	2.86508e-06	6.44194e-06
1.00000e+07	1.05797e-07	3.79882e-07	1.12607e-06	2.86508e-06	6.44194e-06
1.00000e+06	1.05797e-07	3.79882e-07	1.12607e-06	2.86508e-06	6.44194e-06
100000.	1.05797e-07	3.79882e-07	1.12607e-06	2.86508e-06	6.44194e-06
10000.0	1.05797e-07	3.79882e-07	1.12607e-06	2.86508e-06	6.44194e-06
1000.00	1.05797e-07	3.79882e-07	1.12607e-06	2.86508e-06	6.44194e-06
100.000	1.05797e-07	3.79882e-07	1.12607e-06	2.86508e-06	6.44194e-06
10.0000	1.05797e-07	3.79882e-07	1.12607e-06	2.86508e-06	6.44194e-06

10000.0	0.00710133	0.0185518	0.0355285	0.0566520	0.0802781
1000.00	0.00710133	0.0185518	0.0355285	0.0566520	0.0802781
100.000	0.00710133	0.0185518	0.0355285	0.0566520	0.0802781
10.0000	0.00710133	0.0185518	0.0355285	0.0566520	0.0802781
1.00000	0.00710133	0.0185518	0.0355285	0.0566520	0.0802781
0.100000	0.00710133	0.0185518	0.0355285	0.0566520	0.0802781
0.0100000	0.00710133	0.0185518	0.0355285	0.0566520	0.0802781
0.00100000	0.00710133	0.0185518	0.0355285	0.0566520	0.0802781
0.000100000	0.00710133	0.0185518	0.0355285	0.0566520	0.0802781
1.00000e-05	0.00710133	0.0185518	0.0355285	0.0566520	0.0802781
1.00000e-06	0.00710133	0.0185518	0.0355285	0.0566520	0.0802781
1.00000e-07	0.00710133	0.0185518	0.0355285	0.0566520	0.0802781
1.00000e-08	0.00710133	0.0185518	0.0355285	0.0566520	0.0802781
1.00000e-09	0.00710133	0.0185518	0.0355285	0.0566520	0.0802781

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.105019	0.129576	0.153218	0.175463	0.196067
1.00000e+07	0.104941	0.129479	0.153110	0.175352	0.195960
1.00000e+06	0.104931	0.129467	0.153097	0.175339	0.195948
100000.	0.104930	0.129465	0.153096	0.175338	0.195946
10000.0	0.104930	0.129465	0.153095	0.175337	0.195946
1000.00	0.104930	0.129465	0.153095	0.175337	0.195946
100.000	0.104930	0.129465	0.153095	0.175337	0.195946
10.0000	0.104930	0.129465	0.153095	0.175337	0.195946
1.00000	0.104930	0.129465	0.153095	0.175337	0.195946
0.100000	0.104930	0.129465	0.153095	0.175337	0.195946
0.0100000	0.104930	0.129465	0.153095	0.175337	0.195946
0.00100000	0.104930	0.129465	0.153095	0.175337	0.195946
0.000100000	0.104930	0.129465	0.153095	0.175337	0.195946
1.00000e-05	0.104930	0.129465	0.153095	0.175337	0.195946
1.00000e-06	0.104930	0.129465	0.153095	0.175337	0.195946
1.00000e-07	0.104930	0.129465	0.153095	0.175337	0.195946
1.00000e-08	0.104930	0.129465	0.153095	0.175337	0.195946
1.00000e-09	0.104930	0.129465	0.153095	0.175337	0.195946

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.214955	0.232162	0.276957	0.304749	0.328354
1.00000e+07	0.214859	0.232088	0.268003	0.296636	0.321321
1.00000e+06	0.214848	0.232080	0.267041	0.295770	0.320575
100000.	0.214847	0.232080	0.266938	0.295677	0.320495
10000.0	0.214847	0.232079	0.266925	0.295665	0.320486
1000.00	0.214847	0.232079	0.266923	0.295664	0.320485
100.000	0.214847	0.232079	0.266922	0.295664	0.320485
10.0000	0.214847	0.232079	0.266922	0.295664	0.320485
1.00000	0.214847	0.232079	0.266922	0.295664	0.320485
0.100000	0.214847	0.232079	0.266922	0.295664	0.320485
0.0100000	0.214847	0.232079	0.266922	0.295664	0.320485
0.00100000	0.214847	0.232079	0.266922	0.295664	0.320485
0.000100000	0.214847	0.232079	0.266922	0.295664	0.320485
1.00000e-05	0.214847	0.232079	0.266922	0.295664	0.320485
1.00000e-06	0.214847	0.232079	0.266922	0.295664	0.320485
1.00000e-07	0.214847	0.232079	0.266922	0.295664	0.320485
1.00000e-08	0.214847	0.232079	0.266922	0.295664	0.320485
1.00000e-09	0.214847	0.232079	0.266922	0.295664	0.320485

PhCHCCH2+H

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	2.85778e-15	1.45265e-14	3.73749e-14	7.32185e-14	1.23852e-13
1.00000e+07	5.81631e-13	2.72554e-12	6.43346e-12	1.17531e-11	1.87933e-11
1.00000e+06	7.34848e-11	2.94461e-10	6.40856e-10	1.10517e-09	1.68604e-09
100000.	5.49243e-09	1.70955e-08	3.10469e-08	4.64798e-08	6.31621e-08
10000.0	1.39772e-07	3.08429e-07	4.79008e-07	6.54982e-07	8.38553e-07
1000.00	1.61398e-06	3.29241e-06	4.96401e-06	6.67013e-06	8.43255e-06
100.000	1.55690e-05	2.99604e-05	4.29825e-05	5.51549e-05	6.67385e-05
10.0000	0.000101218	0.000143862	0.000166584	0.000181775	0.000193473
1.00000	0.000199371	0.000209655	0.000215506	0.000220836	0.000226156
0.100000	0.000215322	0.000217816	0.000221123	0.000225180	0.000229730
0.0100000	0.000217007	0.000218649	0.000221686	0.000225610	0.000230082
0.00100000	0.000217172	0.000218731	0.000221741	0.000225653	0.000230117
0.000100000	0.000217188	0.000218739	0.000221747	0.000225657	0.000230120
1.00000e-05	0.000217190	0.000218740	0.000221747	0.000225658	0.000230121
1.00000e-06	0.000217190	0.000218740	0.000221748	0.000225658	0.000230121
1.00000e-07	0.000217190	0.000218740	0.000221748	0.000225658	0.000230121
1.00000e-08	0.000217190	0.000218740	0.000221748	0.000225658	0.000230121
1.00000e-09	0.000217190	0.000218740	0.000221748	0.000225658	0.000230121

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	1.91337e-13	2.78209e-13	3.87644e-13	5.23665e-13	6.91408e-13
1.00000e+07	2.77214e-11	3.87695e-11	5.22427e-11	6.85337e-11	8.81455e-11
1.00000e+06	2.38666e-09	3.21424e-09	4.17979e-09	5.29827e-09	6.58914e-09
100000.	8.10862e-08	1.00353e-07	1.21128e-07	1.43624e-07	1.68107e-07
10000.0	1.03171e-06	1.23653e-06	1.45528e-06	1.69044e-06	1.94487e-06
1000.00	1.02695e-05	1.21993e-05	1.42412e-05	1.64158e-05	1.87461e-05
100.000	7.79138e-05	8.88249e-05	9.95910e-05	0.000110315	0.000121090
10.0000	0.000203377	0.000212328	0.000220798	0.000229075	0.000237358
1.00000	0.000231618	0.000237305	0.000243276	0.000249579	0.000256261
0.100000	0.000234673	0.000239986	0.000245673	0.000251752	0.000258254
0.0100000	0.000234973	0.000240249	0.000245907	0.000251964	0.000258449
0.00100000	0.000235003	0.000240275	0.000245930	0.000251986	0.000258468
0.000100000	0.000235006	0.000240277	0.000245933	0.000251988	0.000258470
1.00000e-05	0.000235006	0.000240278	0.000245933	0.000251988	0.000258470
1.00000e-06	0.000235006	0.000240278	0.000245933	0.000251988	0.000258470
1.00000e-07	0.000235006	0.000240278	0.000245933	0.000251988	0.000258470
1.00000e-08	0.000235006	0.000240278	0.000245933	0.000251988	0.000258470
1.00000e-09	0.000235006	0.000240278	0.000245933	0.000251988	0.000258470

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	8.97489e-13	1.15050e-12	1.46172e-12	1.84599e-12	2.32315e-12
1.00000e+07	1.11724e-10	1.40102e-10	1.74359e-10	2.15900e-10	2.66568e-10
1.00000e+06	1.07724e-09	9.79397e-09	1.17788e-08	1.40810e-08	1.67622e-08
100000.	1.94899e-07	2.24391e-07	2.57058e-07	2.93475e-07	3.34335e-07
10000.0	2.22191e-06	2.52551e-06	2.86042e-06	3.23229e-06	3.64790e-06
1000.00	2.12587e-05	2.39843e-05	2.69591e-05	3.02252e-05	3.38322e-05
100.000	0.000132005	0.000143151	0.000154617	0.000166499	0.000178893
10.0000	0.000245795	0.000254511	0.000263615	0.000273212	0.000283406
1.00000	0.000263375	0.000270977	0.000279131	0.000287908	0.000297386
0.100000	0.000265218	0.000272694	0.000280742	0.000289426	0.000298824
0.0100000	0.000265398	0.000272863	0.000280900	0.000289576	0.000298966
0.00100000	0.000265416	0.000272880	0.000280916	0.000289591	0.000298980
0.000100000	0.000265418	0.000272881	0.000280917	0.000289592	0.000298981
1.00000e-05	0.000265418	0.000272881	0.000280917	0.000289592	0.000298982
1.00000e-06	0.000265418	0.000272881	0.000280917	0.000289592	0.000298982
1.00000e-07	0.000265418	0.000272881	0.000280917	0.000289592	0.000298982
1.00000e-08	0.000265418	0.000272881	0.000280917	0.000289592	0.000298982
1.00000e-09	0.000265418	0.000272881	0.000280917	0.000289592	0.000298982

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	2.91974e-12	3.67184e-12	4.62891e-12	5.85967e-12	7.46107e-12
1.00000e+07	3.28793e-10	4.05795e-10	5.01889e-10	6.22900e-10	7.76776e-10
1.00000e+06	1.98989e-08	2.35862e-08	2.79422e-08	3.31133e-08	3.92816e-08
100000.	3.80472e-07	4.32893e-07	4.92808e-07	5.61668e-07	6.41223e-07
10000.0	4.11535e-06	4.64432e-06	5.24636e-06	5.93527e-06	6.72748e-06
1000.00	3.78376e-05	4.23082e-05	4.73210e-05	5.29646e-05	5.93408e-05
100.000	0.000191901	0.000205634	0.000220201	0.000235720	0.000252317
10.0000	0.000294300	0.000306000	0.000318615	0.000332261	0.000347056
1.00000	0.000307650	0.000318790	0.000330907	0.000344102	0.000358490
0.100000	0.000309018	0.000320096	0.000332156	0.000345302	0.000359644
0.0100000	0.000309152	0.000320224	0.000332279	0.000345420	0.000359758
0.00100000	0.000309166	0.000320237	0.000332292	0.000345432	0.000359770
0.000100000	0.000309167	0.000320238	0.000332293	0.000345433	0.000359771
1.00000e-05	0.000309167	0.000320239	0.000332293	0.000345433	0.000359771
1.00000e-06	0.000309167	0.000320239	0.000332293	0.000345433	0.000359771
1.00000e-07	0.000309167	0.000320239	0.000332293	0.000345433	0.000359771
1.00000e-08	0.000309167	0.000320239	0.000332293	0.000345433	0.000359771
1.00000e-09	0.000309167	0.000320239	0.000332293	0.000345433	0.000359771

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	9.57239e-12	1.23978e-11	1.62436e-11	2.15805e-11	2.91476e-11
1.00000e+07	9.74495e-10	1.23142e-09	1.56938e-09	2.01980e-09	2.62849e-09
1.00000e+06	4.66736e-08	5.55716e-08	6.63281e-08	7.93846e-08	9.52955e-08
100000.	7.33576e-07	8.41260e-07	9.67327e-07	1.11546e-06	1.29012e-06
10000.0	7.64261e-06	8.70406e-06	9.93974e-06	1.13829e-05	1.30734e-05
1000.00	6.65648e-05	7.47681e-05	8.40986e-05	9.47228e-05	0.000106827
100.000	0.000270119	0.000289266	0.000309899	0.000332171	0.000356244
10.0000	0.000363125	0.000380602	0.000399625	0.000420341	0.000442907
1.00000	0.000374189	0.000391326	0.000410035	0.000430462	0.000452759
0.100000	0.000375302	0.000392402	0.000411077	0.000431472	0.000453740
0.0100000	0.000375412	0.000392508	0.000411180	0.000431573	0.000453837
0.00100000	0.000375423	0.000392519	0.000411191	0.000431583	0.000453847
0.000100000	0.000375424	0.000392520	0.000411192	0.000431584	0.000453848
1.00000e-05	0.000375424	0.000392520	0.000411192	0.000431584	0.000453848
1.00000e-06	0.000375424	0.000392520	0.000411192	0.000431584	0.000453848

1.00000e-07	0.000375424	0.000392520	0.000411192	0.000431584	0.000453848
1.00000e-08	0.000375424	0.000392520	0.000411192	0.000431584	0.000453848
1.00000e-09	0.000375424	0.000392520	0.000411192	0.000431584	0.000453848

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	4.01210e-11	5.63697e-11	8.08041e-11	4.03795e-09	1.73372e-10
1.00000e+07	3.46263e-09	4.62013e-09	6.24103e-09	7.11810e-08	1.16998e-08
1.00000e+06	1.14758e-07	1.38650e-07	1.68072e-07	5.11567e-07	2.49264e-07
100000.	1.49668e-06	1.74163e-06	2.03283e-06	4.44550e-06	2.79319e-06
10000.0	1.50585e-05	1.73944e-05	2.01483e-05	4.01206e-05	2.72350e-05
1000.00	0.000120616	0.000136318	0.000154182	0.000231090	0.000197464
100.000	0.000382286	0.000410478	0.000441008	0.000470135	0.000509815
10.0000	0.000467489	0.000494261	0.000523410	0.000532383	0.000589539
1.00000	0.000477088	0.000503623	0.000532547	0.000529168	0.000598257
0.100000	0.000478041	0.000504551	0.000533451	0.000529750	0.000599117
0.0100000	0.000478136	0.000504644	0.000533542	0.000529808	0.000599203
0.00100000	0.000478145	0.000504653	0.000533551	0.000529814	0.000599212
0.000100000	0.000478146	0.000504654	0.000533552	0.000529814	0.000599213
1.00000e-05	0.000478146	0.000504654	0.000533552	0.000529814	0.000599213
1.00000e-06	0.000478146	0.000504654	0.000533552	0.000529814	0.000599213
1.00000e-07	0.000478146	0.000504654	0.000533552	0.000529814	0.000599213
1.00000e-08	0.000478146	0.000504654	0.000533552	0.000529814	0.000599213
1.00000e-09	0.000478146	0.000504654	0.000533552	0.000529814	0.000599213

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	2.00130e-05	0.00372371	0.0201421	0.0412676	0.0386155
1.00000e+07	1.05414e-05	0.00138643	0.0351564	0.130889	0.167223
1.00000e+06	8.06725e-06	0.000408715	0.0145824	0.0911467	0.182347
100000.	3.47828e-05	0.000529258	0.00762333	0.0413165	0.103138
10000.0	0.000224080	0.00127642	0.00559011	0.0173668	0.0430488
1000.00	0.000703864	0.00186617	0.00431645	0.00914274	0.0186899
100.000	0.000961858	0.00200433	0.00405173	0.00776069	0.0140265
10.0000	0.00100125	0.00202267	0.00402470	0.00761464	0.0135177
1.00000	0.00100541	0.00202456	0.00402202	0.00760012	0.0134678
0.100000	0.00100581	0.00202475	0.00402175	0.00759867	0.0134629
0.0100000	0.00100585	0.00202476	0.00402172	0.00759852	0.0134623
0.00100000	0.00100586	0.00202477	0.00402172	0.00759851	0.0134623
0.000100000	0.00100586	0.00202477	0.00402172	0.00759851	0.0134623
1.00000e-05	0.00100586	0.00202477	0.00402172	0.00759851	0.0134623
1.00000e-06	0.00100586	0.00202477	0.00402172	0.00759851	0.0134623
1.00000e-07	0.00100586	0.00202477	0.00402172	0.00759851	0.0134623
1.00000e-08	0.00100586	0.00202477	0.00402172	0.00759851	0.0134623
1.00000e-09	0.00100586	0.00202477	0.00402172	0.00759851	0.0134623

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.0206454	0.0125158	0.00992883	0.00902343	0.00866140
1.00000e+07	0.125679	0.0910439	0.0766707	0.0707895	0.0679980
1.00000e+06	0.225663	0.231577	0.224251	0.215317	0.206904
100000.	0.177487	0.225737	0.236981	0.231098	0.220560
10000.0	0.0889285	0.131299	0.144629	0.143705	0.142881
1000.00	0.0361455	0.0560570	0.0698621	0.0828203	0.0989452
100.000	0.0238205	0.0369364	0.0524746	0.0707953	0.0916603
10.0000	0.0224395	0.0347916	0.0505993	0.0695763	0.0909704
1.00000	0.0223084	0.0345940	0.0504285	0.0694669	0.0909095
0.100000	0.0222955	0.0345753	0.0504127	0.0694568	0.0909044
0.0100000	0.0222943	0.0345735	0.0504111	0.0694558	0.0909037
0.00100000	0.0222941	0.0345733	0.0504110	0.0694557	0.0909037
0.000100000	0.0222941	0.0345733	0.0504110	0.0694557	0.0909037
1.00000e-05	0.0222941	0.0345733	0.0504110	0.0694557	0.0909037
1.00000e-06	0.0222941	0.0345733	0.0504110	0.0694557	0.0909037
1.00000e-07	0.0222941	0.0345733	0.0504110	0.0694557	0.0909037
1.00000e-08	0.0222941	0.0345733	0.0504110	0.0694557	0.0909037
1.00000e-09	0.0222941	0.0345733	0.0504110	0.0694557	0.0909037

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.00848896	0.00839266	0.178301	0.175802	0.169953
1.00000e+07	0.0662947	0.0649902	0.340984	0.313391	0.278523
1.00000e+06	0.199226	0.192432	0.378742	0.324171	0.276384
100000.	0.210813	0.204091	0.290777	0.260828	0.239954
10000.0	0.147035	0.156057	0.213041	0.227126	0.227228
1000.00	0.118046	0.138395	0.194568	0.221426	0.225558
100.000	0.113983	0.136298	0.192425	0.220844	0.225403
10.0000	0.113627	0.136131	0.192216	0.220790	0.225390
1.00000	0.113596	0.136118	0.192197	0.220785	0.225388
0.100000	0.113594	0.136116	0.192195	0.220784	0.225388
0.0100000	0.113593	0.136116	0.192195	0.220784	0.225388

0.00100000	0.113593	0.136116	0.192195	0.220784	0.225388
0.00010000	0.113593	0.136116	0.192195	0.220784	0.225388
1.00000e-05	0.113593	0.136116	0.192195	0.220784	0.225388
1.00000e-06	0.113593	0.136116	0.192195	0.220784	0.225388
1.00000e-07	0.113593	0.136116	0.192195	0.220784	0.225388
1.00000e-08	0.113593	0.136116	0.192195	0.220784	0.225388
1.00000e-09	0.113593	0.136116	0.192195	0.220784	0.225388

PhcycC3H3_B+H

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	3.32165e-23	9.47490e-23	2.73947e-22	8.44807e-22	2.71193e-21
1.00000e+07	3.12046e-22	8.57567e-22	2.34847e-21	6.94204e-21	2.19405e-20
1.00000e+06	2.84807e-21	7.22748e-21	1.83728e-20	5.11918e-20	1.55403e-19
100000.	1.41886e-20	2.11715e-20	3.72873e-20	8.21930e-20	2.25552e-19
10000.0	4.76218e-21	2.94881e-21	4.08431e-21	9.53271e-21	4.22135e-20
1000.00	2.62862e-22	2.05993e-22	3.54004e-22	1.21255e-21	1.74732e-20
100.000	9.42898e-23	1.84670e-22	3.98948e-22	1.24453e-21	1.70315e-20
10.0000	2.70753e-22	3.15174e-22	4.52948e-22	1.13715e-21	1.66257e-20
1.00000	5.03529e-23	2.89756e-23	3.78841e-23	3.75164e-22	1.49179e-20
0.100000	2.83036e-24	1.99116e-24	3.77343e-24	3.05129e-22	1.47227e-20
0.0100000	2.51879e-25	1.88459e-25	1.11671e-24	2.98958e-22	1.47038e-20
0.00100000	2.48703e-26	1.87751e-26	8.59744e-25	2.98351e-22	1.47019e-20
0.000100000	2.48384e-27	1.91387e-27	8.34135e-25	2.98290e-22	1.47018e-20
1.00000e-05	2.48353e-28	2.28819e-28	8.31575e-25	2.98284e-22	1.47017e-20
1.00000e-06	2.48349e-29	6.03248e-29	8.31319e-25	2.98283e-22	1.47017e-20
1.00000e-07	2.48349e-30	4.34755e-29	8.31294e-25	2.98283e-22	1.47017e-20
1.00000e-08	2.48349e-31	4.17906e-29	8.31291e-25	2.98283e-22	1.47017e-20
1.00000e-09	2.48349e-32	4.16221e-29	8.31291e-25	2.98283e-22	1.47017e-20

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	8.96088e-21	2.99513e-20	9.79135e-20	3.03313e-19	8.77092e-19
1.00000e+07	7.32650e-20	2.51325e-19	8.45192e-19	2.68021e-18	7.88422e-18
1.00000e+06	5.09050e-19	1.74189e-18	5.87142e-18	1.85734e-17	5.40562e-17
100000.	7.77422e-19	3.06467e-18	1.17265e-17	3.99108e-17	1.19277e-16
10000.0	3.17645e-19	2.12907e-18	1.05684e-17	4.05259e-17	1.27772e-16
1000.00	2.44078e-19	1.95457e-18	1.02814e-17	4.03211e-17	1.28348e-16
100.000	2.42388e-19	1.95629e-18	1.03222e-17	4.05378e-17	1.29136e-16
10.0000	2.42746e-19	1.96821e-18	1.03978e-17	4.08526e-17	1.30160e-16
1.00000	2.38925e-19	1.96248e-18	1.04006e-17	4.09067e-17	1.30381e-16
0.100000	2.38394e-19	1.96149e-18	1.04002e-17	4.09117e-17	1.30405e-16
0.0100000	2.38340e-19	1.96139e-18	1.04002e-17	4.09122e-17	1.30407e-16
0.00100000	2.38335e-19	1.96138e-18	1.04002e-17	4.09123e-17	1.30407e-16
0.000100000	2.38334e-19	1.96138e-18	1.04002e-17	4.09123e-17	1.30407e-16
1.00000e-05	2.38334e-19	1.96138e-18	1.04002e-17	4.09123e-17	1.30407e-16
1.00000e-06	2.38334e-19	1.96138e-18	1.04002e-17	4.09123e-17	1.30407e-16
1.00000e-07	2.38334e-19	1.96138e-18	1.04002e-17	4.09123e-17	1.30407e-16
1.00000e-08	2.38334e-19	1.96138e-18	1.04002e-17	4.09123e-17	1.30407e-16
1.00000e-09	2.38334e-19	1.96138e-18	1.04002e-17	4.09123e-17	1.30407e-16

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	2.36657e-18	6.00033e-18	1.44318e-17	3.32395e-17	7.39409e-17
1.00000e+07	2.15254e-17	5.49953e-17	1.32855e-16	3.06504e-16	6.81242e-16
1.00000e+06	1.44785e-16	3.60049e-16	8.40358e-16	1.85970e-15	3.93600e-15
100000.	3.17736e-16	7.69765e-16	1.72713e-15	3.64246e-15	7.30495e-15
10000.0	3.47939e-16	8.48155e-16	1.89911e-15	3.97977e-15	7.91344e-15
1000.00	3.50941e-16	8.56797e-16	1.91902e-15	4.02012e-15	7.98856e-15
100.000	3.53272e-16	8.62831e-16	1.93323e-15	4.05133e-15	8.05352e-15
10.0000	3.56090e-16	8.69675e-16	1.94836e-15	4.08244e-15	8.11381e-15
1.00000	3.56730e-16	8.71223e-16	1.95169e-15	4.08899e-15	8.12592e-15
0.100000	3.56801e-16	8.71396e-16	1.95206e-15	4.08972e-15	8.12725e-15
0.0100000	3.56808e-16	8.71414e-16	1.95210e-15	4.08979e-15	8.12739e-15
0.00100000	3.56809e-16	8.71415e-16	1.95210e-15	4.08980e-15	8.12740e-15
0.000100000	3.56809e-16	8.71416e-16	1.95210e-15	4.08980e-15	8.12740e-15
1.00000e-05	3.56809e-16	8.71416e-16	1.95210e-15	4.08980e-15	8.12740e-15
1.00000e-06	3.56809e-16	8.71416e-16	1.95210e-15	4.08980e-15	8.12740e-15
1.00000e-07	3.56809e-16	8.71416e-16	1.95210e-15	4.08980e-15	8.12740e-15
1.00000e-08	3.56809e-16	8.71416e-16	1.95210e-15	4.08980e-15	8.12740e-15
1.00000e-09	3.56809e-16	8.71416e-16	1.95210e-15	4.08980e-15	8.12740e-15

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	1.60048e-16	3.39298e-16	7.08630e-16	1.46596e-15	3.01972e-15
1.00000e+07	1.46962e-15	3.09651e-15	6.40685e-15	1.30785e-14	2.64508e-14
1.00000e+06	8.02360e-15	1.58434e-14	3.04405e-14	5.71148e-14	1.04953e-13
100000.	1.40575e-14	2.61391e-14	4.72176e-14	8.32075e-14	1.43508e-13

10000.0	1.50835e-14	2.77704e-14	4.96720e-14	8.66947e-14	1.48143e-13
1000.00	1.52150e-14	2.79905e-14	5.00277e-14	8.72545e-14	1.49007e-13
100.000	1.53445e-14	2.82395e-14	5.04923e-14	8.80984e-14	1.50503e-13
10.0000	1.54559e-14	2.84373e-14	5.08317e-14	8.86642e-14	1.51423e-13
1.00000	1.54772e-14	2.84733e-14	5.08905e-14	8.87579e-14	1.51569e-13
0.100000	1.54795e-14	2.84772e-14	5.08969e-14	8.87679e-14	1.51584e-13
0.0100000	1.54797e-14	2.84776e-14	5.08975e-14	8.87689e-14	1.51586e-13
0.00100000	1.54798e-14	2.84776e-14	5.08976e-14	8.87690e-14	1.51586e-13
0.000100000	1.54798e-14	2.84776e-14	5.08976e-14	8.87690e-14	1.51586e-13
1.00000e-05	1.54798e-14	2.84776e-14	5.08976e-14	8.87690e-14	1.51586e-13
1.00000e-06	1.54798e-14	2.84776e-14	5.08976e-14	8.87690e-14	1.51586e-13
1.00000e-07	1.54798e-14	2.84776e-14	5.08976e-14	8.87690e-14	1.51586e-13
1.00000e-08	1.54798e-14	2.84776e-14	5.08976e-14	8.87690e-14	1.51586e-13
1.00000e-09	1.54798e-14	2.84776e-14	5.08976e-14	8.87690e-14	1.51586e-13

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	6.22561e-15	1.29070e-14	2.70028e-14	5.70533e-14	1.21335e-13
1.00000e+07	5.32033e-14	1.06774e-13	2.14291e-13	4.30291e-13	8.62644e-13
1.00000e+06	1.89323e-13	3.35900e-13	5.87063e-13	1.01193e-12	1.72173e-12
100000.	2.42861e-13	4.04082e-13	6.62056e-13	1.06946e-12	1.70479e-12
10000.0	2.48482e-13	4.09922e-13	6.66144e-13	1.06758e-12	1.68879e-12
1000.00	2.49797e-13	4.11904e-13	6.69117e-13	1.07203e-12	1.69545e-12
100.000	2.52391e-13	4.16313e-13	6.76463e-13	1.08405e-12	1.71475e-12
10.0000	2.53852e-13	4.18587e-13	6.79935e-13	1.08926e-12	1.72243e-12
1.00000	2.54075e-13	4.18920e-13	6.80425e-13	1.08997e-12	1.72346e-12
0.100000	2.54098e-13	4.18954e-13	6.80477e-13	1.09004e-12	1.72356e-12
0.0100000	2.54100e-13	4.18958e-13	6.80482e-13	1.09005e-12	1.72357e-12
0.00100000	2.54101e-13	4.18958e-13	6.80482e-13	1.09005e-12	1.72357e-12
0.000100000	2.54101e-13	4.18958e-13	6.80482e-13	1.09005e-12	1.72357e-12
1.00000e-05	2.54101e-13	4.18958e-13	6.80482e-13	1.09005e-12	1.72357e-12
1.00000e-06	2.54101e-13	4.18958e-13	6.80482e-13	1.09005e-12	1.72357e-12
1.00000e-07	2.54101e-13	4.18958e-13	6.80482e-13	1.09005e-12	1.72357e-12
1.00000e-08	2.54101e-13	4.18958e-13	6.80482e-13	1.09005e-12	1.72357e-12
1.00000e-09	2.54101e-13	4.18958e-13	6.80482e-13	1.09005e-12	1.72357e-12

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	2.57689e-13	5.40359e-13	1.10500e-12	2.01524e-09	4.10697e-12
1.00000e+07	1.71788e-12	3.37230e-12	6.46767e-12	1.15392e-09	2.14561e-11
1.00000e+06	2.89257e-12	4.79749e-12	7.84870e-12	7.65174e-11	2.00320e-11
100000.	2.68337e-12	4.17187e-12	6.40664e-12	1.43931e-11	1.45400e-11
10000.0	2.63830e-12	4.07161e-12	6.20719e-12	1.09019e-11	1.38864e-11
1000.00	2.64826e-12	4.08649e-12	6.22932e-12	1.07164e-11	1.39341e-11
100.000	2.67871e-12	4.13370e-12	6.30125e-12	1.06155e-11	1.40924e-11
10.0000	2.68990e-12	4.14973e-12	6.32391e-12	1.05924e-11	1.41358e-11
1.00000	2.69134e-12	4.15176e-12	6.32669e-12	1.05898e-11	1.41409e-11
0.100000	2.69149e-12	4.15196e-12	6.32698e-12	1.05897e-11	1.41414e-11
0.0100000	2.69150e-12	4.15198e-12	6.32701e-12	1.05896e-11	1.41415e-11
0.00100000	2.69151e-12	4.15199e-12	6.32701e-12	1.05896e-11	1.41415e-11
0.000100000	2.69151e-12	4.15199e-12	6.32701e-12	1.05896e-11	1.41415e-11
1.00000e-05	2.69151e-12	4.15199e-12	6.32701e-12	1.05896e-11	1.41415e-11
1.00000e-06	2.69151e-12	4.15199e-12	6.32701e-12	1.05896e-11	1.41415e-11
1.00000e-07	2.69151e-12	4.15199e-12	6.32701e-12	1.05896e-11	1.41415e-11
1.00000e-08	2.69151e-12	4.15199e-12	6.32701e-12	1.05896e-11	1.41415e-11
1.00000e-09	2.69151e-12	4.15199e-12	6.32701e-12	1.05896e-11	1.41415e-11

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	1.85739e-05	0.00232827	0.00817748	0.0103561	0.0112749
1.00000e+07	6.72051e-07	9.58549e-05	0.00217256	0.00631685	0.00824397
1.00000e+06	1.15354e-08	2.04570e-06	0.000195667	0.00152308	0.00272000
100000.	9.54141e-10	1.34313e-07	1.74542e-05	0.000176896	0.000398605
10000.0	4.76125e-10	2.07094e-08	1.75974e-06	1.72431e-05	4.41169e-05
1000.00	4.24753e-10	9.11599e-09	2.49300e-07	2.19104e-06	7.03671e-06
100.000	4.16222e-10	7.94083e-09	1.00810e-07	7.54744e-07	3.45130e-06
10.0000	4.15259e-10	7.82403e-09	8.60298e-08	6.13493e-07	3.09995e-06
1.00000	4.15161e-10	7.81236e-09	8.45535e-08	5.99448e-07	3.06510e-06
0.100000	4.15152e-10	7.81120e-09	8.44059e-08	5.98044e-07	3.06163e-06
0.0100000	4.15151e-10	7.81108e-09	8.43911e-08	5.97905e-07	3.06128e-06
0.00100000	4.15151e-10	7.81107e-09	8.43896e-08	5.97891e-07	3.06124e-06
0.000100000	4.15151e-10	7.81107e-09	8.43895e-08	5.97889e-07	3.06124e-06
1.00000e-05	4.15151e-10	7.81107e-09	8.43895e-08	5.97889e-07	3.06124e-06
1.00000e-06	4.15151e-10	7.81107e-09	8.43895e-08	5.97889e-07	3.06124e-06
1.00000e-07	4.15151e-10	7.81107e-09	8.43895e-08	5.97889e-07	3.06124e-06
1.00000e-08	4.15151e-10	7.81107e-09	8.43895e-08	5.97889e-07	3.06124e-06
1.00000e-09	4.15151e-10	7.81107e-09	8.43895e-08	5.97889e-07	3.06124e-06

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
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1.00000e+08	0.0114370	0.0111448	0.0106533	0.0100946	0.00953574
1.00000e+07	0.00826826	0.00764993	0.00689775	0.00618211	0.00559724
1.00000e+06	0.00291305	0.00266928	0.00237518	0.00218595	0.00217698
100000.	0.000674341	0.000915622	0.00103364	0.00113127	0.00132696
10000.0	0.000142142	0.000320753	0.000445754	0.000564700	0.000799880
1000.00	3.14221e-05	9.27982e-05	0.000171287	0.000311589	0.000596158
100.000	1.42011e-05	4.52463e-05	0.000115237	0.000266416	0.000564923
10.0000	1.23555e-05	3.99793e-05	0.000109198	0.000261781	0.000561865
1.00000	1.21758e-05	3.94823e-05	0.000108634	0.000261350	0.000561583
0.100000	1.21581e-05	3.94345e-05	0.000108581	0.000261310	0.000561556
0.0100000	1.21563e-05	3.94298e-05	0.000108575	0.000261306	0.000561554
0.00100000	1.21561e-05	3.94294e-05	0.000108575	0.000261306	0.000561554
0.000100000	1.21561e-05	3.94293e-05	0.000108575	0.000261306	0.000561554
1.00000e-05	1.21561e-05	3.94293e-05	0.000108575	0.000261306	0.000561554
1.00000e-06	1.21561e-05	3.94293e-05	0.000108575	0.000261306	0.000561554
1.00000e-07	1.21561e-05	3.94293e-05	0.000108575	0.000261306	0.000561554
1.00000e-08	1.21561e-05	3.94293e-05	0.000108575	0.000261306	0.000561554
1.00000e-09	1.21561e-05	3.94293e-05	0.000108575	0.000261306	0.000561554

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.00901842	0.00857622	0.247516	0.208023	0.177313
1.00000e+07	0.00522120	0.00512429	0.0950492	0.0759413	0.0697887
1.00000e+06	0.00241949	0.00298165	0.0233463	0.0268580	0.0373234
100000.	0.00173136	0.00244046	0.0105796	0.0184813	0.0321561
10000.0	0.00126564	0.00205369	0.00754092	0.0168393	0.0313355
1000.00	0.00111472	0.00194864	0.00700288	0.0166159	0.0312410
100.000	0.00109456	0.00193617	0.00694273	0.0165930	0.0312317
10.0000	0.00109266	0.00193503	0.00693684	0.0165908	0.0312308
1.00000	0.00109249	0.00193493	0.00693624	0.0165905	0.0312307
0.100000	0.00109247	0.00193492	0.00693618	0.0165905	0.0312307
0.0100000	0.00109247	0.00193492	0.00693618	0.0165905	0.0312307
0.00100000	0.00109247	0.00193492	0.00693618	0.0165905	0.0312307
0.000100000	0.00109247	0.00193492	0.00693618	0.0165905	0.0312307
1.00000e-05	0.00109247	0.00193492	0.00693618	0.0165905	0.0312307
1.00000e-06	0.00109247	0.00193492	0.00693618	0.0165905	0.0312307
1.00000e-07	0.00109247	0.00193492	0.00693618	0.0165905	0.0312307
1.00000e-08	0.00109247	0.00193492	0.00693618	0.0165905	0.0312307
1.00000e-09	0.00109247	0.00193492	0.00693618	0.0165905	0.0312307

Benzene+cycloprop-1-enylidene

Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	5.02895e-84	9.28861e-56	1.10663e-41	2.85507e-33	1.09842e-27
1.00000e+07	5.02895e-84	9.28861e-56	1.10663e-41	2.85507e-33	1.09842e-27
1.00000e+06	5.02895e-84	9.28861e-56	1.10663e-41	2.85507e-33	1.09842e-27
100000.	5.02895e-84	9.28861e-56	1.10663e-41	2.85507e-33	1.09842e-27
10000.0	5.02895e-84	9.28861e-56	1.10663e-41	2.85507e-33	1.09842e-27
1000.00	5.02895e-84	9.28861e-56	1.10663e-41	2.85507e-33	1.09842e-27
100.000	5.02895e-84	9.28861e-56	1.10663e-41	2.85507e-33	1.09842e-27
10.0000	5.02895e-84	9.28861e-56	1.10663e-41	2.85507e-33	1.09842e-27
1.00000	5.02895e-84	9.28861e-56	1.10663e-41	2.85507e-33	1.09842e-27
0.100000	5.02895e-84	9.28861e-56	1.10663e-41	2.85507e-33	1.09842e-27
0.0100000	5.02895e-84	9.28861e-56	1.10663e-41	2.85507e-33	1.09842e-27
0.00100000	5.02895e-84	9.28861e-56	1.10663e-41	2.85507e-33	1.09842e-27
0.000100000	5.02895e-84	9.28861e-56	1.10663e-41	2.85507e-33	1.09842e-27
1.00000e-05	5.02895e-84	9.28861e-56	1.10663e-41	2.85507e-33	1.09842e-27
1.00000e-06	5.02895e-84	9.28861e-56	1.10663e-41	2.85507e-33	1.09842e-27
1.00000e-07	5.02895e-84	9.28861e-56	1.10663e-41	2.85507e-33	1.09842e-27
1.00000e-08	5.02895e-84	9.28861e-56	1.10663e-41	2.85507e-33	1.09842e-27
1.00000e-09	5.02895e-84	9.28861e-56	1.10663e-41	2.85507e-33	1.09842e-27

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	1.03290e-23	9.59328e-21	1.90970e-18	1.29619e-16	4.02908e-15
1.00000e+07	1.03290e-23	9.59328e-21	1.90970e-18	1.29619e-16	4.02908e-15
1.00000e+06	1.03290e-23	9.59328e-21	1.90970e-18	1.29619e-16	4.02908e-15
100000.	1.03290e-23	9.59328e-21	1.90970e-18	1.29619e-16	4.02908e-15
10000.0	1.03290e-23	9.59328e-21	1.90970e-18	1.29619e-16	4.02908e-15
1000.00	1.03290e-23	9.59328e-21	1.90970e-18	1.29619e-16	4.02908e-15
100.000	1.03290e-23	9.59328e-21	1.90970e-18	1.29619e-16	4.02908e-15
10.0000	1.03290e-23	9.59328e-21	1.90970e-18	1.29619e-16	4.02908e-15
1.00000	1.03290e-23	9.59328e-21	1.90970e-18	1.29619e-16	4.02908e-15
0.100000	1.03290e-23	9.59328e-21	1.90970e-18	1.29619e-16	4.02908e-15
0.0100000	1.03290e-23	9.59328e-21	1.90970e-18	1.29619e-16	4.02908e-15
0.00100000	1.03290e-23	9.59328e-21	1.90970e-18	1.29619e-16	4.02908e-15
0.000100000	1.03290e-23	9.59328e-21	1.90970e-18	1.29619e-16	4.02908e-15
1.00000e-05	1.03290e-23	9.59328e-21	1.90970e-18	1.29619e-16	4.02908e-15

0.0100000	1.67993e-06	2.67442e-06	4.11523e-06	6.45054e-06	9.49359e-06
0.00100000	1.67993e-06	2.67442e-06	4.11523e-06	6.45054e-06	9.49359e-06
0.000100000	1.67993e-06	2.67442e-06	4.11523e-06	6.45054e-06	9.49359e-06
1.00000e-05	1.67993e-06	2.67442e-06	4.11523e-06	6.45054e-06	9.49359e-06
1.00000e-06	1.67993e-06	2.67442e-06	4.11523e-06	6.45054e-06	9.49359e-06
1.00000e-07	1.67993e-06	2.67442e-06	4.11523e-06	6.45054e-06	9.49359e-06
1.00000e-08	1.67993e-06	2.67442e-06	4.11523e-06	6.45054e-06	9.49359e-06
1.00000e-09	1.67993e-06	2.67442e-06	4.11523e-06	6.45054e-06	9.49359e-06

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	0.000130914	0.000812306	0.00276289	0.00662918	0.0127462
1.00000e+07	0.000130914	0.000812306	0.00276289	0.00662926	0.0127469
1.00000e+06	0.000130914	0.000812306	0.00276289	0.00662927	0.0127470
100000.	0.000130914	0.000812306	0.00276289	0.00662927	0.0127470
10000.0	0.000130914	0.000812306	0.00276289	0.00662927	0.0127470
1000.00	0.000130914	0.000812306	0.00276289	0.00662927	0.0127470
100.000	0.000130914	0.000812306	0.00276289	0.00662927	0.0127470
10.0000	0.000130914	0.000812306	0.00276289	0.00662927	0.0127470
1.00000	0.000130914	0.000812306	0.00276289	0.00662927	0.0127470
0.100000	0.000130914	0.000812306	0.00276289	0.00662927	0.0127470
0.0100000	0.000130914	0.000812306	0.00276289	0.00662927	0.0127470
0.00100000	0.000130914	0.000812306	0.00276289	0.00662927	0.0127470
0.000100000	0.000130914	0.000812306	0.00276289	0.00662927	0.0127470
1.00000e-05	0.000130914	0.000812306	0.00276289	0.00662927	0.0127470
1.00000e-06	0.000130914	0.000812306	0.00276289	0.00662927	0.0127470
1.00000e-07	0.000130914	0.000812306	0.00276289	0.00662927	0.0127470
1.00000e-08	0.000130914	0.000812306	0.00276289	0.00662927	0.0127470
1.00000e-09	0.000130914	0.000812306	0.00276289	0.00662927	0.0127470

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.0211033	0.0314341	0.0433363	0.0563700	0.0701208
1.00000e+07	0.0211052	0.0314376	0.0433418	0.0563775	0.0701301
1.00000e+06	0.0211054	0.0314380	0.0433424	0.0563784	0.0701312
100000.	0.0211054	0.0314381	0.0433425	0.0563785	0.0701313
10000.0	0.0211054	0.0314381	0.0433425	0.0563786	0.0701313
1000.00	0.0211054	0.0314381	0.0433425	0.0563786	0.0701313
100.000	0.0211054	0.0314381	0.0433425	0.0563786	0.0701313
10.0000	0.0211054	0.0314381	0.0433425	0.0563786	0.0701313
1.00000	0.0211054	0.0314381	0.0433425	0.0563786	0.0701313
0.100000	0.0211054	0.0314381	0.0433425	0.0563786	0.0701313
0.0100000	0.0211054	0.0314381	0.0433425	0.0563786	0.0701313
0.00100000	0.0211054	0.0314381	0.0433425	0.0563786	0.0701313
0.000100000	0.0211054	0.0314381	0.0433425	0.0563786	0.0701313
1.00000e-05	0.0211054	0.0314381	0.0433425	0.0563786	0.0701313
1.00000e-06	0.0211054	0.0314381	0.0433425	0.0563786	0.0701313
1.00000e-07	0.0211054	0.0314381	0.0433425	0.0563786	0.0701313
1.00000e-08	0.0211054	0.0314381	0.0433425	0.0563786	0.0701313
1.00000e-09	0.0211054	0.0314381	0.0433425	0.0563786	0.0701313

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.0842313	0.0984117	0.129819	0.160659	0.187221
1.00000e+07	0.0842416	0.0984211	0.131427	0.162533	0.189181
1.00000e+06	0.0842428	0.0984221	0.131600	0.162733	0.189389
100000.	0.0842429	0.0984222	0.131618	0.162755	0.189411
10000.0	0.0842429	0.0984223	0.131621	0.162758	0.189414
1000.00	0.0842429	0.0984223	0.131621	0.162758	0.189414
100.000	0.0842429	0.0984223	0.131621	0.162758	0.189414
10.0000	0.0842429	0.0984223	0.131621	0.162758	0.189414
1.00000	0.0842429	0.0984223	0.131621	0.162758	0.189414
0.100000	0.0842429	0.0984223	0.131621	0.162758	0.189414
0.0100000	0.0842429	0.0984223	0.131621	0.162758	0.189414
0.00100000	0.0842429	0.0984223	0.131621	0.162758	0.189414
0.000100000	0.0842429	0.0984223	0.131621	0.162758	0.189414
1.00000e-05	0.0842429	0.0984223	0.131621	0.162758	0.189414
1.00000e-06	0.0842429	0.0984223	0.131621	0.162758	0.189414
1.00000e-07	0.0842429	0.0984223	0.131621	0.162758	0.189414
1.00000e-08	0.0842429	0.0984223	0.131621	0.162758	0.189414
1.00000e-09	0.0842429	0.0984223	0.131621	0.162758	0.189414

rad19syn

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	0.135199	0.0204673	0.00381482	0.000841486	0.000213569
1.00000e+07	1.83256e-07	1.18958e-11	2.13874e-14	2.47013e-16	9.17840e-18
1.00000e+06	2.49753e-23	1.10281e-26	2.67716e-28	2.20322e-29	4.46143e-30
100000.	7.76122e-33	7.02180e-34	3.71390e-34	3.53820e-34	4.46513e-34

10000.0	2.17008e-35	1.05395e-35	1.00469e-35	1.30002e-35	1.98236e-35
1000.00	1.43952e-36	8.58166e-37	8.74800e-37	1.17076e-36	1.82213e-36
100.000	1.38057e-37	8.40547e-38	8.62695e-38	1.15850e-37	1.80678e-37
10.0000	1.37480e-38	8.38803e-39	8.61493e-39	1.15728e-38	1.80525e-38
1.00000	1.37423e-39	8.38629e-40	8.61373e-40	1.15716e-39	1.80509e-39
0.100000	1.37417e-40	8.38612e-41	8.61361e-41	1.15715e-40	1.80508e-40
0.0100000	1.37416e-41	8.38610e-42	8.61360e-42	1.15714e-41	1.80508e-41
0.00100000	1.37416e-42	8.38610e-43	8.61360e-43	1.15714e-42	1.80508e-42
0.000100000	1.37416e-43	8.38610e-44	8.61360e-44	1.15714e-43	1.80508e-43
1.00000e-05	1.37416e-44	8.38610e-45	8.61360e-45	1.15714e-44	1.80508e-44
1.00000e-06	1.37416e-45	8.38610e-46	8.61360e-46	1.15714e-45	1.80508e-45
1.00000e-07	1.37416e-46	8.38610e-47	8.61360e-47	1.15714e-46	1.80508e-46
1.00000e-08	1.37416e-47	8.38610e-48	8.61360e-48	1.15714e-47	1.80508e-47
1.00000e-09	1.37416e-48	8.38610e-49	8.61360e-49	1.15714e-48	1.80508e-48

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	6.10776e-05	1.93729e-05	6.73286e-06	2.54000e-06	1.03264e-06
1.00000e+07	7.51663e-19	1.08336e-19	2.38498e-20	7.30432e-21	2.91880e-21
1.00000e+06	1.95173e-30	1.43904e-30	1.43159e-30	1.71375e-30	2.34440e-30
100000.	6.58584e-34	1.07216e-33	1.87574e-33	3.48356e-33	6.83137e-33
10000.0	3.32731e-35	5.95243e-35	1.11926e-34	2.20102e-34	4.52245e-34
1000.00	3.10083e-36	5.60285e-36	1.06154e-35	2.10002e-35	4.33593e-35
100.000	3.07897e-37	5.56894e-37	1.05592e-36	2.09016e-36	4.31767e-36
10.0000	3.07679e-38	5.56556e-38	1.05536e-37	2.08918e-37	4.31585e-37
1.00000	3.07657e-39	5.56522e-39	1.05531e-38	2.08908e-38	4.31566e-38
0.100000	3.07655e-40	5.56519e-40	1.05530e-39	2.08907e-39	4.31565e-39
0.0100000	3.07655e-41	5.56519e-41	1.05530e-40	2.08907e-40	4.31564e-40
0.00100000	3.07655e-42	5.56519e-42	1.05530e-41	2.08907e-41	4.31564e-41
0.000100000	3.07655e-43	5.56519e-43	1.05530e-42	2.08907e-42	4.31564e-42
1.00000e-05	3.07655e-44	5.56519e-44	1.05530e-43	2.08907e-43	4.31564e-43
1.00000e-06	3.07655e-45	5.56519e-45	1.05530e-44	2.08907e-44	4.31564e-44
1.00000e-07	3.07655e-46	5.56519e-46	1.05530e-45	2.08907e-45	4.31564e-45
1.00000e-08	3.07655e-47	5.56519e-47	1.05530e-46	2.08907e-46	4.31564e-46
1.00000e-09	3.07655e-48	5.56519e-48	1.05530e-47	2.08907e-47	4.31564e-47

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	4.49890e-07	2.09128e-07	1.03374e-07	5.41996e-08	3.00842e-08
1.00000e+07	1.45421e-21	8.74106e-22	6.18746e-22	5.06572e-22	4.73144e-22
1.00000e+06	3.57288e-30	5.97957e-30	1.08912e-29	2.14579e-29	4.55295e-29
100000.	1.41177e-32	3.07321e-32	7.04817e-32	1.70371e-31	4.34229e-31
10000.0	9.71731e-34	2.18658e-33	5.16045e-33	1.27909e-32	3.33334e-32
1000.00	9.35424e-35	2.11210e-34	4.99941e-34	1.24238e-33	3.24506e-33
100.000	9.31861e-36	2.10478e-35	4.98356e-35	1.23876e-34	3.23634e-34
10.0000	9.31505e-37	2.10405e-36	4.98198e-36	1.23840e-35	3.23547e-35
1.00000	9.31470e-38	2.10398e-37	4.98182e-37	1.23836e-36	3.23539e-36
0.100000	9.31466e-39	2.10397e-38	4.98181e-38	1.23836e-37	3.23538e-37
0.0100000	9.31466e-40	2.10397e-39	4.98180e-39	1.23836e-38	3.23538e-38
0.00100000	9.31466e-41	2.10397e-40	4.98180e-40	1.23836e-39	3.23538e-39
0.000100000	9.31466e-42	2.10397e-41	4.98180e-41	1.23836e-40	3.23538e-40
1.00000e-05	9.31466e-43	2.10397e-42	4.98180e-42	1.23836e-41	3.23538e-41
1.00000e-06	9.31466e-44	2.10397e-43	4.98180e-43	1.23836e-42	3.23538e-42
1.00000e-07	9.31466e-45	2.10397e-44	4.98180e-44	1.23836e-43	3.23538e-43
1.00000e-08	9.31466e-46	2.10397e-45	4.98180e-45	1.23836e-44	3.23538e-44
1.00000e-09	9.31466e-47	2.10397e-46	4.98180e-46	1.23836e-45	3.23538e-45

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	1.76540e-08	1.09420e-08	7.15895e-09	4.94259e-09	3.60047e-09
1.00000e+07	4.98787e-22	5.88357e-22	7.70930e-22	1.11509e-21	1.77054e-21
1.00000e+06	1.03690e-28	2.52778e-28	6.58073e-28	1.82551e-27	5.38418e-27
100000.	1.16727e-30	3.30969e-30	9.89671e-30	3.11946e-29	1.03563e-28
10000.0	9.14047e-32	2.63862e-31	8.01975e-31	2.56581e-30	8.63574e-30
1000.00	8.91654e-33	2.57870e-32	7.85071e-32	2.51555e-31	8.47842e-31
100.000	8.89442e-34	2.57278e-33	7.83398e-33	2.51057e-32	8.46283e-32
10.0000	8.89221e-35	2.57219e-34	7.83231e-34	2.51007e-33	8.46127e-33
1.00000	8.89198e-36	2.57213e-35	7.83214e-35	2.51002e-34	8.46112e-34
0.100000	8.89196e-37	2.57212e-36	7.83213e-36	2.51002e-35	8.46110e-35
0.0100000	8.89196e-38	2.57212e-37	7.83212e-37	2.51002e-36	8.46110e-36
0.00100000	8.89196e-39	2.57212e-38	7.83212e-38	2.51002e-37	8.46110e-37
0.000100000	8.89196e-40	2.57212e-39	7.83212e-39	2.51002e-38	8.46110e-38
1.00000e-05	8.89196e-41	2.57212e-40	7.83212e-40	2.51002e-39	8.46110e-39
1.00000e-06	8.89196e-42	2.57212e-41	7.83212e-41	2.51002e-40	8.46110e-40
1.00000e-07	8.89196e-43	2.57212e-42	7.83212e-42	2.51002e-41	8.46110e-41
1.00000e-08	8.89196e-44	2.57212e-43	7.83212e-43	2.51002e-42	8.46110e-42
1.00000e-09	8.89196e-45	2.57212e-44	7.83212e-44	2.51002e-43	8.46110e-43

Pa\K	220.000	230.000	240.000	250.000	260.000
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1.00000e+08	2.76735e-09	2.24439e-09	1.92079e-09	1.73461e-09	1.65268e-09
1.00000e+07	3.07022e-21	5.78657e-21	1.17987e-20	2.59053e-20	6.09578e-20
1.00000e+06	1.68451e-26	5.57631e-26	1.94769e-25	7.15505e-25	2.75469e-24
100000.	3.61696e-28	1.32679e-27	5.10125e-27	2.05050e-26	8.59045e-26
10000.0	3.05447e-29	1.13368e-28	4.40657e-28	1.78935e-27	7.56793e-27
1000.00	3.00269e-30	1.11579e-29	4.34185e-29	1.76489e-28	7.47167e-28
100.000	2.99756e-31	1.11401e-30	4.33542e-30	1.76246e-29	7.46211e-29
10.0000	2.99704e-32	1.11383e-31	4.33477e-31	1.76222e-30	7.46115e-30
1.00000	2.99699e-33	1.11382e-32	4.33471e-32	1.76220e-31	7.46105e-31
0.100000	2.99699e-34	1.11381e-33	4.33470e-33	1.76219e-32	7.46104e-32
0.0100000	2.99699e-35	1.11381e-34	4.33470e-34	1.76219e-33	7.46104e-33
0.00100000	2.99699e-36	1.11381e-35	4.33470e-35	1.76219e-34	7.46104e-34
0.000100000	2.99699e-37	1.11381e-36	4.33470e-36	1.76219e-35	7.46104e-35
1.00000e-05	2.99699e-38	1.11381e-37	4.33470e-37	1.76219e-36	7.46104e-36
1.00000e-06	2.99699e-39	1.11381e-38	4.33470e-38	1.76219e-37	7.46104e-37
1.00000e-07	2.99699e-40	1.11381e-39	4.33470e-39	1.76219e-38	7.46104e-38
1.00000e-08	2.99699e-41	1.11381e-40	4.33470e-40	1.76219e-39	7.46104e-39
1.00000e-09	2.99699e-42	1.11381e-41	4.33470e-41	1.76219e-40	7.46104e-40

Pa\K | 270.000 280.000 290.000 300.000 310.000

1.00000e+08	1.66061e-09	1.75856e-09	1.96078e-09	1.33247e-08	2.82833e-09
1.00000e+07	1.52975e-19	4.07303e-19	1.14434e-18	5.88244e-15	1.03678e-17
1.00000e+06	1.10704e-23	4.62335e-23	1.99681e-22	1.85609e-17	4.03150e-21
100000.	3.73763e-25	1.68201e-24	7.79336e-24	1.18375e-18	1.78884e-22
10000.0	3.32212e-26	1.50750e-25	7.03943e-25	1.12973e-19	1.63881e-23
1000.00	3.28282e-27	1.49092e-26	6.96753e-26	1.12445e-20	1.62439e-24
100.000	3.27891e-28	1.48927e-27	6.96036e-27	1.12392e-21	1.62295e-25
10.0000	3.27852e-29	1.48911e-28	6.95965e-28	1.12387e-22	1.62281e-26
1.00000	3.27848e-30	1.48910e-29	6.95958e-29	1.12386e-23	1.62279e-27
0.100000	3.27847e-31	1.48909e-30	6.95957e-30	1.12386e-24	1.62279e-28
0.0100000	3.27847e-32	1.48909e-31	6.95957e-31	1.12386e-25	1.62279e-29
0.00100000	3.27847e-33	1.48909e-32	6.95957e-32	1.12386e-26	1.62279e-30
0.000100000	3.27847e-34	1.48909e-33	6.95957e-33	1.12386e-27	1.62279e-31
1.00000e-05	3.27847e-35	1.48909e-34	6.95957e-34	1.12386e-28	1.62279e-32
1.00000e-06	3.27847e-36	1.48909e-35	6.95957e-35	1.12386e-29	1.62279e-33
1.00000e-07	3.27847e-37	1.48909e-36	6.95957e-36	1.12386e-30	1.62279e-34
1.00000e-08	3.27847e-38	1.48909e-37	6.95957e-37	1.12386e-31	1.62279e-35
1.00000e-09	3.27847e-39	1.48909e-38	6.95957e-38	1.12386e-32	1.62279e-36

Pa\K | 400.000 500.000 600.000 700.000 800.000

1.00000e+08	7.76055e-07	5.51595e-05	0.000639952	0.00143344	0.00166275
1.00000e+07	1.26767e-10	3.14785e-07	2.05989e-05	9.88518e-05	0.000149955
1.00000e+06	2.55606e-12	1.60139e-08	1.57894e-06	8.99404e-06	1.45098e-05
100000.	2.09185e-13	1.47382e-09	1.52861e-07	8.89061e-07	1.44497e-06
10000.0	2.04905e-14	1.46129e-10	1.52354e-08	8.88007e-08	1.44435e-07
1000.00	2.04481e-15	1.46005e-11	1.52303e-09	8.87901e-09	1.44429e-08
100.000	2.04439e-16	1.45992e-12	1.52297e-10	8.87890e-10	1.44428e-09
10.0000	2.04435e-17	1.45991e-13	1.52297e-11	8.87889e-11	1.44428e-10
1.00000	2.04434e-18	1.45990e-14	1.52297e-12	8.87889e-12	1.44428e-11
0.100000	2.04434e-19	1.45990e-15	1.52297e-13	8.87889e-13	1.44428e-12
0.0100000	2.04434e-20	1.45990e-16	1.52297e-14	8.87889e-14	1.44428e-13
0.00100000	2.04434e-21	1.45990e-17	1.52297e-15	8.87889e-15	1.44428e-14
0.000100000	2.04434e-22	1.45990e-18	1.52297e-16	8.87889e-16	1.44428e-15
1.00000e-05	2.04434e-23	1.45990e-19	1.52297e-17	8.87889e-17	1.44428e-16
1.00000e-06	2.04434e-24	1.45990e-20	1.52297e-18	8.87889e-18	1.44428e-17
1.00000e-07	2.04434e-25	1.45990e-21	1.52297e-19	8.87889e-19	1.44428e-18
1.00000e-08	2.04434e-26	1.45990e-22	1.52297e-20	8.87889e-20	1.44428e-19
1.00000e-09	2.04434e-27	1.45990e-23	1.52297e-21	8.87889e-21	1.44428e-20

Pa\K | 900.000 1000.00 1100.00 1200.00 1300.00

1.00000e+08	0.00162062	0.00150175	0.00135275	0.00120398	0.00106810
1.00000e+07	0.000154544	0.000144381	0.000129962	0.000115316	0.000101924
1.00000e+06	1.52081e-05	1.42681e-05	1.28584e-05	1.14127e-05	1.00872e-05
100000.	1.51772e-06	1.42471e-06	1.28418e-06	1.13986e-06	1.00749e-06
10000.0	1.51739e-07	1.42448e-07	1.28400e-07	1.13972e-07	1.00737e-07
1000.00	1.51736e-08	1.42446e-08	1.28398e-08	1.13970e-08	1.00735e-08
100.000	1.51736e-09	1.42446e-09	1.28398e-09	1.13970e-09	1.00735e-09
10.0000	1.51736e-10	1.42446e-10	1.28398e-10	1.13970e-10	1.00735e-10
1.00000	1.51736e-11	1.42446e-11	1.28398e-11	1.13970e-11	1.00735e-11
0.100000	1.51736e-12	1.42446e-12	1.28398e-12	1.13970e-12	1.00735e-12
0.0100000	1.51736e-13	1.42446e-13	1.28398e-13	1.13970e-13	1.00735e-13
0.00100000	1.51736e-14	1.42446e-14	1.28398e-14	1.13970e-14	1.00735e-14
0.000100000	1.51736e-15	1.42446e-15	1.28398e-15	1.13970e-15	1.00735e-15
1.00000e-05	1.51736e-16	1.42446e-16	1.28398e-16	1.13970e-16	1.00735e-16
1.00000e-06	1.51736e-17	1.42446e-17	1.28398e-17	1.13970e-17	1.00735e-17
1.00000e-07	1.51736e-18	1.42446e-18	1.28398e-18	1.13970e-18	1.00735e-18
1.00000e-08	1.51736e-19	1.42446e-19	1.28398e-19	1.13970e-19	1.00735e-19

1.00000e-09 | 1.51736e-20 1.42446e-20 1.28398e-20 1.13970e-20 1.00735e-20

Pa\K | 1400.00 1500.00 1750.00 2000.00 2250.00

	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.000948439	0.000844602	N/A	N/A	N/A
1.00000e+07	9.01721e-05	8.00275e-05	N/A	N/A	N/A
1.00000e+06	8.92320e-06	7.91842e-06	N/A	N/A	N/A
100000.	8.91242e-07	7.90885e-07	N/A	N/A	N/A
10000.0	8.91130e-08	7.90785e-08	N/A	N/A	N/A
1000.00	8.91116e-09	7.90771e-09	N/A	N/A	N/A
100.000	8.91116e-10	7.90771e-10	N/A	N/A	N/A
10.0000	8.91116e-11	7.90771e-11	N/A	N/A	N/A
1.00000	8.91116e-12	7.90771e-12	N/A	N/A	N/A
0.100000	8.91116e-13	7.90771e-13	N/A	N/A	N/A
0.0100000	8.91116e-14	7.90771e-14	N/A	N/A	N/A
0.00100000	8.91116e-15	7.90771e-15	N/A	N/A	N/A
0.000100000	8.91116e-16	7.90771e-16	N/A	N/A	N/A
1.00000e-05	8.91116e-17	7.90771e-17	N/A	N/A	N/A
1.00000e-06	8.91116e-18	7.90771e-18	N/A	N/A	N/A
1.00000e-07	8.91116e-19	7.90771e-19	N/A	N/A	N/A
1.00000e-08	8.91116e-20	7.90771e-20	N/A	N/A	N/A
1.00000e-09	8.91116e-21	7.90771e-21	N/A	N/A	N/A

PhcycC3H3_A+H

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Pa\K | 20.0000 30.0000 40.0000 50.0000 60.0000

	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	1.00649e-16	2.17924e-16	3.72484e-16	5.87159e-16	8.86760e-16
1.00000e+07	9.74627e-16	2.08557e-15	3.53883e-15	5.54780e-15	8.34447e-15
1.00000e+06	9.22155e-15	1.94934e-14	3.25577e-14	5.01459e-14	7.40071e-14
100000.	7.58459e-14	1.37771e-13	2.02581e-13	2.79026e-13	3.72197e-13
10000.0	2.80467e-13	3.54252e-13	4.27043e-13	5.15990e-13	6.25892e-13
1000.00	3.84872e-13	4.20664e-13	4.80519e-13	5.64106e-13	6.71911e-13
100.000	3.99919e-13	4.29025e-13	4.87148e-13	5.70236e-13	6.78092e-13
10.0000	4.02654e-13	4.31863e-13	4.90598e-13	5.74524e-13	6.83428e-13
1.00000	4.06060e-13	4.35577e-13	4.94735e-13	5.79234e-13	6.88848e-13
0.100000	4.09821e-13	4.39781e-13	4.99288e-13	5.84117e-13	6.94064e-13
0.0100000	4.12988e-13	4.42056e-13	5.01131e-13	5.85721e-13	6.95526e-13
0.00100000	4.13603e-13	4.42384e-13	5.01367e-13	5.85915e-13	6.95696e-13
0.000100000	4.13670e-13	4.42418e-13	5.01392e-13	5.85935e-13	6.95713e-13
1.00000e-05	4.13677e-13	4.42422e-13	5.01394e-13	5.85937e-13	6.95715e-13
1.00000e-06	4.13677e-13	4.42422e-13	5.01394e-13	5.85937e-13	6.95715e-13
1.00000e-07	4.13677e-13	4.42422e-13	5.01394e-13	5.85937e-13	6.95715e-13
1.00000e-08	4.13677e-13	4.42422e-13	5.01394e-13	5.85937e-13	6.95715e-13
1.00000e-09	4.13677e-13	4.42422e-13	5.01394e-13	5.85937e-13	6.95715e-13

Pa\K | 70.0000 80.0000 90.0000 100.0000 110.0000

	70.0000	80.0000	90.0000	100.0000	110.0000
1.00000e+08	1.30593e-15	1.89459e-15	2.72513e-15	3.90398e-15	5.58978e-15
1.00000e+07	1.22538e-14	1.77436e-14	2.54912e-14	3.64898e-14	5.22168e-14
1.00000e+06	1.06504e-13	1.50919e-13	2.11833e-13	2.95695e-13	4.11699e-13
100000.	4.87844e-13	6.33212e-13	8.17629e-13	1.05341e-12	1.35712e-12
10000.0	7.62517e-13	9.33426e-13	1.14840e-12	1.42038e-12	1.76675e-12
1000.00	8.08299e-13	9.80269e-13	1.19736e-12	1.47241e-12	1.82282e-12
100.000	8.14906e-13	9.87646e-13	1.20588e-12	1.48254e-12	1.83516e-12
10.0000	8.21534e-13	9.95869e-13	1.21608e-12	1.49520e-12	1.85090e-12
1.00000	8.27811e-13	1.00317e-12	1.22461e-12	1.50519e-12	1.86265e-12
0.100000	8.33379e-13	1.00912e-12	1.23098e-12	1.51204e-12	1.87002e-12
0.0100000	8.34753e-13	1.01044e-12	1.23228e-12	1.51332e-12	1.87132e-12
0.00100000	8.34908e-13	1.01059e-12	1.23242e-12	1.51346e-12	1.87146e-12
0.000100000	8.34924e-13	1.01060e-12	1.23243e-12	1.51348e-12	1.87147e-12
1.00000e-05	8.34925e-13	1.01061e-12	1.23243e-12	1.51348e-12	1.87147e-12
1.00000e-06	8.34926e-13	1.01061e-12	1.23243e-12	1.51348e-12	1.87147e-12
1.00000e-07	8.34926e-13	1.01061e-12	1.23243e-12	1.51348e-12	1.87147e-12
1.00000e-08	8.34926e-13	1.01061e-12	1.23243e-12	1.51348e-12	1.87147e-12
1.00000e-09	8.34926e-13	1.01061e-12	1.23243e-12	1.51348e-12	1.87147e-12

Pa\K | 120.0000 130.0000 140.0000 150.0000 160.0000

	120.0000	130.0000	140.0000	150.0000	160.0000
1.00000e+08	8.02209e-15	1.15666e-14	1.67871e-14	2.45613e-14	3.62695e-14
1.00000e+07	7.48953e-14	1.07905e-13	1.56428e-13	2.28477e-13	3.36537e-13
1.00000e+06	5.73050e-13	7.98817e-13	1.11661e-12	1.56644e-12	2.20633e-12
100000.	1.75133e-12	2.26688e-12	2.94604e-12	3.84669e-12	5.04808e-12
10000.0	2.21112e-12	2.78560e-12	3.53390e-12	4.51550e-12	5.81125e-12
1000.00	2.27226e-12	2.85300e-12	3.60895e-12	4.59985e-12	5.90691e-12
100.000	2.28762e-12	2.87248e-12	3.63408e-12	4.63279e-12	5.95066e-12
10.0000	2.30724e-12	2.89700e-12	3.66485e-12	4.67156e-12	5.99971e-12
1.00000	2.32110e-12	2.91344e-12	3.68443e-12	4.69497e-12	6.02785e-12
0.100000	2.32907e-12	2.92209e-12	3.69385e-12	4.70529e-12	6.03919e-12
0.0100000	2.33040e-12	2.92345e-12	3.69526e-12	4.70677e-12	6.04075e-12

0.00100000	2.33053e-12	2.92359e-12	3.69541e-12	4.70692e-12	6.04091e-12
0.00100000	2.33055e-12	2.92360e-12	3.69543e-12	4.70694e-12	6.04093e-12
1.00000e-05	2.33055e-12	2.92361e-12	3.69543e-12	4.70694e-12	6.04093e-12
1.00000e-06	2.33055e-12	2.92361e-12	3.69543e-12	4.70694e-12	6.04093e-12
1.00000e-07	2.33055e-12	2.92361e-12	3.69543e-12	4.70694e-12	6.04093e-12
1.00000e-08	2.33055e-12	2.92361e-12	3.69543e-12	4.70694e-12	6.04093e-12
1.00000e-09	2.33055e-12	2.92361e-12	3.69543e-12	4.70694e-12	6.04093e-12

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	5.41041e-14	8.15903e-14	1.24473e-13	1.92260e-13	3.00990e-13
1.00000e+07	5.00216e-13	7.50581e-13	1.13730e-12	1.74067e-12	2.69193e-12
1.00000e+06	3.12029e-12	4.42987e-12	6.31050e-12	9.01490e-12	1.29062e-11
100000.	6.65844e-12	8.82545e-12	1.17500e-11	1.57049e-11	2.10593e-11
10000.0	7.53086e-12	9.82295e-12	1.28885e-11	1.69983e-11	2.25170e-11
1000.00	7.64030e-12	9.94922e-12	1.30353e-11	1.71706e-11	2.27208e-11
100.000	7.69909e-12	1.00290e-11	1.31444e-11	1.73206e-11	2.29279e-11
10.0000	7.76139e-12	1.01084e-11	1.32459e-11	1.74507e-11	2.30949e-11
1.00000	7.79535e-12	1.01496e-11	1.32959e-11	1.75117e-11	2.31693e-11
0.100000	7.80787e-12	1.01635e-11	1.33114e-11	1.75290e-11	2.31888e-11
0.0100000	7.80954e-12	1.01653e-11	1.33133e-11	1.75311e-11	2.31911e-11
0.00100000	7.80971e-12	1.01654e-11	1.33135e-11	1.75313e-11	2.31914e-11
0.000100000	7.80973e-12	1.01655e-11	1.33135e-11	1.75314e-11	2.31914e-11
1.00000e-05	7.80973e-12	1.01655e-11	1.33135e-11	1.75314e-11	2.31914e-11
1.00000e-06	7.80973e-12	1.01655e-11	1.33135e-11	1.75314e-11	2.31914e-11
1.00000e-07	7.80973e-12	1.01655e-11	1.33135e-11	1.75314e-11	2.31914e-11
1.00000e-08	7.80973e-12	1.01655e-11	1.33135e-11	1.75314e-11	2.31914e-11
1.00000e-09	7.80973e-12	1.01655e-11	1.33135e-11	1.75314e-11	2.31914e-11

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	4.78304e-13	7.73002e-13	1.27335e-12	2.14214e-12	3.68216e-12
1.00000e+07	4.20856e-12	6.65591e-12	1.06558e-11	1.72764e-11	2.83538e-11
1.00000e+06	1.85047e-11	2.65543e-11	3.81151e-11	5.46926e-11	7.84166e-11
100000.	2.83111e-11	3.81300e-11	5.14130e-11	6.93559e-11	9.35458e-11
10000.0	2.99330e-11	3.98992e-11	5.32842e-11	7.12389e-11	9.52798e-11
1000.00	3.01764e-11	4.01926e-11	5.36418e-11	7.16793e-11	9.58291e-11
100.000	3.04627e-11	4.05886e-11	5.41885e-11	7.24326e-11	9.68630e-11
10.0000	3.06773e-11	4.08645e-11	5.45432e-11	7.28881e-11	9.74470e-11
1.00000	3.07683e-11	4.09757e-11	5.46790e-11	7.30538e-11	9.76488e-11
0.100000	3.07903e-11	4.10006e-11	5.47073e-11	7.30860e-11	9.76855e-11
0.0100000	3.07928e-11	4.10035e-11	5.47105e-11	7.30896e-11	9.76895e-11
0.00100000	3.07931e-11	4.10037e-11	5.47108e-11	7.30899e-11	9.76899e-11
0.000100000	3.07931e-11	4.10038e-11	5.47108e-11	7.30900e-11	9.76900e-11
1.00000e-05	3.07931e-11	4.10038e-11	5.47108e-11	7.30900e-11	9.76900e-11
1.00000e-06	3.07931e-11	4.10038e-11	5.47108e-11	7.30900e-11	9.76900e-11
1.00000e-07	3.07931e-11	4.10038e-11	5.47108e-11	7.30900e-11	9.76900e-11
1.00000e-08	3.07931e-11	4.10038e-11	5.47108e-11	7.30900e-11	9.76900e-11
1.00000e-09	3.07931e-11	4.10038e-11	5.47108e-11	7.30900e-11	9.76900e-11

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	6.45146e-12	1.14480e-11	2.03666e-11	6.09241e-09	6.19111e-11
1.00000e+07	4.70056e-11	7.83720e-11	1.30536e-10	5.76274e-09	3.49101e-10
1.00000e+06	1.12280e-10	1.60447e-10	2.28624e-10	9.79029e-10	4.57825e-10
100000.	1.26076e-10	1.69685e-10	2.27921e-10	3.75803e-10	4.07507e-10
10000.0	1.27393e-10	1.70157e-10	2.26886e-10	3.25285e-10	4.00017e-10
1000.00	1.28087e-10	1.71042e-10	2.28027e-10	3.24163e-10	4.01962e-10
100.000	1.29498e-10	1.72961e-10	2.30617e-10	3.24693e-10	4.06575e-10
10.0000	1.30246e-10	1.73914e-10	2.31829e-10	3.25067e-10	4.08508e-10
1.00000	1.30491e-10	1.74211e-10	2.32187e-10	3.25258e-10	4.09021e-10
0.100000	1.30533e-10	1.74259e-10	2.32242e-10	3.25286e-10	4.09093e-10
0.0100000	1.30537e-10	1.74264e-10	2.32248e-10	3.25289e-10	4.09101e-10
0.00100000	1.30538e-10	1.74264e-10	2.32248e-10	3.25290e-10	4.09102e-10
0.000100000	1.30538e-10	1.74264e-10	2.32248e-10	3.25290e-10	4.09102e-10
1.00000e-05	1.30538e-10	1.74264e-10	2.32248e-10	3.25290e-10	4.09102e-10
1.00000e-06	1.30538e-10	1.74264e-10	2.32248e-10	3.25290e-10	4.09102e-10
1.00000e-07	1.30538e-10	1.74264e-10	2.32248e-10	3.25290e-10	4.09102e-10
1.00000e-08	1.30538e-10	1.74264e-10	2.32248e-10	3.25290e-10	4.09102e-10
1.00000e-09	1.30538e-10	1.74264e-10	2.32248e-10	3.25290e-10	4.09102e-10

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	2.28413e-05	0.00212660	0.00710170	0.00888669	0.00959977
1.00000e+07	1.40155e-06	0.000112634	0.00199829	0.00551502	0.00708609
1.00000e+06	4.76867e-08	3.42115e-06	0.000197004	0.00136921	0.00237518
100000.	7.56159e-09	2.89211e-07	1.86350e-05	0.000165514	0.000369584
10000.0	5.14848e-09	7.66326e-08	2.16172e-06	1.76308e-05	4.81256e-05
1000.00	4.92600e-09	5.31007e-08	5.34282e-07	3.35535e-06	1.15260e-05
100.000	4.88977e-09	5.05566e-08	3.74192e-07	1.99503e-06	7.81925e-06

10.0000	4.88864e-09	5.03115e-08	3.58293e-07	1.86144e-06	7.45255e-06
1.00000	4.88896e-09	5.02876e-08	3.56705e-07	1.84816e-06	7.41613e-06
0.100000	4.88900e-09	5.02852e-08	3.56547e-07	1.84683e-06	7.41250e-06
0.0100000	4.88900e-09	5.02850e-08	3.56531e-07	1.84669e-06	7.41213e-06
0.00100000	4.88900e-09	5.02850e-08	3.56529e-07	1.84668e-06	7.41210e-06
0.000100000	4.88900e-09	5.02850e-08	3.56529e-07	1.84668e-06	7.41210e-06
1.00000e-05	4.88900e-09	5.02850e-08	3.56529e-07	1.84668e-06	7.41210e-06
1.00000e-06	4.88900e-09	5.02850e-08	3.56529e-07	1.84668e-06	7.41210e-06
1.00000e-07	4.88900e-09	5.02850e-08	3.56529e-07	1.84668e-06	7.41210e-06
1.00000e-08	4.88900e-09	5.02850e-08	3.56529e-07	1.84668e-06	7.41210e-06
1.00000e-09	4.88900e-09	5.02850e-08	3.56529e-07	1.84668e-06	7.41210e-06

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.00970004	0.00943863	0.00901997	0.00855055	0.00808507
1.00000e+07	0.00707182	0.00653776	0.00590594	0.00531867	0.00485508
1.00000e+06	0.00252116	0.00231380	0.00208306	0.00196212	0.00201285
100000.	0.000616759	0.000832796	0.000958103	0.00108740	0.00131949
10000.0	0.000149099	0.000321898	0.000458709	0.000609829	0.000878902
1000.00	4.33733e-05	0.000115902	0.000216819	0.000389725	0.000703577
100.000	2.62561e-05	7.22322e-05	0.000166930	0.000350122	0.000676502
10.0000	2.44098e-05	6.73857e-05	0.000161549	0.000346057	0.000673853
1.00000	2.42301e-05	6.69285e-05	0.000161047	0.000345681	0.000673609
0.100000	2.42124e-05	6.68846e-05	0.000160998	0.000345645	0.000673586
0.0100000	2.42107e-05	6.68804e-05	0.000160994	0.000345642	0.000673584
0.00100000	2.42105e-05	6.68799e-05	0.000160994	0.000345641	0.000673584
0.000100000	2.42105e-05	6.68799e-05	0.000160994	0.000345641	0.000673584
1.00000e-05	2.42105e-05	6.68799e-05	0.000160994	0.000345641	0.000673584
1.00000e-06	2.42105e-05	6.68799e-05	0.000160994	0.000345641	0.000673584
1.00000e-07	2.42105e-05	6.68799e-05	0.000160994	0.000345641	0.000673584
1.00000e-08	2.42105e-05	6.68799e-05	0.000160994	0.000345641	0.000673584
1.00000e-09	2.42105e-05	6.68799e-05	0.000160994	0.000345641	0.000673584

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.00765786	0.00729514	0.106167	0.0902339	0.0783728
1.00000e+07	0.00457717	0.00453485	0.0433244	0.0367519	0.0361228
1.00000e+06	0.00228669	0.00282507	0.0127611	0.0163451	0.0231438
100000.	0.00173833	0.00240752	0.00728258	0.0128598	0.0210916
10000.0	0.00135310	0.00209175	0.00593417	0.0121540	0.0207560
1000.00	0.00122464	0.00200351	0.00569037	0.0120562	0.0207168
100.000	0.00120738	0.00199300	0.00566304	0.0120461	0.0207130
10.0000	0.00120575	0.00199204	0.00566034	0.0120451	0.0207126
1.00000	0.00120561	0.00199195	0.00566008	0.0120450	0.0207126
0.100000	0.00120559	0.00199195	0.00566005	0.0120450	0.0207126
0.0100000	0.00120559	0.00199195	0.00566005	0.0120450	0.0207126
0.00100000	0.00120559	0.00199195	0.00566005	0.0120450	0.0207126
0.000100000	0.00120559	0.00199195	0.00566005	0.0120450	0.0207126
1.00000e-05	0.00120559	0.00199195	0.00566005	0.0120450	0.0207126
1.00000e-06	0.00120559	0.00199195	0.00566005	0.0120450	0.0207126
1.00000e-07	0.00120559	0.00199195	0.00566005	0.0120450	0.0207126
1.00000e-08	0.00120559	0.00199195	0.00566005	0.0120450	0.0207126
1.00000e-09	0.00120559	0.00199195	0.00566005	0.0120450	0.0207126

PhCH2CCH+H

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	2.66884e-26	3.93255e-25	1.81972e-24	5.39851e-24	1.26818e-23
1.00000e+07	1.27561e-22	1.38163e-21	5.23873e-21	1.34831e-20	2.84197e-20
1.00000e+06	2.08407e-19	1.76082e-18	5.95638e-18	1.42483e-17	2.84210e-17
100000.	1.74213e-16	1.17593e-15	3.38536e-15	7.10599e-15	1.26784e-14
10000.0	5.29275e-14	2.36381e-13	5.40871e-13	9.69446e-13	1.53203e-12
1000.00	4.38661e-12	1.30520e-11	2.33173e-11	3.49396e-11	4.80125e-11
100.000	9.06961e-11	1.90018e-10	2.88762e-10	3.91177e-10	4.99534e-10
10.0000	7.59108e-10	1.26073e-09	1.66695e-09	2.05027e-09	2.43813e-09
1.00000	3.09417e-09	4.71690e-09	6.15165e-09	7.52551e-09	8.88046e-09
0.100000	1.05501e-08	1.32786e-08	1.47782e-08	1.59723e-08	1.70803e-08
0.0100000	1.56682e-08	1.62757e-08	1.68986e-08	1.76333e-08	1.84625e-08
0.00100000	1.62906e-08	1.65870e-08	1.71120e-08	1.77990e-08	1.86000e-08
0.000100000	1.63526e-08	1.66180e-08	1.71333e-08	1.78155e-08	1.86137e-08
1.00000e-05	1.63588e-08	1.66211e-08	1.71354e-08	1.78172e-08	1.86151e-08
1.00000e-06	1.63594e-08	1.66214e-08	1.71356e-08	1.78173e-08	1.86153e-08
1.00000e-07	1.63595e-08	1.66215e-08	1.71356e-08	1.78174e-08	1.86153e-08
1.00000e-08	1.63595e-08	1.66215e-08	1.71356e-08	1.78174e-08	1.86153e-08
1.00000e-09	1.63595e-08	1.66215e-08	1.71356e-08	1.78174e-08	1.86153e-08

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
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1.00000e+08	2.58670e-23	4.81018e-23	8.39595e-23	1.40186e-22	2.26899e-22
1.00000e+07	5.31552e-20	9.20013e-20	1.51060e-19	2.39115e-19	3.69040e-19
1.00000e+06	5.07811e-17	8.44103e-17	1.33509e-16	2.03897e-16	3.03762e-16
100000.	2.05308e-14	3.12229e-14	4.54943e-14	6.43302e-14	8.90576e-14
10000.0	2.24496e-12	3.13175e-12	4.22406e-12	5.56357e-12	7.20498e-12
1000.00	6.27595e-11	7.94978e-11	9.86319e-11	1.20669e-10	1.46247e-10
100.000	6.15871e-10	7.42384e-10	8.81528e-10	1.03615e-09	1.20968e-09
10.0000	2.84637e-09	3.28727e-09	3.77211e-09	4.31266e-09	4.92220e-09
1.00000	1.02444e-08	1.16413e-08	1.30931e-08	1.46212e-08	1.62485e-08
0.100000	1.81859e-08	1.93333e-08	2.05520e-08	2.18658e-08	2.32978e-08
0.0100000	1.93820e-08	2.03971e-08	2.15173e-08	2.27554e-08	2.41275e-08
0.00100000	1.95010e-08	2.05029e-08	2.16133e-08	2.28438e-08	2.42101e-08
0.000100000	1.95128e-08	2.05135e-08	2.16229e-08	2.28527e-08	2.42183e-08
1.00000e-05	1.95140e-08	2.05145e-08	2.16238e-08	2.28535e-08	2.42192e-08
1.00000e-06	1.95142e-08	2.05146e-08	2.16239e-08	2.28536e-08	2.42192e-08
1.00000e-07	1.95142e-08	2.05146e-08	2.16239e-08	2.28536e-08	2.42192e-08
1.00000e-08	1.95142e-08	2.05146e-08	2.16239e-08	2.28536e-08	2.42192e-08
1.00000e-09	1.95142e-08	2.05146e-08	2.16239e-08	2.28536e-08	2.42192e-08

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	3.59552e-22	5.62187e-22	8.72926e-22	1.35340e-21	2.10520e-21
1.00000e+07	5.60039e-19	8.41289e-19	1.25792e-18	1.88097e-18	2.82438e-18
1.00000e+06	4.44809e-16	6.44010e-16	9.26296e-16	1.32874e-15	1.90701e-15
100000.	1.21483e-13	1.64094e-13	2.20341e-13	2.95056e-13	3.95039e-13
10000.0	9.22024e-12	1.17044e-11	1.47832e-11	1.86239e-11	2.34493e-11
1000.00	1.76182e-10	2.11518e-10	2.53600e-10	3.04170e-10	3.65483e-10
100.000	1.40630e-09	1.63126e-09	1.89112e-09	2.19413e-09	2.55073e-09
10.0000	5.61653e-09	6.41487e-09	7.34090e-09	8.42389e-09	9.69991e-09
1.00000	1.79998e-08	1.99040e-08	2.19940e-08	2.43085e-08	2.68927e-08
0.100000	2.48726e-08	2.66179e-08	2.85662e-08	3.07551e-08	3.32292e-08
0.0100000	2.56542e-08	2.73605e-08	2.92766e-08	3.14389e-08	3.38911e-08
0.00100000	2.57320e-08	2.74344e-08	2.93473e-08	3.15070e-08	3.39570e-08
0.000100000	2.57398e-08	2.74418e-08	2.93544e-08	3.15138e-08	3.39636e-08
1.00000e-05	2.57406e-08	2.74425e-08	2.93551e-08	3.15145e-08	3.39642e-08
1.00000e-06	2.57406e-08	2.74426e-08	2.93552e-08	3.15146e-08	3.39643e-08
1.00000e-07	2.57407e-08	2.74426e-08	2.93552e-08	3.15146e-08	3.39643e-08
1.00000e-08	2.57407e-08	2.74426e-08	2.93552e-08	3.15146e-08	3.39643e-08
1.00000e-09	2.57407e-08	2.74426e-08	2.93552e-08	3.15146e-08	3.39643e-08

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	3.29948e-21	5.23101e-21	8.42064e-21	1.38151e-20	2.31931e-20
1.00000e+07	4.27420e-18	6.54036e-18	1.01501e-17	1.60216e-17	2.57949e-17
1.00000e+06	2.74564e-15	3.97403e-15	5.79207e-15	8.51101e-15	1.26193e-14
100000.	2.29922e-13	7.13399e-13	9.65027e-13	1.31283e-12	1.79703e-12
10000.0	5.95561e-11	3.73412e-11	4.73356e-11	6.02515e-11	7.70451e-11
1000.00	4.40461e-10	5.32902e-10	6.47739e-10	7.91392e-10	9.72213e-10
100.000	2.97412e-09	3.48099e-09	4.09256e-09	4.83575e-09	5.74492e-09
10.0000	1.12135e-08	1.30190e-08	1.51831e-08	1.77864e-08	2.09266e-08
1.00000	2.97994e-08	3.30905e-08	3.68383e-08	4.11278e-08	4.60583e-08
0.100000	3.60405e-08	3.92503e-08	4.29303e-08	4.71648e-08	5.20524e-08
0.0100000	3.66842e-08	3.98790e-08	4.35468e-08	4.77716e-08	5.26517e-08
0.00100000	3.67483e-08	3.99416e-08	4.36082e-08	4.78321e-08	5.27115e-08
0.000100000	3.67547e-08	3.99479e-08	4.36144e-08	4.78382e-08	5.27175e-08
1.00000e-05	3.67553e-08	3.99485e-08	4.36150e-08	4.78388e-08	5.27181e-08
1.00000e-06	3.67554e-08	3.99486e-08	4.36151e-08	4.78388e-08	5.27181e-08
1.00000e-07	3.67554e-08	3.99486e-08	4.36151e-08	4.78388e-08	5.27181e-08
1.00000e-08	3.67554e-08	3.99486e-08	4.36151e-08	4.78388e-08	5.27181e-08
1.00000e-09	3.67554e-08	3.99486e-08	4.36151e-08	4.78388e-08	5.27181e-08

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	4.00224e-20	7.13457e-20	1.32034e-19	2.54424e-19	5.09564e-19
1.00000e+07	4.24849e-17	7.18019e-17	1.24878e-16	2.23893e-16	4.13396e-16
1.00000e+06	1.88896e-14	2.85523e-14	4.35795e-14	6.71499e-14	1.04400e-13
100000.	2.47560e-12	3.43200e-12	4.78664e-12	6.71307e-12	9.46098e-12
10000.0	9.90029e-11	1.27856e-10	1.65939e-10	2.16398e-10	2.83469e-10
1000.00	1.20109e-09	1.49216e-09	1.86389e-09	2.34022e-09	2.95226e-09
100.000	6.86384e-09	8.24838e-09	9.96984e-09	1.21191e-08	1.48117e-08
10.0000	2.47207e-08	2.93084e-08	3.48557e-08	4.15585e-08	4.96467e-08
1.00000	5.17460e-08	5.83274e-08	6.59619e-08	7.48362e-08	8.51681e-08
0.100000	5.77091e-08	6.42705e-08	7.18957e-08	8.07704e-08	9.11123e-08
0.0100000	5.83028e-08	6.48602e-08	7.24828e-08	8.13565e-08	9.16987e-08
0.00100000	5.83619e-08	6.49190e-08	7.25414e-08	8.14150e-08	9.17572e-08
0.000100000	5.83678e-08	6.49249e-08	7.25473e-08	8.14208e-08	9.17630e-08
1.00000e-05	5.83684e-08	6.49255e-08	7.25479e-08	8.14214e-08	9.17636e-08
1.00000e-06	5.83685e-08	6.49255e-08	7.25479e-08	8.14215e-08	9.17637e-08
1.00000e-07	5.83685e-08	6.49255e-08	7.25479e-08	8.14215e-08	9.17637e-08
1.00000e-08	5.83685e-08	6.49255e-08	7.25479e-08	8.14215e-08	9.17637e-08

1.00000e-09 | 5.83685e-08 6.49255e-08 7.25479e-08 8.14215e-08 9.17637e-08

Pa\K | 270.000 280.000 290.000 300.000 310.000

1.00000e+08 | 1.05137e-18 2.20062e-18 4.58668e-18 3.49346e-13 1.84041e-17
1.00000e+07 | 7.81861e-16 1.49942e-15 2.87661e-15 4.64222e-12 1.00311e-14
1.00000e+06 | 1.63617e-13 2.58085e-13 4.08771e-13 1.63794e-11 1.02411e-12
100000. | 1.33884e-11 1.90055e-11 2.70335e-11 2.49038e-10 5.47151e-11
10000.0 | 3.72855e-10 4.92190e-10 6.51645e-10 3.02101e-09 1.14849e-09
1000.00 | 3.74026e-09 4.75607e-09 6.06598e-09 1.66267e-08 9.92384e-09
100.000 | 1.81941e-08 2.24504e-08 2.78107e-08 5.08456e-08 4.30317e-08
10.0000 | 5.93890e-08 7.10971e-08 8.51307e-08 1.21131e-07 1.21853e-07
1.00000 | 9.72124e-08 1.11265e-07 1.27666e-07 1.57206e-07 1.69117e-07
0.100000 | 1.03175e-07 1.17254e-07 1.33690e-07 1.61945e-07 1.75228e-07
0.0100000 | 1.03762e-07 1.17844e-07 1.34283e-07 1.62417e-07 1.75830e-07
0.00100000 | 1.03821e-07 1.17902e-07 1.34342e-07 1.62464e-07 1.75890e-07
0.000100000 | 1.03827e-07 1.17908e-07 1.34348e-07 1.62469e-07 1.75896e-07
1.00000e-05 | 1.03828e-07 1.17909e-07 1.34349e-07 1.62469e-07 1.75897e-07
1.00000e-06 | 1.03828e-07 1.17909e-07 1.34349e-07 1.62469e-07 1.75897e-07
1.00000e-07 | 1.03828e-07 1.17909e-07 1.34349e-07 1.62469e-07 1.75897e-07
1.00000e-08 | 1.03828e-07 1.17909e-07 1.34349e-07 1.62469e-07 1.75897e-07
1.00000e-09 | 1.03828e-07 1.17909e-07 1.34349e-07 1.62469e-07 1.75897e-07

Pa\K | 400.000 500.000 600.000 700.000 800.000

1.00000e+08 | 1.65367e-07 7.70679e-05 0.000493801 0.00109140 0.00104497
1.00000e+07 | 3.24254e-08 2.29893e-05 0.000904614 0.00377486 0.00501239
1.00000e+06 | 6.54820e-09 3.30606e-06 0.000277547 0.00225626 0.00516340
100000. | 1.43986e-08 1.65755e-06 7.51781e-05 0.000667747 0.00224626
10000.0 | 6.87845e-08 1.59838e-06 2.28505e-05 0.000152016 0.000624202
1000.00 | 1.83690e-07 1.70562e-06 1.08248e-05 4.70074e-05 0.000167058
100.000 | 4.11074e-07 2.49674e-06 1.06631e-05 3.50163e-05 9.62600e-05
10.0000 | 6.36413e-07 2.89410e-06 1.08921e-05 3.38684e-05 8.86402e-05
1.00000 | 6.87162e-07 2.94803e-06 1.09173e-05 3.37516e-05 8.78778e-05
0.100000 | 6.92462e-07 2.95333e-06 1.09197e-05 3.37398e-05 8.78016e-05
0.0100000 | 6.92990e-07 2.95386e-06 1.09199e-05 3.37386e-05 8.77940e-05
0.00100000 | 6.93042e-07 2.95392e-06 1.09199e-05 3.37385e-05 8.77933e-05
0.000100000 | 6.93047e-07 2.95392e-06 1.09199e-05 3.37385e-05 8.77932e-05
1.00000e-05 | 6.93048e-07 2.95392e-06 1.09199e-05 3.37385e-05 8.77932e-05
1.00000e-06 | 6.93048e-07 2.95392e-06 1.09199e-05 3.37385e-05 8.77932e-05
1.00000e-07 | 6.93048e-07 2.95392e-06 1.09199e-05 3.37385e-05 8.77932e-05
1.00000e-08 | 6.93048e-07 2.95392e-06 1.09199e-05 3.37385e-05 8.77932e-05
1.00000e-09 | 6.93048e-07 2.95392e-06 1.09199e-05 3.37385e-05 8.77932e-05

Pa\K | 900.000 1000.00 1100.00 1200.00 1300.00

1.00000e+08 | 0.000556114 0.000330822 0.000252272 0.000210011 0.000170738
1.00000e+07 | 0.00379222 0.00274491 0.00230319 0.00210518 0.00197837
1.00000e+06 | 0.00673878 0.00704562 0.00688220 0.00662522 0.00635030
100000. | 0.00463195 0.00635128 0.00683585 0.00668829 0.00633662
10000.0 | 0.00182492 0.00314878 0.00359169 0.00351927 0.00342188
1000.00 | 0.000506226 0.000972949 0.00126643 0.00153057 0.00192374
100.000 | 0.000230690 0.000451948 0.000747347 0.00115001 0.00168080
10.0000 | 0.000199871 0.000393401 0.000691084 0.00111100 0.00165729
1.00000 | 0.000196888 0.000387916 0.000685876 0.00110743 0.00165516
0.100000 | 0.000196596 0.000387392 0.000685386 0.00110709 0.00165497
0.0100000 | 0.000196566 0.000387341 0.000685339 0.00110706 0.00165495
0.00100000 | 0.000196563 0.000387336 0.000685334 0.00110706 0.00165495
0.000100000 | 0.000196563 0.000387336 0.000685334 0.00110706 0.00165495
1.00000e-05 | 0.000196563 0.000387336 0.000685333 0.00110706 0.00165495
1.00000e-06 | 0.000196563 0.000387336 0.000685333 0.00110706 0.00165495
1.00000e-07 | 0.000196563 0.000387336 0.000685333 0.00110706 0.00165495
1.00000e-08 | 0.000196563 0.000387336 0.000685333 0.00110706 0.00165495
1.00000e-09 | 0.000196563 0.000387336 0.000685333 0.00110706 0.00165495

Pa\K | 1400.00 1500.00 1750.00 2000.00 2250.00

1.00000e+08 | 0.000137062 0.000117439 0.00847443 0.00834178 0.00805333
1.00000e+07 | 0.00186871 0.00178129 0.0161927 0.0147710 0.0129713
1.00000e+06 | 0.00607722 0.00583087 0.0168111 0.0137842 0.0112884
100000. | 0.00598986 0.00575081 0.0106836 0.00894730 0.00822118
10000.0 | 0.00350479 0.00379834 0.00597765 0.00670792 0.00728221
1000.00 | 0.00247215 0.00313835 0.00492091 0.00634627 0.00716146
100.000 | 0.00232872 0.00305900 0.00479915 0.00630895 0.00714984
10.0000 | 0.00231560 0.00305218 0.00478725 0.00630538 0.00714876
1.00000 | 0.00231444 0.00305160 0.00478610 0.00630505 0.00714867
0.100000 | 0.00231433 0.00305155 0.00478599 0.00630500 0.00714867
0.0100000 | 0.00231433 0.00305154 0.00478598 0.00630500 0.00714867
0.00100000 | 0.00231433 0.00305154 0.00478598 0.00630500 0.00714867
0.000100000 | 0.00231433 0.00305154 0.00478598 0.00630500 0.00714867

1.00000e-05	0.00231433	0.00305154	0.00478598	0.00630500	0.00714867
1.00000e-06	0.00231433	0.00305154	0.00478598	0.00630500	0.00714867
1.00000e-07	0.00231433	0.00305154	0.00478598	0.00630500	0.00714867
1.00000e-08	0.00231433	0.00305154	0.00478598	0.00630500	0.00714867
1.00000e-09	0.00231433	0.00305154	0.00478598	0.00630500	0.00714867

Ph+MeAc

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	1.30680e-24	1.87723e-23	8.29744e-23	2.34658e-22	5.26040e-22
1.00000e+07	4.56715e-21	3.98922e-20	1.33259e-19	3.14655e-19	6.21987e-19
1.00000e+06	3.99957e-18	3.06883e-17	9.98569e-17	2.33170e-16	4.56624e-16
100000.	2.79228e-15	1.85688e-14	5.30349e-14	1.10619e-13	1.96260e-13
10000.0	8.50286e-13	3.96617e-12	9.47181e-12	1.76797e-11	2.90402e-11
1000.00	1.04247e-10	4.28515e-10	9.67102e-10	1.73818e-09	2.77076e-09
100.000	9.04190e-09	3.24458e-08	6.54948e-08	1.06188e-07	1.53343e-07
10.0000	3.40157e-07	6.66235e-07	8.79833e-07	1.03459e-06	1.15784e-06
1.00000	1.25541e-06	1.38375e-06	1.45766e-06	1.52337e-06	1.58760e-06
0.100000	1.50381e-06	1.54813e-06	1.58837e-06	1.63353e-06	1.68314e-06
0.0100000	1.55160e-06	1.56969e-06	1.60176e-06	1.64324e-06	1.69080e-06
0.00100000	1.55499e-06	1.57133e-06	1.60287e-06	1.64408e-06	1.69150e-06
0.000100000	1.55531e-06	1.57149e-06	1.60298e-06	1.64417e-06	1.69157e-06
1.00000e-05	1.55534e-06	1.57151e-06	1.60299e-06	1.64418e-06	1.69157e-06
1.00000e-06	1.55535e-06	1.57151e-06	1.60299e-06	1.64418e-06	1.69157e-06
1.00000e-07	1.55535e-06	1.57151e-06	1.60299e-06	1.64418e-06	1.69157e-06
1.00000e-08	1.55535e-06	1.57151e-06	1.60299e-06	1.64418e-06	1.69157e-06
1.00000e-09	1.55535e-06	1.57151e-06	1.60299e-06	1.64418e-06	1.69157e-06

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	1.02548e-21	1.82515e-21	3.05240e-21	4.88684e-21	7.58692e-21
1.00000e+07	1.10543e-18	1.83332e-18	2.90031e-18	4.43973e-18	6.64247e-18
1.00000e+06	8.03126e-16	1.31581e-15	2.05241e-15	3.09144e-15	4.54145e-15
100000.	3.16149e-13	4.78356e-13	6.93497e-13	9.75658e-13	1.34371e-12
10000.0	4.41631e-11	6.38611e-11	8.92048e-11	1.21605e-10	1.62933e-10
1000.00	4.10521e-09	5.79525e-09	7.91037e-09	1.05395e-08	1.37967e-08
100.000	2.06286e-07	2.64694e-07	3.28489e-07	3.97776e-07	4.72820e-07
10.0000	1.26365e-06	1.35995e-06	1.45153e-06	1.54159e-06	1.63241e-06
1.00000	1.65260e-06	1.71967e-06	1.78973e-06	1.86356e-06	1.94193e-06
0.100000	1.73691e-06	1.79495e-06	1.85753e-06	1.92506e-06	1.99802e-06
0.0100000	1.74329e-06	1.80044e-06	1.86238e-06	1.92941e-06	2.00199e-06
0.00100000	1.74388e-06	1.80096e-06	1.86284e-06	1.92983e-06	2.00237e-06
0.000100000	1.74394e-06	1.80101e-06	1.86289e-06	1.92987e-06	2.00241e-06
1.00000e-05	1.74394e-06	1.80101e-06	1.86289e-06	1.92987e-06	2.00241e-06
1.00000e-06	1.74394e-06	1.80101e-06	1.86289e-06	1.92987e-06	2.00241e-06
1.00000e-07	1.74394e-06	1.80101e-06	1.86289e-06	1.92987e-06	2.00241e-06
1.00000e-08	1.74394e-06	1.80101e-06	1.86289e-06	1.92987e-06	2.00241e-06
1.00000e-09	1.74394e-06	1.80101e-06	1.86289e-06	1.92987e-06	2.00241e-06

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	1.15316e-20	1.72872e-20	2.57153e-20	3.81512e-20	5.67029e-20
1.00000e+07	9.78665e-18	1.42844e-17	2.07571e-17	3.01574e-17	4.39710e-17
1.00000e+06	6.55472e-15	9.34797e-15	1.32335e-14	1.86667e-14	2.63185e-14
100000.	1.82325e-12	2.44934e-12	3.27047e-12	4.35434e-12	5.79618e-12
10000.0	2.15696e-10	2.83280e-10	3.70298e-10	4.83073e-10	6.30321e-10
1000.00	1.78284e-08	2.28230e-08	2.90234e-08	3.67417e-08	4.63778e-08
100.000	5.54040e-07	6.42014e-07	7.37473e-07	8.41313e-07	9.54588e-07
10.0000	1.72582e-06	1.82342e-06	1.92670e-06	2.03713e-06	2.15625e-06
1.00000	2.02565e-06	2.11561e-06	2.21281e-06	2.31837e-06	2.43352e-06
0.100000	2.07707e-06	2.16295e-06	2.25656e-06	2.35894e-06	2.47129e-06
0.0100000	2.08071e-06	2.16633e-06	2.25972e-06	2.36192e-06	2.47410e-06
0.00100000	2.08106e-06	2.16666e-06	2.26003e-06	2.36221e-06	2.47437e-06
0.000100000	2.08110e-06	2.16669e-06	2.26006e-06	2.36224e-06	2.47440e-06
1.00000e-05	2.08110e-06	2.16669e-06	2.26007e-06	2.36224e-06	2.47440e-06
1.00000e-06	2.08110e-06	2.16669e-06	2.26007e-06	2.36224e-06	2.47440e-06
1.00000e-07	2.08110e-06	2.16669e-06	2.26007e-06	2.36224e-06	2.47440e-06
1.00000e-08	2.08110e-06	2.16669e-06	2.26007e-06	2.36224e-06	2.47440e-06
1.00000e-09	2.08110e-06	2.16669e-06	2.26007e-06	2.36224e-06	2.47440e-06

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	8.47637e-20	1.27912e-19	1.95536e-19	3.03853e-19	4.81754e-19
1.00000e+07	6.45568e-17	9.57294e-17	1.43784e-16	2.19341e-16	3.40756e-16
1.00000e+06	3.71871e-14	5.27714e-14	7.53420e-14	1.08369e-13	1.57201e-13
100000.	7.73089e-12	1.03508e-11	1.39321e-11	1.88734e-11	2.57532e-11
10000.0	8.24108e-10	1.08120e-09	1.42497e-09	1.88801e-09	2.51591e-09
1000.00	5.84410e-08	7.35763e-08	9.25931e-08	1.16500e-07	1.46540e-07
100.000	1.07853e-06	1.21451e-06	1.36412e-06	1.52910e-06	1.71140e-06

10.0000	2.28562e-06	2.42697e-06	2.58212e-06	2.75303e-06	2.94184e-06
1.00000	2.55965e-06	2.69827e-06	2.85106e-06	3.01986e-06	3.20669e-06
0.100000	2.59492e-06	2.73130e-06	2.88210e-06	3.04911e-06	3.23433e-06
0.0100000	2.59759e-06	2.73384e-06	2.88453e-06	3.05144e-06	3.23657e-06
0.00100000	2.59785e-06	2.73409e-06	2.88477e-06	3.05167e-06	3.23679e-06
0.000100000	2.59787e-06	2.73412e-06	2.88479e-06	3.05169e-06	3.23681e-06
1.00000e-05	2.59788e-06	2.73412e-06	2.88479e-06	3.05169e-06	3.23682e-06
1.00000e-06	2.59788e-06	2.73412e-06	2.88479e-06	3.05169e-06	3.23682e-06
1.00000e-07	2.59788e-06	2.73412e-06	2.88479e-06	3.05169e-06	3.23682e-06
1.00000e-08	2.59788e-06	2.73412e-06	2.88479e-06	3.05169e-06	3.23682e-06
1.00000e-09	2.59788e-06	2.73412e-06	2.88479e-06	3.05169e-06	3.23682e-06

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	7.82518e-19	1.30830e-18	2.26277e-18	4.06552e-18	7.59593e-18
1.00000e+07	5.40635e-16	8.78590e-16	1.46679e-15	2.52130e-15	4.46355e-15
1.00000e+06	2.30154e-13	3.40261e-13	5.08125e-13	7.66545e-13	1.16802e-12
100000.	3.54162e-11	4.91004e-11	6.86284e-11	9.66916e-11	1.37271e-10
10000.0	3.37234e-09	4.54617e-09	6.16110e-09	8.38866e-09	1.14654e-08
1000.00	1.84236e-07	2.31428e-07	2.90324e-07	3.63543e-07	4.54165e-07
100.000	1.91319e-06	2.13683e-06	2.38496e-06	2.66046e-06	2.96652e-06
10.0000	3.15088e-06	3.38265e-06	3.63992e-06	3.92567e-06	4.24313e-06
1.00000	3.41378e-06	3.64354e-06	3.89864e-06	4.18199e-06	4.49678e-06
0.100000	3.43996e-06	3.66843e-06	3.92235e-06	4.20465e-06	4.51848e-06
0.0100000	3.44212e-06	3.67051e-06	3.92437e-06	4.20660e-06	4.52038e-06
0.00100000	3.44234e-06	3.67072e-06	3.92457e-06	4.20680e-06	4.52057e-06
0.000100000	3.44236e-06	3.67074e-06	3.92459e-06	4.20682e-06	4.52059e-06
1.00000e-05	3.44236e-06	3.67074e-06	3.92459e-06	4.20682e-06	4.52059e-06
1.00000e-06	3.44236e-06	3.67074e-06	3.92459e-06	4.20682e-06	4.52059e-06
1.00000e-07	3.44236e-06	3.67074e-06	3.92459e-06	4.20682e-06	4.52059e-06
1.00000e-08	3.44236e-06	3.67074e-06	3.92459e-06	4.20682e-06	4.52059e-06
1.00000e-09	3.44236e-06	3.67074e-06	3.92459e-06	4.20682e-06	4.52059e-06

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	1.46878e-17	2.90540e-17	5.78357e-17	1.33352e-16	2.18308e-16
1.00000e+07	8.11121e-15	1.50113e-14	2.79642e-14	2.30387e-14	9.38749e-14
1.00000e+06	1.79678e-12	2.78747e-12	4.35327e-12	1.42736e-11	1.07050e-11
100000.	1.96254e-10	2.82326e-10	4.08223e-10	4.50311e-09	8.61371e-09
10000.0	1.57152e-08	2.15775e-08	2.96414e-08	1.59512e-07	5.57170e-07
1000.00	5.65776e-07	7.02502e-07	8.69047e-07	1.88127e-06	1.31316e-06
100.000	3.30664e-06	3.68466e-06	4.10478e-06	4.87715e-06	5.08908e-06
10.0000	4.59583e-06	4.98761e-06	5.42261e-06	5.81351e-06	6.43939e-06
1.00000	4.84650e-06	5.23494e-06	5.66622e-06	5.98344e-06	6.67444e-06
0.100000	4.86733e-06	5.25498e-06	5.68554e-06	5.99692e-06	6.69251e-06
0.0100000	4.86918e-06	5.25678e-06	5.68730e-06	5.99813e-06	6.69418e-06
0.00100000	4.86936e-06	5.25695e-06	5.68747e-06	5.99825e-06	6.69434e-06
0.000100000	4.86938e-06	5.25697e-06	5.68749e-06	5.99826e-06	6.69436e-06
1.00000e-05	4.86938e-06	5.25697e-06	5.68749e-06	5.99826e-06	6.69436e-06
1.00000e-06	4.86938e-06	5.25697e-06	5.68749e-06	5.99826e-06	6.69436e-06
1.00000e-07	4.86938e-06	5.25697e-06	5.68749e-06	5.99826e-06	6.69436e-06
1.00000e-08	4.86938e-06	5.25697e-06	5.68749e-06	5.99826e-06	6.69436e-06
1.00000e-09	4.86938e-06	5.25697e-06	5.68749e-06	5.99826e-06	6.69436e-06

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	3.21960e-07	0.000110645	0.000637682	0.00125690	0.00111422
1.00000e+07	1.08024e-07	4.06168e-05	0.00120948	0.00461358	0.00590173
1.00000e+06	5.01331e-08	1.04250e-05	0.000482720	0.00318007	0.00650348
100000.	2.60679e-07	1.13420e-05	0.000224942	0.00135084	0.00354377
10000.0	2.53571e-06	2.44155e-05	0.000139300	0.000503768	0.00137468
1000.00	9.30794e-06	3.33345e-05	9.47424e-05	0.000233332	0.000536116
100.000	1.34578e-05	3.57162e-05	8.66270e-05	0.000189941	0.000380176
10.0000	1.43909e-05	3.62609e-05	8.58424e-05	0.000185285	0.000363024
1.00000	1.45082e-05	3.63065e-05	8.57524e-05	0.000184815	0.000361325
0.100000	1.45170e-05	3.63098e-05	8.57431e-05	0.000184768	0.000361157
0.0100000	1.45178e-05	3.63101e-05	8.57421e-05	0.000184763	0.000361140
0.00100000	1.45179e-05	3.63101e-05	8.57420e-05	0.000184762	0.000361138
0.000100000	1.45179e-05	3.63101e-05	8.57420e-05	0.000184762	0.000361138
1.00000e-05	1.45179e-05	3.63101e-05	8.57420e-05	0.000184762	0.000361137
1.00000e-06	1.45179e-05	3.63101e-05	8.57420e-05	0.000184762	0.000361137
1.00000e-07	1.45179e-05	3.63101e-05	8.57420e-05	0.000184762	0.000361137
1.00000e-08	1.45179e-05	3.63101e-05	8.57420e-05	0.000184762	0.000361137
1.00000e-09	1.45179e-05	3.63101e-05	8.57420e-05	0.000184762	0.000361137

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.000585854	0.000352819	0.000280696	0.000256781	0.000248034
1.00000e+07	0.00442965	0.00320599	0.00270289	0.00249828	0.00239754
1.00000e+06	0.00811631	0.00835346	0.00810222	0.00778555	0.00748115

100000.	0.00626546	0.00805960	0.00849301	0.00828640	0.00790023
10000.0	0.00301010	0.00455727	0.00504947	0.00501172	0.00497482
1000.00	0.00112960	0.00182686	0.00230905	0.00276444	0.00334333
100.000	0.000697199	0.00113884	0.00167538	0.00232243	0.00307347
10.0000	0.000648560	0.00106149	0.00160688	0.00227748	0.00304778
1.00000	0.000643911	0.00105432	0.00160062	0.00227342	0.00304550
0.100000	0.000643456	0.00105365	0.00160004	0.00227305	0.00304529
0.0100000	0.000643411	0.00105358	0.00159998	0.00227301	0.00304528
0.00100000	0.000643407	0.00105357	0.00159997	0.00227301	0.00304527
0.000100000	0.000643407	0.00105357	0.00159997	0.00227301	0.00304527
1.00000e-05	0.000643406	0.00105357	0.00159997	0.00227301	0.00304527
1.00000e-06	0.000643406	0.00105357	0.00159997	0.00227301	0.00304527
1.00000e-07	0.000643406	0.00105357	0.00159997	0.00227301	0.00304527
1.00000e-08	0.000643406	0.00105357	0.00159997	0.00227301	0.00304527
1.00000e-09	0.000643406	0.00105357	0.00159997	0.00227301	0.00304527

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.000244618	0.000243474	0.00688056	0.00677698	0.00654784
1.00000e+07	0.00232898	0.00227249	0.0136750	0.0125416	0.0111236
1.00000e+06	0.00719742	0.00694162	0.0150749	0.0127887	0.0108483
100000.	0.00753948	0.00729084	0.0111710	0.00991628	0.00916152
10000.0	0.00512453	0.00546116	0.00783870	0.00844107	0.00859063
1000.00	0.00404160	0.00479700	0.00705671	0.00819413	0.00851595
100.000	0.00388984	0.00471785	0.00696607	0.00816879	0.00850894
10.0000	0.00387638	0.00471143	0.00695723	0.00816640	0.00850830
1.00000	0.00387523	0.00471091	0.00695638	0.00816619	0.00850826
0.100000	0.00387512	0.00471086	0.00695632	0.00816619	0.00850826
0.0100000	0.00387511	0.00471086	0.00695632	0.00816619	0.00850826
0.00100000	0.00387511	0.00471086	0.00695632	0.00816619	0.00850826
0.000100000	0.00387511	0.00471086	0.00695632	0.00816619	0.00850826
1.00000e-05	0.00387511	0.00471086	0.00695632	0.00816619	0.00850826
1.00000e-06	0.00387511	0.00471086	0.00695632	0.00816619	0.00850826
1.00000e-07	0.00387511	0.00471086	0.00695632	0.00816619	0.00850826
1.00000e-08	0.00387511	0.00471086	0.00695632	0.00816619	0.00850826
1.00000e-09	0.00387511	0.00471086	0.00695632	0.00816619	0.00850826

C2H2+PhCH2

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	6.21793e-22	4.61195e-21	1.41368e-20	3.09797e-20	5.69661e-20
1.00000e+07	2.92727e-19	1.51492e-18	3.78964e-18	7.33599e-18	1.25160e-17
1.00000e+06	6.40658e-17	5.76848e-16	2.38385e-15	6.72504e-15	1.52237e-14
100000.	1.57970e-13	1.53356e-12	5.16011e-12	1.18046e-11	2.21419e-11
10000.0	1.19929e-10	5.24630e-10	1.06184e-09	1.67534e-09	2.35316e-09
1000.00	5.40221e-09	1.23564e-08	1.94718e-08	2.68590e-08	3.46113e-08
100.000	6.43591e-08	1.26227e-07	1.83497e-07	2.38451e-07	2.92200e-07
10.0000	4.46012e-07	6.64106e-07	8.01422e-07	9.08622e-07	1.00281e-06
1.00000	1.13954e-06	1.42049e-06	1.64255e-06	1.83951e-06	2.02071e-06
0.100000	2.22612e-06	2.49895e-06	2.62263e-06	2.71810e-06	2.80762e-06
0.0100000	2.63469e-06	2.67292e-06	2.72500e-06	2.78966e-06	2.86277e-06
0.00100000	2.65833e-06	2.68422e-06	2.73258e-06	2.79542e-06	2.86746e-06
0.000100000	2.66054e-06	2.68532e-06	2.73332e-06	2.79599e-06	2.86792e-06
1.00000e-05	2.66076e-06	2.68543e-06	2.73340e-06	2.79605e-06	2.86797e-06
1.00000e-06	2.66078e-06	2.68544e-06	2.73340e-06	2.79605e-06	2.86797e-06
1.00000e-07	2.66078e-06	2.68544e-06	2.73340e-06	2.79605e-06	2.86797e-06
1.00000e-08	2.66078e-06	2.68544e-06	2.73340e-06	2.79605e-06	2.86797e-06
1.00000e-09	2.66078e-06	2.68544e-06	2.73340e-06	2.79605e-06	2.86797e-06

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	9.42031e-20	1.45292e-19	2.13546e-19	3.03259e-19	4.20090e-19
1.00000e+07	1.98723e-17	3.01920e-17	4.46037e-17	6.47276e-17	9.29107e-17
1.00000e+06	2.99705e-14	5.36786e-14	8.99091e-14	1.43395e-13	2.20508e-13
100000.	3.68249e-11	5.65358e-11	8.20284e-11	1.14174e-10	1.54013e-10
10000.0	3.09646e-09	3.91180e-09	4.80886e-09	5.80004e-09	6.90066e-09
1000.00	4.28212e-08	5.15890e-08	6.10243e-08	7.12500e-08	8.24082e-08
100.000	3.45545e-07	3.99169e-07	4.53688e-07	5.09685e-07	5.67748e-07
10.0000	1.09164e-06	1.17929e-06	1.26844e-06	1.36101e-06	1.45864e-06
1.00000	2.19139e-06	2.35533e-06	2.51548e-06	2.67423e-06	2.83370e-06
0.100000	2.89770e-06	2.99115e-06	3.08955e-06	3.19402e-06	3.30563e-06
0.0100000	2.94282e-06	3.02951e-06	3.12303e-06	3.22383e-06	3.33254e-06
0.00100000	2.94679e-06	3.03297e-06	3.12610e-06	3.22659e-06	3.33506e-06
0.000100000	2.94718e-06	3.03331e-06	3.12641e-06	3.22687e-06	3.33531e-06
1.00000e-05	2.94722e-06	3.03334e-06	3.12644e-06	3.22690e-06	3.33534e-06
1.00000e-06	2.94722e-06	3.03335e-06	3.12644e-06	3.22690e-06	3.33534e-06
1.00000e-07	2.94722e-06	3.03335e-06	3.12644e-06	3.22690e-06	3.33534e-06
1.00000e-08	2.94722e-06	3.03335e-06	3.12644e-06	3.22690e-06	3.33534e-06

1.00000e-09 | 2.94722e-06 3.03335e-06 3.12644e-06 3.22690e-06 3.33534e-06

Pa\K | 120.000 130.000 140.000 150.000 160.000

1.00000e+08 | 5.71599e-19 7.68011e-19 1.02331e-18 1.35683e-18 1.79550e-18
1.00000e+07 | 1.32598e-16 1.88924e-16 2.69661e-16 3.86774e-16 5.58993e-16
1.00000e+06 | 3.29944e-13 4.83707e-13 6.98549e-13 9.98053e-13 1.41565e-12
100000. | 2.02820e-10 2.62180e-10 3.34081e-10 4.21031e-10 5.26195e-10
10000.0 | 8.12963e-09 9.51029e-09 1.10714e-08 1.28484e-08 1.48848e-08
1000.00 | 9.46669e-08 1.08226e-07 1.23328e-07 1.40261e-07 1.59374e-07
100.000 | 6.28502e-07 6.92627e-07 7.60889e-07 8.34149e-07 9.13386e-07
10.0000 | 1.56287e-06 1.67525e-06 1.79748e-06 1.93139e-06 2.07903e-06
1.00000 | 2.99587e-06 3.16267e-06 3.33605e-06 3.51802e-06 3.71070e-06
0.100000 | 3.42543e-06 3.55462e-06 3.69454e-06 3.84665e-06 4.01262e-06
0.0100000 | 3.45000e-06 3.57726e-06 3.71554e-06 3.86625e-06 4.03100e-06
0.00100000 | 3.45232e-06 3.57941e-06 3.71755e-06 3.86813e-06 4.03278e-06
0.000100000 | 3.45255e-06 3.57963e-06 3.71775e-06 3.86832e-06 4.03295e-06
1.00000e-05 | 3.45258e-06 3.57965e-06 3.71777e-06 3.86834e-06 4.03297e-06
1.00000e-06 | 3.45258e-06 3.57965e-06 3.71777e-06 3.86834e-06 4.03297e-06
1.00000e-07 | 3.45258e-06 3.57965e-06 3.71777e-06 3.86834e-06 4.03297e-06
1.00000e-08 | 3.45258e-06 3.57965e-06 3.71777e-06 3.86834e-06 4.03297e-06
1.00000e-09 | 3.45258e-06 3.57965e-06 3.71777e-06 3.86834e-06 4.03297e-06

Pa\K | 170.000 180.000 190.000 200.000 210.000

1.00000e+08 | 2.37727e-18 3.15610e-18 4.20961e-18 5.65097e-18 7.64803e-18
1.00000e+07 | 8.16164e-16 1.20671e-15 1.81074e-15 2.76364e-15 4.29933e-15
1.00000e+06 | 1.99899e-12 2.81637e-12 3.96590e-12 5.58906e-12 7.89027e-12
100000. | 6.53569e-10 8.08201e-10 9.96458e-10 1.22637e-09 1.50809e-09
10000.0 | 1.72345e-08 1.99632e-08 2.31520e-08 2.69001e-08 3.13297e-08
1000.00 | 1.81085e-07 2.05892e-07 2.34393e-07 2.67297e-07 3.05447e-07
100.000 | 9.99717e-07 1.09441e-06 1.19895e-06 1.31497e-06 1.44442e-06
10.0000 | 2.24264e-06 2.42477e-06 2.62818e-06 2.85590e-06 3.11124e-06
1.00000 | 3.91629e-06 4.13716e-06 4.37580e-06 4.63490e-06 4.91731e-06
0.100000 | 4.19431e-06 4.39371e-06 4.61305e-06 4.85477e-06 5.12151e-06
0.0100000 | 4.21161e-06 4.41006e-06 4.62855e-06 4.86950e-06 5.13553e-06
0.00100000 | 4.21328e-06 4.41165e-06 4.63006e-06 4.87094e-06 5.13690e-06
0.000100000 | 4.21345e-06 4.41181e-06 4.63021e-06 4.87108e-06 5.13704e-06
1.00000e-05 | 4.21347e-06 4.41182e-06 4.63023e-06 4.87109e-06 5.13705e-06
1.00000e-06 | 4.21347e-06 4.41182e-06 4.63023e-06 4.87109e-06 5.13705e-06
1.00000e-07 | 4.21347e-06 4.41182e-06 4.63023e-06 4.87110e-06 5.13705e-06
1.00000e-08 | 4.21347e-06 4.41182e-06 4.63023e-06 4.87110e-06 5.13705e-06
1.00000e-09 | 4.21347e-06 4.41182e-06 4.63023e-06 4.87110e-06 5.13705e-06

Pa\K | 220.000 230.000 240.000 250.000 260.000

1.00000e+08 | 1.04556e-17 1.44726e-17 2.03498e-17 2.92031e-17 4.30446e-17
1.00000e+07 | 6.83251e-15 1.11179e-14 1.85659e-14 3.18696e-14 5.62293e-14
1.00000e+06 | 1.11654e-11 1.58434e-11 2.25465e-11 3.21774e-11 4.60443e-11
100000. | 1.85439e-09 2.28145e-09 2.80968e-09 3.46492e-09 4.27980e-09
10000.0 | 3.65906e-08 4.28670e-08 5.03853e-08 5.94243e-08 7.03262e-08
1000.00 | 3.49840e-07 4.01659e-07 4.62294e-07 5.33382e-07 6.16841e-07
100.000 | 1.58950e-06 1.75276e-06 1.93713e-06 2.14601e-06 2.38331e-06
10.0000 | 3.39777e-06 3.71930e-06 4.07990e-06 4.48387e-06 4.93575e-06
1.00000 | 5.22610e-06 5.56461e-06 5.93637e-06 6.34524e-06 6.79535e-06
0.100000 | 5.41616e-06 5.74184e-06 6.10199e-06 6.50030e-06 6.94079e-06
0.0100000 | 5.42953e-06 5.75462e-06 6.11420e-06 6.51199e-06 6.95198e-06
0.00100000 | 5.43084e-06 5.75587e-06 6.11540e-06 6.51313e-06 6.95309e-06
0.000100000 | 5.43097e-06 5.75599e-06 6.11552e-06 6.51325e-06 6.95320e-06
1.00000e-05 | 5.43098e-06 5.75601e-06 6.11553e-06 6.51326e-06 6.95321e-06
1.00000e-06 | 5.43098e-06 5.75601e-06 6.11553e-06 6.51326e-06 6.95321e-06
1.00000e-07 | 5.43098e-06 5.75601e-06 6.11553e-06 6.51326e-06 6.95321e-06
1.00000e-08 | 5.43098e-06 5.75601e-06 6.11553e-06 6.51326e-06 6.95321e-06
1.00000e-09 | 5.43098e-06 5.75601e-06 6.11553e-06 6.51326e-06 6.95321e-06

Pa\K | 270.000 280.000 290.000 300.000 310.000

1.00000e+08 | 6.56413e-17 1.04127e-16 1.71775e-16 2.84311e-16 5.04645e-16
1.00000e+07 | 1.01636e-13 1.86814e-13 3.45355e-13 1.35136e-10 1.14136e-12
1.00000e+06 | 6.60383e-11 9.48750e-11 1.36413e-10 1.59460e-09 2.81083e-10
100000. | 5.29563e-09 6.56454e-09 8.15212e-09 2.87436e-08 1.26301e-08
10000.0 | 8.35119e-08 9.94977e-08 1.18915e-07 3.12126e-07 1.71245e-07
1000.00 | 7.14911e-07 8.30193e-07 9.65697e-07 1.82541e-06 1.31143e-06
100.000 | 2.65350e-06 2.96174e-06 3.31384e-06 4.56972e-06 4.17611e-06
10.0000 | 5.44028e-06 6.00244e-06 6.62740e-06 8.28585e-06 8.08620e-06
1.00000 | 7.29118e-06 7.83753e-06 8.43955e-06 9.84766e-06 9.83154e-06
0.100000 | 7.42782e-06 7.96612e-06 8.56076e-06 9.95310e-06 9.93963e-06
0.0100000 | 7.43856e-06 7.97642e-06 8.57064e-06 9.96171e-06 9.94873e-06
0.00100000 | 7.43962e-06 7.97744e-06 8.57162e-06 9.96256e-06 9.94963e-06
0.000100000 | 7.43972e-06 7.97754e-06 8.57171e-06 9.96264e-06 9.94972e-06

1.00000e-05	7.43973e-06	7.97755e-06	8.57172e-06	9.96265e-06	9.94973e-06
1.00000e-06	7.43973e-06	7.97755e-06	8.57172e-06	9.96265e-06	9.94973e-06
1.00000e-07	7.43973e-06	7.97755e-06	8.57172e-06	9.96265e-06	9.94973e-06
1.00000e-08	7.43973e-06	7.97755e-06	8.57172e-06	9.96265e-06	9.94973e-06
1.00000e-09	7.43973e-06	7.97755e-06	8.57172e-06	9.96265e-06	9.94973e-06

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	3.72283e-07	0.000113009	0.000655400	0.00137845	0.00129183
1.00000e+07	1.63806e-07	4.06321e-05	0.00117022	0.00448637	0.00579094
1.00000e+06	9.21227e-08	9.97493e-06	0.000452572	0.00302820	0.00626268
100000.	3.88442e-07	1.01422e-05	0.000202946	0.00126079	0.00336046
10000.0	2.45820e-06	2.03988e-05	0.000126230	0.000485968	0.00132552
1000.00	7.83588e-06	3.09040e-05	9.97359e-05	0.000254937	0.000563442
100.000	1.48945e-05	4.45909e-05	0.000109061	0.000226931	0.000424575
10.0000	2.11379e-05	5.08092e-05	0.000111873	0.000223846	0.000408875
1.00000	2.21810e-05	5.13038e-05	0.000111945	0.000223417	0.000407276
0.100000	2.22409e-05	5.13332e-05	0.000111945	0.000223372	0.000407117
0.0100000	2.22462e-05	5.13360e-05	0.000111945	0.000223368	0.000407100
0.00100000	2.22468e-05	5.13362e-05	0.000111945	0.000223367	0.000407098
0.000100000	2.22468e-05	5.13363e-05	0.000111945	0.000223367	0.000407098
1.00000e-05	2.22468e-05	5.13363e-05	0.000111945	0.000223367	0.000407098
1.00000e-06	2.22468e-05	5.13363e-05	0.000111945	0.000223367	0.000407098
1.00000e-07	2.22468e-05	5.13363e-05	0.000111945	0.000223367	0.000407098
1.00000e-08	2.22468e-05	5.13363e-05	0.000111945	0.000223367	0.000407098
1.00000e-09	2.22468e-05	5.13363e-05	0.000111945	0.000223367	0.000407098

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.000668029	0.000365860	0.000248260	0.000196481	0.000170569
1.00000e+07	0.00436151	0.00314965	0.00261982	0.00238160	0.00225876
1.00000e+06	0.00785519	0.00810019	0.00785716	0.00754156	0.00723922
100000.	0.00600813	0.00777223	0.00820678	0.00800790	0.00762758
10000.0	0.00288933	0.00438856	0.00486890	0.00482266	0.00476828
1000.00	0.00113559	0.00180102	0.00225001	0.00266266	0.00319194
100.000	0.000734047	0.00115077	0.00164590	0.00223887	0.00293176
10.0000	0.000688680	0.00107762	0.00158059	0.00219576	0.00290696
1.00000	0.000684341	0.00107086	0.00157463	0.00219188	0.00290476
0.100000	0.000683918	0.00107021	0.00157407	0.00219152	0.00290456
0.0100000	0.000683876	0.00107015	0.00157402	0.00219148	0.00290455
0.00100000	0.000683872	0.00107014	0.00157401	0.00219148	0.00290454
0.000100000	0.000683871	0.00107014	0.00157401	0.00219148	0.00290454
1.00000e-05	0.000683871	0.00107014	0.00157401	0.00219148	0.00290454
1.00000e-06	0.000683871	0.00107014	0.00157401	0.00219148	0.00290454
1.00000e-07	0.000683871	0.00107014	0.00157401	0.00219148	0.00290454
1.00000e-08	0.000683871	0.00107014	0.00157401	0.00219148	0.00290454
1.00000e-09	0.000683871	0.00107014	0.00157401	0.00219148	0.00290454

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.000156569	0.000150198	0.000601000	0.00592820	0.00573395
1.00000e+07	0.00217851	0.00211811	0.0114372	0.0105169	0.00937300
1.00000e+06	0.00695971	0.00670950	0.0127872	0.0110006	0.00949312
100000.	0.00726893	0.00702022	0.00975734	0.00889049	0.00836085
10000.0	0.00489500	0.00521068	0.00704917	0.00773979	0.00794771
1000.00	0.00384312	0.00456233	0.00640743	0.00754489	0.00789323
100.000	0.00369581	0.00448485	0.00633285	0.00752490	0.00788823
10.0000	0.00368269	0.00447848	0.00632558	0.00752306	0.00788774
1.00000	0.00368156	0.00447797	0.00632486	0.00752285	0.00788774
0.100000	0.00368146	0.00447792	0.00632480	0.00752285	0.00788769
0.0100000	0.00368145	0.00447792	0.00632480	0.00752285	0.00788769
0.00100000	0.00368145	0.00447791	0.00632480	0.00752285	0.00788769
0.000100000	0.00368145	0.00447791	0.00632480	0.00752285	0.00788769
1.00000e-05	0.00368145	0.00447791	0.00632480	0.00752285	0.00788769
1.00000e-06	0.00368145	0.00447791	0.00632480	0.00752285	0.00788769
1.00000e-07	0.00368145	0.00447791	0.00632480	0.00752285	0.00788769
1.00000e-08	0.00368145	0.00447791	0.00632480	0.00752285	0.00788769
1.00000e-09	0.00368145	0.00447791	0.00632480	0.00752285	0.00788769

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	1.80930e-25	2.74645e-24	1.27398e-23	3.76003e-23	8.75758e-23
1.00000e+07	9.08319e-22	9.77544e-21	3.67523e-20	9.36740e-20	1.95353e-19
1.00000e+06	1.46877e-18	1.23365e-17	4.13990e-17	9.80851e-17	1.93566e-16
100000.	1.21253e-15	8.09385e-15	2.30316e-14	4.77641e-14	8.41751e-14
10000.0	3.56595e-13	1.57092e-12	3.55255e-12	6.29220e-12	9.82257e-12
1000.00	2.83821e-11	8.24920e-11	1.44752e-10	2.13616e-10	2.89531e-10
100.000	5.51929e-10	1.14523e-09	1.72978e-09	2.32959e-09	2.95733e-09

10.0000	4.64813e-09	7.92370e-09	1.07143e-08	1.34234e-08	1.62051e-08
1.00000	2.26094e-08	3.69349e-08	4.94704e-08	6.11832e-08	7.24451e-08
0.100000	8.90355e-08	1.11575e-07	1.23077e-07	1.31846e-07	1.39790e-07
0.0100000	1.29816e-07	1.34110e-07	1.38511e-07	1.43685e-07	1.49492e-07
0.00100000	1.34165e-07	1.36262e-07	1.39977e-07	1.44817e-07	1.50427e-07
0.000100000	1.34591e-07	1.36475e-07	1.40123e-07	1.44930e-07	1.50520e-07
1.00000e-05	1.34634e-07	1.36496e-07	1.40137e-07	1.44941e-07	1.50529e-07
1.00000e-06	1.34638e-07	1.36498e-07	1.40139e-07	1.44942e-07	1.50530e-07
1.00000e-07	1.34639e-07	1.36499e-07	1.40139e-07	1.44942e-07	1.50530e-07
1.00000e-08	1.34639e-07	1.36499e-07	1.40139e-07	1.44942e-07	1.50530e-07
1.00000e-09	1.34639e-07	1.36499e-07	1.40139e-07	1.44942e-07	1.50530e-07

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	1.76744e-22	3.24703e-22	5.59153e-22	9.19852e-22	1.46484e-21
1.00000e+07	3.61196e-19	6.17438e-19	1.00028e-18	1.56055e-18	2.37087e-18
1.00000e+06	3.41843e-16	5.61117e-16	8.75559e-16	1.31781e-15	1.93267e-15
100000.	1.34591e-13	2.02033e-13	2.90406e-13	4.04845e-13	5.52133e-13
10000.0	1.42122e-11	1.95669e-11	2.60318e-11	3.37985e-11	4.31164e-11
1000.00	3.73590e-10	4.67308e-10	5.72570e-10	6.91681e-10	8.27493e-10
100.000	3.62405e-09	4.34132e-09	5.12186e-09	5.98014e-09	6.93334e-09
10.0000	1.91511e-08	2.23347e-08	2.58253e-08	2.96962e-08	3.40303e-08
1.00000	8.35023e-08	9.45550e-08	1.05776e-07	1.17323e-07	1.29353e-07
0.100000	1.47594e-07	1.55596e-07	1.64006e-07	1.72981e-07	1.82664e-07
0.0100000	1.55889e-07	1.62897e-07	1.70568e-07	1.78975e-07	1.88209e-07
0.00100000	1.56692e-07	1.63607e-07	1.71209e-07	1.79562e-07	1.88753e-07
0.000100000	1.56772e-07	1.63678e-07	1.71273e-07	1.79620e-07	1.88807e-07
1.00000e-05	1.56780e-07	1.63685e-07	1.71279e-07	1.79626e-07	1.88812e-07
1.00000e-06	1.56781e-07	1.63685e-07	1.71280e-07	1.79627e-07	1.88813e-07
1.00000e-07	1.56781e-07	1.63686e-07	1.71280e-07	1.79627e-07	1.88813e-07
1.00000e-08	1.56781e-07	1.63686e-07	1.71280e-07	1.79627e-07	1.88813e-07
1.00000e-09	1.56781e-07	1.63686e-07	1.71280e-07	1.79627e-07	1.88813e-07

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	2.28033e-21	3.49671e-21	5.31471e-21	8.04911e-21	1.22026e-20
1.00000e+07	3.53677e-18	5.21435e-18	7.63835e-18	1.11678e-17	1.63607e-17
1.00000e+06	2.78251e-15	3.95540e-15	5.57727e-15	7.83008e-15	1.09793e-14
100000.	7.41319e-13	9.84592e-13	1.29849e-12	1.70560e-12	2.23694e-12
10000.0	5.43094e-11	6.77984e-11	8.41307e-11	1.04019e-10	1.28389e-10
1000.00	9.83574e-10	1.16442e-09	1.37572e-09	1.62472e-09	1.92059e-09
100.000	8.00234e-09	9.21291e-09	1.05972e-08	1.21954e-08	1.40581e-08
10.0000	3.89257e-08	4.45005e-08	5.08986e-08	5.82954e-08	6.69036e-08
1.00000	1.42031e-07	1.55535e-07	1.70065e-07	1.85845e-07	2.03132e-07
0.100000	1.93204e-07	2.04763e-07	2.17522e-07	2.31693e-07	2.47519e-07
0.0100000	1.98385e-07	2.09643e-07	2.22153e-07	2.36113e-07	2.51760e-07
0.00100000	1.98894e-07	2.10124e-07	2.22609e-07	2.36549e-07	2.52179e-07
0.000100000	1.98945e-07	2.10171e-07	2.22655e-07	2.36593e-07	2.52221e-07
1.00000e-05	1.98950e-07	2.10176e-07	2.22659e-07	2.36597e-07	2.52225e-07
1.00000e-06	1.98950e-07	2.10177e-07	2.22660e-07	2.36598e-07	2.52225e-07
1.00000e-07	1.98950e-07	2.10177e-07	2.22660e-07	2.36598e-07	2.52226e-07
1.00000e-08	1.98950e-07	2.10177e-07	2.22660e-07	2.36598e-07	2.52226e-07
1.00000e-09	1.98950e-07	2.10177e-07	2.22660e-07	2.36598e-07	2.52226e-07

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	1.85942e-20	2.85859e-20	4.44971e-20	7.03820e-20	1.13546e-19
1.00000e+07	2.41000e-17	3.58075e-17	5.38176e-17	8.20459e-17	1.27216e-16
1.00000e+06	1.54159e-14	2.17201e-14	3.07596e-14	4.38417e-14	6.29507e-14
100000.	2.93526e-12	3.85975e-12	5.09254e-12	6.74795e-12	8.98537e-12
10000.0	1.58450e-10	1.95776e-10	2.42423e-10	3.01073e-10	3.75239e-10
1000.00	2.27504e-09	2.70298e-09	3.22343e-09	3.86067e-09	4.64573e-09
100.000	1.62488e-08	1.88477e-08	2.19563e-08	2.57026e-08	3.02496e-08
10.0000	7.69806e-08	8.88361e-08	1.02841e-07	1.19433e-07	1.39131e-07
1.00000	2.22215e-07	2.43427e-07	2.67147e-07	2.93809e-07	3.23909e-07
0.100000	2.65279e-07	2.85292e-07	3.07929e-07	3.33616e-07	3.62840e-07
0.0100000	2.69366e-07	2.89249e-07	3.11774e-07	3.37363e-07	3.66504e-07
0.00100000	2.69770e-07	2.89641e-07	3.12155e-07	3.37735e-07	3.66868e-07
0.000100000	2.69811e-07	2.89680e-07	3.12193e-07	3.37772e-07	3.66904e-07
1.00000e-05	2.69815e-07	2.89684e-07	3.12197e-07	3.37775e-07	3.66908e-07
1.00000e-06	2.69815e-07	2.89684e-07	3.12197e-07	3.37776e-07	3.66908e-07
1.00000e-07	2.69815e-07	2.89684e-07	3.12197e-07	3.37776e-07	3.66908e-07
1.00000e-08	2.69815e-07	2.89684e-07	3.12197e-07	3.37776e-07	3.66908e-07
1.00000e-09	2.69815e-07	2.89684e-07	3.12197e-07	3.37776e-07	3.66908e-07

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	1.87613e-19	3.18997e-19	5.60905e-19	1.02393e-18	1.94156e-18
1.00000e+07	2.01179e-16	3.25426e-16	5.40017e-16	9.21362e-16	1.61684e-15
1.00000e+06	9.11171e-14	1.33003e-13	1.95823e-13	2.90801e-13	4.35461e-13

100000.	1.20275e-11	1.61852e-11	2.18939e-11	2.97615e-11	4.06366e-11
10000.0	4.69517e-10	5.89933e-10	7.44395e-10	9.43287e-10	1.20024e-09
1000.00	5.61827e-09	6.82913e-09	8.34339e-09	1.02444e-08	1.26392e-08
100.000	3.58035e-08	4.26263e-08	5.10502e-08	6.14957e-08	7.44933e-08
10.0000	1.62544e-07	1.90377e-07	2.23448e-07	2.62696e-07	3.09199e-07
1.00000	3.58016e-07	3.96783e-07	4.40953e-07	4.91386e-07	5.49057e-07
0.100000	3.96163e-07	4.34229e-07	4.77779e-07	5.27661e-07	5.84848e-07
0.0100000	3.99755e-07	4.37760e-07	4.81257e-07	5.31094e-07	5.88244e-07
0.00100000	4.00112e-07	4.38111e-07	4.81603e-07	5.31436e-07	5.88581e-07
0.000100000	4.00148e-07	4.38146e-07	4.81637e-07	5.31470e-07	5.88615e-07
1.00000e-05	4.00151e-07	4.38150e-07	4.81641e-07	5.31473e-07	5.88618e-07
1.00000e-06	4.00152e-07	4.38150e-07	4.81641e-07	5.31474e-07	5.88618e-07
1.00000e-07	4.00152e-07	4.38150e-07	4.81641e-07	5.31474e-07	5.88618e-07
1.00000e-08	4.00152e-07	4.38150e-07	4.81641e-07	5.31474e-07	5.88618e-07
1.00000e-09	4.00152e-07	4.38150e-07	4.81641e-07	5.31474e-07	5.88618e-07

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	3.80289e-18	7.60038e-18	1.52413e-17	4.24013e-13	5.78897e-17
1.00000e+07	2.90905e-15	5.32556e-15	9.80678e-15	7.00385e-12	3.21178e-14
1.00000e+06	6.57158e-13	9.98389e-13	1.52439e-12	3.33664e-11	3.56842e-12
100000.	5.56999e-11	7.65864e-11	1.05543e-10	5.86559e-10	2.00907e-10
10000.0	1.53313e-09	1.96534e-09	2.52732e-09	7.59902e-09	4.20830e-09
1000.00	1.56644e-08	1.94945e-08	2.43508e-08	4.97739e-08	3.83204e-08
100.000	9.07092e-08	1.10974e-07	1.36314e-07	2.08747e-07	2.07453e-07
10.0000	3.64174e-07	4.29007e-07	5.05247e-07	5.93474e-07	6.98955e-07
1.00000	6.15087e-07	6.90749e-07	7.77487e-07	7.91877e-07	9.90749e-07
0.100000	6.50451e-07	7.25741e-07	8.12156e-07	8.16342e-07	1.02490e-06
0.0100000	6.53816e-07	7.29079e-07	8.15472e-07	8.18732e-07	1.02818e-06
0.00100000	6.54150e-07	7.29411e-07	8.15803e-07	8.18970e-07	1.02850e-06
0.000100000	6.54183e-07	7.29445e-07	8.15836e-07	8.18993e-07	1.02854e-06
1.00000e-05	6.54187e-07	7.29448e-07	8.15839e-07	8.18996e-07	1.02854e-06
1.00000e-06	6.54187e-07	7.29448e-07	8.15840e-07	8.18996e-07	1.02854e-06
1.00000e-07	6.54187e-07	7.29448e-07	8.15840e-07	8.18996e-07	1.02854e-06
1.00000e-08	6.54187e-07	7.29448e-07	8.15840e-07	8.18996e-07	1.02854e-06
1.00000e-09	6.54187e-07	7.29448e-07	8.15840e-07	8.18996e-07	1.02854e-06

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	1.50824e-07	6.65969e-05	0.000422780	0.000932280	0.000896536
1.00000e+07	3.65755e-08	2.33662e-05	0.000926047	0.00390326	0.00520928
1.00000e+06	9.53840e-09	4.18956e-06	0.000352232	0.00279139	0.00614076
100000.	2.59345e-08	2.72506e-06	0.000122954	0.00105914	0.00325813
10000.0	1.50398e-07	3.50193e-06	4.99246e-05	0.000316122	0.00114321
1000.00	5.45005e-07	5.10356e-06	3.10085e-05	0.000123435	0.000380162
100.000	1.59998e-06	8.88259e-06	3.41803e-05	0.000100937	0.000248408
10.0000	2.70288e-06	1.06872e-05	3.55140e-05	9.88941e-05	0.000233950
1.00000	2.94688e-06	1.09220e-05	3.56485e-05	9.86777e-05	0.000232499
0.100000	2.97124e-06	1.09445e-05	3.56614e-05	9.86552e-05	0.000232354
0.0100000	2.97365e-06	1.09467e-05	3.56627e-05	9.86533e-05	0.000232340
0.00100000	2.97389e-06	1.09469e-05	3.56628e-05	9.86533e-05	0.000232338
0.000100000	2.97391e-06	1.09470e-05	3.56628e-05	9.86533e-05	0.000232338
1.00000e-05	2.97391e-06	1.09470e-05	3.56628e-05	9.86533e-05	0.000232338
1.00000e-06	2.97391e-06	1.09470e-05	3.56628e-05	9.86533e-05	0.000232338
1.00000e-07	2.97391e-06	1.09470e-05	3.56628e-05	9.86533e-05	0.000232338
1.00000e-08	2.97391e-06	1.09470e-05	3.56628e-05	9.86533e-05	0.000232338
1.00000e-09	2.97391e-06	1.09470e-05	3.56628e-05	9.86533e-05	0.000232338

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.000484209	0.000293786	0.000228359	0.000193707	0.000160248
1.00000e+07	0.00397325	0.00289780	0.00244744	0.00225168	0.00213368
1.00000e+06	0.00783954	0.00811825	0.00788891	0.00758296	0.00728393
100000.	0.00606614	0.00789553	0.00834097	0.00814642	0.00777884
10000.0	0.00279998	0.00437059	0.00487381	0.00485044	0.00483929
1000.00	0.000944992	0.00162882	0.00210842	0.00257749	0.00318776
100.000	0.000526504	0.000941617	0.00147006	0.00213038	0.00291422
10.0000	0.000479238	0.000864118	0.00140086	0.00208476	0.00288808
1.00000	0.000474682	0.000856902	0.00139450	0.00208062	0.00288576
0.100000	0.000474236	0.000856214	0.00139391	0.00208024	0.00288555
0.0100000	0.000474191	0.000856147	0.00139384	0.00208021	0.00288553
0.00100000	0.000474187	0.000856147	0.00139384	0.00208020	0.00288553
0.000100000	0.000474187	0.000856147	0.00139384	0.00208020	0.00288553
1.00000e-05	0.000474187	0.000856147	0.00139384	0.00208020	0.00288553
1.00000e-06	0.000474187	0.000856147	0.00139384	0.00208020	0.00288553
1.00000e-07	0.000474187	0.000856147	0.00139384	0.00208020	0.00288553
1.00000e-08	0.000474187	0.000856147	0.00139384	0.00208020	0.00288553
1.00000e-09	0.000474187	0.000856147	0.00139384	0.00208020	0.00288553

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
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1.00000e+08	0.000128716	0.000107214	0.00547703	0.00544450	0.00538105
1.00000e+07	0.00202153	0.00190047	0.0105234	0.00983306	0.00899335
1.00000e+06	0.00699928	0.00673427	0.0119308	0.0105133	0.00931901
100000.	0.00744324	0.00722476	0.00951171	0.00887018	0.00843711
10000.0	0.00502659	0.00540896	0.00722028	0.00790204	0.00808788
1000.00	0.00393130	0.00473957	0.00666101	0.00773195	0.00804055
100.000	0.00377754	0.00465974	0.00659605	0.00771462	0.00803624
10.0000	0.00376385	0.00465327	0.00658980	0.00771299	0.00803590
1.00000	0.00376268	0.00465275	0.00658920	0.00771283	0.00803585
0.100000	0.00376258	0.00465271	0.00658914	0.00771283	0.00803585
0.0100000	0.00376257	0.00465271	0.00658914	0.00771283	0.00803585
0.00100000	0.00376256	0.00465271	0.00658914	0.00771283	0.00803585
0.000100000	0.00376256	0.00465271	0.00658914	0.00771283	0.00803585
1.00000e-05	0.00376256	0.00465271	0.00658914	0.00771283	0.00803585
1.00000e-06	0.00376256	0.00465271	0.00658914	0.00771283	0.00803585
1.00000e-07	0.00376256	0.00465271	0.00658914	0.00771283	0.00803585
1.00000e-08	0.00376256	0.00465271	0.00658914	0.00771283	0.00803585
1.00000e-09	0.00376256	0.00465271	0.00658914	0.00771283	0.00803585

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	3.03571e-10	2.03392e-09	5.65979e-09	1.13061e-08	1.90245e-08
1.00000e+07	1.00225e-07	4.60698e-07	1.05589e-06	1.86705e-06	2.88408e-06
1.00000e+06	1.18701e-05	4.51916e-05	9.32197e-05	0.000151956	0.000218771
100000.	0.000658805	0.00155432	0.00222571	0.00269647	0.00302243
10000.0	0.00356154	0.00335570	0.00311893	0.00295345	0.00283195
1000.00	0.00242171	0.00208282	0.00190552	0.00178546	0.00169413
100.000	0.00136693	0.00103399	0.000833132	0.000689185	0.000578603
10.0000	0.000252722	6.36827e-05	2.04812e-05	7.69175e-06	3.23338e-06
1.00000	8.81178e-08	9.70464e-10	5.66591e-11	7.26003e-12	1.47225e-12
0.100000	5.81125e-15	3.11756e-17	1.86618e-18	2.80471e-19	6.86489e-20
0.0100000	5.21536e-22	7.12305e-24	7.53806e-25	1.72630e-25	5.95423e-26
0.00100000	1.20138e-27	4.28399e-29	7.52782e-30	2.44006e-30	1.09960e-30
0.000100000	4.53689e-32	3.21345e-33	8.13453e-34	3.38855e-34	1.85319e-34
1.00000e-05	1.28352e-35	1.50900e-36	5.02146e-37	2.52807e-37	1.60135e-37
1.00000e-06	1.65642e-38	2.89813e-39	1.19844e-39	7.01968e-40	5.00180e-40
1.00000e-07	7.24853e-41	1.79241e-41	9.05249e-42	6.12770e-42	4.89932e-42
1.00000e-08	1.05240e-42	3.96314e-43	2.53869e-43	2.01711e-43	1.81448e-43
1.00000e-09	5.61453e-44	2.73168e-44	1.93945e-44	1.63007e-44	1.51961e-44

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	2.88647e-08	4.08997e-08	5.52342e-08	7.20107e-08	9.14157e-08
1.00000e+07	4.10301e-06	5.52480e-06	7.15455e-06	9.00117e-06	1.10775e-05
1.00000e+06	0.000291861	0.000369965	0.000452177	0.000537844	0.000626494
100000.	0.00324713	0.00340097	0.00350481	0.00357303	0.00361569
10000.0	0.00273751	0.00266090	0.00259674	0.00254170	0.00249357
1000.00	0.00161984	0.00155669	0.00150132	0.00145160	0.00140613
100.000	0.000490379	0.000418288	0.000358404	0.000308065	0.000265374
10.0000	1.48295e-06	7.29338e-07	3.79932e-07	2.07730e-07	1.18381e-07
1.00000	4.03453e-13	1.36748e-13	5.42894e-14	2.43589e-14	1.20514e-14
0.100000	2.27947e-20	9.33888e-21	4.46402e-21	2.40188e-21	1.41967e-21
0.0100000	2.64957e-26	1.40331e-26	8.43916e-27	5.59381e-27	4.00657e-27
0.00100000	6.09639e-31	3.89956e-31	2.77126e-31	2.13653e-31	1.75883e-31
0.000100000	1.20524e-34	8.84408e-35	7.09864e-35	6.11087e-35	5.56861e-35
1.00000e-05	1.17593e-37	9.58113e-38	8.43857e-38	7.90231e-38	7.78174e-38
1.00000e-06	4.04878e-40	3.58771e-40	3.40409e-40	3.41009e-40	3.57309e-40
1.00000e-07	4.36837e-42	4.20956e-42	4.30288e-42	4.61033e-42	5.13735e-42
1.00000e-08	1.77290e-43	1.83933e-43	1.99882e-43	2.25575e-43	2.62877e-43
1.00000e-09	1.52211e-44	1.60841e-44	1.77286e-44	2.02357e-44	2.38024e-44

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	1.13688e-07	1.39127e-07	1.68110e-07	2.01105e-07	2.38692e-07
1.00000e+07	1.34006e-05	1.59922e-05	1.88798e-05	2.20968e-05	2.56845e-05
1.00000e+06	0.000717793	0.000811511	0.000907504	0.00100569	0.00110601
100000.	0.00363990	0.00365075	0.00365193	0.00364611	0.00363526
10000.0	0.00245082	0.00241237	0.00237739	0.00234525	0.00231549
1000.00	0.00136392	0.00132423	0.00128652	0.00125034	0.00121533
100.000	0.000228923	0.000197637	0.000170677	0.000147374	0.000127187
10.0000	6.99336e-08	4.26400e-08	2.67383e-08	1.71935e-08	1.13096e-08
1.00000	6.45901e-15	3.70120e-15	2.24506e-15	1.43040e-15	9.51421e-16
0.100000	9.06006e-22	6.16435e-22	4.42937e-22	3.33699e-22	2.62127e-22
0.0100000	3.05850e-27	2.46390e-27	2.07963e-27	1.82947e-27	1.67149e-27
0.00100000	1.52920e-31	1.39343e-31	1.32360e-31	1.30630e-31	1.33804e-31
0.000100000	5.32310e-35	5.30350e-35	5.48216e-35	5.86112e-35	6.47006e-35
1.00000e-05	7.99668e-38	8.52860e-38	9.40260e-38	1.06844e-37	1.24872e-37

1.00000e-06	3.89057e-40	4.38195e-40	5.08794e-40	6.07520e-40	7.44608e-40
1.00000e-07	5.92155e-42	7.03337e-42	8.58475e-42	1.07464e-41	1.37762e-41
1.00000e-08	3.15120e-43	3.87516e-43	4.87930e-43	6.28180e-43	8.26127e-43
1.00000e-09	2.87562e-44	3.55987e-44	4.50817e-44	5.83331e-44	7.70575e-44

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	2.81590e-07	3.30692e-07	3.87106e-07	4.52216e-07	5.27766e-07
1.00000e+07	2.96927e-05	3.41814e-05	3.92228e-05	4.49041e-05	5.13295e-05
1.00000e+06	0.00120848	0.00131308	0.00141981	0.00152865	0.00163957
100000.	0.00362081	0.00360386	0.00358519	0.00356538	0.00354486
10000.0	0.00228768	0.00226150	0.00223670	0.00221305	0.00219032
1000.00	0.00118120	0.00114771	0.00111465	0.00108184	0.00104914
100.000	0.000109676	9.44709e-05	8.12673e-05	6.98049e-05	5.98617e-05
10.0000	7.59450e-09	5.19721e-09	3.61938e-09	2.56186e-09	1.84117e-09
1.00000	6.57436e-16	4.70104e-16	3.46748e-16	2.63151e-16	2.05057e-16
0.100000	2.13779e-22	1.80439e-22	1.57280e-22	1.41444e-22	1.31334e-22
0.0100000	1.58322e-27	1.55555e-27	1.59260e-27	1.71911e-27	2.00432e-27
0.00100000	1.42567e-31	1.59296e-31	1.90177e-31	2.51292e-31	3.86538e-31
0.000100000	7.37510e-35	8.70684e-35	1.07363e-34	1.40885e-34	2.03750e-34
1.00000e-05	1.49893e-37	1.84676e-37	2.33632e-37	3.04185e-37	4.10110e-37
1.00000e-06	9.35538e-40	1.20380e-39	1.58550e-39	2.13709e-39	2.94931e-39
1.00000e-07	1.80667e-41	2.42207e-41	3.31782e-41	4.64264e-41	6.63593e-41
1.00000e-08	1.10907e-42	1.51923e-42	2.12299e-42	3.02617e-42	4.40034e-42
1.00000e-09	1.03862e-43	1.42784e-43	2.00176e-43	2.86183e-43	4.17263e-43

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	6.15961e-07	7.19631e-07	8.42436e-07	9.89190e-07	1.16629e-06
1.00000e+07	5.86248e-05	6.69418e-05	7.64640e-05	8.74138e-05	0.000100062
1.00000e+06	0.00175249	0.00186729	0.00198380	0.00210180	0.00222104
100000.	0.00352397	0.00350291	0.00348187	0.00346096	0.00344026
10000.0	0.00216836	0.00214700	0.00212610	0.00210553	0.00208516
1000.00	0.00101641	0.000983546	0.000950490	0.000917178	0.000883578
100.000	5.12466e-05	4.37938e-05	3.73583e-05	3.18126e-05	2.70446e-05
10.0000	1.34239e-09	9.92207e-10	7.43049e-10	5.63541e-10	4.32691e-10
1.00000	1.63805e-16	1.33982e-16	1.12124e-16	9.59749e-17	8.40622e-17
0.100000	1.26344e-22	1.26972e-22	1.35488e-22	1.57746e-22	2.07693e-22
0.0100000	2.62830e-27	4.06807e-27	7.63093e-27	1.70224e-26	4.30576e-26
0.00100000	7.22023e-31	1.63660e-30	4.31166e-30	1.25458e-29	3.88587e-29
0.000100000	3.41685e-34	6.94179e-34	1.70996e-33	4.89008e-33	1.54043e-32
1.00000e-05	5.80704e-37	8.88981e-37	1.54558e-36	3.22875e-36	8.28601e-36
1.00000e-06	4.17377e-39	6.08050e-39	9.20193e-39	1.47541e-38	2.60352e-38
1.00000e-07	9.69052e-41	1.44655e-40	2.20994e-40	3.46425e-40	5.60399e-40
1.00000e-08	6.52837e-42	9.88504e-42	1.52826e-41	2.41400e-41	3.89979e-41
1.00000e-09	6.20580e-43	9.41747e-43	1.45875e-42	2.30743e-42	3.72923e-42

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	1.38235e-06	1.64899e-06	1.98171e-06	8.18359e-06	2.93088e-06
1.00000e+07	0.000114734	0.000131825	0.000151798	0.000348117	0.000202510
1.00000e+06	0.00234115	0.00246178	0.00258246	0.00308509	0.00282156
100000.	0.00341981	0.00339965	0.00337980	0.00337673	0.00334051
10000.0	0.00206489	0.00204460	0.00202420	0.00197029	0.00198237
1000.00	0.000849679	0.000815493	0.000781052	0.000648000	0.000711536
100.000	2.29547e-05	1.94550e-05	1.64677e-05	1.37785e-05	1.17614e-05
10.0000	3.36248e-10	2.64424e-10	2.10409e-10	1.63515e-09	1.38005e-09
1.00000	7.54451e-17	6.95918e-17	6.63442e-17	2.99246e-14	6.94507e-17
0.100000	3.18438e-22	5.69688e-22	1.15636e-21	3.97738e-18	5.98893e-21
0.0100000	1.18069e-25	3.40518e-25	1.01417e-24	6.78058e-21	9.48376e-24
0.00100000	1.25307e-28	4.15070e-28	1.39941e-27	1.83049e-23	1.63004e-26
0.000100000	5.14434e-32	1.77973e-31	6.29062e-31	3.72106e-26	8.08877e-30
1.00000e-05	2.52130e-35	8.55870e-35	3.08537e-34	2.72123e-28	4.31435e-33
1.00000e-06	5.34859e-38	1.33928e-37	4.05622e-37	5.89512e-30	5.22624e-36
1.00000e-07	9.47164e-40	1.71508e-39	3.47192e-39	2.57881e-31	2.35615e-38
1.00000e-08	6.45503e-41	1.09862e-40	1.93657e-40	2.04672e-32	7.15678e-40
1.00000e-09	6.16214e-42	1.04194e-41	1.80515e-41	1.98750e-33	5.88699e-41

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	0.000431514	0.00516934	0.00888918	0.00879970	0.00536718
1.00000e+07	0.00170449	0.00464362	0.00586042	0.00391439	0.00187206
1.00000e+06	0.00403433	0.00448527	0.00412241	0.00220056	0.000762317
100000.	0.00317900	0.00289039	0.00219285	0.000966656	0.000322205
10000.0	0.00167193	0.00121302	0.000667115	0.000244493	8.89498e-05
1000.00	0.000340126	0.000149316	6.24879e-05	2.42608e-05	1.16378e-05
100.000	3.61618e-06	1.35927e-06	8.18696e-07	6.01790e-07	5.49294e-07
10.0000	7.06947e-10	9.95336e-10	2.63185e-09	7.01556e-09	1.70757e-08
1.00000	1.53247e-13	4.05482e-12	2.03001e-11	1.14613e-10	6.65003e-10
0.100000	1.21928e-15	1.04092e-13	4.83903e-13	3.15977e-12	3.48726e-11

0.0100000	1.61590e-17	2.00658e-15	1.07401e-14	1.20866e-13	2.21643e-12
0.00100000	7.37540e-20	1.26565e-17	1.18926e-16	5.63591e-15	1.54588e-13
0.000100000	1.30933e-22	3.74845e-20	1.69590e-18	3.19336e-16	1.14940e-14
1.00000e-05	3.08554e-25	1.61562e-22	6.32709e-20	2.07104e-17	8.90757e-16
1.00000e-06	2.42706e-27	2.61615e-24	3.63220e-21	1.50667e-18	7.21205e-17
1.00000e-07	8.96529e-29	1.38978e-25	2.71620e-22	1.25799e-19	6.33588e-18
1.00000e-08	7.29213e-30	1.22230e-26	2.53725e-23	1.20603e-20	6.14390e-19
1.00000e-09	7.11712e-31	1.20423e-27	2.51702e-24	1.20011e-21	6.12184e-20

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.00265350	0.00165575	0.00143485	0.00190757	0.00346644
1.00000e+07	0.00112097	0.000900815	0.000956479	0.00144018	0.00279627
1.00000e+06	0.000338237	0.000260992	0.000312993	0.000526913	0.00106411
100000.	0.000130189	7.92303e-05	8.44785e-05	0.000138475	0.000279172
10000.0	4.07975e-05	2.49353e-05	2.44191e-05	3.51435e-05	6.14804e-05
1000.00	6.59617e-06	4.26969e-06	3.87390e-06	4.80469e-06	7.13448e-06
100.000	4.68060e-07	3.65088e-07	3.42526e-07	4.00660e-07	5.44447e-07
10.0000	2.55617e-08	2.60435e-08	2.66182e-08	3.01854e-08	3.88489e-08
1.00000	1.59770e-09	2.00236e-09	2.14309e-09	2.29941e-09	2.85122e-09
0.100000	1.16993e-10	1.66653e-10	1.78095e-10	1.77352e-10	2.17714e-10
0.0100000	9.37135e-12	1.43465e-11	1.48568e-11	1.36921e-11	1.73210e-11
0.00100000	7.69555e-13	1.22154e-12	1.20878e-12	1.04126e-12	1.42979e-12
0.000100000	6.35314e-14	1.01394e-13	9.52639e-14	7.79601e-14	1.21964e-13
1.00000e-05	5.22188e-15	8.21879e-15	7.34645e-15	5.82511e-15	1.07598e-14
1.00000e-06	4.34599e-16	6.70944e-16	5.76919e-16	4.52483e-16	9.87537e-16
1.00000e-07	3.86182e-17	5.89448e-17	4.97226e-17	3.90964e-17	9.47751e-17
1.00000e-08	3.75607e-18	5.72161e-18	4.80970e-18	3.78873e-18	9.40177e-18
1.00000e-09	3.74397e-19	5.70197e-19	4.79140e-19	3.77523e-19	9.39333e-19

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.00630675	0.00926339	0.000477383	0.000528431	0.000520050
1.00000e+07	0.00575522	0.0100785	0.000539589	0.000520954	0.000471345
1.00000e+06	0.00211189	0.00360010	0.000492239	0.000357359	0.000244448
100000.	0.000538293	0.000837060	0.000207253	0.000105508	5.26939e-05
10000.0	0.000104863	0.000142195	3.75457e-05	1.47541e-05	6.23099e-06
1000.00	1.09678e-05	1.40754e-05	4.10164e-06	1.50815e-06	6.15856e-07
100.000	8.41225e-07	1.14897e-06	4.00268e-07	1.47517e-07	6.01957e-08
10.0000	6.43974e-08	9.70230e-08	3.90590e-08	1.45147e-08	5.93449e-09
1.00000	5.25242e-09	8.67509e-09	3.84580e-09	1.43752e-09	5.88563e-10
0.100000	4.55041e-10	8.09169e-10	3.81002e-10	1.42932e-10	5.85686e-11
0.0100000	4.14626e-11	7.78245e-11	3.78808e-11	1.42442e-11	5.83990e-12
0.00100000	3.92131e-12	7.63864e-12	3.78124e-12	1.42293e-12	5.83495e-13
0.000100000	3.78461e-13	7.56205e-13	3.77893e-13	1.42242e-13	5.83323e-14
1.00000e-05	3.69773e-14	7.51619e-14	3.77777e-14	1.42216e-14	5.83240e-15
1.00000e-06	3.64673e-15	7.49021e-15	3.77714e-15	1.42203e-15	5.83196e-16
1.00000e-07	3.62462e-16	7.47923e-16	3.77701e-16	1.42201e-16	5.83191e-17
1.00000e-08	3.62052e-17	7.47723e-17	3.77700e-17	1.42200e-17	5.83186e-18
1.00000e-09	3.62007e-18	7.47702e-18	3.77699e-18	1.42200e-18	5.83186e-19

PhCCH+CH3

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	1.14331e-22	8.50818e-22	2.61821e-21	5.76189e-21	1.06412e-20
1.00000e+07	5.41762e-20	2.77010e-19	6.75151e-19	1.25810e-18	2.04372e-18
1.00000e+06	6.83398e-18	2.35120e-17	4.60824e-17	7.42049e-17	1.08615e-16
100000.	2.82590e-16	1.19520e-15	3.48830e-15	8.16982e-15	1.65143e-14
10000.0	1.21035e-13	1.03671e-12	3.49542e-12	8.26049e-12	1.61931e-11
1000.00	9.81727e-11	6.09061e-10	1.63114e-09	3.21170e-09	5.40498e-09
100.000	2.05644e-08	7.83618e-08	1.59798e-07	2.58365e-07	3.70052e-07
10.0000	8.31406e-07	1.56971e-06	2.01219e-06	2.31012e-06	2.53449e-06
1.00000	2.74786e-06	3.02711e-06	3.21148e-06	3.37462e-06	3.52807e-06
0.100000	3.52009e-06	3.68587e-06	3.78233e-06	3.87283e-06	3.96586e-06
0.0100000	3.73773e-06	3.77338e-06	3.83213e-06	3.90696e-06	3.99185e-06
0.00100000	3.74878e-06	3.77865e-06	3.83566e-06	3.90964e-06	3.99403e-06
0.000100000	3.74982e-06	3.77917e-06	3.83601e-06	3.90991e-06	3.99425e-06
1.00000e-05	3.74992e-06	3.77922e-06	3.83604e-06	3.90993e-06	3.99427e-06
1.00000e-06	3.74993e-06	3.77922e-06	3.83605e-06	3.90994e-06	3.99427e-06
1.00000e-07	3.74993e-06	3.77922e-06	3.83605e-06	3.90994e-06	3.99427e-06
1.00000e-08	3.74993e-06	3.77922e-06	3.83605e-06	3.90994e-06	3.99427e-06
1.00000e-09	3.74993e-06	3.77922e-06	3.83605e-06	3.90994e-06	3.99427e-06

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	1.76754e-20	2.73857e-20	4.04397e-20	5.77088e-20	8.03480e-20
1.00000e+07	3.05903e-18	4.34195e-18	5.94347e-18	7.93121e-18	1.03948e-17
1.00000e+06	1.50788e-16	2.02982e-16	2.68423e-16	3.51691e-16	4.59345e-16
100000.	3.01881e-14	5.14291e-14	8.32966e-14	1.30037e-13	1.97633e-13

10000.0	2.83250e-11	4.59415e-11	7.06792e-11	1.04654e-10	1.50638e-10
1000.00	8.28410e-09	1.19467e-08	1.65185e-08	2.21589e-08	2.90682e-08
100.000	4.92312e-07	6.23562e-07	7.62838e-07	9.09602e-07	1.06365e-06
10.0000	2.71936e-06	2.88270e-06	3.03478e-06	3.18193e-06	3.32847e-06
1.00000	3.67648e-06	3.82284e-06	3.96933e-06	4.11771e-06	4.26954e-06
0.100000	4.06344e-06	4.16656e-06	4.27592e-06	4.39217e-06	4.51603e-06
0.0100000	4.08454e-06	4.18440e-06	4.29144e-06	4.40594e-06	4.52844e-06
0.00100000	4.08638e-06	4.18601e-06	4.29286e-06	4.40722e-06	4.52960e-06
0.000100000	4.08657e-06	4.18617e-06	4.29300e-06	4.40735e-06	4.52971e-06
1.00000e-05	4.08659e-06	4.18618e-06	4.29301e-06	4.40736e-06	4.52973e-06
1.00000e-06	4.08659e-06	4.18618e-06	4.29301e-06	4.40736e-06	4.52973e-06
1.00000e-07	4.08659e-06	4.18618e-06	4.29301e-06	4.40736e-06	4.52973e-06
1.00000e-08	4.08659e-06	4.18618e-06	4.29301e-06	4.40736e-06	4.52973e-06
1.00000e-09	4.08659e-06	4.18618e-06	4.29301e-06	4.40736e-06	4.52973e-06

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	1.09910e-19	1.48510e-19	1.99058e-19	2.65595e-19	3.53788e-19
1.00000e+07	1.34539e-17	1.72695e-17	2.20596e-17	2.81220e-17	3.58666e-17
1.00000e+06	6.00920e-16	7.90508e-16	1.04929e-15	1.40963e-15	1.92175e-15
100000.	2.94635e-13	4.33433e-13	6.32196e-13	9.17862e-13	1.33073e-12
10000.0	2.12309e-10	2.94596e-10	4.04148e-10	5.49990e-10	7.44418e-10
1000.00	3.74983e-08	4.77651e-08	6.02642e-08	7.54880e-08	9.40457e-08
100.000	1.22504e-06	1.39408e-06	1.57129e-06	1.75737e-06	1.95320e-06
10.0000	3.47755e-06	3.63177e-06	3.79338e-06	3.96449e-06	4.14718e-06
1.00000	4.42631e-06	4.58952e-06	4.76069e-06	4.94145e-06	5.13343e-06
0.100000	4.64834e-06	4.79006e-06	4.94230e-06	5.10632e-06	5.28347e-06
0.0100000	4.65964e-06	4.80045e-06	4.95191e-06	5.11527e-06	5.29185e-06
0.00100000	4.66071e-06	4.80144e-06	4.95283e-06	5.11613e-06	5.29266e-06
0.000100000	4.66081e-06	4.80153e-06	4.95293e-06	5.11622e-06	5.29274e-06
1.00000e-05	4.66082e-06	4.80154e-06	4.95294e-06	5.11623e-06	5.29275e-06
1.00000e-06	4.66083e-06	4.80155e-06	4.95294e-06	5.11623e-06	5.29275e-06
1.00000e-07	4.66083e-06	4.80155e-06	4.95294e-06	5.11623e-06	5.29275e-06
1.00000e-08	4.66083e-06	4.80155e-06	4.95294e-06	5.11623e-06	5.29275e-06
1.00000e-09	4.66083e-06	4.80155e-06	4.95294e-06	5.11623e-06	5.29275e-06

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	4.71630e-19	6.30488e-19	8.46633e-19	1.14351e-18	1.55511e-18
1.00000e+07	4.58615e-17	5.89031e-17	7.61192e-17	9.91311e-17	1.30315e-16
1.00000e+06	2.66490e-15	3.76592e-15	5.43091e-15	7.99948e-15	1.20388e-14
100000.	1.93154e-12	2.81247e-12	4.11400e-12	6.05109e-12	8.95334e-12
10000.0	1.00421e-09	1.35227e-09	1.81987e-09	2.44970e-09	3.29980e-09
1000.00	1.16684e-07	1.44313e-07	1.78023e-07	2.19115e-07	2.69110e-07
100.000	2.15978e-06	2.37825e-06	2.60989e-06	2.85607e-06	3.11832e-06
10.0000	4.34353e-06	4.55568e-06	4.78582e-06	5.03622e-06	5.30924e-06
1.00000	5.33837e-06	5.55811e-06	5.79452e-06	6.04960e-06	6.32538e-06
0.100000	5.47525e-06	5.68328e-06	5.90927e-06	6.15504e-06	6.42251e-06
0.0100000	5.48313e-06	5.69071e-06	5.91630e-06	6.16171e-06	6.42885e-06
0.00100000	5.48390e-06	5.69143e-06	5.91699e-06	6.16236e-06	6.42947e-06
0.000100000	5.48397e-06	5.69151e-06	5.91706e-06	6.16243e-06	6.42953e-06
1.00000e-05	5.48398e-06	5.69151e-06	5.91706e-06	6.16243e-06	6.42954e-06
1.00000e-06	5.48398e-06	5.69151e-06	5.91707e-06	6.16243e-06	6.42954e-06
1.00000e-07	5.48398e-06	5.69151e-06	5.91707e-06	6.16243e-06	6.42954e-06
1.00000e-08	5.48398e-06	5.69151e-06	5.91707e-06	6.16243e-06	6.42954e-06
1.00000e-09	5.48398e-06	5.69151e-06	5.91707e-06	6.16243e-06	6.42954e-06

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	2.13108e-18	2.94433e-18	4.10267e-18	5.76662e-18	8.17652e-18
1.00000e+07	1.73244e-16	2.33480e-16	3.20078e-16	4.48551e-16	6.46772e-16
1.00000e+06	1.85083e-14	2.90505e-14	4.65082e-14	7.58421e-14	1.25754e-13
100000.	1.33267e-11	1.99476e-11	3.00049e-11	4.53145e-11	6.86351e-11
10000.0	4.44899e-09	6.00377e-09	8.10747e-09	1.09517e-08	1.47909e-08
1000.00	3.29781e-07	4.03154e-07	4.91523e-07	5.97452e-07	7.23771e-07
100.000	3.39825e-06	3.69766e-06	4.01846e-06	4.36279e-06	4.73297e-06
10.0000	5.60732e-06	5.93295e-06	6.28872e-06	6.67723e-06	7.10116e-06
1.00000	6.62401e-06	6.94771e-06	7.29880e-06	7.67970e-06	8.09291e-06
0.100000	6.71370e-06	7.03074e-06	7.37586e-06	7.75136e-06	8.15972e-06
0.0100000	6.71974e-06	7.03649e-06	7.38134e-06	7.75662e-06	8.16475e-06
0.00100000	6.72033e-06	7.03706e-06	7.38188e-06	7.75713e-06	8.16524e-06
0.000100000	6.72039e-06	7.03711e-06	7.38193e-06	7.75719e-06	8.16529e-06
1.00000e-05	6.72039e-06	7.03712e-06	7.38194e-06	7.75719e-06	8.16529e-06
1.00000e-06	6.72039e-06	7.03712e-06	7.38194e-06	7.75719e-06	8.16530e-06
1.00000e-07	6.72039e-06	7.03712e-06	7.38194e-06	7.75719e-06	8.16530e-06
1.00000e-08	6.72039e-06	7.03712e-06	7.38194e-06	7.75719e-06	8.16530e-06
1.00000e-09	6.72039e-06	7.03712e-06	7.38194e-06	7.75719e-06	8.16530e-06

Pa\K	270.000	280.000	290.000	300.000	310.000
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1.00000e+08	1.16943e-17	1.68659e-17	2.45133e-17	1.63244e-13	5.26963e-17
1.00000e+07	9.66383e-16	1.50353e-15	2.43313e-15	4.36713e-12	6.87442e-15
1.00000e+06	2.11502e-13	3.59645e-13	6.15716e-13	4.72086e-11	1.80372e-12
100000.	1.04131e-10	1.58031e-10	2.39547e-10	3.20413e-09	5.44869e-10
10000.0	1.99601e-08	2.68954e-08	3.61585e-08	1.70822e-07	6.46885e-08
1000.00	8.73566e-07	1.05016e-06	1.25709e-06	2.51310e-06	1.77670e-06
100.000	5.13156e-06	5.56138e-06	6.02550e-06	7.25328e-06	7.06935e-06
10.0000	7.56321e-06	8.06612e-06	8.61265e-06	9.66419e-06	9.84615e-06
1.00000	8.54104e-06	9.02681e-06	9.55302e-06	1.04124e-05	1.07369e-05
0.100000	8.60346e-06	9.08526e-06	9.60787e-06	1.04575e-05	1.07854e-05
0.0100000	8.60828e-06	9.08987e-06	9.61228e-06	1.04611e-05	1.07895e-05
0.00100000	8.60875e-06	9.09033e-06	9.61272e-06	1.04614e-05	1.07899e-05
0.000100000	8.60880e-06	9.09037e-06	9.61276e-06	1.04615e-05	1.07899e-05
1.00000e-05	8.60880e-06	9.09038e-06	9.61277e-06	1.04615e-05	1.07899e-05
1.00000e-06	8.60880e-06	9.09038e-06	9.61277e-06	1.04615e-05	1.07899e-05
1.00000e-07	8.60880e-06	9.09038e-06	9.61277e-06	1.04615e-05	1.07899e-05
1.00000e-08	8.60880e-06	9.09038e-06	9.61277e-06	1.04615e-05	1.07899e-05
1.00000e-09	8.60880e-06	9.09038e-06	9.61277e-06	1.04615e-05	1.07899e-05

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	6.97740e-08	2.58585e-05	0.000156263	0.000327303	0.000285722
1.00000e+07	2.41648e-08	8.80078e-06	0.000289795	0.00117178	0.00152896
1.00000e+06	1.61133e-08	2.40590e-06	0.000110663	0.000771650	0.00165723
100000.	1.36865e-07	3.81107e-06	6.08370e-05	0.000344155	0.000883043
10000.0	1.90995e-06	1.29918e-05	5.79177e-05	0.000176887	0.000406611
1000.00	9.18721e-06	2.54806e-05	5.96400e-05	0.000121180	0.000220822
100.000	1.58369e-05	3.39611e-05	6.60171e-05	0.000115253	0.000185056
10.0000	1.90115e-05	3.68861e-05	6.74577e-05	0.000114606	0.000181011
1.00000	1.94823e-05	3.71043e-05	6.75044e-05	0.000114489	0.000180599
0.100000	1.95073e-05	3.71170e-05	6.75062e-05	0.000114476	0.000180558
0.0100000	1.95095e-05	3.71181e-05	6.75064e-05	0.000114475	0.000180553
0.00100000	1.95098e-05	3.71182e-05	6.75064e-05	0.000114475	0.000180553
0.000100000	1.95098e-05	3.71182e-05	6.75064e-05	0.000114475	0.000180553
1.00000e-05	1.95098e-05	3.71182e-05	6.75064e-05	0.000114475	0.000180553
1.00000e-06	1.95098e-05	3.71182e-05	6.75064e-05	0.000114475	0.000180553
1.00000e-07	1.95098e-05	3.71182e-05	6.75064e-05	0.000114475	0.000180553
1.00000e-08	1.95098e-05	3.71182e-05	6.75064e-05	0.000114475	0.000180553
1.00000e-09	1.95098e-05	3.71182e-05	6.75064e-05	0.000114475	0.000180553

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.000135635	7.73699e-05	6.14094e-05	5.65226e-05	5.49255e-05
1.00000e+07	0.00112991	0.000801525	0.000672134	0.000622498	0.000599689
1.00000e+06	0.00211313	0.00218836	0.00213002	0.00205154	0.00197332
100000.	0.00158561	0.00207430	0.00220472	0.00215686	0.00205288
10000.0	0.000805597	0.00119948	0.00133116	0.00131558	0.00128868
1000.00	0.000378754	0.000555539	0.000670039	0.000765102	0.000883048
100.000	0.000279160	0.000393380	0.000517938	0.000657725	0.000816643
10.0000	0.000267995	0.000375247	0.000501583	0.000646868	0.000810353
1.00000	0.000266947	0.000373591	0.000500103	0.000645896	0.000809803
0.100000	0.000266845	0.000373436	0.000499967	0.000645807	0.000809751
0.0100000	0.000266835	0.000373421	0.000499953	0.000645799	0.000809751
0.00100000	0.000266834	0.000373419	0.000499952	0.000645798	0.000809751
0.000100000	0.000266834	0.000373419	0.000499952	0.000645798	0.000809751
1.00000e-05	0.000266834	0.000373419	0.000499952	0.000645798	0.000809751
1.00000e-06	0.000266834	0.000373419	0.000499952	0.000645798	0.000809751
1.00000e-07	0.000266834	0.000373419	0.000499952	0.000645798	0.000809751
1.00000e-08	0.000266834	0.000373419	0.000499952	0.000645798	0.000809751
1.00000e-09	0.000266834	0.000373419	0.000499952	0.000645798	0.000809751

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	5.42857e-05	5.37887e-05	0.00495784	0.00495173	0.00484293
1.00000e+07	0.000584403	0.000570394	0.00793383	0.00727520	0.00640924
1.00000e+06	0.00189812	0.00182839	0.00759974	0.00609200	0.00481495
100000.	0.00194984	0.00187484	0.00441858	0.00340792	0.00296773
10000.0	0.00130513	0.00137330	0.00219303	0.00227589	0.00245160
1000.00	0.00103100	0.00120139	0.00170894	0.00209830	0.00238639
100.000	0.000992951	0.00118095	0.00165337	0.00207994	0.00238002
10.0000	0.000989580	0.00117927	0.00164791	0.00207817	0.00237942
1.00000	0.000989292	0.00117913	0.00164738	0.00207800	0.00237936
0.100000	0.000989264	0.00117912	0.00164733	0.00207798	0.00237935
0.0100000	0.000989264	0.00117912	0.00164732	0.00207798	0.00237935
0.00100000	0.000989264	0.00117912	0.00164732	0.00207798	0.00237935
0.000100000	0.000989264	0.00117912	0.00164732	0.00207798	0.00237935
1.00000e-05	0.000989264	0.00117912	0.00164732	0.00207798	0.00237935
1.00000e-06	0.000989264	0.00117912	0.00164732	0.00207798	0.00237935
1.00000e-07	0.000989264	0.00117912	0.00164732	0.00207798	0.00237935
1.00000e-08	0.000989264	0.00117912	0.00164732	0.00207798	0.00237935

1.00000e-09 | 0.000989264 0.00117912 0.00164732 0.00207798 0.00237935

rad12

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	5.24808e-10	3.43812e-09	9.35759e-09	1.82901e-08	3.01237e-08
1.00000e+07	1.39531e-07	5.01796e-07	9.18334e-07	1.31936e-06	1.68023e-06
1.00000e+06	2.64415e-06	2.66325e-06	2.31717e-06	2.03045e-06	1.81032e-06
100000.	1.02139e-06	5.35911e-07	3.61112e-07	2.74563e-07	2.23754e-07
10000.0	1.08312e-07	5.94559e-08	4.39227e-08	3.61408e-08	3.14078e-08
1000.00	1.93666e-08	1.32235e-08	1.09460e-08	9.69042e-09	8.86807e-09
100.000	6.40673e-09	4.63769e-09	3.72136e-09	3.09599e-09	2.62336e-09
10.0000	1.18563e-09	3.18826e-10	1.07151e-10	4.16113e-11	1.79791e-11
1.00000	5.30273e-13	6.34946e-15	3.88538e-16	5.14693e-17	1.07153e-17
0.100000	4.53160e-20	2.60508e-22	1.61896e-23	2.49786e-24	6.24167e-25
0.0100000	4.97009e-27	7.10528e-29	7.69324e-30	1.78920e-30	6.24571e-31
0.00100000	1.27502e-34	4.62091e-34	8.16587e-35	2.65811e-35	1.20265e-35
0.000100000	4.92745e-37	3.49320e-38	8.85772e-39	3.69921e-39	2.02967e-39
1.00000e-05	1.39743e-40	1.65965e-41	5.61498e-42	2.89139e-42	1.88476e-42
1.00000e-06	2.18442e-43	5.15333e-44	2.80103e-44	2.09722e-44	1.87049e-44
1.00000e-07	4.64410e-45	2.19800e-45	1.59459e-45	1.39780e-45	1.37642e-45
1.00000e-08	3.97080e-46	2.04615e-46	1.52362e-46	1.35290e-46	1.34263e-46
1.00000e-09	3.91743e-47	2.03275e-47	1.51709e-47	1.34867e-47	1.33940e-47

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	4.47500e-08	6.20998e-08	8.21509e-08	1.04930e-07	1.30513e-07
1.00000e+07	1.99512e-06	2.26600e-06	2.49772e-06	2.69589e-06	2.86595e-06
1.00000e+06	1.63800e-06	1.49932e-06	1.38498e-06	1.28880e-06	1.20657e-06
100000.	1.90543e-07	1.67184e-07	1.49867e-07	1.36515e-07	1.25906e-07
10000.0	2.81987e-08	2.58664e-08	2.40878e-08	2.26832e-08	2.15443e-08
1000.00	8.27397e-09	7.81652e-09	7.44810e-09	7.14126e-09	6.87892e-09
100.000	2.24740e-09	1.93910e-09	1.68123e-09	1.46258e-09	1.27532e-09
10.0000	8.44311e-12	4.24074e-12	2.25198e-12	1.25351e-12	7.26550e-13
1.00000	3.00217e-18	1.03758e-18	4.19269e-19	1.91230e-19	9.60879e-20
0.100000	2.10911e-25	8.77566e-26	4.25450e-26	2.31962e-26	1.38844e-26
0.0100000	2.80774e-31	1.50074e-31	9.10228e-32	6.08281e-32	4.39175e-32
0.00100000	6.69502e-36	4.30087e-36	3.07034e-36	2.37853e-36	1.96808e-36
0.000100000	1.32511e-39	9.76688e-40	7.87876e-40	6.82086e-40	6.25519e-40
1.00000e-05	1.43356e-42	1.21833e-42	1.12789e-42	1.11953e-42	1.17925e-42
1.00000e-06	1.86637e-44	2.01594e-44	2.31265e-44	2.78473e-44	3.49302e-44
1.00000e-07	1.46945e-45	1.66657e-45	1.98314e-45	2.45644e-45	3.15075e-45
1.00000e-08	1.44091e-46	1.64040e-46	1.95760e-46	2.43022e-46	3.12268e-46
1.00000e-09	1.43815e-47	1.63785e-47	1.95510e-47	2.42764e-47	3.11989e-47

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	1.59033e-07	1.90680e-07	2.25711e-07	2.64460e-07	3.07348e-07
1.00000e+07	3.01285e-06	3.14093e-06	3.25391e-06	3.35499e-06	3.44688e-06
1.00000e+06	1.13536e-06	1.07300e-06	1.01790e-06	9.68848e-07	9.24901e-07
100000.	1.17272e-07	1.10112e-07	1.04080e-07	9.89345e-08	9.44980e-08
10000.0	2.06018e-08	1.98091e-08	1.91338e-08	1.85526e-08	1.80486e-08
1000.00	6.64980e-09	6.44611e-09	6.26222e-09	6.09398e-09	5.93815e-09
100.000	1.11377e-09	9.73599e-10	8.51465e-10	7.44700e-10	6.51147e-10
10.0000	4.36237e-13	2.70204e-13	1.72069e-13	1.12342e-13	7.50237e-14
1.00000	5.22702e-20	3.03879e-20	1.86956e-20	1.20799e-20	8.14805e-21
0.100000	8.96945e-27	6.17606e-27	4.49056e-27	3.42328e-27	2.72120e-27
0.0100000	3.37924e-32	2.74409e-32	2.33495e-32	2.07117e-32	1.90855e-32
0.00100000	1.72046e-36	1.57678e-36	1.50698e-36	1.49701e-36	1.54407e-36
0.000100000	6.02237e-40	6.04906e-40	6.31091e-40	6.81918e-40	7.62061e-40
1.00000e-05	1.30909e-42	1.52420e-42	1.85504e-42	2.35416e-42	3.10954e-42
1.00000e-06	4.54114e-44	6.09777e-44	8.43689e-44	1.20084e-43	1.75628e-43
1.00000e-07	4.17014e-45	5.68164e-45	7.95552e-45	1.14356e-44	1.68628e-44
1.00000e-08	4.13897e-46	5.64590e-46	7.91334e-46	1.13844e-45	1.67991e-45
1.00000e-09	4.13587e-47	5.64234e-47	7.90912e-47	1.13793e-46	1.67927e-46

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	3.54896e-07	4.07746e-07	4.66684e-07	5.32668e-07	6.06868e-07
1.00000e+07	3.53187e-06	3.61192e-06	3.68868e-06	3.76355e-06	3.83771e-06
1.00000e+06	8.85311e-07	8.49482e-07	8.16929e-07	7.87256e-07	7.60134e-07
100000.	9.06393e-08	8.72592e-08	8.42808e-08	8.16441e-08	7.93018e-08
10000.0	1.76085e-08	1.72226e-08	1.68831e-08	1.65839e-08	1.63204e-08
1000.00	5.79220e-09	5.65411e-09	5.52222e-09	5.39511e-09	5.27166e-09
100.000	5.69039e-10	4.96905e-10	4.33509e-10	3.77799e-10	3.28871e-10
10.0000	5.11482e-14	3.55409e-14	2.51363e-14	1.80738e-14	1.31998e-14
1.00000	5.71004e-21	4.14141e-21	3.09911e-21	2.38686e-21	1.88825e-21
0.100000	2.24614e-27	1.91921e-27	1.69401e-27	1.54321e-27	1.45211e-27
0.0100000	1.82380e-32	1.80847e-32	1.86938e-32	2.03826e-32	2.40161e-32

0.00100000	1.65739e-36	1.86649e-36	2.24706e-36	2.99576e-36	4.65183e-36
0.000100000	8.81119e-40	1.05749e-39	1.32846e-39	1.77790e-39	2.61730e-39
1.00000e-05	4.26908e-42	6.08554e-42	9.00062e-42	1.38070e-41	2.19716e-41
1.00000e-06	2.63752e-43	4.06552e-43	6.43102e-43	1.04399e-42	1.73960e-42
1.00000e-07	2.54981e-44	3.95290e-44	6.28294e-44	1.02406e-43	1.71209e-43
1.00000e-08	2.54170e-45	3.94232e-45	6.26883e-45	1.02213e-44	1.70940e-44
1.00000e-09	2.54088e-46	3.94125e-46	6.26740e-46	1.02193e-45	1.70912e-45

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	6.90723e-07	7.86009e-07	8.94937e-07	1.02029e-06	1.16555e-06
1.00000e+07	3.91219e-06	3.98782e-06	4.06536e-06	4.14536e-06	4.22834e-06
1.00000e+06	7.35293e-07	7.12503e-07	6.91574e-07	6.72346e-07	6.54683e-07
100000.	7.72159e-08	7.53561e-08	7.36977e-08	7.22210e-08	7.09101e-08
10000.0	1.60886e-08	1.58854e-08	1.57086e-08	1.55561e-08	1.54267e-08
1000.00	5.15088e-09	5.03195e-09	4.91421e-09	4.79711e-09	4.68022e-09
100.000	2.85944e-10	2.48327e-10	2.15419e-10	1.86682e-10	1.61634e-10
10.0000	9.78384e-15	7.35542e-15	5.60589e-15	4.32970e-15	3.38789e-15
1.00000	1.53204e-21	1.27342e-21	1.08359e-21	9.43747e-22	8.41690e-22
0.100000	1.41635e-27	1.44396e-27	1.56403e-27	1.84969e-27	2.47565e-27
0.0100000	3.18445e-32	4.98701e-32	9.47137e-32	2.14072e-31	5.49086e-31
0.00100000	8.77671e-36	2.01069e-35	5.35772e-35	1.57803e-34	4.95176e-34
0.000100000	4.43751e-39	9.02802e-39	2.21452e-38	6.31511e-38	1.99358e-37
1.00000e-05	3.63114e-41	6.24922e-41	1.12614e-40	2.14599e-40	4.39312e-40
1.00000e-06	2.97630e-42	5.23085e-42	9.44901e-42	1.75560e-41	3.35810e-41
1.00000e-07	2.93730e-43	5.17373e-43	9.36132e-43	1.74108e-42	3.33072e-42
1.00000e-08	2.93345e-44	5.16809e-44	9.35278e-44	1.73973e-43	3.32841e-43
1.00000e-09	2.93306e-45	5.16751e-45	9.35191e-45	1.73959e-44	3.32818e-44

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	1.33519e-06	1.53486e-06	1.77156e-06	4.37817e-06	2.39035e-06
1.00000e+07	4.31466e-06	4.40451e-06	4.49799e-06	4.97057e-06	4.69445e-06
1.00000e+06	6.38473e-07	6.23620e-07	6.10044e-07	6.02517e-07	5.86402e-07
100000.	6.97523e-08	6.87377e-08	6.78588e-08	7.69575e-08	6.64789e-08
10000.0	1.53191e-08	1.52326e-08	1.51670e-08	2.01254e-08	1.50959e-08
1000.00	4.56320e-09	4.44588e-09	4.32812e-09	5.63417e-09	4.09080e-09
100.000	1.39849e-10	1.20941e-10	1.04565e-10	1.46119e-10	7.81935e-11
10.0000	2.68526e-15	2.15573e-15	1.75289e-15	2.27386e-14	1.20464e-15
1.00000	7.69834e-22	7.24326e-22	7.05062e-22	5.06972e-19	7.72106e-22
0.100000	3.86171e-27	7.03524e-27	1.45565e-26	7.26137e-23	7.86018e-26
0.0100000	1.52811e-30	4.47721e-30	1.35604e-29	1.21895e-25	1.31593e-28
0.00100000	1.61921e-33	5.44428e-33	1.86517e-32	4.20152e-28	2.25130e-31
0.000100000	6.70541e-37	2.34556e-36	8.40684e-36	1.04931e-29	1.11866e-34
1.00000e-05	9.86353e-40	2.47676e-39	7.00626e-39	9.87255e-31	7.53441e-38
1.00000e-06	6.62105e-41	1.34805e-40	2.84189e-40	9.83376e-32	1.42818e-39
1.00000e-07	6.55844e-42	1.33023e-41	2.78138e-41	9.82801e-33	1.33665e-40
1.00000e-08	6.55396e-43	1.32917e-42	2.77822e-42	9.82711e-34	1.33211e-41
1.00000e-09	6.55354e-44	1.32907e-43	2.77793e-43	9.82701e-35	1.33171e-42

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	4.07339e-05	0.000164457	0.000337569	0.00110084	0.00402226
1.00000e+07	7.14669e-06	1.16850e-05	2.74299e-05	8.97824e-05	0.000383091
1.00000e+06	6.55032e-07	1.10993e-06	3.33856e-06	1.28021e-05	5.58391e-05
100000.	9.70854e-08	1.90287e-07	6.21410e-07	2.84728e-06	1.73205e-05
10000.0	2.60744e-08	4.59242e-08	1.28535e-07	6.65010e-07	5.24601e-06
1000.00	4.81490e-09	5.42081e-09	1.28225e-08	8.46524e-08	9.29160e-07
100.000	6.34552e-11	6.17408e-11	2.19093e-10	3.60812e-09	8.36716e-08
10.0000	1.60770e-14	5.76455e-14	1.03895e-12	1.50707e-10	7.02754e-09
1.00000	4.14102e-18	2.71181e-16	2.12362e-14	1.22295e-11	6.69869e-10
0.100000	3.45598e-20	7.19335e-18	1.53847e-15	1.18620e-12	6.63784e-11
0.0100000	4.44611e-22	1.48468e-19	1.41506e-16	1.18063e-13	6.62666e-12
0.00100000	2.22583e-24	2.74486e-21	1.38850e-17	1.17968e-14	6.62447e-13
0.000100000	2.32912e-26	1.89164e-22	1.38552e-18	1.17951e-15	6.62400e-14
1.00000e-05	1.91220e-27	1.85421e-23	1.38524e-19	1.17947e-16	6.62388e-15
1.00000e-06	1.89647e-28	1.85163e-24	1.38519e-20	1.17946e-17	6.62386e-16
1.00000e-07	1.89524e-29	1.85138e-25	1.38519e-21	1.17945e-18	6.62385e-17
1.00000e-08	1.89512e-30	1.85136e-26	1.38518e-22	1.17945e-19	6.62385e-18
1.00000e-09	1.89510e-31	1.85135e-27	1.38518e-23	1.17945e-20	6.62385e-19

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.00725631	0.00769961	0.00743426	0.00709075	0.00675235
1.00000e+07	0.00165920	0.00362441	0.00465960	0.00489558	0.00480166
1.00000e+06	0.000232638	0.000719582	0.00118950	0.00138500	0.00140753
100000.	6.71119e-05	0.000148925	0.000222930	0.000256835	0.000260296
10000.0	2.07494e-05	3.78778e-05	4.77299e-05	4.94773e-05	4.58589e-05
1000.00	3.92057e-06	6.60459e-06	7.33822e-06	6.79523e-06	5.74582e-06
100.000	4.28085e-07	7.35604e-07	7.94636e-07	7.14066e-07	5.90789e-07

10.0000	4.12303e-08	7.32307e-08	7.95646e-08	7.14605e-08	5.90569e-08
1.00000	4.06291e-09	7.28932e-09	7.94303e-09	7.13946e-09	5.90163e-09
0.100000	4.04919e-10	7.28028e-10	7.93900e-10	7.13749e-10	5.90052e-10
0.0100000	4.04631e-11	7.27823e-11	7.93806e-11	7.13704e-11	5.90028e-11
0.00100000	4.04569e-12	7.27778e-12	7.93785e-12	7.13693e-12	5.90022e-12
0.000100000	4.04554e-13	7.27767e-13	7.93780e-13	7.13691e-13	5.90021e-13
1.00000e-05	4.04550e-14	7.27764e-14	7.93779e-14	7.13690e-14	5.90021e-14
1.00000e-06	4.04549e-15	7.27764e-15	7.93778e-15	7.13690e-15	5.90020e-15
1.00000e-07	4.04549e-16	7.27764e-16	7.93778e-16	7.13690e-16	5.90020e-16
1.00000e-08	4.04549e-17	7.27764e-17	7.93778e-17	7.13690e-17	5.90020e-17
1.00000e-09	4.04549e-18	7.27764e-18	7.93778e-18	7.13690e-18	5.90020e-18

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.00642624	0.00611805	0.000493932	0.000454494	0.000417138
1.00000e+07	0.00458930	0.00434001	0.000192940	0.000183688	0.000168403
1.00000e+06	0.00135599	0.00127598	7.78453e-05	6.98119e-05	5.55108e-05
100000.	0.000247265	0.000225867	2.39705e-05	1.63842e-05	1.01395e-05
10000.0	3.97943e-05	3.31761e-05	3.84331e-06	2.13940e-06	1.16835e-06
1000.00	4.63804e-06	3.65894e-06	4.20319e-07	2.22075e-07	1.18486e-07
100.000	4.70128e-07	3.67582e-07	4.24081e-08	2.22686e-08	1.18539e-08
10.0000	4.69590e-08	3.67012e-08	4.24324e-09	2.22700e-09	1.18527e-09
1.00000	4.69317e-09	3.66826e-09	4.24325e-10	2.22694e-10	1.18523e-10
0.100000	4.69250e-10	3.66783e-10	4.24320e-11	2.22692e-11	1.18522e-11
0.0100000	4.69235e-11	3.66775e-11	4.24319e-12	2.22691e-12	1.18522e-12
0.00100000	4.69232e-12	3.66773e-12	4.24318e-13	2.22691e-13	1.18522e-13
0.000100000	4.69231e-13	3.66772e-13	4.24318e-14	2.22691e-14	1.18522e-14
1.00000e-05	4.69231e-14	3.66772e-14	4.24318e-15	2.22691e-15	1.18522e-15
1.00000e-06	4.69231e-15	3.66772e-15	4.24318e-16	2.22691e-16	1.18522e-16
1.00000e-07	4.69231e-16	3.66772e-16	4.24318e-17	2.22691e-17	1.18522e-17
1.00000e-08	4.69231e-17	3.66772e-17	4.24318e-18	2.22691e-18	1.18522e-18
1.00000e-09	4.69231e-18	3.66772e-18	4.24318e-19	2.22691e-19	1.18522e-19

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	0.00108078	0.00155322	0.00177324	0.00188556	0.00194425
1.00000e+07	0.00180782	0.00136210	0.00100771	0.000751671	0.000566650
1.00000e+06	0.000106734	5.65426e-06	4.57762e-07	5.09505e-08	7.26416e-09
100000.	7.41529e-13	8.18636e-18	6.65317e-21	4.40130e-23	9.92104e-25
10000.0	1.15682e-30	1.34925e-35	5.25172e-38	1.71119e-39	1.65372e-40
1000.00	5.55843e-44	3.20655e-46	3.66801e-47	1.10284e-47	5.30004e-48
100.000	1.33959e-49	1.49564e-50	5.77732e-51	3.47493e-51	2.62186e-51
10.0000	1.93505e-52	2.87230e-53	9.57113e-54	4.63962e-54	2.82574e-54
1.00000	1.12034e-55	2.20798e-56	1.48016e-56	1.29253e-56	1.26502e-56
0.100000	1.94460e-57	4.13880e-58	1.43887e-58	6.65510e-59	3.74141e-59
0.0100000	1.05736e-60	1.53863e-61	1.02405e-61	9.24480e-62	9.56307e-62
0.00100000	2.41530e-62	1.27010e-62	9.77103e-63	9.05773e-63	9.44471e-63
0.000100000	2.40476e-63	1.26743e-63	9.75719e-64	9.04795e-64	9.43643e-64
1.00000e-05	2.40375e-64	1.26717e-64	9.75581e-65	9.04698e-65	9.43560e-65
1.00000e-06	2.40365e-65	1.26714e-65	9.75567e-66	9.04688e-66	9.43552e-66
1.00000e-07	2.40364e-66	1.26714e-66	9.75566e-67	9.04687e-67	9.43551e-67
1.00000e-08	2.40363e-67	1.26714e-67	9.75566e-68	9.04687e-68	9.43551e-68
1.00000e-09	2.40363e-68	1.26714e-68	9.75566e-69	9.04687e-69	9.43551e-69

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	0.00197335	0.00198493	0.00198560	0.00197925	0.00196827
1.00000e+07	0.000431474	0.000331513	0.000256748	0.000200251	0.000157164
1.00000e+06	1.26321e-09	2.58608e-10	6.07045e-11	1.60116e-11	4.67098e-12
100000.	4.96304e-26	4.33089e-27	5.68779e-28	1.02089e-28	2.34420e-29
10000.0	3.07510e-41	8.81873e-42	3.43172e-42	1.67231e-42	9.67649e-43
1000.00	3.35041e-48	2.53318e-48	2.17277e-48	2.04736e-48	2.07584e-48
100.000	2.26917e-51	2.15340e-51	2.18404e-51	2.33047e-51	2.58960e-51
10.0000	2.01557e-54	1.62020e-54	1.43491e-54	1.38042e-54	1.42859e-54
1.00000	1.32547e-56	1.45552e-56	1.65526e-56	1.93526e-56	2.31514e-56
0.100000	2.43263e-59	1.77645e-59	1.43184e-59	1.26087e-59	1.20596e-59
0.0100000	1.07856e-61	1.29465e-61	1.63089e-61	2.13704e-61	2.89589e-61
0.00100000	1.06882e-62	1.28527e-62	1.62088e-62	2.12557e-62	2.88199e-62
0.000100000	1.06802e-63	1.28444e-63	1.61995e-63	2.12448e-63	2.88065e-63
1.00000e-05	1.06794e-64	1.28436e-64	1.61986e-64	2.12437e-64	2.88052e-64
1.00000e-06	1.06794e-65	1.28435e-65	1.61985e-65	2.12436e-65	2.88051e-65
1.00000e-07	1.06794e-66	1.28435e-66	1.61985e-66	2.12436e-66	2.88050e-66
1.00000e-08	1.06794e-67	1.28435e-67	1.61985e-67	2.12436e-67	2.88050e-67
1.00000e-09	1.06794e-68	1.28435e-68	1.61985e-68	2.12436e-68	2.88050e-68

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	0.00195422	0.00193814	0.00192073	0.00190249	0.00188378

1.00000e+07	0.000124033	9.83686e-05	7.83561e-05	6.26573e-05	5.02759e-05
1.00000e+06	1.48819e-12	5.12553e-13	1.89228e-13	7.43634e-14	3.09246e-14
100000.	6.56971e-30	2.17088e-30	8.24083e-31	3.52289e-31	1.66991e-31
10000.0	6.40904e-43	4.73416e-43	3.82704e-43	3.33872e-43	3.11051e-43
1000.00	2.23310e-48	2.52372e-48	2.97498e-48	3.63844e-48	4.59801e-48
100.000	2.97594e-51	3.51977e-51	4.26969e-51	5.29871e-51	6.71468e-51
10.0000	1.57848e-54	1.84981e-54	2.28484e-54	2.95680e-54	3.98637e-54
1.00000	2.82482e-56	3.50772e-56	4.42601e-56	5.66877e-56	7.36445e-56
0.100000	1.24801e-59	1.39257e-59	1.66817e-59	2.13328e-59	2.89314e-59
0.0100000	4.04198e-61	5.79471e-61	8.51577e-61	1.28101e-60	1.97048e-60
0.00100000	4.02439e-62	5.77159e-62	8.48437e-62	1.27662e-61	1.96416e-61
0.000100000	4.02268e-63	5.76932e-63	8.48127e-63	1.27618e-62	1.96353e-62
1.00000e-05	4.02251e-64	5.76909e-64	8.48096e-64	1.27614e-63	1.96347e-63
1.00000e-06	4.02249e-65	5.76907e-65	8.48093e-65	1.27613e-64	1.96347e-64
1.00000e-07	4.02249e-66	5.76906e-66	8.48093e-66	1.27613e-65	1.96346e-65
1.00000e-08	4.02249e-67	5.76906e-67	8.48093e-67	1.27613e-66	1.96346e-66
1.00000e-09	4.02249e-68	5.76906e-68	8.48093e-68	1.27613e-67	1.96346e-67

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	0.00186484	0.00184582	0.00182687	0.00180801	0.00178931
1.00000e+07	4.04634e-05	3.26527e-05	2.64113e-05	2.14065e-05	1.73809e-05
1.00000e+06	1.35414e-14	6.21731e-15	2.98235e-15	1.49004e-15	7.73350e-16
100000.	8.67145e-32	4.88658e-32	2.96711e-32	1.93156e-32	1.34441e-32
10000.0	3.07002e-43	3.19030e-43	3.47403e-43	3.94958e-43	4.67501e-43
1000.00	5.98507e-48	8.00416e-48	1.09754e-47	1.54049e-47	2.21015e-47
100.000	8.67682e-51	1.14218e-50	1.53049e-50	2.08655e-50	2.89333e-50
10.0000	5.57069e-54	8.03311e-54	1.19090e-53	1.80948e-53	2.81094e-53
1.00000	9.69980e-56	1.29492e-55	1.75203e-55	2.40257e-55	3.33989e-55
0.100000	4.13221e-59	6.17486e-59	9.59891e-59	1.54508e-58	2.56610e-58
0.0100000	3.09729e-60	4.97262e-60	8.15210e-60	1.36457e-59	2.33232e-59
0.00100000	3.08796e-61	4.95850e-61	8.13021e-61	1.36111e-60	2.32668e-60
0.000100000	3.08703e-62	4.95709e-62	8.12803e-62	1.36076e-61	2.32612e-61
1.00000e-05	3.08694e-63	4.95695e-63	8.12781e-63	1.36072e-62	2.32606e-62
1.00000e-06	3.08693e-64	4.95694e-64	8.12779e-64	1.36072e-63	2.32606e-63
1.00000e-07	3.08693e-65	4.95693e-65	8.12778e-65	1.36072e-64	2.32606e-64
1.00000e-08	3.08693e-66	4.95693e-66	8.12778e-66	1.36072e-65	2.32606e-65
1.00000e-09	3.08693e-67	4.95693e-67	8.12778e-67	1.36072e-66	2.32606e-66

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	0.00177073	0.00175228	0.00173391	0.00171556	0.00169720
1.00000e+07	1.41342e-05	1.15095e-05	9.38336e-06	7.65811e-06	6.25610e-06
1.00000e+06	4.16033e-16	2.31544e-16	1.33110e-16	7.89410e-17	4.82485e-17
100000.	1.00049e-32	7.98905e-33	6.90232e-33	6.54277e-33	6.93152e-33
10000.0	5.75036e-43	7.34270e-43	9.73532e-43	1.34283e-42	1.93604e-42
1000.00	3.23747e-47	4.83723e-47	7.36642e-47	1.14266e-46	1.80462e-46
100.000	4.08009e-50	5.85121e-50	8.53460e-50	1.26647e-49	1.91266e-49
10.0000	4.45593e-53	7.19731e-53	1.18324e-52	1.97833e-52	3.36212e-52
1.00000	4.70799e-55	6.73233e-55	9.77135e-55	1.44041e-54	2.15827e-54
0.100000	4.38593e-58	7.70077e-58	1.38735e-57	2.56289e-57	4.85327e-57
0.0100000	4.07114e-59	7.25937e-59	1.32280e-58	2.46430e-58	4.69589e-58
0.00100000	4.06177e-60	7.24343e-60	1.32002e-59	2.45935e-59	4.68687e-59
0.000100000	4.06083e-61	7.24185e-61	1.31974e-60	2.45886e-60	4.68596e-60
1.00000e-05	4.06074e-62	7.24169e-62	1.31972e-61	2.45881e-61	4.68587e-61
1.00000e-06	4.06073e-63	7.24168e-63	1.31971e-62	2.45880e-62	4.68586e-62
1.00000e-07	4.06073e-64	7.24167e-64	1.31971e-63	2.45880e-63	4.68586e-63
1.00000e-08	4.06073e-65	7.24167e-65	1.31971e-64	2.45880e-64	4.68586e-64
1.00000e-09	4.06073e-66	7.24167e-66	1.31971e-65	2.45880e-65	4.68586e-65

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	0.00167872	0.00166008	0.00164118	0.00162077	0.00160211
1.00000e+07	5.11540e-06	4.18633e-06	3.42902e-06	2.39656e-06	2.30679e-06
1.00000e+06	3.03708e-17	1.96820e-17	1.31327e-17	2.39868e-15	6.40213e-18
100000.	8.35729e-33	1.15763e-32	1.83283e-32	7.72721e-26	6.36919e-32
10000.0	2.94373e-42	4.79041e-42	8.51800e-42	2.31148e-32	3.81400e-41
1000.00	2.90096e-46	4.74620e-46	7.90457e-46	5.13118e-36	2.31975e-45
100.000	2.94123e-49	4.60818e-49	7.36125e-49	2.52947e-38	1.99783e-48
10.0000	5.80602e-52	1.01866e-51	1.81581e-51	5.66644e-40	6.05492e-51
1.00000	3.29025e-54	5.10927e-54	8.09292e-54	3.35007e-41	2.17063e-53
0.100000	9.42101e-57	1.87505e-56	3.82774e-56	3.07179e-42	1.72484e-55
0.0100000	9.15840e-58	1.82925e-57	3.74435e-57	3.04477e-43	1.69330e-56
0.00100000	9.14155e-59	1.82602e-58	3.73798e-58	3.04207e-44	1.69061e-57
0.000100000	9.13986e-60	1.82569e-59	3.73734e-59	3.04180e-45	1.69034e-58
1.00000e-05	9.13969e-61	1.82566e-60	3.73728e-60	3.04177e-46	1.69031e-59
1.00000e-06	9.13967e-62	1.82566e-61	3.73727e-61	3.04177e-47	1.69031e-60
1.00000e-07	9.13967e-63	1.82566e-62	3.73727e-62	3.04177e-48	1.69031e-61
1.00000e-08	9.13967e-64	1.82566e-63	3.73727e-63	3.04177e-49	1.69031e-62
1.00000e-09	9.13967e-65	1.82566e-64	3.73727e-64	3.04177e-50	1.69031e-63

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	0.00115653	0.000866323	0.000619502	0.000515231	0.000680934
1.00000e+07	5.63492e-07	2.49303e-07	2.79962e-07	7.85509e-07	5.53380e-06
1.00000e+06	1.52871e-15	3.35604e-14	9.99821e-13	2.65263e-11	3.04965e-09
100000.	1.10311e-23	1.53133e-20	7.45264e-18	3.10693e-15	6.65842e-12
10000.0	1.66240e-29	1.78490e-25	8.11054e-22	8.11504e-18	1.06096e-13
1000.00	4.41200e-33	7.40459e-29	2.10855e-24	1.66173e-19	4.53648e-15
100.000	3.15881e-35	5.38841e-31	4.97891e-26	8.10666e-21	3.04241e-16
10.0000	1.02198e-36	2.11915e-32	2.87996e-27	5.94030e-22	2.54873e-17
1.00000	7.07654e-38	1.63020e-33	2.45492e-28	5.41769e-23	2.41809e-18
0.100000	6.69364e-39	1.56978e-34	2.39998e-29	5.34859e-24	2.40054e-19
0.0100000	6.65445e-40	1.56356e-35	2.39430e-30	5.34142e-25	2.39871e-20
0.00100000	6.65052e-41	1.56293e-36	2.39372e-31	5.34071e-26	2.39853e-21
0.000100000	6.65013e-42	1.56287e-37	2.39366e-32	5.34064e-27	2.39851e-22
1.00000e-05	6.65009e-43	1.56286e-38	2.39366e-33	5.34063e-28	2.39851e-23
1.00000e-06	6.65008e-44	1.56286e-39	2.39366e-34	5.34063e-29	2.39851e-24
1.00000e-07	6.65008e-45	1.56286e-40	2.39366e-35	5.34063e-30	2.39851e-25
1.00000e-08	6.65008e-46	1.56286e-41	2.39366e-36	5.34063e-31	2.39851e-26
1.00000e-09	6.65008e-47	1.56286e-42	2.39366e-37	5.34063e-32	2.39851e-27

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.00123727	0.00232063	0.00375344	0.00520622	0.00637449
1.00000e+07	4.05344e-05	0.000181377	0.000408014	0.000613494	0.000776403
1.00000e+06	2.35150e-07	4.43850e-06	2.12511e-05	4.43425e-05	6.31967e-05
100000.	3.16515e-09	1.59260e-07	1.25781e-06	3.33659e-06	5.26514e-06
10000.0	1.21586e-10	9.67780e-09	9.67529e-08	2.88664e-07	4.79807e-07
1000.00	7.75412e-12	7.61085e-10	8.50145e-09	2.68671e-08	4.58492e-08
100.000	6.24417e-13	6.75737e-11	7.96640e-10	2.59211e-09	4.48372e-09
10.0000	5.65903e-14	6.39464e-12	7.72816e-11	2.54936e-10	4.43803e-10
1.00000	5.49697e-15	6.29239e-13	7.66106e-12	2.53747e-11	4.42555e-11
0.100000	5.47523e-16	6.27875e-14	7.65219e-13	2.53591e-12	4.42393e-12
0.0100000	5.47297e-17	6.27733e-15	7.65127e-14	2.53575e-13	4.42376e-13
0.00100000	5.47274e-18	6.27719e-16	7.65117e-15	2.53574e-14	4.42375e-14
0.000100000	5.47272e-19	6.27717e-17	7.65117e-16	2.53574e-15	4.42375e-15
1.00000e-05	5.47271e-20	6.27717e-18	7.65117e-17	2.53574e-16	4.42375e-16
1.00000e-06	5.47271e-21	6.27717e-19	7.65117e-18	2.53574e-17	4.42375e-17
1.00000e-07	5.47271e-22	6.27717e-20	7.65117e-19	2.53574e-18	4.42375e-18
1.00000e-08	5.47271e-23	6.27717e-21	7.65117e-20	2.53574e-19	4.42375e-19
1.00000e-09	5.47271e-24	6.27717e-22	7.65117e-21	2.53574e-20	4.42375e-20

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.00716687	0.00765395	0.00124628	0.00123524	0.00119059
1.00000e+07	0.000880469	0.000929206	0.000203241	0.000184909	0.000164806
1.00000e+06	7.44470e-05	7.91212e-05	2.13083e-05	1.87339e-05	1.62860e-05
100000.	6.46445e-06	6.99037e-06	2.05760e-06	1.80781e-06	1.57222e-06
10000.0	6.02301e-07	6.57951e-07	2.01099e-07	1.77327e-07	1.54518e-07
1000.00	5.82178e-08	6.39330e-08	1.99118e-08	1.75818e-08	1.53287e-08
100.000	5.72632e-09	6.30472e-09	1.98197e-09	1.75071e-09	1.52658e-09
10.0000	5.68336e-10	6.26495e-10	1.97791e-10	1.74746e-10	1.52390e-10
1.00000	5.67183e-11	6.25447e-11	1.97722e-11	1.74693e-11	1.52347e-11
0.100000	5.67036e-12	6.25315e-12	1.97714e-12	1.74687e-12	1.52343e-12
0.0100000	5.67021e-13	6.25301e-13	1.97714e-13	1.74686e-13	1.52342e-13
0.00100000	5.67019e-14	6.25300e-14	1.97714e-14	1.74686e-14	1.52342e-14
0.000100000	5.67019e-15	6.25299e-15	1.97714e-15	1.74686e-15	1.52342e-15
1.00000e-05	5.67019e-16	6.25299e-16	1.97714e-16	1.74686e-16	1.52342e-16
1.00000e-06	5.67019e-17	6.25299e-17	1.97714e-17	1.74686e-17	1.52342e-17
1.00000e-07	5.67019e-18	6.25299e-18	1.97714e-18	1.74686e-18	1.52342e-18
1.00000e-08	5.67019e-19	6.25299e-19	1.97714e-19	1.74686e-19	1.52342e-19
1.00000e-09	5.67019e-20	6.25299e-20	1.97714e-20	1.74686e-20	1.52342e-20

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	1.36482e-22	2.03398e-21	9.20806e-21	2.64346e-20	5.97657e-20
1.00000e+07	6.48437e-19	6.77685e-18	2.48405e-17	6.16942e-17	1.25231e-16
1.00000e+06	9.90347e-16	8.13057e-15	2.65805e-14	6.11511e-14	1.16907e-13
100000.	7.43396e-13	4.52007e-12	1.17762e-11	2.24454e-11	3.64701e-11
10000.0	1.26224e-10	3.86873e-10	6.84868e-10	1.00860e-09	1.35773e-09
1000.00	2.79382e-09	5.99019e-09	9.22662e-09	1.25909e-08	1.61327e-08
100.000	2.94078e-08	5.72747e-08	8.30963e-08	1.07898e-07	1.32167e-07
10.0000	1.99187e-07	2.91059e-07	3.44175e-07	3.82125e-07	4.12902e-07
1.00000	4.23997e-07	4.51993e-07	4.68713e-07	4.84347e-07	5.00218e-07
0.100000	4.66982e-07	4.74137e-07	4.83974e-07	4.96183e-07	5.10001e-07
0.0100000	4.71511e-07	4.76407e-07	4.85525e-07	4.97381e-07	5.10988e-07
0.00100000	4.71966e-07	4.76635e-07	4.85680e-07	4.97501e-07	5.11087e-07

0.000100000	4.72011e-07	4.76657e-07	4.85696e-07	4.97513e-07	5.11097e-07
1.00000e-05	4.72016e-07	4.76660e-07	4.85697e-07	4.97514e-07	5.11098e-07
1.00000e-06	4.72016e-07	4.76660e-07	4.85697e-07	4.97514e-07	5.11098e-07
1.00000e-07	4.72017e-07	4.76660e-07	4.85698e-07	4.97514e-07	5.11098e-07
1.00000e-08	4.72017e-07	4.76660e-07	4.85698e-07	4.97514e-07	5.11098e-07
1.00000e-09	4.72017e-07	4.76660e-07	4.85698e-07	4.97514e-07	5.11098e-07

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	1.16881e-19	2.07696e-19	3.45251e-19	5.46982e-19	8.36604e-19
1.00000e+07	2.25041e-16	3.73221e-16	5.85389e-16	8.82079e-16	1.29075e-15
1.00000e+06	1.99592e-13	3.16054e-13	4.74697e-13	6.86036e-13	9.63448e-13
100000.	5.38911e-11	7.48680e-11	9.96795e-11	1.28730e-10	1.62564e-10
10000.0	1.73499e-09	2.14467e-09	2.59216e-09	3.08395e-09	3.62784e-09
1000.00	1.98964e-08	2.39292e-08	2.82829e-08	3.30156e-08	3.81946e-08
100.000	1.56250e-07	1.80442e-07	2.05002e-07	2.30175e-07	2.56202e-07
10.0000	4.40031e-07	4.65360e-07	4.89974e-07	5.14584e-07	5.39712e-07
1.00000	5.16735e-07	5.34144e-07	5.52633e-07	5.72373e-07	5.93543e-07
0.100000	5.25148e-07	5.41576e-07	5.59329e-07	5.78497e-07	5.99209e-07
0.0100000	5.25996e-07	5.42325e-07	5.60003e-07	5.79112e-07	5.99778e-07
0.00100000	5.26080e-07	5.42400e-07	5.60070e-07	5.79174e-07	5.99835e-07
0.000100000	5.26089e-07	5.42407e-07	5.60077e-07	5.79180e-07	5.99841e-07
1.00000e-05	5.26090e-07	5.42408e-07	5.60078e-07	5.79181e-07	5.99841e-07
1.00000e-06	5.26090e-07	5.42408e-07	5.60078e-07	5.79181e-07	5.99841e-07
1.00000e-07	5.26090e-07	5.42408e-07	5.60078e-07	5.79181e-07	5.99841e-07
1.00000e-08	5.26090e-07	5.42408e-07	5.60078e-07	5.79181e-07	5.99841e-07
1.00000e-09	5.26090e-07	5.42408e-07	5.60078e-07	5.79181e-07	5.99841e-07

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	1.24690e-18	1.82394e-18	2.63345e-18	3.77059e-18	5.37528e-18
1.00000e+07	1.84868e-15	2.60729e-15	3.63846e-15	5.04399e-15	6.96998e-15
1.00000e+06	1.32420e-12	1.79083e-12	2.39304e-12	3.17028e-12	4.17521e-12
100000.	2.01894e-10	2.47639e-10	3.00964e-10	3.63343e-10	4.36631e-10
10000.0	4.23331e-09	4.91195e-09	5.67791e-09	6.54861e-09	7.54535e-09
1000.00	4.38993e-08	5.02249e-08	5.72855e-08	6.52183e-08	7.41878e-08
100.000	2.83335e-07	3.11843e-07	3.42022e-07	3.74196e-07	4.08725e-07
10.0000	5.65785e-07	5.93188e-07	6.22292e-07	6.53476e-07	6.87135e-07
1.00000	6.16343e-07	6.41000e-07	6.67776e-07	6.96968e-07	7.28908e-07
0.100000	6.21635e-07	6.45982e-07	6.72497e-07	7.01467e-07	7.33216e-07
0.0100000	6.22166e-07	6.46482e-07	6.72971e-07	7.01918e-07	7.33648e-07
0.00100000	6.22219e-07	6.46532e-07	6.73018e-07	7.01963e-07	7.33692e-07
0.000100000	6.22225e-07	6.46537e-07	6.73023e-07	7.01968e-07	7.33696e-07
1.00000e-05	6.22225e-07	6.46538e-07	6.73023e-07	7.01968e-07	7.33696e-07
1.00000e-06	6.22225e-07	6.46538e-07	6.73023e-07	7.01968e-07	7.33696e-07
1.00000e-07	6.22225e-07	6.46538e-07	6.73023e-07	7.01968e-07	7.33696e-07
1.00000e-08	6.22225e-07	6.46538e-07	6.73023e-07	7.01968e-07	7.33696e-07
1.00000e-09	6.22225e-07	6.46538e-07	6.73023e-07	7.01968e-07	7.33696e-07

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	7.65629e-18	1.09302e-17	1.56857e-17	2.26917e-17	3.31860e-17
1.00000e+07	9.62867e-15	1.33326e-14	1.85480e-14	2.59818e-14	3.67231e-14
1.00000e+06	5.47845e-12	7.17502e-12	9.39321e-12	1.23065e-11	1.61505e-11
100000.	5.23150e-10	6.25807e-10	7.48224e-10	8.94922e-10	1.07153e-09
10000.0	8.69428e-09	1.00274e-08	1.15839e-08	1.34118e-08	1.55699e-08
1000.00	8.43907e-08	9.60614e-08	1.09478e-07	1.24972e-07	1.42931e-07
100.000	4.46006e-07	4.86474e-07	5.30608e-07	5.78937e-07	6.32034e-07
10.0000	7.23685e-07	7.63575e-07	8.07293e-07	8.55363e-07	9.08358e-07
1.00000	7.63969e-07	8.02563e-07	8.45148e-07	8.92226e-07	9.44351e-07
0.100000	7.68113e-07	8.06564e-07	8.49025e-07	8.95995e-07	9.48024e-07
0.0100000	7.68529e-07	8.06966e-07	8.49414e-07	8.96372e-07	9.48392e-07
0.00100000	7.68570e-07	8.07006e-07	8.49453e-07	8.96409e-07	9.48429e-07
0.000100000	7.68574e-07	8.07010e-07	8.49457e-07	8.96413e-07	9.48433e-07
1.00000e-05	7.68575e-07	8.07010e-07	8.49457e-07	8.96414e-07	9.48433e-07
1.00000e-06	7.68575e-07	8.07010e-07	8.49457e-07	8.96414e-07	9.48433e-07
1.00000e-07	7.68575e-07	8.07010e-07	8.49457e-07	8.96414e-07	9.48433e-07
1.00000e-08	7.68575e-07	8.07010e-07	8.49457e-07	8.96414e-07	9.48433e-07
1.00000e-09	7.68575e-07	8.07010e-07	8.49457e-07	8.96414e-07	9.48433e-07

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	4.92134e-17	7.42536e-17	1.14422e-16	1.80804e-16	2.93968e-16
1.00000e+07	5.24816e-14	7.59964e-14	1.11752e-13	1.67238e-13	2.55152e-13
1.00000e+06	2.12453e-11	2.80268e-11	3.70900e-11	4.92489e-11	6.56174e-11
100000.	1.28507e-09	1.54430e-09	1.86012e-09	2.24616e-09	2.71942e-09
10000.0	1.81301e-08	2.11806e-08	2.48295e-08	2.92093e-08	3.44820e-08
1000.00	1.63814e-07	1.88158e-07	2.16588e-07	2.49832e-07	2.88732e-07
100.000	6.90533e-07	7.55126e-07	8.26569e-07	9.05690e-07	9.93395e-07
10.0000	9.66901e-07	1.03167e-06	1.10341e-06	1.18294e-06	1.27115e-06

1.00000	1.00213e-06	1.06623e-06	1.13738e-06	1.21639e-06	1.30414e-06
0.100000	1.00572e-06	1.06975e-06	1.14083e-06	1.21979e-06	1.30748e-06
0.0100000	1.00608e-06	1.07010e-06	1.14118e-06	1.22013e-06	1.30782e-06
0.00100000	1.00612e-06	1.07013e-06	1.14121e-06	1.22016e-06	1.30785e-06
0.000100000	1.00612e-06	1.07014e-06	1.14122e-06	1.22017e-06	1.30785e-06
1.00000e-05	1.00612e-06	1.07014e-06	1.14122e-06	1.22017e-06	1.30786e-06
1.00000e-06	1.00612e-06	1.07014e-06	1.14122e-06	1.22017e-06	1.30786e-06
1.00000e-07	1.00612e-06	1.07014e-06	1.14122e-06	1.22017e-06	1.30786e-06
1.00000e-08	1.00612e-06	1.07014e-06	1.14122e-06	1.22017e-06	1.30786e-06
1.00000e-09	1.00612e-06	1.07014e-06	1.14122e-06	1.22017e-06	1.30786e-06

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	4.92388e-16	8.47084e-16	1.48461e-15	2.25787e-12	4.58193e-15
1.00000e+07	3.97101e-13	6.29417e-13	1.01138e-12	9.35149e-11	2.63459e-12
1.00000e+06	8.77195e-11	1.17636e-10	1.58184e-10	1.14751e-09	2.87414e-10
100000.	3.30110e-09	4.01766e-09	4.90200e-09	1.48730e-08	7.34500e-09
10000.0	4.08464e-08	4.85447e-08	5.78719e-08	1.42668e-07	8.29009e-08
1000.00	3.34255e-07	3.87509e-07	4.49743e-07	7.89521e-07	6.06848e-07
100.000	1.09068e-06	1.19861e-06	1.31835e-06	1.56593e-06	1.59825e-06
10.0000	1.36900e-06	1.47755e-06	1.59796e-06	1.74670e-06	1.87914e-06
1.00000	1.40159e-06	1.50978e-06	1.62987e-06	1.76684e-06	1.91053e-06
0.100000	1.40488e-06	1.51304e-06	1.63310e-06	1.76886e-06	1.91369e-06
0.0100000	1.40521e-06	1.51336e-06	1.63342e-06	1.76907e-06	1.91401e-06
0.00100000	1.40524e-06	1.51340e-06	1.63346e-06	1.76909e-06	1.91404e-06
0.000100000	1.40525e-06	1.51340e-06	1.63346e-06	1.76909e-06	1.91404e-06
1.00000e-05	1.40525e-06	1.51340e-06	1.63346e-06	1.76909e-06	1.91404e-06
1.00000e-06	1.40525e-06	1.51340e-06	1.63346e-06	1.76909e-06	1.91404e-06
1.00000e-07	1.40525e-06	1.51340e-06	1.63346e-06	1.76909e-06	1.91404e-06
1.00000e-08	1.40525e-06	1.51340e-06	1.63346e-06	1.76909e-06	1.91404e-06
1.00000e-09	1.40525e-06	1.51340e-06	1.63346e-06	1.76909e-06	1.91404e-06

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	1.33997e-07	4.15851e-05	0.000248912	0.000536401	0.000513174
1.00000e+07	6.94915e-08	1.66025e-05	0.000487523	0.00188448	0.00243911
1.00000e+06	4.46058e-08	4.14718e-06	0.000185871	0.00125394	0.00261517
100000.	1.79310e-07	4.20219e-06	7.92463e-05	0.000491556	0.00134804
10000.0	1.08182e-06	8.12136e-06	4.47737e-05	0.000166916	0.000482989
1000.00	3.08271e-06	1.02360e-05	2.88135e-05	7.25488e-05	0.000174862
100.000	4.05674e-06	1.05416e-05	2.57741e-05	5.79063e-05	0.000119860
10.0000	4.20438e-06	1.05780e-05	2.54402e-05	5.63368e-05	0.000113838
1.00000	4.21993e-06	1.05818e-05	2.54066e-05	5.61792e-05	0.000113240
0.100000	4.22150e-06	1.05822e-05	2.54032e-05	5.61635e-05	0.000113180
0.0100000	4.22165e-06	1.05822e-05	2.54030e-05	5.61619e-05	0.000113175
0.00100000	4.22167e-06	1.05822e-05	2.54029e-05	5.61618e-05	0.000113174
0.000100000	4.22167e-06	1.05822e-05	2.54029e-05	5.61618e-05	0.000113174
1.00000e-05	4.22167e-06	1.05822e-05	2.54029e-05	5.61618e-05	0.000113174
1.00000e-06	4.22167e-06	1.05822e-05	2.54029e-05	5.61618e-05	0.000113174
1.00000e-07	4.22167e-06	1.05822e-05	2.54029e-05	5.61618e-05	0.000113174
1.00000e-08	4.22167e-06	1.05822e-05	2.54029e-05	5.61618e-05	0.000113174
1.00000e-09	4.22167e-06	1.05822e-05	2.54029e-05	5.61618e-05	0.000113174

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.000278173	0.000170298	0.000134876	0.000118610	0.000104276
1.00000e+07	0.00183952	0.00133513	0.00112542	0.00103524	0.000981912
1.00000e+06	0.00329213	0.00339961	0.00330290	0.00317581	0.00305100
100000.	0.00246646	0.00321973	0.00340909	0.00332849	0.00317089
10000.0	0.00112520	0.00175700	0.00195939	0.00193843	0.00191662
1000.00	0.000392740	0.000658715	0.000838630	0.00100828	0.00123337
100.000	0.000228646	0.000385974	0.000582108	0.000826774	0.00112097
10.0000	0.000210214	0.000355310	0.000554350	0.000808258	0.00111020
1.00000	0.000208445	0.000352460	0.000551800	0.000806583	0.00110924
0.100000	0.000208272	0.000352189	0.000551562	0.000806422	0.00110916
0.0100000	0.000208254	0.000352163	0.000551539	0.000806414	0.00110915
0.00100000	0.000208253	0.000352160	0.000551537	0.000806406	0.00110915
0.000100000	0.000208253	0.000352160	0.000551537	0.000806406	0.00110915
1.00000e-05	0.000208253	0.000352160	0.000551537	0.000806406	0.00110915
1.00000e-06	0.000208253	0.000352160	0.000551537	0.000806406	0.00110915
1.00000e-07	0.000208253	0.000352160	0.000551537	0.000806406	0.00110915
1.00000e-08	0.000208253	0.000352160	0.000551537	0.000806406	0.00110915
1.00000e-09	0.000208253	0.000352160	0.000551537	0.000806406	0.00110915

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	8.76354e-05	7.31770e-05	0.00217571	0.00218834	0.00214304
1.00000e+07	0.000934635	0.000891607	0.00463494	0.00441189	0.00396883
1.00000e+06	0.00293185	0.00282205	0.00522213	0.00457530	0.00389447
100000.	0.00302325	0.00292164	0.00386564	0.00350872	0.00324694

10000.0	0.00197528	0.00211674	0.00270065	0.00296428	0.00303089
1000.00	0.00151558	0.00183035	0.00242853	0.00287378	0.00300280
100.000	0.00145127	0.00179604	0.00239703	0.00286450	0.00300015
10.0000	0.00144549	0.00179319	0.00239397	0.00286362	0.00299991
1.00000	0.00144499	0.00179296	0.00239366	0.00286354	0.00299989
0.100000	0.00144495	0.00179294	0.00239364	0.00286353	0.00299989
0.0100000	0.00144494	0.00179294	0.00239363	0.00286353	0.00299989
0.00100000	0.00144494	0.00179294	0.00239363	0.00286353	0.00299989
0.000100000	0.00144494	0.00179294	0.00239363	0.00286353	0.00299989
1.00000e-05	0.00144494	0.00179294	0.00239363	0.00286353	0.00299989
1.00000e-06	0.00144494	0.00179294	0.00239363	0.00286353	0.00299989
1.00000e-07	0.00144494	0.00179294	0.00239363	0.00286353	0.00299989
1.00000e-08	0.00144494	0.00179294	0.00239363	0.00286353	0.00299989
1.00000e-09	0.00144494	0.00179294	0.00239363	0.00286353	0.00299989

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	4.68710e-24	4.32499e-23	1.57200e-22	3.96944e-22	8.25434e-22
1.00000e+07	6.42782e-21	5.52064e-20	1.87966e-19	4.51574e-19	9.03912e-19
1.00000e+06	6.34911e-18	5.09261e-17	1.67834e-16	3.92958e-16	7.68061e-16
100000.	4.84715e-15	3.22033e-14	9.14056e-14	1.89176e-13	3.32805e-13
10000.0	1.46283e-12	6.76935e-12	1.60406e-11	2.96915e-11	4.83416e-11
1000.00	1.75533e-10	7.12816e-10	1.59221e-09	2.83394e-09	4.47480e-09
100.000	1.47674e-08	5.24617e-08	1.04853e-07	1.68217e-07	2.40272e-07
10.0000	5.32005e-07	1.00894e-06	1.30111e-06	1.50134e-06	1.65394e-06
1.00000	1.77444e-06	1.92093e-06	2.00554e-06	2.08061e-06	2.15337e-06
0.100000	2.06105e-06	2.10860e-06	2.15120e-06	2.19974e-06	2.25336e-06
0.0100000	2.10542e-06	2.12445e-06	2.15972e-06	2.20542e-06	2.25765e-06
0.00100000	2.10725e-06	2.12534e-06	2.16031e-06	2.20587e-06	2.25802e-06
0.000100000	2.10742e-06	2.12542e-06	2.16037e-06	2.20592e-06	2.25805e-06
1.00000e-05	2.10744e-06	2.12543e-06	2.16038e-06	2.20592e-06	2.25806e-06
1.00000e-06	2.10744e-06	2.12543e-06	2.16038e-06	2.20592e-06	2.25806e-06
1.00000e-07	2.10744e-06	2.12543e-06	2.16038e-06	2.20592e-06	2.25806e-06
1.00000e-08	2.10744e-06	2.12543e-06	2.16038e-06	2.20592e-06	2.25806e-06
1.00000e-09	2.10744e-06	2.12543e-06	2.16038e-06	2.20592e-06	2.25806e-06

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	1.52402e-21	2.60109e-21	4.20428e-21	6.53855e-21	9.89369e-21
1.00000e+07	1.61983e-18	2.69916e-18	4.27770e-18	6.54334e-18	9.76042e-18
1.00000e+06	1.34467e-15	2.18885e-15	3.38719e-15	5.05522e-15	7.34950e-15
100000.	5.31317e-13	7.96352e-13	1.14306e-12	1.59126e-12	2.16715e-12
10000.0	7.28356e-11	1.04297e-10	1.44193e-10	1.94434e-10	2.57520e-10
1000.00	6.56733e-09	9.18190e-09	1.24090e-08	1.63631e-08	2.11892e-08
100.000	3.19605e-07	4.05388e-07	4.97177e-07	5.94795e-07	6.98288e-07
10.0000	1.78056e-06	1.89281e-06	1.99741e-06	2.09859e-06	2.19924e-06
1.00000	2.22623e-06	2.30056e-06	2.37736e-06	2.45744e-06	2.54157e-06
0.100000	2.31150e-06	2.37408e-06	2.44127e-06	2.51335e-06	2.59074e-06
0.0100000	2.31497e-06	2.37703e-06	2.44384e-06	2.51564e-06	2.59282e-06
0.00100000	2.31529e-06	2.37730e-06	2.44408e-06	2.51586e-06	2.59302e-06
0.000100000	2.31532e-06	2.37733e-06	2.44411e-06	2.51588e-06	2.59304e-06
1.00000e-05	2.31532e-06	2.37733e-06	2.44411e-06	2.51589e-06	2.59304e-06
1.00000e-06	2.31532e-06	2.37733e-06	2.44411e-06	2.51589e-06	2.59304e-06
1.00000e-07	2.31532e-06	2.37733e-06	2.44411e-06	2.51589e-06	2.59304e-06
1.00000e-08	2.31532e-06	2.37733e-06	2.44411e-06	2.51589e-06	2.59304e-06
1.00000e-09	2.31532e-06	2.37733e-06	2.44411e-06	2.51589e-06	2.59304e-06

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	1.46868e-20	2.15291e-20	3.13319e-20	4.54775e-20	6.61005e-20
1.00000e+07	1.43072e-17	2.07340e-17	2.98547e-17	4.28924e-17	6.17152e-17
1.00000e+06	1.04854e-14	1.47632e-14	2.06070e-14	2.86216e-14	3.96790e-14
100000.	2.90567e-12	3.85387e-12	5.07571e-12	6.65877e-12	8.72380e-12
10000.0	3.36748e-10	4.36500e-10	5.62640e-10	7.23062e-10	9.28431e-10
1000.00	2.70702e-08	3.42381e-08	4.29860e-08	5.36832e-08	6.67933e-08
100.000	8.07890e-07	9.24013e-07	1.04723e-06	1.17828e-06	1.31802e-06
10.0000	2.30151e-06	2.40717e-06	2.51778e-06	2.63479e-06	2.75963e-06
1.00000	2.63054e-06	2.72518e-06	2.82643e-06	2.93527e-06	3.05280e-06
0.100000	2.67398e-06	2.76373e-06	2.86077e-06	2.96598e-06	3.08038e-06
0.0100000	2.67588e-06	2.76549e-06	2.86241e-06	2.96752e-06	3.08182e-06
0.00100000	2.67607e-06	2.76566e-06	2.86257e-06	2.96767e-06	3.08197e-06
0.000100000	2.67609e-06	2.76568e-06	2.86259e-06	2.96768e-06	3.08198e-06
1.00000e-05	2.67609e-06	2.76568e-06	2.86259e-06	2.96768e-06	3.08198e-06
1.00000e-06	2.67609e-06	2.76568e-06	2.86259e-06	2.96768e-06	3.08198e-06
1.00000e-07	2.67609e-06	2.76568e-06	2.86259e-06	2.96768e-06	3.08198e-06
1.00000e-08	2.67609e-06	2.76568e-06	2.86259e-06	2.96768e-06	3.08198e-06
1.00000e-09	2.67609e-06	2.76568e-06	2.86259e-06	2.96768e-06	3.08198e-06

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	9.65588e-20	1.42242e-19	2.11991e-19	3.20686e-19	4.94101e-19
1.00000e+07	8.92234e-17	1.30000e-16	1.91420e-16	2.85604e-16	4.32930e-16
1.00000e+06	5.50467e-14	7.65830e-14	1.07035e-13	1.50498e-13	2.13116e-13
100000.	1.14383e-11	1.50359e-11	1.98446e-11	2.63265e-11	3.51369e-11
10000.0	1.19322e-09	1.53713e-09	1.98700e-09	2.57950e-09	3.36471e-09
1000.00	8.28934e-08	1.02697e-07	1.27079e-07	1.57100e-07	1.94035e-07
100.000	1.46747e-06	1.62777e-06	1.80016e-06	1.98605e-06	2.18694e-06
10.0000	2.89375e-06	3.03862e-06	3.19577e-06	3.36684e-06	3.55348e-06
1.00000	3.18021e-06	3.31876e-06	3.46984e-06	3.63492e-06	3.81558e-06
0.100000	3.20506e-06	3.34126e-06	3.49029e-06	3.65360e-06	3.83270e-06
0.0100000	3.20644e-06	3.34257e-06	3.49153e-06	3.65479e-06	3.83384e-06
0.00100000	3.20657e-06	3.34270e-06	3.49166e-06	3.65491e-06	3.83396e-06
0.000100000	3.20659e-06	3.34271e-06	3.49167e-06	3.65492e-06	3.83397e-06
1.00000e-05	3.20659e-06	3.34271e-06	3.49167e-06	3.65492e-06	3.83397e-06
1.00000e-06	3.20659e-06	3.34271e-06	3.49167e-06	3.65492e-06	3.83397e-06
1.00000e-07	3.20659e-06	3.34271e-06	3.49167e-06	3.65492e-06	3.83397e-06
1.00000e-08	3.20659e-06	3.34271e-06	3.49167e-06	3.65492e-06	3.83397e-06
1.00000e-09	3.20659e-06	3.34271e-06	3.49167e-06	3.65492e-06	3.83397e-06

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	7.78401e-19	1.25944e-18	2.10327e-18	3.64224e-18	6.55570e-18
1.00000e+07	6.68527e-16	1.05464e-15	1.70471e-15	2.83036e-15	4.83210e-15
1.00000e+06	3.04196e-13	4.37929e-13	6.36139e-13	9.32611e-13	1.37995e-12
100000.	4.72083e-11	6.38745e-11	8.70489e-11	1.19486e-10	1.65157e-10
10000.0	4.41105e-09	5.81174e-09	7.69365e-09	1.02286e-08	1.36482e-08
1000.00	2.39401e-07	2.94982e-07	3.62856e-07	4.45415e-07	5.45389e-07
100.000	2.40445e-06	2.64035e-06	2.89655e-06	3.17512e-06	3.47826e-06
10.0000	3.75750e-06	3.98077e-06	4.22531e-06	4.49322e-06	4.78674e-06
1.00000	4.01352e-06	4.23055e-06	4.46862e-06	4.72980e-06	5.01632e-06
0.100000	4.02930e-06	4.24515e-06	4.48220e-06	4.74250e-06	5.02825e-06
0.0100000	4.03040e-06	4.24622e-06	4.48323e-06	4.74349e-06	5.02922e-06
0.00100000	4.03051e-06	4.24632e-06	4.48333e-06	4.74359e-06	5.02931e-06
0.000100000	4.03052e-06	4.24633e-06	4.48334e-06	4.74360e-06	5.02932e-06
1.00000e-05	4.03052e-06	4.24633e-06	4.48334e-06	4.74360e-06	5.02932e-06
1.00000e-06	4.03052e-06	4.24633e-06	4.48334e-06	4.74360e-06	5.02932e-06
1.00000e-07	4.03052e-06	4.24633e-06	4.48334e-06	4.74360e-06	5.02932e-06
1.00000e-08	4.03052e-06	4.24633e-06	4.48334e-06	4.74360e-06	5.02932e-06
1.00000e-09	4.03052e-06	4.24633e-06	4.48334e-06	4.74360e-06	5.02932e-06

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	1.22321e-17	2.34417e-17	4.54593e-17	6.43375e-17	1.65666e-16
1.00000e+07	8.46655e-15	1.51334e-14	2.73192e-14	4.43578e-14	8.72756e-14
1.00000e+06	2.06027e-12	3.10160e-12	4.70176e-12	6.91499e-12	1.09276e-11
100000.	2.29793e-10	3.21643e-10	4.52525e-10	6.40531e-10	9.05246e-10
10000.0	1.82620e-08	2.44811e-08	3.28444e-08	4.54556e-08	6.28976e-08
1000.00	6.65859e-07	8.10264e-07	9.82404e-07	1.28079e-06	1.72656e-06
100.000	3.80841e-06	4.16812e-06	4.56019e-06	5.07813e-06	5.45258e-06
10.0000	5.10827e-06	5.46033e-06	5.84559e-06	6.21432e-06	6.62617e-06
1.00000	5.33057e-06	5.67508e-06	6.05257e-06	6.35965e-06	6.69170e-06
0.100000	5.34182e-06	5.68575e-06	6.06272e-06	6.36653e-06	6.72631e-06
0.0100000	5.34276e-06	5.68666e-06	6.06361e-06	6.36709e-06	6.72715e-06
0.00100000	5.34285e-06	5.68675e-06	6.06369e-06	6.36714e-06	6.72724e-06
0.000100000	5.34286e-06	5.68676e-06	6.06370e-06	6.36715e-06	6.72725e-06
1.00000e-05	5.34286e-06	5.68676e-06	6.06370e-06	6.36715e-06	6.72725e-06
1.00000e-06	5.34286e-06	5.68676e-06	6.06370e-06	6.36715e-06	6.72725e-06
1.00000e-07	5.34286e-06	5.68676e-06	6.06370e-06	6.36715e-06	6.72725e-06
1.00000e-08	5.34286e-06	5.68676e-06	6.06370e-06	6.36715e-06	6.72725e-06
1.00000e-09	5.34286e-06	5.68676e-06	6.06370e-06	6.36715e-06	6.72725e-06

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	1.23961e-07	3.92990e-05	0.000221941	0.000436806	0.000387775
1.00000e+07	5.16287e-08	1.62668e-05	0.000439869	0.00162508	0.00205742
1.00000e+06	2.96940e-08	4.92027e-06	0.000195845	0.00119965	0.00234130
100000.	1.83971e-07	6.42714e-06	0.000107936	0.000585319	0.00141602
10000.0	2.03771e-06	1.65501e-05	8.09675e-05	0.000257310	0.000626384
1000.00	8.28813e-06	2.54405e-05	6.29582e-05	0.000137135	0.000280427
100.000	1.23119e-05	2.79891e-05	5.94560e-05	0.000116644	0.000212289
10.0000	1.31122e-05	2.84211e-05	5.90944e-05	0.000114426	0.000204791
1.00000	1.31908e-05	2.84438e-05	5.90442e-05	0.000114199	0.000204053
0.100000	1.31947e-05	2.84448e-05	5.90389e-05	0.000114177	0.000203980
0.0100000	1.31951e-05	2.84449e-05	5.90383e-05	0.000114175	0.000203972
0.00100000	1.31952e-05	2.84449e-05	5.90383e-05	0.000114174	0.000203971
0.000100000	1.31952e-05	2.84449e-05	5.90383e-05	0.000114174	0.000203971
1.00000e-05	1.31952e-05	2.84449e-05	5.90383e-05	0.000114174	0.000203971
1.00000e-06	1.31952e-05	2.84449e-05	5.90383e-05	0.000114174	0.000203971

1.00000e-07	1.31952e-05	2.84449e-05	5.90383e-05	0.000114174	0.000203971
1.00000e-08	1.31952e-05	2.84449e-05	5.90383e-05	0.000114174	0.000203971
1.00000e-09	1.31952e-05	2.84449e-05	5.90383e-05	0.000114174	0.000203971

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.000202845	0.000122063	9.71527e-05	8.88109e-05	8.56667e-05
1.00000e+07	0.00153869	0.00111055	0.000933321	0.000860470	0.000824188
1.00000e+06	0.00285921	0.00291631	0.00281412	0.00269740	0.00259071
100000.	0.00234788	0.00292523	0.00304724	0.00296824	0.00283948
10000.0	0.00123926	0.00177364	0.00193808	0.00193381	0.00193552
1000.00	0.000528584	0.000801159	0.000995035	0.00117965	0.00140068
100.000	0.000358301	0.000549507	0.000772557	0.00102886	0.00131112
10.0000	0.000339166	0.000521261	0.000748580	0.00101362	0.00130271
1.00000	0.000337353	0.000518667	0.000746406	0.00101226	0.00130197
0.100000	0.000337176	0.000518423	0.000746205	0.00101214	0.00130191
0.0100000	0.000337159	0.000518399	0.000746185	0.00101213	0.00130190
0.00100000	0.000337157	0.000518397	0.000746184	0.00101213	0.00130190
0.000100000	0.000337157	0.000518396	0.000746184	0.00101213	0.00130190
1.00000e-05	0.000337157	0.000518396	0.000746184	0.00101213	0.00130190
1.00000e-06	0.000337157	0.000518396	0.000746184	0.00101213	0.00130190
1.00000e-07	0.000337157	0.000518396	0.000746184	0.00101213	0.00130190
1.00000e-08	0.000337157	0.000518396	0.000746184	0.00101213	0.00130190
1.00000e-09	0.000337157	0.000518396	0.000746184	0.00101213	0.00130190

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	8.43836e-05	8.39266e-05	0.00174956	0.00173387	0.00168546
1.00000e+07	0.000799242	0.000778825	0.00328125	0.00304431	0.00274406
1.00000e+06	0.00249413	0.00240805	0.00385133	0.00342030	0.00301492
100000.	0.00272340	0.00264329	0.00338459	0.00317252	0.00293133
10000.0	0.00199673	0.00211080	0.00283929	0.00297909	0.00287800
1000.00	0.00165068	0.00190508	0.00269784	0.00294321	0.00287059
100.000	0.00160194	0.00188076	0.00268126	0.00293962	0.00287000
10.0000	0.00159772	0.00187889	0.00267967	0.00293930	0.00286995
1.00000	0.00159737	0.00187875	0.00267952	0.00293928	0.00286995
0.100000	0.00159735	0.00187873	0.00267951	0.00293927	0.00286995
0.0100000	0.00159734	0.00187873	0.00267951	0.00293927	0.00286995
0.00100000	0.00159734	0.00187873	0.00267951	0.00293927	0.00286995
0.000100000	0.00159734	0.00187873	0.00267951	0.00293927	0.00286995
1.00000e-05	0.00159734	0.00187873	0.00267951	0.00293927	0.00286995
1.00000e-06	0.00159734	0.00187873	0.00267951	0.00293927	0.00286995
1.00000e-07	0.00159734	0.00187873	0.00267951	0.00293927	0.00286995
1.00000e-08	0.00159734	0.00187873	0.00267951	0.00293927	0.00286995
1.00000e-09	0.00159734	0.00187873	0.00267951	0.00293927	0.00286995

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	6.40731e-23	9.53265e-22	4.30696e-21	1.23377e-20	2.78313e-20
1.00000e+07	3.02794e-19	3.15679e-18	1.15489e-17	2.86288e-17	5.80006e-17
1.00000e+06	4.60337e-16	3.77416e-15	1.23194e-14	2.82919e-14	5.39841e-14
100000.	3.44205e-13	2.08620e-12	5.41919e-12	1.03000e-11	1.66908e-11
10000.0	5.77390e-11	1.76107e-10	3.10817e-10	4.56640e-10	6.13406e-10
1000.00	1.26439e-09	2.70658e-09	4.16348e-09	5.67386e-09	7.25947e-09
100.000	1.32740e-08	2.58205e-08	3.74048e-08	4.84868e-08	5.92869e-08
10.0000	8.94503e-08	1.30198e-07	1.53501e-07	1.70005e-07	1.83298e-07
1.00000	1.88362e-07	2.00409e-07	2.07555e-07	2.14212e-07	2.20954e-07
0.100000	2.06885e-07	2.09942e-07	2.14124e-07	2.19306e-07	2.25162e-07
0.0100000	2.08841e-07	2.10922e-07	2.14793e-07	2.19821e-07	2.25587e-07
0.00100000	2.09037e-07	2.11020e-07	2.14860e-07	2.19873e-07	2.25629e-07
0.000100000	2.09057e-07	2.11030e-07	2.14866e-07	2.19878e-07	2.25633e-07
1.00000e-05	2.09059e-07	2.11031e-07	2.14867e-07	2.19879e-07	2.25634e-07
1.00000e-06	2.09059e-07	2.11031e-07	2.14867e-07	2.19879e-07	2.25634e-07
1.00000e-07	2.09059e-07	2.11031e-07	2.14867e-07	2.19879e-07	2.25634e-07
1.00000e-08	2.09059e-07	2.11031e-07	2.14867e-07	2.19879e-07	2.25634e-07
1.00000e-09	2.09059e-07	2.11031e-07	2.14867e-07	2.19879e-07	2.25634e-07

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	5.43011e-20	9.62593e-20	1.59608e-19	2.52202e-19	3.84671e-19
1.00000e+07	1.04020e-16	1.72152e-16	2.69422e-16	4.05026e-16	5.91206e-16
1.00000e+06	9.19779e-14	1.45334e-13	2.17789e-13	3.13997e-13	4.39854e-13
100000.	2.45993e-11	3.40870e-11	4.52681e-11	5.83117e-11	7.34477e-11
10000.0	7.82290e-10	9.65145e-10	1.16429e-09	1.38249e-09	1.62308e-09
1000.00	8.93963e-09	1.07347e-08	1.26670e-08	1.47611e-08	1.70457e-08
100.000	6.99606e-08	8.06385e-08	9.14353e-08	1.02457e-07	1.13806e-07
10.0000	1.94952e-07	2.05785e-07	2.16274e-07	2.26728e-07	2.37372e-07
1.00000	2.27957e-07	2.35325e-07	2.43137e-07	2.51464e-07	2.60380e-07

0.100000	2.31573e-07	2.38517e-07	2.46011e-07	2.54090e-07	2.62806e-07
0.0100000	2.31937e-07	2.38839e-07	2.46300e-07	2.54353e-07	2.63050e-07
0.00100000	2.31974e-07	2.38871e-07	2.46329e-07	2.54380e-07	2.63074e-07
0.000100000	2.31978e-07	2.38874e-07	2.46331e-07	2.54382e-07	2.63076e-07
1.00000e-05	2.31978e-07	2.38874e-07	2.46332e-07	2.54382e-07	2.63077e-07
1.00000e-06	2.31978e-07	2.38874e-07	2.46332e-07	2.54382e-07	2.63077e-07
1.00000e-07	2.31978e-07	2.38874e-07	2.46332e-07	2.54382e-07	2.63077e-07
1.00000e-08	2.31978e-07	2.38874e-07	2.46332e-07	2.54382e-07	2.63077e-07
1.00000e-09	2.31978e-07	2.38874e-07	2.46332e-07	2.54382e-07	2.63077e-07

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	5.71646e-19	8.33585e-19	1.19954e-18	1.71137e-18	2.43031e-18
1.00000e+07	8.44517e-16	1.18769e-15	1.65235e-15	2.28310e-15	3.14368e-15
1.00000e+06	6.02936e-13	8.13093e-13	1.08325e-12	1.43051e-12	1.87756e-12
100000.	9.09780e-11	1.11291e-10	1.34880e-10	1.62368e-10	1.94535e-10
10000.0	1.89009e-09	2.18842e-09	2.52406e-09	2.90433e-09	3.33820e-09
1000.00	1.95544e-08	2.23273e-08	2.54123e-08	2.88668e-08	3.27594e-08
100.000	1.25591e-07	1.37923e-07	1.50926e-07	1.64735e-07	1.79496e-07
10.0000	2.48388e-07	2.59937e-07	2.72174e-07	2.85255e-07	2.99341e-07
1.00000	2.69965e-07	2.80314e-07	2.91532e-07	3.03739e-07	3.17070e-07
0.100000	2.72229e-07	2.82442e-07	2.93546e-07	3.05655e-07	3.18903e-07
0.0100000	2.72456e-07	2.82655e-07	2.93748e-07	3.05847e-07	3.19086e-07
0.00100000	2.72479e-07	2.82677e-07	2.93768e-07	3.05866e-07	3.19104e-07
0.000100000	2.72481e-07	2.82679e-07	2.93770e-07	3.05868e-07	3.19106e-07
1.00000e-05	2.72481e-07	2.82679e-07	2.93770e-07	3.05869e-07	3.19106e-07
1.00000e-06	2.72481e-07	2.82679e-07	2.93770e-07	3.05869e-07	3.19106e-07
1.00000e-07	2.72481e-07	2.82679e-07	2.93770e-07	3.05869e-07	3.19106e-07
1.00000e-08	2.72481e-07	2.82679e-07	2.93770e-07	3.05869e-07	3.19106e-07
1.00000e-09	2.72481e-07	2.82679e-07	2.93770e-07	3.05869e-07	3.19106e-07

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	3.44730e-18	4.89949e-18	6.99739e-18	1.00704e-17	1.46457e-17
1.00000e+07	4.32616e-15	5.96552e-15	8.26212e-15	1.15180e-14	1.61958e-14
1.00000e+06	2.45474e-12	3.20266e-12	4.17590e-12	5.44792e-12	7.11792e-12
100000.	2.32358e-10	2.77053e-10	3.30133e-10	3.93478e-10	4.69419e-10
10000.0	3.83658e-09	4.41283e-09	5.08325e-09	5.86772e-09	6.79048e-09
1000.00	3.71719e-08	4.22013e-08	4.79625e-08	5.45909e-08	6.22460e-08
100.000	1.95370e-07	2.12537e-07	2.31187e-07	2.51532e-07	2.73802e-07
10.0000	3.14602e-07	3.31219e-07	3.49388e-07	3.69319e-07	3.91239e-07
1.00000	3.31675e-07	3.47718e-07	3.65383e-07	3.84871e-07	4.06401e-07
0.100000	3.33435e-07	3.49415e-07	3.67025e-07	3.86464e-07	4.07951e-07
0.0100000	3.33611e-07	3.49584e-07	3.67189e-07	3.86624e-07	4.08106e-07
0.00100000	3.33629e-07	3.49601e-07	3.67206e-07	3.86640e-07	4.08121e-07
0.000100000	3.33630e-07	3.49603e-07	3.67207e-07	3.86641e-07	4.08123e-07
1.00000e-05	3.33631e-07	3.49603e-07	3.67207e-07	3.86641e-07	4.08123e-07
1.00000e-06	3.33631e-07	3.49603e-07	3.67207e-07	3.86641e-07	4.08123e-07
1.00000e-07	3.33631e-07	3.49603e-07	3.67207e-07	3.86641e-07	4.08123e-07
1.00000e-08	3.33631e-07	3.49603e-07	3.67207e-07	3.86641e-07	4.08123e-07
1.00000e-09	3.33631e-07	3.49603e-07	3.67207e-07	3.86641e-07	4.08123e-07

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	2.15884e-17	3.23615e-17	4.95177e-17	7.76533e-17	1.25240e-16
1.00000e+07	2.30180e-14	3.31344e-14	4.84160e-14	7.19676e-14	1.09019e-13
1.00000e+06	9.32003e-12	1.22361e-11	1.61131e-11	2.12870e-11	2.82153e-11
100000.	5.60856e-10	6.71387e-10	8.05483e-10	9.68703e-10	1.16796e-09
10000.0	7.88114e-09	9.17585e-09	1.07187e-08	1.25636e-08	1.47763e-08
1000.00	7.11142e-08	8.14133e-08	9.33961e-08	1.07355e-07	1.23628e-07
100.000	2.98249e-07	3.25144e-07	3.54787e-07	3.87501e-07	4.23639e-07
10.0000	4.15397e-07	4.42059e-07	4.71518e-07	5.04092e-07	5.40129e-07
1.00000	4.30212e-07	4.56568e-07	4.85754e-07	5.18086e-07	5.53906e-07
0.100000	4.31723e-07	4.58045e-07	4.87202e-07	5.19507e-07	5.55302e-07
0.0100000	4.31875e-07	4.58193e-07	4.87346e-07	5.19649e-07	5.55442e-07
0.00100000	4.31890e-07	4.58207e-07	4.87361e-07	5.19663e-07	5.55456e-07
0.000100000	4.31891e-07	4.58209e-07	4.87362e-07	5.19664e-07	5.55458e-07
1.00000e-05	4.31892e-07	4.58209e-07	4.87362e-07	5.19665e-07	5.55458e-07
1.00000e-06	4.31892e-07	4.58209e-07	4.87362e-07	5.19665e-07	5.55458e-07
1.00000e-07	4.31892e-07	4.58209e-07	4.87362e-07	5.19665e-07	5.55458e-07
1.00000e-08	4.31892e-07	4.58209e-07	4.87362e-07	5.19665e-07	5.55458e-07
1.00000e-09	4.31892e-07	4.58209e-07	4.87362e-07	5.19665e-07	5.55458e-07

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	2.08031e-16	3.54959e-16	6.17374e-16	8.27233e-16	1.18821e-15
1.00000e+07	1.68422e-13	2.64978e-13	4.22730e-13	5.54516e-13	7.40875e-13
1.00000e+06	3.75210e-11	5.00505e-11	6.69451e-11	8.8329e-11	1.18037e-10
100000.	1.41185e-09	1.71104e-09	2.07877e-09	2.5632e-09	3.30883e-09
10000.0	1.74370e-08	2.06432e-08	2.45134e-08	2.93387e-08	3.74839e-08

1000.00	1.42600e-07	1.64710e-07	1.90453e-07	3.25101e-07	2.55074e-07
100.000	4.63585e-07	5.07759e-07	5.56611e-07	6.47655e-07	6.70237e-07
10.0000	5.80004e-07	6.24130e-07	6.72948e-07	7.22514e-07	7.86504e-07
1.00000	5.93588e-07	6.37539e-07	6.86202e-07	7.30869e-07	7.99484e-07
0.100000	5.94963e-07	6.38895e-07	6.87540e-07	7.31713e-07	8.00793e-07
0.0100000	5.95101e-07	6.39031e-07	6.87674e-07	7.31798e-07	8.00924e-07
0.00100000	5.95115e-07	6.39045e-07	6.87688e-07	7.31806e-07	8.00937e-07
0.000100000	5.95116e-07	6.39046e-07	6.87689e-07	7.31807e-07	8.00938e-07
1.00000e-05	5.95116e-07	6.39046e-07	6.87689e-07	7.31807e-07	8.00939e-07
1.00000e-06	5.95116e-07	6.39046e-07	6.87689e-07	7.31807e-07	8.00939e-07
1.00000e-07	5.95116e-07	6.39046e-07	6.87689e-07	7.31807e-07	8.00939e-07
1.00000e-08	5.95116e-07	6.39046e-07	6.87689e-07	7.31807e-07	8.00939e-07
1.00000e-09	5.95116e-07	6.39046e-07	6.87689e-07	7.31807e-07	8.00939e-07

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	4.77331e-08	1.48249e-05	8.88244e-05	0.000191540	0.000183292
1.00000e+07	2.51259e-08	5.94386e-06	0.000174889	0.000676524	0.000876030
1.00000e+06	1.67664e-08	1.50075e-06	6.70613e-05	0.000452735	0.000945394
100000.	6.93848e-08	1.55311e-06	2.87798e-05	0.000177808	0.000487092
10000.0	4.24062e-07	3.07566e-06	1.65616e-05	6.08959e-05	0.000174712
1000.00	1.22523e-06	3.94887e-06	1.08572e-05	2.68517e-05	6.38207e-05
100.000	1.62159e-06	4.08984e-06	9.76557e-06	2.15507e-05	4.40175e-05
10.0000	1.68199e-06	4.10730e-06	9.64632e-06	2.09833e-05	4.18515e-05
1.00000	1.68837e-06	4.10914e-06	9.63440e-06	2.09265e-05	4.16367e-05
0.100000	1.68901e-06	4.10933e-06	9.63315e-06	2.09208e-05	4.16153e-05
0.0100000	1.68908e-06	4.10935e-06	9.63305e-06	2.09202e-05	4.16132e-05
0.00100000	1.68909e-06	4.10935e-06	9.63305e-06	2.09202e-05	4.16129e-05
0.000100000	1.68909e-06	4.10935e-06	9.63305e-06	2.09202e-05	4.16129e-05
1.00000e-05	1.68909e-06	4.10935e-06	9.63305e-06	2.09202e-05	4.16129e-05
1.00000e-06	1.68909e-06	4.10935e-06	9.63305e-06	2.09202e-05	4.16129e-05
1.00000e-07	1.68909e-06	4.10935e-06	9.63305e-06	2.09202e-05	4.16129e-05
1.00000e-08	1.68909e-06	4.10935e-06	9.63305e-06	2.09202e-05	4.16129e-05
1.00000e-09	1.68909e-06	4.10935e-06	9.63305e-06	2.09202e-05	4.16129e-05

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	9.93599e-05	6.08230e-05	4.81602e-05	4.23353e-05	3.72007e-05
1.00000e+07	0.000660850	0.000479740	0.000404450	0.000372089	0.000352975
1.00000e+06	0.00119139	0.00123105	0.00119653	0.00115078	0.00110571
100000.	0.000892659	0.00116707	0.00123664	0.00120767	0.00115029
10000.0	0.000406443	0.000635768	0.000709516	0.000701550	0.000692795
1000.00	0.000142298	0.000238304	0.000302948	0.000363497	0.000444021
100.000	8.32107e-05	0.000139726	0.000209990	0.000297599	0.000403139
10.0000	7.65785e-05	0.000128646	0.000199933	0.000290879	0.000399222
1.00000	7.59425e-05	0.000127617	0.000199009	0.000290268	0.000398874
0.100000	7.58801e-05	0.000127519	0.000198923	0.000290212	0.000398841
0.0100000	7.58739e-05	0.000127509	0.000198915	0.000290207	0.000398838
0.00100000	7.58733e-05	0.000127508	0.000198914	0.000290206	0.000398838
0.000100000	7.58733e-05	0.000127508	0.000198914	0.000290206	0.000398838
1.00000e-05	7.58733e-05	0.000127508	0.000198914	0.000290206	0.000398838
1.00000e-06	7.58733e-05	0.000127508	0.000198914	0.000290206	0.000398838
1.00000e-07	7.58733e-05	0.000127508	0.000198914	0.000290206	0.000398838
1.00000e-08	7.58733e-05	0.000127508	0.000198914	0.000290206	0.000398838
1.00000e-09	7.58733e-05	0.000127508	0.000198914	0.000290206	0.000398838

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	3.12521e-05	2.60916e-05	0.000895898	0.000901040	0.000882124
1.00000e+07	0.000336052	0.000320662	0.00189637	0.00180351	0.00162031
1.00000e+06	0.00106261	0.00102282	0.00211841	0.00184700	0.00156481
100000.	0.00109628	0.00105895	0.00153744	0.00138400	0.00127908
10000.0	0.000713190	0.000763965	0.00104644	0.00115097	0.00118476
1000.00	0.000545470	0.000659228	0.000932528	0.00111243	0.00117251
100.000	0.000522027	0.000646692	0.000919356	0.00110848	0.00117135
10.0000	0.000519922	0.000645649	0.000918075	0.00110810	0.00117124
1.00000	0.000519740	0.000645564	0.000917949	0.00110806	0.00117123
0.100000	0.000519724	0.000645556	0.000917937	0.00110806	0.00117123
0.0100000	0.000519722	0.000645556	0.000917937	0.00110806	0.00117123
0.00100000	0.000519722	0.000645555	0.000917937	0.00110806	0.00117123
0.000100000	0.000519722	0.000645555	0.000917937	0.00110806	0.00117123
1.00000e-05	0.000519722	0.000645555	0.000917937	0.00110806	0.00117123
1.00000e-06	0.000519722	0.000645555	0.000917937	0.00110806	0.00117123
1.00000e-07	0.000519722	0.000645555	0.000917937	0.00110806	0.00117123
1.00000e-08	0.000519722	0.000645555	0.000917937	0.00110806	0.00117123
1.00000e-09	0.000519722	0.000645555	0.000917937	0.00110806	0.00117123

PAH10+CH3

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
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1.00000e+08	5.40369e-34	1.70739e-32	1.23425e-31	5.09345e-31	1.56836e-30
1.00000e+07	2.83982e-29	6.24673e-28	3.55164e-27	1.22436e-26	3.26293e-26
1.00000e+06	3.73204e-25	5.08359e-24	2.18055e-23	6.12524e-23	1.38621e-22
100000.	9.23118e-22	7.20728e-21	2.25293e-20	5.06624e-20	9.64228e-20
10000.0	3.84892e-19	1.89221e-18	4.72827e-18	9.26151e-18	1.60154e-17
1000.00	5.11577e-17	2.18286e-16	5.17072e-16	9.82827e-16	1.66513e-15
100.000	5.04864e-15	2.03340e-14	4.60201e-14	8.37606e-14	1.35881e-13
10.0000	3.39579e-13	9.51216e-13	1.58884e-12	2.22793e-12	2.87442e-12
1.00000	3.44940e-12	4.44500e-12	5.04141e-12	5.58217e-12	6.13522e-12
0.100000	5.23275e-12	5.51346e-12	5.84180e-12	6.24665e-12	6.71912e-12
0.0100000	5.49620e-12	5.65463e-12	5.94247e-12	6.32744e-12	6.78829e-12
0.00100000	5.52551e-12	5.66954e-12	5.95289e-12	6.33573e-12	6.79534e-12
0.000100000	5.52847e-12	5.67104e-12	5.95394e-12	6.33656e-12	6.79605e-12
1.00000e-05	5.52877e-12	5.67119e-12	5.95404e-12	6.33664e-12	6.79612e-12
1.00000e-06	5.52880e-12	5.67120e-12	5.95405e-12	6.33665e-12	6.79612e-12
1.00000e-07	5.52880e-12	5.67120e-12	5.95405e-12	6.33665e-12	6.79612e-12
1.00000e-08	5.52880e-12	5.67120e-12	5.95405e-12	6.33665e-12	6.79612e-12
1.00000e-09	5.52880e-12	5.67120e-12	5.95405e-12	6.33665e-12	6.79612e-12

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	4.04969e-30	9.33008e-30	1.99068e-29	4.03099e-29	7.88309e-29
1.00000e+07	7.46163e-26	1.54668e-25	3.00247e-25	5.57625e-25	1.00593e-24
1.00000e+06	2.76133e-22	5.07071e-22	8.82137e-22	1.47982e-21	2.42374e-21
100000.	1.66413e-19	2.69974e-19	4.20514e-19	6.37558e-19	9.50014e-19
10000.0	2.57280e-17	3.94475e-17	5.86676e-17	8.55426e-17	1.23226e-16
1000.00	2.63349e-15	3.98589e-15	5.86094e-15	8.45665e-15	1.20600e-14
100.000	2.05547e-13	2.97016e-13	4.15921e-13	5.69704e-13	7.68242e-13
10.0000	3.54213e-12	4.24760e-12	5.00861e-12	5.84465e-12	6.77802e-12
1.00000	6.72871e-12	7.38206e-12	8.11269e-12	8.93896e-12	9.88219e-12
0.100000	7.26053e-12	7.87863e-12	8.58494e-12	9.39453e-12	1.03268e-11
0.0100000	7.32220e-12	7.93518e-12	8.63789e-12	9.44493e-12	1.03754e-11
0.00100000	7.32846e-12	7.94091e-12	8.64324e-12	9.45002e-12	1.03803e-11
0.000100000	7.32909e-12	7.94148e-12	8.64378e-12	9.45053e-12	1.03808e-11
1.00000e-05	7.32915e-12	7.94154e-12	8.64383e-12	9.45058e-12	1.03809e-11
1.00000e-06	7.32916e-12	7.94154e-12	8.64384e-12	9.45058e-12	1.03809e-11
1.00000e-07	7.32916e-12	7.94154e-12	8.64384e-12	9.45058e-12	1.03809e-11
1.00000e-08	7.32916e-12	7.94154e-12	8.64384e-12	9.45058e-12	1.03809e-11
1.00000e-09	7.32916e-12	7.94154e-12	8.64384e-12	9.45058e-12	1.03809e-11

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	1.50873e-28	2.85594e-28	5.39392e-28	1.02394e-27	1.96601e-27
1.00000e+07	1.78296e-24	3.13355e-24	5.50200e-24	9.71236e-24	1.73277e-23
1.00000e+06	3.91201e-21	6.26766e-21	1.00260e-20	1.60879e-20	2.59897e-20
100000.	1.40139e-18	2.05821e-18	3.02367e-18	4.46001e-18	6.62528e-18
10000.0	1.76412e-16	2.52193e-16	3.61441e-16	5.21039e-16	7.57505e-16
1000.00	1.70928e-14	2.41842e-14	3.42822e-14	4.88302e-14	7.00419e-14
100.000	1.02470e-12	1.35667e-12	1.78768e-12	2.34908e-12	3.08256e-12
10.0000	7.83525e-12	9.04866e-12	1.04582e-11	1.21134e-11	1.40763e-11
1.00000	1.09684e-11	1.22297e-11	1.37064e-11	1.54491e-11	1.75207e-11
0.100000	1.14065e-11	1.26652e-11	1.41426e-11	1.58889e-11	1.79672e-11
0.0100000	1.14539e-11	1.27119e-11	1.41890e-11	1.59354e-11	1.80140e-11
0.00100000	1.14587e-11	1.27166e-11	1.41936e-11	1.59400e-11	1.80187e-11
0.000100000	1.14592e-11	1.27170e-11	1.41941e-11	1.59405e-11	1.80192e-11
1.00000e-05	1.14592e-11	1.27171e-11	1.41941e-11	1.59406e-11	1.80192e-11
1.00000e-06	1.14592e-11	1.27171e-11	1.41941e-11	1.59406e-11	1.80192e-11
1.00000e-07	1.14592e-11	1.27171e-11	1.41941e-11	1.59406e-11	1.80192e-11
1.00000e-08	1.14592e-11	1.27171e-11	1.41941e-11	1.59406e-11	1.80192e-11
1.00000e-09	1.14592e-11	1.27171e-11	1.41941e-11	1.59406e-11	1.80192e-11

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	3.83879e-27	7.65948e-27	1.56886e-26	3.31426e-26	7.25816e-26
1.00000e+07	3.13822e-23	5.79124e-23	1.09248e-22	2.11308e-22	4.20317e-22
1.00000e+06	4.23871e-20	6.99241e-20	1.16811e-19	1.97712e-19	3.39071e-19
100000.	9.93445e-18	1.50614e-17	2.31102e-17	3.59041e-17	5.64754e-17
10000.0	1.11295e-15	1.65484e-15	2.49227e-15	3.80291e-15	5.87795e-15
1000.00	1.01332e-13	1.47982e-13	2.18183e-13	3.24611e-13	4.86848e-13
100.000	4.04328e-12	5.30382e-12	6.95927e-12	9.13353e-12	1.19872e-11
10.0000	1.64247e-11	1.92558e-11	2.26917e-11	2.68857e-11	3.20301e-11
1.00000	2.00006e-11	2.29878e-11	2.66067e-11	3.10127e-11	3.64009e-11
0.100000	2.04565e-11	2.34562e-11	2.70904e-11	3.15150e-11	3.69251e-11
0.0100000	2.05041e-11	2.35048e-11	2.71403e-11	3.15667e-11	3.69788e-11
0.00100000	2.05088e-11	2.35096e-11	2.71453e-11	3.15718e-11	3.69842e-11
0.000100000	2.05093e-11	2.35101e-11	2.71458e-11	3.15723e-11	3.69847e-11
1.00000e-05	2.05094e-11	2.35102e-11	2.71459e-11	3.15724e-11	3.69848e-11
1.00000e-06	2.05094e-11	2.35102e-11	2.71459e-11	3.15724e-11	3.69848e-11
1.00000e-07	2.05094e-11	2.35102e-11	2.71459e-11	3.15724e-11	3.69848e-11

1.00000e-08	2.05094e-11	2.35102e-11	2.71459e-11	3.15724e-11	3.69848e-11
1.00000e-09	2.05094e-11	2.35102e-11	2.71459e-11	3.15724e-11	3.69848e-11
Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	1.65648e-25	3.95477e-25	9.86886e-25	2.55173e-24	6.72112e-24
1.00000e+07	8.62344e-22	1.82905e-21	4.01092e-21	9.05442e-21	2.08308e-20
1.00000e+06	5.88982e-19	1.03559e-18	1.84135e-18	3.30653e-18	5.98446e-18
100000.	8.98962e-17	1.44691e-16	2.35233e-16	3.85759e-16	6.37052e-16
10000.0	9.19704e-15	1.45532e-14	2.32597e-14	3.74890e-14	6.08205e-14
1000.00	7.34978e-13	1.11491e-12	1.69608e-12	2.58239e-12	3.92735e-12
100.000	1.57276e-11	2.06208e-11	2.70073e-11	3.53206e-11	4.61099e-11
10.0000	3.83664e-11	4.61972e-11	5.59022e-11	6.79566e-11	8.29535e-11
1.00000	4.30156e-11	5.11627e-11	6.12251e-11	7.36816e-11	8.91293e-11
0.100000	4.35652e-11	5.17416e-11	6.18373e-11	7.43316e-11	8.98218e-11
0.0100000	4.36213e-11	5.18004e-11	6.18995e-11	7.43975e-11	8.98918e-11
0.00100000	4.36269e-11	5.18063e-11	6.19057e-11	7.44041e-11	8.98988e-11
0.000100000	4.36275e-11	5.18069e-11	6.19064e-11	7.44047e-11	8.98995e-11
1.00000e-05	4.36275e-11	5.18070e-11	6.19064e-11	7.44048e-11	8.98996e-11
1.00000e-06	4.36275e-11	5.18070e-11	6.19064e-11	7.44048e-11	8.98996e-11
1.00000e-07	4.36275e-11	5.18070e-11	6.19064e-11	7.44048e-11	8.98996e-11
1.00000e-08	4.36275e-11	5.18070e-11	6.19064e-11	7.44048e-11	8.98996e-11
1.00000e-09	4.36275e-11	5.18070e-11	6.19064e-11	7.44048e-11	8.98996e-11
Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	1.76469e-23	4.52136e-23	1.11110e-22	5.49659e-16	5.67087e-22
1.00000e+07	4.81144e-20	1.09698e-19	2.43014e-19	4.96612e-15	1.04499e-18
1.00000e+06	1.08853e-17	1.98198e-17	3.59466e-17	7.42166e-15	1.14268e-16
100000.	1.05726e-15	1.75897e-15	2.92512e-15	1.55976e-13	7.97368e-15
10000.0	9.91027e-14	1.61770e-13	2.63777e-13	6.84349e-12	6.90368e-13
1000.00	5.95441e-12	8.98340e-12	1.34631e-11	8.06934e-11	2.94445e-11
100.000	6.00679e-11	7.80616e-11	1.01168e-10	1.97287e-10	1.68264e-10
10.0000	1.01632e-10	1.24909e-10	1.53909e-10	2.32054e-10	2.34822e-10
1.00000	1.08311e-10	1.32147e-10	1.61768e-10	2.36710e-10	2.44120e-10
0.100000	1.09052e-10	1.32940e-10	1.62621e-10	2.37210e-10	2.45111e-10
0.0100000	1.09126e-10	1.33020e-10	1.62707e-10	2.37260e-10	2.45210e-10
0.00100000	1.09133e-10	1.33028e-10	1.62716e-10	2.37265e-10	2.45220e-10
0.000100000	1.09134e-10	1.33029e-10	1.62716e-10	2.37266e-10	2.45221e-10
1.00000e-05	1.09134e-10	1.33029e-10	1.62717e-10	2.37266e-10	2.45221e-10
1.00000e-06	1.09134e-10	1.33029e-10	1.62717e-10	2.37266e-10	2.45221e-10
1.00000e-07	1.09134e-10	1.33029e-10	1.62717e-10	2.37266e-10	2.45221e-10
1.00000e-08	1.09134e-10	1.33029e-10	1.62717e-10	2.37266e-10	2.45221e-10
1.00000e-09	1.09134e-10	1.33029e-10	1.62717e-10	2.37266e-10	2.45221e-10
Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	1.94727e-09	1.79034e-06	1.49306e-05	3.78511e-05	3.52068e-05
1.00000e+07	2.52808e-10	9.33755e-07	6.02401e-05	0.000286546	0.000391466
1.00000e+06	3.15191e-11	1.12374e-07	1.73772e-05	0.000167539	0.000419449
100000.	8.32465e-11	4.29354e-08	3.32079e-06	3.62431e-05	0.000148314
10000.0	5.98923e-10	2.69439e-08	5.77964e-07	4.97213e-06	2.85592e-05
1000.00	1.52245e-09	1.68782e-08	1.37363e-07	8.32129e-07	4.75832e-06
100.000	1.87825e-09	1.46791e-08	9.03029e-08	4.36468e-07	1.79267e-06
10.0000	1.93427e-09	1.44327e-08	8.56127e-08	3.97895e-07	1.48752e-06
1.00000	1.94075e-09	1.44080e-08	8.51440e-08	3.94051e-07	1.45710e-06
0.100000	1.94142e-09	1.44055e-08	8.50972e-08	3.93667e-07	1.45406e-06
0.0100000	1.94149e-09	1.44052e-08	8.50925e-08	3.93629e-07	1.45375e-06
0.00100000	1.94150e-09	1.44052e-08	8.50920e-08	3.93625e-07	1.45373e-06
0.000100000	1.94150e-09	1.44052e-08	8.50920e-08	3.93624e-07	1.45373e-06
1.00000e-05	1.94150e-09	1.44052e-08	8.50920e-08	3.93624e-07	1.45373e-06
1.00000e-06	1.94150e-09	1.44052e-08	8.50920e-08	3.93624e-07	1.45373e-06
1.00000e-07	1.94150e-09	1.44052e-08	8.50920e-08	3.93624e-07	1.45373e-06
1.00000e-08	1.94150e-09	1.44052e-08	8.50920e-08	3.93624e-07	1.45373e-06
1.00000e-09	1.94150e-09	1.44052e-08	8.50920e-08	3.93624e-07	1.45373e-06
Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	1.73792e-05	1.03890e-05	8.80762e-06	8.56814e-06	8.38219e-06
1.00000e+07	0.000291752	0.000207766	0.000175476	0.000162914	0.000155529
1.00000e+06	0.000565409	0.000596756	0.000586562	0.000567100	0.000544597
100000.	0.000352882	0.000512487	0.000562200	0.000551599	0.000519688
10000.0	0.000115305	0.000227347	0.000266414	0.000256372	0.000241491
1000.00	2.38209e-05	5.54010e-05	7.19118e-05	8.39665e-05	0.000107467
100.000	6.51730e-06	1.60995e-05	2.98041e-05	5.17567e-05	8.61192e-05
10.0000	4.61013e-06	1.17025e-05	2.52442e-05	4.84458e-05	8.40349e-05
1.00000	4.42489e-06	1.12887e-05	2.48196e-05	4.81400e-05	8.38448e-05
0.100000	4.40665e-06	1.12491e-05	2.47795e-05	4.81113e-05	8.38264e-05
0.0100000	4.40483e-06	1.12452e-05	2.47757e-05	4.81085e-05	8.38250e-05
0.00100000	4.40465e-06	1.12448e-05	2.47753e-05	4.81082e-05	8.38250e-05

0.000100000	4.40463e-06	1.12447e-05	2.47753e-05	4.81082e-05	8.38250e-05
1.00000e-05	4.40463e-06	1.12447e-05	2.47753e-05	4.81082e-05	8.38250e-05
1.00000e-06	4.40463e-06	1.12447e-05	2.47753e-05	4.81082e-05	8.38250e-05
1.00000e-07	4.40463e-06	1.12447e-05	2.47753e-05	4.81082e-05	8.38250e-05
1.00000e-08	4.40463e-06	1.12447e-05	2.47753e-05	4.81082e-05	8.38250e-05
1.00000e-09	4.40463e-06	1.12447e-05	2.47753e-05	4.81082e-05	8.38250e-05

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	7.46759e-06	5.64128e-06	0.000693988	0.000686829	0.000669186
1.00000e+07	0.000147410	0.000135616	0.00150161	0.00139388	0.00124636
1.00000e+06	0.000520880	0.000497087	0.00159320	0.00134526	0.00112711
100000.	0.000487069	0.000464568	0.000981580	0.000849959	0.000806886
10000.0	0.000243062	0.000266396	0.000504478	0.000611966	0.000704230
1000.00	0.000147515	0.000202833	0.000398092	0.000573482	0.000690935
100.000	0.000134367	0.000195155	0.000385851	0.000569507	0.000689646
10.0000	0.000133141	0.000194471	0.000384650	0.000569123	0.000689523
1.00000	0.000133030	0.000194410	0.000384533	0.000569085	0.000689514
0.100000	0.000133019	0.000194404	0.000384522	0.000569085	0.000689514
0.0100000	0.000133019	0.000194404	0.000384521	0.000569085	0.000689514
0.00100000	0.000133019	0.000194404	0.000384521	0.000569085	0.000689514
0.000100000	0.000133019	0.000194404	0.000384521	0.000569085	0.000689514
1.00000e-05	0.000133019	0.000194404	0.000384521	0.000569085	0.000689514
1.00000e-06	0.000133019	0.000194404	0.000384521	0.000569085	0.000689514
1.00000e-07	0.000133019	0.000194404	0.000384521	0.000569085	0.000689514
1.00000e-08	0.000133019	0.000194404	0.000384521	0.000569085	0.000689514
1.00000e-09	0.000133019	0.000194404	0.000384521	0.000569085	0.000689514

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	2.79979e-16	1.03543e-15	2.14986e-15	3.59551e-15	5.37464e-15
1.00000e+07	1.34708e-14	3.50944e-14	5.92245e-14	8.60341e-14	1.15968e-13
1.00000e+06	2.19086e-13	4.89672e-13	8.19670e-13	1.23857e-12	1.77318e-12
100000.	5.44781e-12	2.51268e-11	6.33201e-11	1.22110e-10	2.03418e-10
10000.0	8.57210e-10	3.53217e-09	7.58710e-09	1.27915e-08	1.90182e-08
1000.00	5.32302e-08	1.34459e-07	2.15045e-07	2.96105e-07	3.79356e-07
100.000	7.13859e-07	1.40811e-06	2.05881e-06	2.68293e-06	3.28766e-06
10.0000	5.14452e-06	7.39997e-06	8.46752e-06	9.06717e-06	9.44482e-06
1.00000	8.75088e-06	7.41591e-06	6.22076e-06	5.23747e-06	4.42562e-06
0.100000	1.81155e-06	4.30244e-07	1.38096e-07	5.34681e-08	2.35731e-08
0.0100000	1.12080e-09	3.26919e-11	3.89932e-12	8.52645e-13	2.61390e-13
0.00100000	6.13621e-15	1.57356e-16	2.09618e-17	5.23562e-18	1.82352e-18
0.000100000	7.05671e-20	3.17325e-21	5.85420e-22	1.83810e-22	7.64165e-23
1.00000e-05	5.15385e-24	3.92446e-25	9.63259e-26	3.67766e-26	1.77489e-26
1.00000e-06	1.90001e-27	2.22647e-28	6.89327e-29	3.08424e-29	1.67966e-29
1.00000e-07	2.62315e-30	4.37762e-31	1.64170e-31	8.37640e-32	5.04210e-32
1.00000e-08	1.08467e-32	2.44799e-33	1.08285e-33	6.18810e-34	4.05987e-34
1.00000e-09	1.16672e-34	3.46317e-35	1.78230e-35	1.13042e-35	8.02761e-36

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	7.51058e-15	1.00457e-14	1.30412e-14	1.65790e-14	2.07667e-14
1.00000e+07	1.49619e-13	1.87739e-13	2.31255e-13	2.81312e-13	3.39342e-13
1.00000e+06	2.45314e-12	3.31360e-12	4.39724e-12	5.75696e-12	7.45954e-12
100000.	3.09580e-10	4.43599e-10	6.09301e-10	8.11513e-10	1.05632e-09
10000.0	2.62071e-08	3.43478e-08	4.34681e-08	5.36289e-08	6.49236e-08
1000.00	4.66135e-07	5.57603e-07	6.54865e-07	7.59063e-07	8.71444e-07
100.000	3.87809e-06	4.45863e-06	5.03315e-06	5.60517e-06	6.17803e-06
10.0000	9.70279e-06	9.88985e-06	1.00313e-05	1.01411e-05	1.02272e-05
1.00000	3.74971e-06	3.18279e-06	2.70443e-06	2.29896e-06	1.95411e-06
0.100000	1.14375e-08	5.97272e-09	3.30584e-09	1.91810e-09	1.15712e-09
0.0100000	9.93522e-14	4.37962e-14	2.15080e-14	1.14650e-14	6.51697e-15
0.00100000	7.79884e-19	3.83225e-19	2.08085e-19	1.21802e-19	7.55936e-20
0.000100000	3.77857e-23	2.10119e-23	1.27162e-23	8.20394e-24	5.56528e-24
1.00000e-05	9.90683e-27	6.10452e-27	4.04109e-27	2.82533e-27	2.06315e-27
1.00000e-06	1.03411e-29	6.92380e-30	4.92846e-30	3.67769e-30	2.85157e-30
1.00000e-07	3.36678e-32	2.41419e-32	1.82413e-32	1.43557e-32	1.16840e-32
1.00000e-08	2.90523e-34	2.20667e-34	1.75069e-34	1.43632e-34	1.21080e-34
1.00000e-09	6.12194e-36	4.90205e-36	4.06691e-36	3.46577e-36	3.01687e-36

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	2.57447e-14	3.16956e-14	3.88572e-14	4.75396e-14	5.81473e-14
1.00000e+07	4.07163e-13	4.87104e-13	5.82161e-13	6.96214e-13	8.34296e-13
1.00000e+06	9.59051e-12	1.22607e-11	1.56152e-11	1.98450e-11	2.52036e-11
100000.	1.35139e-09	1.70646e-09	2.13383e-09	2.64914e-09	3.27223e-09
10000.0	7.74800e-08	9.14648e-08	1.07089e-07	1.24617e-07	1.44368e-07
1000.00	9.93427e-07	1.12666e-06	1.27306e-06	1.43490e-06	1.61479e-06

100.000	6.75501e-06	7.33947e-06	7.93481e-06	8.54452e-06	9.17208e-06
10.0000	1.02941e-05	1.03444e-05	1.03791e-05	1.03982e-05	1.04011e-05
1.00000	1.66013e-06	1.40912e-06	1.19461e-06	1.01125e-06	8.54556e-07
0.100000	7.21222e-10	4.62169e-10	3.03283e-10	2.03142e-10	1.38514e-10
0.0100000	3.90046e-15	2.43517e-15	1.57472e-15	1.04894e-15	7.16604e-16
0.00100000	4.91678e-20	3.32340e-20	2.32001e-20	1.66494e-20	1.22417e-20
0.000100000	3.93231e-24	2.87511e-24	2.16564e-24	1.67610e-24	1.33173e-24
1.00000e-05	1.56210e-27	1.22077e-27	9.82548e-28	8.14647e-28	6.97939e-28
1.00000e-06	2.28515e-30	1.88788e-30	1.60838e-30	1.41806e-30	1.30389e-30
1.00000e-07	9.79606e-33	8.45136e-33	7.51709e-33	6.93235e-33	6.69922e-33
1.00000e-08	1.04466e-34	9.20749e-35	8.29178e-35	7.64845e-35	7.28167e-35
1.00000e-09	2.67139e-36	2.40089e-36	2.18479e-36	2.01257e-36	1.87943e-36

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	7.12087e-14	8.74146e-14	1.07669e-13	1.33161e-13	1.65447e-13
1.00000e+07	1.00297e-12	1.21079e-12	1.46902e-12	1.79251e-12	2.20100e-12
1.00000e+06	3.20285e-11	4.07714e-11	5.20390e-11	6.66497e-11	8.57115e-11
100000.	4.02826e-09	4.94912e-09	6.07515e-09	7.45740e-09	9.16027e-09
10000.0	1.66739e-07	1.92205e-07	2.21341e-07	2.54838e-07	2.93528e-07
1000.00	1.81583e-06	2.04155e-06	2.29605e-06	2.58403e-06	2.91078e-06
100.000	9.82101e-06	1.04946e-05	1.11963e-05	1.19290e-05	1.26952e-05
10.0000	1.03867e-05	1.03528e-05	1.02978e-05	1.02190e-05	1.01142e-05
1.00000	7.20746e-07	6.06607e-07	5.09396e-07	4.26756e-07	3.56652e-07
0.100000	9.59288e-11	6.73509e-11	4.78601e-11	3.43748e-11	2.49248e-11
0.0100000	5.00336e-16	3.56096e-16	2.57723e-16	1.89364e-16	1.41074e-16
0.00100000	9.20130e-21	7.06158e-21	5.53375e-21	4.43501e-21	3.64852e-21
0.000100000	1.08753e-24	9.16153e-25	8.01716e-25	7.36801e-25	7.21820e-25
1.00000e-05	6.22020e-28	5.83122e-28	5.84094e-28	6.36771e-28	7.68506e-28
1.00000e-06	1.26628e-30	1.32195e-30	1.51355e-30	1.93402e-30	2.78636e-30
1.00000e-07	6.89380e-33	7.71921e-33	9.61519e-33	1.35756e-32	2.20008e-32
1.00000e-08	7.24309e-35	7.71573e-35	9.15688e-35	1.28227e-34	2.28032e-34
1.00000e-09	1.79039e-36	1.77552e-36	1.94729e-36	2.72295e-36	5.71510e-36

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	2.06582e-13	2.59271e-13	3.27092e-13	4.14779e-13	5.28604e-13
1.00000e+07	2.72093e-12	3.38806e-12	4.25150e-12	5.37971e-12	6.86994e-12
1.00000e+06	1.10730e-10	1.43760e-10	1.87614e-10	2.46163e-10	3.24738e-10
100000.	1.12650e-08	1.38736e-08	1.71145e-08	2.11485e-08	2.61767e-08
10000.0	3.38407e-07	3.90673e-07	4.51756e-07	5.23376e-07	6.07584e-07
1000.00	3.28235e-06	3.70546e-06	4.18765e-06	4.73721e-06	5.36330e-06
100.000	1.34972e-05	1.43366e-05	1.52143e-05	1.61303e-05	1.70836e-05
10.0000	9.98137e-06	9.81848e-06	9.62413e-06	9.39755e-06	9.13868e-06
1.00000	2.97321e-07	2.47236e-07	2.05071e-07	1.69670e-07	1.40036e-07
0.100000	1.82266e-11	1.34306e-11	9.96487e-12	7.44000e-12	5.58698e-12
0.0100000	1.06480e-16	8.14059e-17	6.30714e-17	4.95965e-17	3.97003e-17
0.00100000	3.10096e-21	2.75029e-21	2.58080e-21	2.60436e-21	2.86985e-21
0.000100000	7.66830e-25	8.97172e-25	1.16679e-24	1.68884e-24	2.70700e-24
1.00000e-05	1.03795e-27	1.57378e-27	2.67484e-27	5.08160e-27	1.07403e-26
1.00000e-06	4.54111e-30	8.38317e-30	1.75673e-29	4.17341e-29	1.11078e-28
1.00000e-07	4.13044e-32	9.05953e-32	2.32094e-31	6.81971e-31	2.22049e-30
1.00000e-08	5.25969e-34	1.53223e-33	5.21897e-33	1.94540e-32	7.58033e-32
1.00000e-09	1.73995e-35	6.45039e-35	2.60054e-34	1.07693e-33	4.51315e-33

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	6.76886e-13	8.70644e-13	1.12443e-12	8.06883e-12	1.89362e-12
1.00000e+07	8.86269e-12	1.15630e-11	1.52697e-11	3.16361e-10	2.75676e-11
1.00000e+06	4.30708e-10	5.74248e-10	7.69332e-10	6.05332e-09	1.39631e-09
100000.	3.24498e-08	4.02790e-08	5.00493e-08	1.74279e-07	7.73931e-08
10000.0	7.06839e-07	8.24067e-07	9.62744e-07	2.19178e-06	1.32139e-06
1000.00	6.07582e-06	6.88543e-06	7.80349e-06	1.27721e-05	1.00114e-05
100.000	1.80723e-05	1.90927e-05	2.01402e-05	2.14180e-05	2.22857e-05
10.0000	8.84826e-06	8.52789e-06	8.17999e-06	6.61772e-06	7.41382e-06
1.00000	1.15298e-07	9.47096e-08	7.76226e-08	8.33838e-08	5.18038e-08
0.100000	4.21803e-12	3.20067e-12	2.44062e-12	2.42118e-11	1.44003e-12
0.0100000	3.25133e-17	2.74605e-17	2.41944e-17	4.43647e-15	2.26222e-17
0.00100000	3.48552e-21	4.66569e-21	6.82478e-21	4.44039e-18	1.80400e-20
0.000100000	4.76564e-24	9.12160e-24	1.87444e-23	2.13746e-20	9.20499e-23
1.00000e-05	2.49996e-26	6.29673e-26	1.67791e-25	2.43879e-22	1.29118e-24
1.00000e-06	3.23364e-28	9.99411e-28	3.18927e-27	4.38864e-24	3.29103e-26
1.00000e-07	7.70686e-30	2.76090e-29	9.97126e-29	8.80437e-26	1.25389e-27
1.00000e-08	3.00754e-31	1.19277e-30	4.67354e-30	2.79884e-27	6.68194e-29
1.00000e-09	1.88964e-32	7.82987e-32	3.18506e-31	1.79028e-28	4.85077e-30

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	2.87308e-07	6.66562e-05	0.000347287	0.000691905	0.000650118
1.00000e+07	2.54529e-07	3.56991e-05	0.000476350	0.00111564	0.00110745

1.00000e+06	2.83457e-07	1.59479e-05	0.000249353	0.000652418	0.000528432
100000.	1.83213e-06	2.55942e-05	0.000208899	0.000470736	0.000376189
10000.0	1.25061e-05	6.34738e-05	0.000184989	0.000254820	0.000197489
1000.00	3.61469e-05	7.35416e-05	9.52876e-05	7.93696e-05	4.96023e-05
100.000	2.83411e-05	2.53756e-05	1.50872e-05	6.65432e-06	2.67236e-06
10.0000	3.22535e-06	1.08235e-06	2.93372e-07	7.91584e-08	2.72890e-08
1.00000	1.44275e-08	2.58945e-09	1.08210e-09	1.05980e-09	8.67687e-10
0.100000	4.39275e-12	9.33638e-12	4.34984e-11	8.31243e-11	8.15887e-11
0.0100000	1.28607e-14	3.04778e-13	2.57210e-12	6.13717e-12	6.66430e-12
0.00100000	1.93691e-16	1.16329e-14	1.49103e-13	4.17611e-13	4.86677e-13
0.000100000	4.38914e-18	5.02559e-16	8.69761e-15	2.71313e-14	3.30975e-14
1.00000e-05	1.36022e-19	2.32498e-17	4.81817e-16	1.59397e-15	1.99411e-15
1.00000e-06	4.94158e-21	9.27924e-19	1.93151e-17	6.33246e-17	7.95632e-17
1.00000e-07	1.95163e-22	2.62275e-20	3.74764e-19	1.10389e-18	1.40094e-18
1.00000e-08	1.21137e-23	1.29466e-21	9.30614e-21	1.91069e-20	2.41364e-20
1.00000e-09	1.00146e-24	1.10044e-22	6.93558e-22	1.22971e-21	1.50493e-21

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.000359683	0.000223528	0.000171606	0.000140524	0.000110201
1.00000e+07	0.000751201	0.000511032	0.000403965	0.000356300	0.000326031
1.00000e+06	0.000342291	0.000262484	0.000222512	0.000204001	0.000199402
100000.	0.000210830	0.000137262	0.000110436	9.67899e-05	8.94681e-05
10000.0	0.000120540	7.58362e-05	5.12767e-05	3.67213e-05	2.89422e-05
1000.00	2.53727e-05	1.23454e-05	6.35344e-06	3.77615e-06	2.75644e-06
100.000	9.70066e-07	3.73614e-07	1.75331e-07	1.14412e-07	1.02505e-07
10.0000	1.05687e-08	5.10473e-09	3.37310e-09	3.28874e-09	4.08139e-09
1.00000	5.31137e-10	3.23024e-10	2.28254e-10	2.17401e-10	2.71421e-10
0.100000	5.30803e-11	3.25267e-11	2.19424e-11	1.88854e-11	2.18889e-11
0.0100000	4.54134e-12	2.83027e-12	1.90022e-12	1.57878e-12	1.76133e-12
0.00100000	3.43981e-13	2.18538e-13	1.48371e-13	1.22985e-13	1.35983e-13
0.000100000	2.40148e-14	1.55363e-14	1.07380e-14	9.03233e-15	1.00747e-14
1.00000e-05	1.47048e-15	9.67705e-16	6.87086e-16	6.01504e-16	6.97920e-16
1.00000e-06	5.90606e-17	3.98386e-17	3.03257e-17	3.05643e-17	4.12715e-17
1.00000e-07	1.09736e-18	8.24416e-19	8.28456e-19	1.27646e-18	2.33293e-18
1.00000e-08	2.29438e-20	2.25677e-20	3.62759e-20	8.05239e-20	1.69182e-19
1.00000e-09	1.54491e-21	1.65136e-21	2.94673e-21	6.85787e-21	1.44674e-20

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	8.69619e-05	8.05139e-05	5.43073e-05	6.02379e-05	7.40648e-05
1.00000e+07	0.000310859	0.000343994	5.35388e-05	5.92642e-05	6.63965e-05
1.00000e+06	0.000210917	0.000248100	9.35697e-05	7.77686e-05	5.68025e-05
100000.	9.16839e-05	0.000105412	9.00541e-05	4.60708e-05	2.03197e-05
10000.0	2.63641e-05	2.75489e-05	2.53357e-05	9.18786e-06	3.02825e-06
1000.00	2.46594e-06	2.58252e-06	2.89661e-06	1.00072e-06	3.10186e-07
100.000	1.10280e-07	1.33620e-07	2.43804e-07	9.40337e-08	2.97935e-08
10.0000	5.26436e-09	7.07352e-09	2.01509e-08	8.79767e-09	2.87219e-09
1.00000	3.54361e-10	4.70063e-10	1.72850e-09	8.34334e-10	2.79229e-10
0.100000	2.78326e-11	3.57262e-11	1.53450e-10	8.00426e-11	2.73138e-11
0.0100000	2.21345e-12	2.79885e-12	1.39677e-11	7.74181e-12	2.68265e-12
0.00100000	1.71422e-13	2.17184e-13	1.29442e-12	7.53287e-13	2.64257e-13
0.000100000	1.28515e-14	1.65134e-14	1.21879e-13	7.37110e-14	2.61104e-14
1.00000e-05	9.18374e-16	1.21930e-15	1.16323e-14	7.24827e-15	2.58686e-15
1.00000e-06	5.99139e-17	8.58538e-17	1.12285e-15	7.15739e-16	2.56889e-16
1.00000e-07	3.91702e-18	6.20650e-18	1.09835e-16	7.10166e-17	2.55795e-17
1.00000e-08	2.99892e-19	5.02922e-19	1.07486e-17	7.04707e-18	2.54735e-18
1.00000e-09	2.57383e-20	4.44355e-20	1.06526e-18	7.02579e-19	2.54343e-19

PAH3+H

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	5.23855e-32	1.56394e-30	1.08075e-29	4.25342e-29	1.24497e-28
1.00000e+07	2.55017e-27	5.60712e-26	3.17205e-25	1.08097e-24	2.83241e-24
1.00000e+06	4.19930e-23	7.09445e-22	3.53682e-21	1.10780e-20	2.71782e-20
100000.	3.20659e-19	3.93434e-18	1.52758e-17	3.85993e-17	7.81518e-17
10000.0	4.37912e-16	2.08549e-15	4.49603e-15	7.47889e-15	1.10022e-14
1000.00	2.43098e-14	5.67640e-14	9.12615e-14	1.28991e-13	1.70823e-13
100.000	2.96279e-13	5.91943e-13	8.82388e-13	1.18057e-12	1.49286e-12
10.0000	2.16857e-12	3.34655e-12	4.14159e-12	4.79081e-12	5.37843e-12
1.00000	5.38102e-12	5.96165e-12	6.36783e-12	6.77478e-12	7.20572e-12
0.100000	6.41369e-12	6.66674e-12	6.95608e-12	7.30106e-12	7.69268e-12
0.0100000	6.68358e-12	6.82405e-12	7.06954e-12	7.39163e-12	7.76934e-12
0.00100000	6.71771e-12	6.84133e-12	7.08150e-12	7.40101e-12	7.77720e-12
0.000100000	6.72117e-12	6.84307e-12	7.08270e-12	7.40195e-12	7.77799e-12
1.00000e-05	6.72151e-12	6.84324e-12	7.08282e-12	7.40205e-12	7.77807e-12
1.00000e-06	6.72155e-12	6.84326e-12	7.08284e-12	7.40206e-12	7.77808e-12
1.00000e-07	6.72155e-12	6.84326e-12	7.08284e-12	7.40206e-12	7.77808e-12
1.00000e-08	6.72155e-12	6.84326e-12	7.08284e-12	7.40206e-12	7.77808e-12

1.00000e-09 | 6.72155e-12 6.84326e-12 7.08284e-12 7.40206e-12 7.77808e-12

Pa\K | 70.0000 80.0000 90.0000 100.000 110.000

1.00000e+08 | 3.04496e-28 6.61905e-28 1.32673e-27 2.51164e-27 4.56698e-27
1.00000e+07 | 6.33677e-24 1.27879e-23 2.40486e-23 4.30438e-23 7.44207e-23
1.00000e+06 | 5.74779e-20 1.10224e-19 1.97513e-19 3.37228e-19 5.56083e-19
100000. | 1.38586e-16 2.25408e-16 3.45449e-16 5.07431e-16 7.22739e-16
10000.0 | 1.51054e-14 1.98731e-14 2.54272e-14 3.19298e-14 3.95917e-14
1000.00 | 2.17685e-13 2.70681e-13 3.31138e-13 4.00685e-13 4.81357e-13
100.000 | 1.82474e-12 2.18191e-12 2.57060e-12 2.99782e-12 3.47182e-12
10.0000 | 5.94599e-12 6.51897e-12 7.11550e-12 7.75053e-12 8.43822e-12
1.00000 | 7.67027e-12 8.17654e-12 8.73263e-12 9.34740e-12 1.00312e-11
0.100000 | 8.15671e-12 9.15671e-12 9.75979e-12 1.04347e-11
0.0100000 | 8.19717e-12 8.67671e-12 9.21271e-12 9.81214e-12 1.04842e-11
0.00100000 | 8.20404e-12 8.68289e-12 9.21838e-12 9.81743e-12 1.04892e-11
0.000100000 | 8.20473e-12 8.68351e-12 9.21895e-12 9.81796e-12 1.04897e-11
1.00000e-05 | 8.20480e-12 8.68357e-12 9.21901e-12 9.81801e-12 1.04898e-11
1.00000e-06 | 8.20481e-12 8.68358e-12 9.21901e-12 9.81802e-12 1.04898e-11
1.00000e-07 | 8.20481e-12 8.68358e-12 9.21902e-12 9.81802e-12 1.04898e-11
1.00000e-08 | 8.20481e-12 8.68358e-12 9.21902e-12 9.81802e-12 1.04898e-11
1.00000e-09 | 8.20481e-12 8.68358e-12 9.21902e-12 9.81802e-12 1.04898e-11

Pa\K | 120.000 130.000 140.000 150.000 160.000

1.00000e+08 | 8.07712e-27 1.40328e-26 2.41455e-26 4.14331e-26 7.13381e-26
1.00000e+07 | 1.25675e-22 2.09106e-22 3.45285e-22 5.69297e-22 9.42237e-22
1.00000e+06 | 8.94490e-19 1.41438e-18 2.21190e-18 3.43804e-18 5.33254e-18
100000. | 1.00647e-15 1.37893e-15 1.86759e-15 2.50998e-15 3.35752e-15
10000.0 | 4.86879e-14 5.95777e-14 7.27324e-14 8.87728e-14 1.08518e-13
1000.00 | 5.75736e-13 6.87127e-13 8.19786e-13 9.79214e-13 1.17252e-12
100.000 | 4.00250e-12 4.60192e-12 5.28486e-12 6.06946e-12 6.97790e-12
10.0000 | 9.19338e-12 1.00326e-11 1.09751e-11 1.20435e-11 1.32647e-11
1.00000 | 1.07966e-11 1.16587e-11 1.26360e-11 1.37510e-11 1.50306e-11
0.100000 | 1.11933e-11 1.20507e-11 1.30249e-11 1.41383e-11 1.54178e-11
0.0100000 | 1.12407e-11 1.20963e-11 1.30693e-11 1.41817e-11 1.54605e-11
0.00100000 | 1.12455e-11 1.21009e-11 1.30737e-11 1.41861e-11 1.54648e-11
0.000100000 | 1.12460e-11 1.21014e-11 1.30742e-11 1.41865e-11 1.54652e-11
1.00000e-05 | 1.12460e-11 1.21014e-11 1.30742e-11 1.41865e-11 1.54653e-11
1.00000e-06 | 1.12460e-11 1.21014e-11 1.30742e-11 1.41866e-11 1.54653e-11
1.00000e-07 | 1.12460e-11 1.21014e-11 1.30742e-11 1.41866e-11 1.54653e-11
1.00000e-08 | 1.12460e-11 1.21014e-11 1.30742e-11 1.41866e-11 1.54653e-11
1.00000e-09 | 1.12460e-11 1.21014e-11 1.30742e-11 1.41866e-11 1.54653e-11

Pa\K | 170.000 180.000 190.000 200.000 210.000

1.00000e+08 | 1.23916e-25 2.18251e-25 3.91659e-25 7.19676e-25 1.36135e-24
1.00000e+07 | 1.57281e-21 2.65900e-21 4.57043e-21 8.01657e-21 1.44013e-20
1.00000e+06 | 8.27968e-18 1.29008e-17 2.02078e-17 3.18604e-17 5.05949e-17
100000. | 4.48093e-15 5.97778e-15 7.98295e-15 1.06833e-14 1.43379e-14
10000.0 | 1.33052e-13 1.63815e-13 2.02722e-13 2.52332e-13 3.16069e-13
1000.00 | 1.40894e-12 1.70041e-12 2.06243e-12 2.51513e-12 3.08459e-12
100.000 | 8.03732e-12 9.28096e-12 1.07493e-11 1.24918e-11 1.45688e-11
10.0000 | 1.46712e-11 1.63019e-11 1.82035e-11 2.04323e-11 2.30564e-11
1.00000 | 1.65076e-11 1.82214e-11 2.02193e-11 2.25584e-11 2.53072e-11
0.100000 | 1.68961e-11 1.86124e-11 2.06142e-11 2.29586e-11 2.57140e-11
0.0100000 | 1.69384e-11 1.86545e-11 2.06563e-11 2.30008e-11 2.57566e-11
0.00100000 | 1.69426e-11 1.86587e-11 2.06605e-11 2.30050e-11 2.57608e-11
0.000100000 | 1.69430e-11 1.86591e-11 2.06609e-11 2.30054e-11 2.57613e-11
1.00000e-05 | 1.69431e-11 1.86591e-11 2.06610e-11 2.30055e-11 2.57613e-11
1.00000e-06 | 1.69431e-11 1.86591e-11 2.06610e-11 2.30055e-11 2.57613e-11
1.00000e-07 | 1.69431e-11 1.86591e-11 2.06610e-11 2.30055e-11 2.57613e-11
1.00000e-08 | 1.69431e-11 1.86591e-11 2.06610e-11 2.30055e-11 2.57613e-11
1.00000e-09 | 1.69431e-11 1.86591e-11 2.06610e-11 2.30055e-11 2.57613e-11

Pa\K | 220.000 230.000 240.000 250.000 260.000

1.00000e+08 | 2.66691e-24 5.44428e-24 1.16347e-23 2.60189e-23 6.03669e-23
1.00000e+07 | 2.65974e-20 5.06865e-20 9.99428e-20 2.03898e-19 4.28308e-19
1.00000e+06 | 8.09470e-17 1.30463e-16 2.11736e-16 3.45799e-16 5.67723e-16
100000. | 1.93072e-14 2.60923e-14 3.53913e-14 4.81766e-14 6.58028e-14
10000.0 | 3.98520e-13 5.05861e-13 6.46399e-13 8.31333e-13 1.07575e-12
1000.00 | 3.80463e-12 4.71904e-12 5.88439e-12 7.37361e-12 9.28042e-12
100.000 | 1.70535e-11 2.00354e-11 2.36234e-11 2.79494e-11 3.31743e-11
10.0000 | 2.61576e-11 2.98350e-11 3.42077e-11 3.94201e-11 4.56451e-11
1.00000 | 2.85487e-11 3.23820e-11 3.69272e-11 4.23286e-11 4.87599e-11
0.100000 | 2.89632e-11 3.28058e-11 3.73616e-11 4.27750e-11 4.92198e-11
0.0100000 | 2.90063e-11 3.28496e-11 3.74063e-11 4.28208e-11 4.92667e-11
0.00100000 | 2.90106e-11 3.28540e-11 3.74108e-11 4.28254e-11 4.92714e-11
0.000100000 | 2.90111e-11 3.28545e-11 3.74112e-11 4.28258e-11 4.92718e-11

1.00000e-05	2.90111e-11	3.28545e-11	3.74113e-11	4.28259e-11	4.92719e-11
1.00000e-06	2.90111e-11	3.28545e-11	3.74113e-11	4.28259e-11	4.92719e-11
1.00000e-07	2.90111e-11	3.28545e-11	3.74113e-11	4.28259e-11	4.92719e-11
1.00000e-08	2.90111e-11	3.28545e-11	3.74113e-11	4.28259e-11	4.92719e-11
1.00000e-09	2.90111e-11	3.28545e-11	3.74113e-11	4.28259e-11	4.92719e-11

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	1.42876e-22	3.37681e-22	7.80709e-22	1.20894e-15	3.67616e-21
1.00000e+07	9.16506e-19	1.96773e-18	4.16951e-18	2.82508e-14	1.70225e-17
1.00000e+06	9.35627e-16	1.54466e-15	2.54767e-15	1.19552e-13	6.81199e-15
100000.	9.01528e-14	1.23835e-13	1.70438e-13	1.24727e-12	3.23617e-13
10000.0	1.39998e-12	1.83125e-12	2.40589e-12	1.11902e-11	4.19129e-12
1000.00	1.17246e-11	1.48583e-11	1.88731e-11	5.00798e-11	3.05508e-11
100.000	3.94923e-11	4.71384e-11	5.63943e-11	8.51592e-11	8.11258e-11
10.0000	5.30913e-11	6.20082e-11	7.26932e-11	9.55655e-11	1.00818e-10
1.00000	5.64295e-11	6.55869e-11	7.65294e-11	9.81093e-11	1.05218e-10
0.100000	5.69043e-11	6.60781e-11	7.70384e-11	9.84348e-11	1.05767e-10
0.0100000	5.69526e-11	6.61279e-11	7.70899e-11	9.84678e-11	1.05822e-10
0.00100000	5.69574e-11	6.61329e-11	7.70950e-11	9.84711e-11	1.05827e-10
0.000100000	5.69579e-11	6.61334e-11	7.70955e-11	9.84715e-11	1.05828e-10
1.00000e-05	5.69579e-11	6.61334e-11	7.70956e-11	9.84715e-11	1.05828e-10
1.00000e-06	5.69580e-11	6.61334e-11	7.70956e-11	9.84715e-11	1.05828e-10
1.00000e-07	5.69580e-11	6.61334e-11	7.70956e-11	9.84715e-11	1.05828e-10
1.00000e-08	5.69580e-11	6.61334e-11	7.70956e-11	9.84715e-11	1.05828e-10
1.00000e-09	5.69580e-11	6.61334e-11	7.70956e-11	9.84715e-11	1.05828e-10

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	1.78065e-09	1.10972e-06	7.85221e-06	1.84897e-05	1.82558e-05
1.00000e+07	2.63173e-10	2.89593e-07	1.48829e-05	6.82098e-05	9.38341e-05
1.00000e+06	3.86118e-11	2.59265e-08	3.31137e-06	3.29855e-05	8.69571e-05
100000.	6.39463e-11	8.36529e-09	5.39733e-07	5.94809e-06	2.59767e-05
10000.0	2.44878e-10	5.28599e-09	9.03038e-08	7.49233e-07	4.36443e-06
1000.00	4.52087e-10	3.39396e-09	2.26189e-08	1.25785e-07	6.91401e-07
100.000	5.11869e-10	3.00287e-09	1.53601e-08	6.63403e-08	2.55908e-07
10.0000	5.30419e-10	2.97809e-09	1.46480e-08	6.05254e-08	2.11452e-07
1.00000	5.34017e-10	2.97665e-09	1.45770e-08	5.99459e-08	2.07025e-07
0.100000	5.34405e-10	2.97651e-09	1.45699e-08	5.98880e-08	2.06583e-07
0.0100000	5.34444e-10	2.97650e-09	1.45692e-08	5.98822e-08	2.06539e-07
0.00100000	5.34448e-10	2.97649e-09	1.45691e-08	5.98816e-08	2.06535e-07
0.000100000	5.34449e-10	2.97649e-09	1.45691e-08	5.98815e-08	2.06535e-07
1.00000e-05	5.34449e-10	2.97649e-09	1.45691e-08	5.98815e-08	2.06535e-07
1.00000e-06	5.34449e-10	2.97649e-09	1.45691e-08	5.98815e-08	2.06535e-07
1.00000e-07	5.34449e-10	2.97649e-09	1.45691e-08	5.98815e-08	2.06535e-07
1.00000e-08	5.34449e-10	2.97649e-09	1.45691e-08	5.98815e-08	2.06535e-07
1.00000e-09	5.34449e-10	2.97649e-09	1.45691e-08	5.98815e-08	2.06535e-07

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	9.93607e-06	6.01857e-06	4.60538e-06	3.76283e-06	2.94446e-06
1.00000e+07	7.16641e-05	5.22659e-05	4.41531e-05	4.02799e-05	3.74078e-05
1.00000e+06	0.000121010	0.000129981	0.000128952	0.000125055	0.000120002
100000.	6.82080e-05	0.000104228	0.000116680	0.000115102	0.000108070
10000.0	2.2533e-05	4.35291e-05	5.23859e-05	5.00755e-05	4.58778e-05
1000.00	3.93719e-06	9.97568e-06	1.28793e-05	1.42640e-05	1.75184e-05
100.000	9.66832e-07	2.46602e-06	4.45477e-06	7.66214e-06	1.30570e-05
10.0000	6.41258e-07	1.62801e-06	3.54382e-06	6.98395e-06	1.26210e-05
1.00000	6.09646e-07	1.54911e-06	3.45895e-06	6.92120e-06	1.25809e-05
0.100000	6.06532e-07	1.54155e-06	3.45092e-06	6.91529e-06	1.25772e-05
0.0100000	6.06223e-07	1.54081e-06	3.45014e-06	6.91473e-06	1.25768e-05
0.00100000	6.06192e-07	1.54074e-06	3.45007e-06	6.91467e-06	1.25768e-05
0.000100000	6.06189e-07	1.54073e-06	3.45006e-06	6.91466e-06	1.25768e-05
1.00000e-05	6.06189e-07	1.54073e-06	3.45006e-06	6.91466e-06	1.25768e-05
1.00000e-06	6.06189e-07	1.54073e-06	3.45006e-06	6.91466e-06	1.25768e-05
1.00000e-07	6.06189e-07	1.54073e-06	3.45006e-06	6.91466e-06	1.25768e-05
1.00000e-08	6.06189e-07	1.54073e-06	3.45006e-06	6.91466e-06	1.25768e-05
1.00000e-09	6.06189e-07	1.54073e-06	3.45006e-06	6.91466e-06	1.25768e-05

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	2.17806e-06	1.67451e-06	0.000538099	0.000540388	0.000528043
1.00000e+07	3.47506e-05	3.26932e-05	0.00105686	0.000993457	0.000874375
1.00000e+06	0.000114538	0.000109393	0.00102879	0.000826605	0.000633876
100000.	0.000100339	9.45599e-05	0.000523947	0.000378182	0.000320135
10000.0	4.47259e-05	4.82917e-05	0.000175444	0.000190117	0.000232116
1000.00	2.40893e-05	3.42286e-05	0.000100763	0.000160821	0.000220990
100.000	2.12790e-05	3.25399e-05	9.22189e-05	0.000157785	0.000219897
10.0000	2.10159e-05	3.23879e-05	9.13781e-05	0.000157491	0.000219792
1.00000	2.09920e-05	3.23743e-05	9.12963e-05	0.000157462	0.000219781

0.100000	2.09898e-05	3.23730e-05	9.12885e-05	0.000157460	0.000219781
0.0100000	2.09896e-05	3.23729e-05	9.12879e-05	0.000157460	0.000219781
0.00100000	2.09896e-05	3.23729e-05	9.12873e-05	0.000157459	0.000219781
0.000100000	2.09896e-05	3.23729e-05	9.12873e-05	0.000157459	0.000219781
1.00000e-05	2.09896e-05	3.23729e-05	9.12873e-05	0.000157459	0.000219781
1.00000e-06	2.09896e-05	3.23729e-05	9.12873e-05	0.000157459	0.000219781
1.00000e-07	2.09896e-05	3.23729e-05	9.12873e-05	0.000157459	0.000219781
1.00000e-08	2.09896e-05	3.23729e-05	9.12873e-05	0.000157459	0.000219781
1.00000e-09	2.09896e-05	3.23729e-05	9.12873e-05	0.000157459	0.000219781

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	7.84370e-24	1.53368e-22	8.65050e-22	2.97518e-21	7.82718e-21
1.00000e+07	1.48671e-19	2.70183e-18	1.31984e-17	3.92968e-17	9.04729e-17
1.00000e+06	9.77826e-16	9.09479e-15	2.98620e-14	6.74773e-14	1.26022e-13
100000.	6.99877e-13	3.66816e-12	9.10598e-12	1.73231e-11	2.86747e-11
10000.0	1.17989e-10	4.12219e-10	7.29468e-10	1.04013e-09	1.34410e-09
1000.00	2.33230e-09	3.74584e-09	4.76407e-09	5.64662e-09	6.45714e-09
100.000	7.94158e-09	8.68465e-09	7.94443e-09	6.87883e-09	5.82585e-09
10.0000	1.83076e-09	3.33546e-10	1.36301e-10	8.80343e-11	6.83760e-11
1.00000	2.58536e-11	9.40558e-12	4.80716e-12	2.84626e-12	1.83020e-12
0.100000	2.55476e-13	2.03466e-14	3.39503e-15	8.20785e-16	2.50252e-16
0.0100000	2.68406e-18	1.65033e-20	7.64599e-22	8.46166e-23	1.52652e-23
0.00100000	4.33889e-26	1.44730e-28	6.19103e-30	7.17541e-31	1.41504e-31
0.000100000	6.40022e-34	4.55967e-36	3.21315e-37	5.38706e-38	1.42556e-38
1.00000e-05	1.67257e-40	3.10304e-42	3.79150e-43	9.53405e-44	3.54955e-44
1.00000e-06	1.41264e-45	1.32895e-46	4.62444e-47	2.49837e-47	1.71566e-47
1.00000e-07	2.60497e-48	6.38298e-49	3.16870e-49	2.14041e-49	1.71805e-49
1.00000e-08	3.76091e-50	1.34393e-50	8.55213e-51	6.45377e-51	6.81362e-51
1.00000e-09	1.73344e-51	6.35029e-52	6.16376e-52	7.34302e-52	2.87510e-52

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	1.74301e-20	3.46978e-20	6.38111e-20	1.10766e-19	1.84209e-19
1.00000e+07	1.78375e-16	3.17605e-16	5.26869e-16	8.30635e-16	1.26152e-15
1.00000e+06	2.09986e-13	3.24692e-13	4.76676e-13	6.74149e-13	9.27588e-13
100000.	4.35014e-11	6.21338e-11	8.49126e-11	1.12213e-10	1.44475e-10
10000.0	1.64507e-09	1.94703e-09	2.25378e-09	2.56902e-09	2.89654e-09
1000.00	7.21897e-09	7.94510e-09	8.64457e-09	9.32438e-09	9.99025e-09
100.000	4.88867e-09	4.08938e-09	3.42112e-09	2.86787e-09	2.41205e-09
10.0000	5.72271e-11	4.96773e-11	4.40708e-11	3.96827e-11	3.61295e-11
1.00000	1.24063e-12	8.72215e-13	6.29674e-13	4.63730e-13	3.46804e-13
0.100000	8.96524e-17	3.61861e-17	1.60138e-17	7.62569e-18	3.85510e-18
0.0100000	3.76647e-24	1.15505e-24	4.15506e-25	1.68868e-25	7.55662e-26
0.00100000	3.87939e-32	1.32983e-32	5.35571e-33	2.43604e-33	1.21871e-33
0.000100000	4.99787e-39	2.11973e-39	1.03171e-39	5.57717e-40	3.27865e-40
1.00000e-05	1.71037e-44	1.00348e-44	6.99942e-45	5.78090e-45	5.66714e-45
1.00000e-06	1.39362e-47	1.29921e-47	1.37316e-47	1.63762e-47	2.18519e-47
1.00000e-07	1.63542e-49	1.75043e-49	2.11025e-49	2.83381e-49	4.24562e-49
1.00000e-08	7.73663e-51	7.82697e-51	1.00070e-50	1.87099e-50	2.75616e-50
1.00000e-09	4.23741e-52	1.21389e-51	3.22779e-52	5.38789e-52	1.81939e-51

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	2.96740e-19	4.66932e-19	7.22549e-19	1.10568e-18	1.68107e-18
1.00000e+07	1.86382e-15	2.69864e-15	3.85157e-15	5.44414e-15	7.65112e-15
1.00000e+06	1.25054e-12	1.66069e-12	2.18135e-12	2.84336e-12	3.68780e-12
100000.	1.82233e-10	2.26150e-10	2.77055e-10	3.35978e-10	4.04198e-10
10000.0	3.24042e-09	3.60515e-09	3.99579e-09	4.41812e-09	4.87882e-09
1000.00	1.06470e-08	1.12988e-08	1.19491e-08	1.26007e-08	1.32555e-08
100.000	2.03738e-09	1.72974e-09	1.47726e-09	1.27016e-09	1.10041e-09
10.0000	3.31804e-11	3.06846e-11	2.85375e-11	2.66632e-11	2.50050e-11
1.00000	2.62499e-13	2.00592e-13	1.54454e-13	1.19653e-13	9.31451e-14
0.100000	2.04828e-18	1.13495e-18	6.51855e-19	3.86181e-19	2.35054e-19
0.0100000	3.65537e-26	1.88563e-26	1.02667e-26	5.85306e-27	3.47215e-27
0.00100000	6.58328e-34	3.78900e-34	2.30102e-34	1.46397e-34	9.70852e-35
0.000100000	2.06902e-40	1.39313e-40	1.00347e-40	7.85955e-41	6.96315e-41
1.00000e-05	6.57098e-45	8.89330e-45	1.37481e-44	2.38338e-44	4.57447e-44
1.00000e-06	3.22548e-47	5.29069e-47	9.43607e-47	1.84946e-46	3.97426e-46
1.00000e-07	7.15645e-49	1.25111e-48	2.48548e-48	5.46233e-48	1.26799e-47
1.00000e-08	4.53235e-50	7.82277e-50	1.81064e-49	3.82944e-49	1.10555e-48
1.00000e-09	1.01198e-50	5.41956e-51	1.13189e-49	1.19862e-49	7.32325e-50

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	2.54990e-18	3.87290e-18	5.91010e-18	9.09083e-18	1.41408e-17
1.00000e+07	1.07269e-14	1.50464e-14	2.11697e-14	2.99449e-14	4.26772e-14
1.00000e+06	4.76950e-12	6.16197e-12	7.96395e-12	1.03084e-11	1.33748e-11

100000.	4.83294e-10	5.75198e-10	6.82277e-10	8.07410e-10	9.54093e-10
10000.0	5.38555e-09	5.94719e-09	6.57399e-09	7.27781e-09	8.07236e-09
1000.00	1.39148e-08	1.45787e-08	1.52462e-08	1.59152e-08	1.65826e-08
100.000	9.61478e-10	8.48014e-10	7.55667e-10	6.80879e-10	6.20728e-10
10.0000	2.35193e-11	2.21719e-11	2.09355e-11	1.97882e-11	1.87125e-11
1.00000	7.27911e-14	5.70600e-14	4.48372e-14	3.52996e-14	2.78323e-14
0.100000	1.46507e-19	9.32568e-20	6.04839e-20	3.98941e-20	2.67171e-20
0.0100000	2.13265e-27	1.35094e-27	8.79850e-28	5.87781e-28	4.02105e-28
0.00100000	6.68913e-35	4.78162e-35	3.54994e-35	2.75120e-35	2.25663e-35
0.000100000	7.45408e-41	1.02898e-40	1.84784e-40	4.09999e-40	1.05868e-39
1.00000e-05	9.65770e-44	2.23713e-43	5.68829e-43	1.58502e-42	4.84061e-42
1.00000e-06	9.34179e-46	2.40570e-45	6.85912e-45	2.14897e-44	7.41897e-44
1.00000e-07	3.26315e-47	9.24294e-47	2.88234e-46	9.57527e-46	3.71097e-45
1.00000e-08	2.34483e-48	7.63506e-48	2.38247e-47	5.74889e-47	3.25313e-46
1.00000e-09	5.88715e-50	1.27023e-49	1.72803e-49	6.86486e-48	1.20673e-47

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	2.23203e-17	3.58869e-17	5.90207e-17	9.97048e-17	1.73515e-16
1.00000e+07	6.14094e-14	8.94013e-14	1.31958e-13	1.97876e-13	3.01929e-13
1.00000e+06	1.74059e-11	2.27302e-11	2.97938e-11	3.92018e-11	5.17766e-11
100000.	1.12657e-09	1.32995e-09	1.57045e-09	1.85553e-09	2.19421e-09
10000.0	8.97348e-09	9.99937e-09	1.11710e-08	1.25124e-08	1.40508e-08
1000.00	1.72438e-08	1.78935e-08	1.85256e-08	1.91333e-08	1.97094e-08
100.000	5.72814e-10	5.35155e-10	5.06108e-10	4.84306e-10	4.68606e-10
10.0000	1.76942e-11	1.67224e-11	1.57884e-11	1.48861e-11	1.40114e-11
1.00000	2.19701e-14	1.73588e-14	1.37258e-14	1.08603e-14	8.59851e-15
0.100000	1.81427e-20	1.24786e-20	8.68545e-21	6.11333e-21	4.34913e-21
0.0100000	2.81432e-28	2.01494e-28	1.47704e-28	1.11120e-28	8.61957e-29
0.00100000	2.02713e-35	2.15475e-35	3.07280e-35	6.35521e-35	1.77827e-34
0.000100000	3.06117e-39	9.71237e-39	3.34387e-38	1.24006e-37	4.92265e-37
1.00000e-05	1.61577e-41	5.86974e-41	2.31466e-40	9.85437e-40	4.50799e-39
1.00000e-06	2.81069e-43	1.16182e-42	5.21824e-42	2.52756e-41	1.32775e-40
1.00000e-07	1.41900e-44	6.54744e-44	3.11541e-43	1.65957e-42	9.10792e-42
1.00000e-08	1.64022e-45	6.69072e-45	1.94783e-44	1.71795e-43	9.51842e-43
1.00000e-09	5.06987e-47	1.29374e-46	2.72660e-46	2.03084e-45	6.01778e-45

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	3.10975e-16	5.70840e-16	1.06177e-15	2.51761e-15	3.60996e-15
1.00000e+07	4.68993e-13	7.40404e-13	1.18275e-12	8.47398e-12	3.03272e-12
1.00000e+06	6.86328e-11	9.12766e-11	1.21727e-10	7.72858e-10	2.17475e-10
100000.	2.59729e-09	3.07777e-09	3.65109e-09	8.89436e-09	5.15214e-09
10000.0	1.58174e-08	1.78471e-08	2.01789e-08	3.75738e-08	2.59208e-08
1000.00	2.02475e-08	2.07412e-08	2.11858e-08	2.27614e-08	2.19119e-08
100.000	4.58054e-10	4.51844e-10	4.49297e-10	5.34832e-10	4.52920e-10
10.0000	1.31616e-11	1.23359e-11	1.15346e-11	1.10304e-11	1.00087e-11
1.00000	6.81228e-15	5.40119e-15	4.28623e-15	6.58055e-15	2.70867e-15
0.100000	3.12628e-21	2.27045e-21	1.66612e-21	4.82037e-20	9.27450e-22
0.0100000	6.95766e-29	5.96012e-29	5.67832e-29	1.16993e-23	1.13542e-28
0.00100000	5.95801e-34	2.21308e-33	8.79568e-33	1.27128e-25	1.60235e-31
0.000100000	2.08068e-36	9.31410e-36	4.39260e-35	3.04785e-27	1.11884e-33
1.00000e-05	2.20792e-38	1.15022e-37	6.33934e-37	1.61497e-28	2.22697e-35
1.00000e-06	7.36447e-40	4.36056e-39	2.70876e-38	1.36162e-29	1.17861e-36
1.00000e-07	5.12279e-41	3.31845e-40	2.11239e-39	1.33547e-30	9.82490e-38
1.00000e-08	5.55309e-42	2.42248e-41	1.88472e-40	1.00959e-31	1.17278e-38
1.00000e-09	6.23755e-44	2.30561e-43	1.42042e-42	1.35226e-32	1.01152e-39

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	1.15038e-07	2.94119e-05	0.000171310	0.000364542	0.000343712
1.00000e+07	4.67705e-08	7.25879e-06	0.000197255	0.000795013	0.00104535
1.00000e+06	2.34434e-08	1.06707e-06	2.30215e-05	0.000133218	0.000271191
100000.	6.50461e-08	6.44362e-07	4.82995e-06	1.32633e-05	2.31954e-05
10000.0	1.34574e-07	4.76783e-07	1.40486e-06	2.07680e-06	2.49613e-06
1000.00	3.09182e-08	8.05678e-08	2.21315e-07	2.85769e-07	2.89871e-07
100.000	8.92569e-10	3.69220e-09	1.51783e-08	2.33878e-08	2.57087e-08
10.0000	8.62926e-12	6.03550e-11	6.22457e-10	1.48261e-09	2.05863e-09
1.00000	5.31431e-15	1.38034e-12	3.40905e-11	1.07987e-10	1.76559e-10
0.100000	3.75683e-17	6.57401e-14	2.33909e-12	8.69836e-12	1.59037e-11
0.0100000	1.08318e-18	4.07693e-15	1.80622e-13	7.48030e-13	1.48096e-12
0.00100000	4.88378e-20	2.96312e-16	1.51125e-14	6.74453e-14	1.41201e-13
0.000100000	2.97194e-21	2.40844e-17	1.34323e-15	6.30551e-15	1.37003e-14
1.00000e-05	2.44646e-22	2.22432e-18	1.28312e-16	6.14498e-16	1.35466e-15
1.00000e-06	2.33625e-23	2.18380e-19	1.26942e-17	6.10742e-17	1.35096e-16
1.00000e-07	2.30531e-24	2.17166e-20	1.26811e-18	6.10333e-18	1.35135e-17
1.00000e-08	2.05149e-25	2.03760e-21	1.27391e-19	6.05058e-19	1.34939e-18
1.00000e-09	6.16992e-27	2.52796e-22	1.41982e-20	5.85758e-20	1.49527e-19

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
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1.00000e+08	0.000179290	9.80175e-05	6.70600e-05	5.42992e-05	4.85612e-05
1.00000e+07	0.000805416	0.000586376	0.000483566	0.000432963	0.000403953
1.00000e+06	0.000341576	0.000348636	0.000326903	0.000300369	0.000275367
100000.	3.40774e-05	3.97799e-05	3.90890e-05	3.61362e-05	3.30474e-05
10000.0	3.05596e-06	3.38927e-06	3.37143e-06	3.24487e-06	3.09993e-06
1000.00	3.03123e-07	3.16335e-07	3.14979e-07	3.03984e-07	2.86711e-07
100.000	2.69815e-08	2.80687e-08	2.80105e-08	2.69880e-08	2.53218e-08
10.0000	2.36354e-09	2.53286e-09	2.55448e-09	2.47012e-09	2.32067e-09
1.00000	2.16254e-10	2.36778e-10	2.40625e-10	2.33435e-10	2.19785e-10
0.100000	2.03795e-11	2.26529e-11	2.31506e-11	2.25206e-11	2.12454e-11
0.0100000	1.95904e-12	2.20078e-12	2.25832e-12	2.20143e-12	2.07967e-12
0.00100000	1.90909e-13	2.16026e-13	2.22296e-13	2.16996e-13	2.05173e-13
0.000100000	1.87890e-14	2.13610e-14	2.20209e-14	2.15153e-14	2.03542e-14
1.00000e-05	1.86818e-15	2.12783e-15	2.19522e-15	2.14569e-15	2.03045e-15
1.00000e-06	1.86566e-16	2.12600e-16	2.19373e-16	2.14446e-16	2.02948e-16
1.00000e-07	1.86522e-17	2.12533e-17	2.19370e-17	2.14420e-17	2.02896e-17
1.00000e-08	1.86241e-18	2.12358e-18	2.19651e-18	2.14307e-18	2.02795e-18
1.00000e-09	1.92710e-19	2.18558e-19	2.22477e-19	2.15863e-19	2.02878e-19

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	4.56092e-05	4.37338e-05	6.91485e-05	6.27922e-05	5.66119e-05
1.00000e+07	0.000382146	0.000361350	2.25662e-05	1.93521e-05	1.65930e-05
1.00000e+06	0.000252672	0.000232089	5.85854e-06	5.81291e-06	5.64541e-06
100000.	3.04046e-05	2.82086e-05	2.27046e-06	2.11087e-06	1.67317e-06
10000.0	2.93463e-06	2.73685e-06	4.35669e-07	3.17998e-07	2.11761e-07
1000.00	2.64855e-07	2.40041e-07	4.65466e-08	3.19842e-08	2.06462e-08
100.000	2.32592e-08	2.09956e-08	4.52079e-09	3.09096e-09	1.99180e-09
10.0000	2.13440e-09	1.93064e-09	4.41316e-10	3.01889e-10	1.94643e-10
1.00000	2.02578e-10	1.83649e-10	4.34670e-11	2.97478e-11	1.91867e-11
0.100000	1.96156e-11	1.78089e-11	4.30496e-12	2.94688e-12	1.90102e-12
0.0100000	1.92221e-12	1.74661e-12	4.27809e-13	2.92884e-13	1.88958e-13
0.00100000	1.89754e-13	1.72494e-13	4.26114e-14	2.91755e-14	1.88246e-14
0.000100000	1.88317e-14	1.71236e-14	4.25581e-15	2.91415e-15	1.88040e-15
1.00000e-05	1.87894e-15	1.70877e-15	4.25490e-16	2.91356e-16	1.88006e-16
1.00000e-06	1.87812e-16	1.70815e-16	4.25463e-17	2.91346e-17	1.87987e-17
1.00000e-07	1.87819e-17	1.70762e-17	4.25499e-18	2.91428e-18	1.87932e-18
1.00000e-08	1.87478e-18	1.70624e-18	4.25459e-19	2.90686e-19	1.87990e-19
1.00000e-09	1.65265e-19	1.50346e-19	4.05982e-20	2.77957e-20	1.79330e-20

PAH7+H
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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	4.20792e-32	9.20783e-31	5.59559e-30	2.05436e-29	5.76305e-29
1.00000e+07	1.01605e-27	2.04783e-26	1.10890e-25	3.66450e-25	9.37164e-25
1.00000e+06	1.18623e-23	1.67677e-22	7.48174e-22	2.17495e-21	5.06379e-21
100000.	4.97153e-20	5.71648e-19	2.25067e-18	5.88104e-18	1.23943e-17
10000.0	8.19403e-17	5.22764e-16	1.38164e-15	2.67813e-15	4.44619e-15
1000.00	1.41052e-14	4.43234e-14	8.08385e-14	1.22820e-13	1.70826e-13
100.000	3.43580e-13	8.65169e-13	1.64835e-12	2.83211e-12	4.56752e-12
10.0000	1.74516e-11	8.52605e-11	2.02997e-10	3.65663e-10	5.70139e-10
1.00000	1.48191e-09	3.57000e-09	5.44878e-09	7.16769e-09	8.77497e-09
0.100000	1.17078e-08	1.49228e-08	1.64047e-08	1.74642e-08	1.83908e-08
0.0100000	1.72839e-08	1.77778e-08	1.82784e-08	1.88638e-08	1.95169e-08
0.00100000	1.77837e-08	1.80222e-08	1.84439e-08	1.89908e-08	1.96212e-08
0.000100000	1.78319e-08	1.80463e-08	1.84602e-08	1.90034e-08	1.96315e-08
1.00000e-05	1.78367e-08	1.80487e-08	1.84619e-08	1.90047e-08	1.96326e-08
1.00000e-06	1.78372e-08	1.80489e-08	1.84620e-08	1.90048e-08	1.96327e-08
1.00000e-07	1.78373e-08	1.80489e-08	1.84621e-08	1.90048e-08	1.96327e-08
1.00000e-08	1.78373e-08	1.80489e-08	1.84621e-08	1.90048e-08	1.96327e-08
1.00000e-09	1.78373e-08	1.80489e-08	1.84621e-08	1.90048e-08	1.96327e-08

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	1.37122e-28	2.92688e-28	5.79785e-28	1.08992e-27	1.97550e-27
1.00000e+07	2.05486e-24	4.07662e-24	7.55532e-24	1.33559e-23	2.28510e-23
1.00000e+06	1.03156e-20	1.92593e-20	3.38717e-20	5.71246e-20	9.35426e-20
100000.	2.29337e-17	3.89598e-17	6.23884e-17	9.57822e-17	1.42630e-16
10000.0	6.74079e-15	9.64187e-15	1.32583e-14	1.77344e-14	2.32610e-14
1000.00	2.26004e-13	2.89986e-13	3.64932e-13	4.53678e-13	5.60003e-13
100.000	7.03688e-12	1.04707e-11	1.51666e-11	2.15147e-11	3.00336e-11
10.0000	8.15640e-10	1.10350e-09	1.43687e-09	1.82056e-09	2.26119e-09
1.00000	1.03077e-08	1.17959e-08	1.32644e-08	1.47345e-08	1.62260e-08
0.100000	1.92821e-08	2.01828e-08	2.11183e-08	2.21062e-08	2.31615e-08
0.0100000	2.02315e-08	2.10089e-08	2.18534e-08	2.27716e-08	2.37716e-08
0.00100000	2.03206e-08	2.10872e-08	2.19237e-08	2.28355e-08	2.38305e-08
0.000100000	2.03295e-08	2.10950e-08	2.19307e-08	2.28419e-08	2.38364e-08

1.00000e-05	2.03304e-08	2.10958e-08	2.19314e-08	2.28426e-08	2.38370e-08
1.00000e-06	2.03305e-08	2.10959e-08	2.19315e-08	2.28426e-08	2.38370e-08
1.00000e-07	2.03305e-08	2.10959e-08	2.19315e-08	2.28426e-08	2.38371e-08
1.00000e-08	2.03305e-08	2.10959e-08	2.19315e-08	2.28426e-08	2.38371e-08
1.00000e-09	2.03305e-08	2.10959e-08	2.19315e-08	2.28426e-08	2.38371e-08

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	3.49404e-27	6.08841e-27	1.05356e-26	1.82285e-26	3.17236e-26
1.00000e+07	3.82567e-23	6.32192e-23	1.03858e-22	1.70655e-22	2.81956e-22
1.00000e+06	1.50114e-19	2.37790e-19	3.73984e-19	5.86749e-19	9.21852e-19
100000.	2.07752e-16	2.97900e-16	4.22624e-16	5.95555e-16	8.36276e-16
10000.0	3.00899e-14	3.85556e-14	4.91029e-14	6.23266e-14	7.90226e-14
1000.00	6.89031e-13	8.47821e-13	1.04625e-12	1.29835e-12	1.62432e-12
100.000	4.14201e-11	5.66187e-11	7.69154e-11	1.04066e-10	1.40462e-10
10.0000	2.76737e-09	3.35005e-09	4.02285e-09	4.80252e-09	5.70937e-09
1.00000	1.77581e-08	1.93506e-08	2.10242e-08	2.28012e-08	2.47058e-08
0.100000	2.42987e-08	2.55330e-08	2.68814e-08	2.83626e-08	2.99981e-08
0.0100000	2.48639e-08	2.60611e-08	2.73782e-08	2.88329e-08	3.04455e-08
0.00100000	2.49187e-08	2.61124e-08	2.74267e-08	2.88788e-08	3.04893e-08
0.000100000	2.49241e-08	2.61176e-08	2.74315e-08	2.88834e-08	3.04937e-08
1.00000e-05	2.49247e-08	2.61181e-08	2.74320e-08	2.88839e-08	3.04941e-08
1.00000e-06	2.49247e-08	2.61181e-08	2.74321e-08	2.88839e-08	3.04941e-08
1.00000e-07	2.49248e-08	2.61181e-08	2.74321e-08	2.88839e-08	3.04941e-08
1.00000e-08	2.49248e-08	2.61181e-08	2.74321e-08	2.88839e-08	3.04941e-08
1.00000e-09	2.49248e-08	2.61181e-08	2.74321e-08	2.88839e-08	3.04941e-08

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	5.58309e-26	9.98547e-26	1.82354e-25	3.41671e-25	6.60269e-25
1.00000e+07	4.70589e-22	7.96694e-22	1.37331e-21	2.41897e-21	4.36946e-21
1.00000e+06	1.45479e-18	2.31141e-18	3.70333e-18	5.98943e-18	9.78263e-18
100000.	1.17305e-15	1.64690e-15	2.31740e-15	3.27150e-15	4.63609e-15
10000.0	1.00260e-13	1.27480e-13	1.62632e-13	2.08358e-13	2.68267e-13
1000.00	2.05373e-12	2.63036e-12	3.41986e-12	4.52178e-12	6.08829e-12
100.000	1.89365e-10	2.55187e-10	3.43877e-10	4.63410e-10	6.24387e-10
10.0000	6.76776e-09	8.00659e-09	9.45978e-09	1.11667e-08	1.31729e-08
1.00000	2.67648e-08	2.90074e-08	3.14663e-08	3.41773e-08	3.71808e-08
0.100000	3.18118e-08	3.38307e-08	3.60853e-08	3.86097e-08	4.14425e-08
0.0100000	3.22393e-08	3.42407e-08	3.64798e-08	3.89907e-08	4.18113e-08
0.00100000	3.22812e-08	3.42810e-08	3.65187e-08	3.90282e-08	4.18476e-08
0.000100000	3.22854e-08	3.42851e-08	3.65225e-08	3.90319e-08	4.18513e-08
1.00000e-05	3.22858e-08	3.42855e-08	3.65229e-08	3.90323e-08	4.18516e-08
1.00000e-06	3.22859e-08	3.42855e-08	3.65230e-08	3.90324e-08	4.18517e-08
1.00000e-07	3.22859e-08	3.42855e-08	3.65230e-08	3.90324e-08	4.18517e-08
1.00000e-08	3.22859e-08	3.42855e-08	3.65230e-08	3.90324e-08	4.18517e-08
1.00000e-09	3.22859e-08	3.42855e-08	3.65230e-08	3.90324e-08	4.18517e-08

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	1.32367e-24	2.76879e-24	6.06545e-24	1.38892e-23	3.29050e-23
1.00000e+07	8.12381e-21	1.56017e-20	3.10258e-20	6.38534e-20	1.35240e-19
1.00000e+06	1.61364e-17	2.68710e-17	4.51438e-17	7.64403e-17	1.30273e-16
100000.	6.59668e-15	9.42454e-15	1.35161e-14	1.94503e-14	2.80700e-14
10000.0	3.47299e-13	4.52262e-13	5.92601e-13	7.81503e-13	1.03750e-12
1000.00	8.35336e-12	1.16780e-11	1.66189e-11	2.40324e-11	3.52267e-11
100.000	8.40815e-10	1.13105e-09	1.51891e-09	2.03513e-09	2.71890e-09
10.0000	1.55297e-08	1.82958e-08	2.15366e-08	2.53249e-08	2.97408e-08
1.00000	4.05213e-08	4.42489e-08	4.84192e-08	5.30941e-08	5.83434e-08
0.100000	4.46268e-08	4.82112e-08	5.22501e-08	5.68044e-08	6.19427e-08
0.0100000	4.49846e-08	4.85591e-08	5.25890e-08	5.71353e-08	6.22660e-08
0.00100000	4.50199e-08	4.85935e-08	5.26226e-08	5.71680e-08	6.22980e-08
0.000100000	4.50235e-08	4.85969e-08	5.26259e-08	5.71713e-08	6.23012e-08
1.00000e-05	4.50238e-08	4.85973e-08	5.26263e-08	5.71716e-08	6.23016e-08
1.00000e-06	4.50238e-08	4.85973e-08	5.26263e-08	5.71717e-08	6.23016e-08
1.00000e-07	4.50239e-08	4.85973e-08	5.26263e-08	5.71717e-08	6.23016e-08
1.00000e-08	4.50239e-08	4.85973e-08	5.26263e-08	5.71717e-08	6.23016e-08
1.00000e-09	4.50239e-08	4.85973e-08	5.26263e-08	5.71717e-08	6.23016e-08

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	7.92047e-23	1.89568e-22	4.42139e-22	5.13995e-16	2.10169e-21
1.00000e+07	2.91410e-19	6.28894e-19	1.33693e-18	9.82886e-15	5.46724e-18
1.00000e+06	2.23028e-16	3.82543e-16	6.55120e-16	4.33740e-14	1.87978e-15
100000.	4.05971e-14	5.87923e-14	8.51673e-14	8.38647e-13	1.77952e-13
10000.0	1.38681e-12	1.86658e-12	2.52961e-12	2.11018e-11	4.73296e-12
1000.00	5.21802e-11	7.78442e-11	1.16546e-10	9.44373e-10	2.60371e-10
100.000	3.61968e-09	4.79926e-09	6.33377e-09	1.64036e-08	1.08534e-08
10.0000	3.48730e-08	4.08174e-08	4.76788e-08	7.00774e-08	6.46008e-08
1.00000	6.42442e-08	7.08827e-08	7.83540e-08	9.74914e-08	9.62100e-08

0.100000	6.77411e-08	7.42849e-08	8.16685e-08	1.00369e-07	9.93662e-08
0.0100000	6.80575e-08	7.45948e-08	8.19725e-08	1.00637e-07	9.96594e-08
0.00100000	6.80889e-08	7.46256e-08	8.20027e-08	1.00664e-07	9.96885e-08
0.000100000	6.80920e-08	7.46287e-08	8.20057e-08	1.00666e-07	9.96914e-08
1.00000e-05	6.80923e-08	7.46290e-08	8.20060e-08	1.00667e-07	9.96917e-08
1.00000e-06	6.80924e-08	7.46290e-08	8.20060e-08	1.00667e-07	9.96917e-08
1.00000e-07	6.80924e-08	7.46290e-08	8.20060e-08	1.00667e-07	9.96917e-08
1.00000e-08	6.80924e-08	7.46290e-08	8.20060e-08	1.00667e-07	9.96917e-08
1.00000e-09	6.80924e-08	7.46290e-08	8.20060e-08	1.00667e-07	9.96917e-08

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	8.03113e-10	5.55077e-07	4.12680e-06	9.91980e-06	9.47017e-06
1.00000e+07	1.46024e-10	2.94966e-07	1.68291e-05	7.69888e-05	0.000104861
1.00000e+06	2.97209e-11	6.03456e-08	7.79286e-06	6.48800e-05	0.000143617
100000.	1.04086e-10	5.05201e-08	3.18002e-06	2.85103e-05	8.35539e-05
10000.0	1.84603e-09	1.02818e-07	1.78636e-06	1.09430e-05	3.45364e-05
1000.00	2.34117e-08	2.77787e-07	1.63754e-06	5.74162e-06	1.47069e-05
100.000	1.32542e-07	6.51623e-07	2.12259e-06	5.28635e-06	1.10378e-05
10.0000	2.60513e-07	8.28918e-07	2.25459e-06	5.25609e-06	1.06265e-05
1.00000	2.87159e-07	8.49545e-07	2.26592e-06	5.25112e-06	1.05847e-05
0.100000	2.89506e-07	8.51365e-07	2.26695e-06	5.25059e-06	1.05805e-05
0.0100000	2.89732e-07	8.51544e-07	2.26705e-06	5.25053e-06	1.05801e-05
0.00100000	2.89755e-07	8.51562e-07	2.26706e-06	5.25052e-06	1.05800e-05
0.000100000	2.89757e-07	8.51564e-07	2.26706e-06	5.25052e-06	1.05800e-05
1.00000e-05	2.89758e-07	8.51564e-07	2.26706e-06	5.25052e-06	1.05800e-05
1.00000e-06	2.89758e-07	8.51564e-07	2.26706e-06	5.25052e-06	1.05800e-05
1.00000e-07	2.89758e-07	8.51564e-07	2.26706e-06	5.25052e-06	1.05800e-05
1.00000e-08	2.89758e-07	8.51564e-07	2.26706e-06	5.25052e-06	1.05800e-05
1.00000e-09	2.89758e-07	8.51564e-07	2.26706e-06	5.25052e-06	1.05800e-05

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	4.87157e-06	2.80989e-06	2.10714e-06	1.77798e-06	1.56069e-06
1.00000e+07	7.95849e-05	5.72085e-05	4.77567e-05	4.36693e-05	4.15128e-05
1.00000e+06	0.000183869	0.000190564	0.000185170	0.000178019	0.000171181
100000.	0.000150178	0.000193929	0.000205037	0.000200723	0.000191885
10000.0	7.51007e-05	0.000112965	0.000125823	0.000125521	0.000124475
1000.00	3.05998e-05	4.86561e-05	6.12764e-05	7.25540e-05	8.59592e-05
100.000	2.01480e-05	3.22437e-05	4.62215e-05	6.20876e-05	7.95932e-05
10.0000	1.89630e-05	3.03958e-05	4.45960e-05	6.10275e-05	7.89921e-05
1.00000	1.88498e-05	3.02253e-05	4.44480e-05	6.09325e-05	7.89400e-05
0.100000	1.88388e-05	3.02092e-05	4.44343e-05	6.09237e-05	7.89348e-05
0.0100000	1.88377e-05	3.02076e-05	4.44330e-05	6.09229e-05	7.89341e-05
0.00100000	1.88376e-05	3.02076e-05	4.44328e-05	6.09229e-05	7.89341e-05
0.000100000	1.88376e-05	3.02075e-05	4.44328e-05	6.09229e-05	7.89341e-05
1.00000e-05	1.88376e-05	3.02075e-05	4.44328e-05	6.09229e-05	7.89341e-05
1.00000e-06	1.88376e-05	3.02075e-05	4.44328e-05	6.09229e-05	7.89341e-05
1.00000e-07	1.88376e-05	3.02075e-05	4.44328e-05	6.09229e-05	7.89341e-05
1.00000e-08	1.88376e-05	3.02075e-05	4.44328e-05	6.09229e-05	7.89341e-05
1.00000e-09	1.88376e-05	3.02075e-05	4.44328e-05	6.09229e-05	7.89341e-05

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	1.32466e-06	1.03762e-06	0.000424294	0.000418142	0.000404627
1.00000e+07	3.94917e-05	3.66031e-05	0.000812661	0.000738726	0.000644566
1.00000e+06	0.000164586	0.000157902	0.000814096	0.000649471	0.000508481
100000.	0.000183233	0.000176772	0.000470877	0.000350590	0.000293680
10000.0	0.000127248	0.000134243	0.000212323	0.000210873	0.000225040
1000.00	0.000101624	0.000118541	0.000155510	0.000188643	0.000216212
100.000	9.80601e-05	0.000116702	0.000149025	0.000186359	0.000215355
10.0000	9.77489e-05	0.000116558	0.000148391	0.000186139	0.000215274
1.00000	9.77230e-05	0.000116546	0.000148329	0.000186118	0.000215266
0.100000	9.77202e-05	0.000116546	0.000148323	0.000186116	0.000215265
0.0100000	9.77202e-05	0.000116546	0.000148323	0.000186116	0.000215265
0.00100000	9.77202e-05	0.000116546	0.000148323	0.000186116	0.000215265
0.000100000	9.77202e-05	0.000116546	0.000148323	0.000186116	0.000215265
1.00000e-05	9.77202e-05	0.000116546	0.000148323	0.000186116	0.000215265
1.00000e-06	9.77202e-05	0.000116546	0.000148323	0.000186116	0.000215265
1.00000e-07	9.77202e-05	0.000116546	0.000148323	0.000186116	0.000215265
1.00000e-08	9.77202e-05	0.000116546	0.000148323	0.000186116	0.000215265
1.00000e-09	9.77202e-05	0.000116546	0.000148323	0.000186116	0.000215265

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	5.72257e-17	4.13871e-16	1.23392e-15	2.62790e-15	4.69666e-15
1.00000e+07	2.49403e-14	1.25149e-13	3.02676e-13	5.60434e-13	9.04378e-13
1.00000e+06	3.56807e-12	1.44004e-11	3.14329e-11	5.43277e-11	8.30518e-11

100000.	2.68209e-10	8.27930e-10	1.48941e-09	2.20751e-09	2.96871e-09
10000.0	6.10263e-09	1.16932e-08	1.58646e-08	1.90493e-08	2.15034e-08
1000.00	2.22624e-08	1.63291e-08	1.12372e-08	8.05853e-09	6.06506e-09
100.000	1.88109e-09	7.97247e-10	6.70956e-10	6.84758e-10	7.34694e-10
10.0000	8.40789e-10	9.65912e-10	9.82882e-10	9.73065e-10	9.56224e-10
1.00000	7.18969e-10	5.07787e-10	3.86764e-10	3.05365e-10	2.46061e-10
0.100000	8.50299e-11	1.74611e-11	5.19406e-12	1.91261e-12	8.12753e-13
0.0100000	3.39304e-14	8.88053e-16	1.00249e-16	2.11568e-17	6.32273e-18
0.00100000	1.36002e-19	3.26444e-21	4.21775e-22	1.03441e-22	3.55895e-23
0.000100000	1.32214e-24	5.80191e-26	1.06072e-26	3.31606e-27	1.37563e-27
1.00000e-05	9.17352e-29	6.95927e-30	1.70712e-30	6.52014e-31	3.14950e-31
1.00000e-06	3.35688e-32	3.93349e-33	1.21864e-33	5.45834e-34	2.97658e-34
1.00000e-07	4.63414e-35	7.74654e-36	2.91196e-36	1.49006e-36	8.99941e-37
1.00000e-08	1.94623e-37	4.47845e-38	2.01858e-38	1.17544e-38	7.86159e-39
1.00000e-09	2.37293e-39	7.66789e-40	4.19802e-40	2.80628e-40	2.09166e-40

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	7.54997e-15	1.13189e-14	1.61661e-14	2.22963e-14	2.99718e-14
1.00000e+07	1.34348e-12	1.89011e-12	2.56047e-12	3.37548e-12	4.36199e-12
1.00000e+06	1.17798e-10	1.58962e-10	2.07135e-10	2.63110e-10	3.27915e-10
100000.	3.77046e-09	4.61514e-09	5.50762e-09	6.45441e-09	7.46343e-09
10000.0	2.33993e-08	2.48603e-08	2.59765e-08	2.68152e-08	2.74280e-08
1000.00	4.76204e-09	3.87338e-09	3.24487e-09	2.78719e-09	2.44649e-09
100.000	7.96078e-10	8.61295e-10	9.27724e-10	9.94508e-10	1.06149e-09
10.0000	9.28209e-10	9.20886e-10	9.04772e-10	8.89895e-10	8.76107e-10
1.00000	2.00843e-10	1.65351e-10	1.36936e-10	1.13863e-10	9.49340e-11
0.100000	3.83169e-13	1.95473e-13	1.06098e-13	6.05401e-14	3.59955e-14
0.0100000	2.35682e-18	1.02292e-18	4.95990e-19	2.61587e-19	1.47349e-19
0.00100000	1.50886e-23	7.36651e-24	3.98034e-24	2.32115e-24	1.43642e-24
0.000100000	6.79561e-28	3.77815e-28	2.28722e-28	1.47664e-28	1.00268e-28
1.00000e-05	1.76005e-31	1.08606e-31	7.20091e-32	5.04315e-32	3.68941e-32
1.00000e-06	1.83543e-34	1.23100e-34	8.77873e-35	6.56380e-35	5.10006e-35
1.00000e-07	6.03186e-37	4.34323e-37	3.29662e-37	2.60720e-37	2.13321e-37
1.00000e-08	5.73912e-39	4.45108e-39	3.60960e-39	3.03052e-39	2.61731e-39
1.00000e-09	1.67109e-40	1.40105e-40	1.21731e-40	1.08727e-40	9.93043e-41

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	3.95316e-14	5.14184e-14	6.62159e-14	8.47008e-14	1.07914e-13
1.00000e+07	5.55457e-12	6.99800e-12	8.75054e-12	1.08885e-11	1.35122e-11
1.00000e+06	4.02860e-10	4.89596e-10	5.90198e-10	7.07262e-10	8.44022e-10
100000.	8.54414e-09	9.70762e-09	1.09668e-08	1.23367e-08	1.38343e-08
10000.0	2.78550e-08	2.81278e-08	2.82721e-08	2.83080e-08	2.82523e-08
1000.00	2.18901e-09	1.99289e-09	1.84360e-09	1.73128e-09	1.64919e-09
100.000	1.12885e-09	1.19688e-09	1.26600e-09	1.33662e-09	1.40918e-09
10.0000	8.63201e-10	8.50949e-10	8.39122e-10	8.27488e-10	8.15812e-10
1.00000	7.92863e-11	6.62781e-11	5.54197e-11	4.63296e-11	3.87049e-11
0.100000	2.21512e-14	1.40346e-14	9.11641e-15	6.05041e-15	4.09121e-15
0.0100000	8.75040e-20	5.42620e-20	3.48816e-20	2.31142e-20	1.57186e-20
0.00100000	9.32239e-25	6.29105e-25	4.38659e-25	3.14559e-25	2.31190e-25
0.000100000	7.09334e-29	5.19360e-29	3.91818e-29	3.03771e-29	2.41811e-29
1.00000e-05	2.79881e-32	2.19168e-32	1.76774e-32	1.46890e-32	1.26134e-32
1.00000e-06	4.09604e-35	3.39178e-35	2.89657e-35	2.56016e-35	2.35998e-35
1.00000e-07	1.79855e-37	1.56068e-37	1.39618e-37	1.29446e-37	1.25626e-37
1.00000e-08	2.31585e-39	2.09464e-39	1.93549e-39	1.82901e-39	1.77596e-39
1.00000e-09	9.23916e-41	8.73565e-41	8.37526e-41	8.13441e-41	8.00171e-41

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	1.37269e-13	1.74695e-13	2.22865e-13	2.85531e-13	3.68039e-13
1.00000e+07	1.67550e-11	2.07945e-11	2.58700e-11	3.23066e-11	4.05510e-11
1.00000e+06	1.00450e-09	1.19367e-09	1.41772e-09	1.68430e-09	2.00288e-09
100000.	1.54791e-08	1.72927e-08	1.92992e-08	2.15249e-08	2.39985e-08
10000.0	2.81184e-08	2.79175e-08	2.76589e-08	2.73507e-08	2.69999e-08
1000.00	1.59272e-09	1.55878e-09	1.54538e-09	1.55141e-09	1.57640e-09
100.000	1.48414e-09	1.56189e-09	1.64283e-09	1.72732e-09	1.81562e-09
10.0000	8.03857e-10	7.91387e-10	7.78163e-10	7.63961e-10	7.48566e-10
1.00000	3.23024e-11	2.69239e-11	2.24064e-11	1.86148e-11	1.54357e-11
0.100000	2.81188e-15	1.96046e-15	1.38420e-15	9.88311e-16	7.12703e-16
0.0100000	1.09311e-20	7.75146e-21	5.59236e-21	4.09759e-21	3.04523e-21
0.00100000	1.73750e-25	1.33367e-25	1.04555e-25	8.38481e-26	6.90374e-26
0.000100000	1.97863e-29	1.67036e-29	1.46498e-29	1.34953e-29	1.32535e-29
1.00000e-05	1.12682e-32	1.05895e-32	1.06342e-32	1.16239e-32	1.40669e-32
1.00000e-06	2.29772e-35	2.40466e-35	2.75976e-35	3.53457e-35	5.10395e-35
1.00000e-07	1.29579e-37	1.45047e-37	1.80114e-37	2.53036e-37	4.07875e-37
1.00000e-08	1.78585e-39	1.89211e-39	2.17789e-39	2.86993e-39	4.70174e-39
1.00000e-09	7.98486e-41	8.13664e-41	8.65440e-41	1.02631e-40	1.57408e-40

Pa\K	220.000	230.000	240.000	250.000	260.000
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1.00000e+08	4.78151e-13	6.27365e-13	8.33133e-13	1.12257e-12	1.53874e-12
1.00000e+07	5.12241e-11	6.52008e-11	8.37327e-11	1.08635e-10	1.42570e-10
1.00000e+06	2.38516e-09	2.84567e-09	3.40238e-09	4.07756e-09	4.89889e-09
100000.	2.67505e-08	2.98131e-08	3.32199e-08	3.70048e-08	4.12018e-08
10000.0	2.66125e-08	2.61946e-08	2.57517e-08	2.52891e-08	2.48122e-08
1000.00	1.62047e-09	1.68416e-09	1.76844e-09	1.87463e-09	2.00437e-09
100.000	1.90798e-09	2.00454e-09	2.10535e-09	2.21036e-09	2.31936e-09
10.0000	7.31793e-10	7.13486e-10	6.93535e-10	6.71875e-10	6.48500e-10
1.00000	1.27742e-11	1.05498e-11	8.69449e-12	7.15025e-12	5.86788e-12
0.100000	5.18544e-16	3.80307e-16	2.80945e-16	2.08916e-16	1.56297e-16
0.0100000	2.29360e-21	1.75030e-21	1.35398e-21	1.06334e-21	8.50273e-22
0.00100000	5.87379e-26	5.21604e-26	4.90158e-26	4.95430e-26	5.46908e-26
0.000100000	1.41162e-29	1.65600e-29	2.15972e-29	3.13515e-29	5.04048e-29
1.00000e-05	1.90521e-32	2.89712e-32	4.93858e-32	9.41034e-32	1.99484e-31
1.00000e-06	8.33741e-35	1.54266e-34	3.23960e-34	7.70973e-34	2.05445e-33
1.00000e-07	7.62157e-37	1.66523e-36	4.25100e-36	1.24436e-35	4.03399e-35
1.00000e-08	1.00744e-38	2.80020e-38	9.30564e-38	3.42005e-37	1.31817e-36
1.00000e-09	3.61541e-40	1.16800e-39	4.47586e-39	1.81368e-38	7.49165e-38

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	2.15083e-12	3.06988e-12	4.47005e-12	2.93990e-10	9.86857e-12
1.00000e+07	1.89469e-10	2.55096e-10	3.47725e-10	4.63023e-09	6.63086e-10
1.00000e+06	5.90062e-09	7.12512e-09	8.62455e-09	2.64397e-08	1.27126e-08
100000.	4.58436e-08	5.09608e-08	5.65806e-08	8.17126e-08	6.94013e-08
10000.0	2.43263e-08	2.38365e-08	2.33487e-08	1.98529e-08	2.23975e-08
1000.00	2.15956e-09	2.34236e-09	2.55512e-09	3.46093e-09	3.08021e-09
100.000	2.43205e-09	2.54792e-09	2.66633e-09	2.54226e-09	2.90682e-09
10.0000	6.23460e-10	5.96865e-10	5.68877e-10	4.22346e-10	5.09541e-10
1.00000	4.80549e-12	3.92748e-12	3.20358e-12	3.26571e-12	2.11939e-12
0.100000	1.17592e-16	8.89444e-17	6.76227e-17	6.73647e-16	3.96912e-17
0.0100000	6.95783e-22	5.87309e-22	5.17270e-22	1.02192e-19	4.83622e-22
0.00100000	6.65536e-26	8.92781e-26	1.30892e-25	9.59876e-23	3.47751e-25
0.000100000	8.90154e-29	1.70927e-28	3.52397e-28	4.55446e-25	1.74176e-27
1.00000e-05	4.65653e-31	1.17596e-30	3.14087e-30	5.18115e-27	2.42444e-29
1.00000e-06	5.98373e-33	1.84879e-32	5.89241e-32	9.28784e-29	6.04368e-31
1.00000e-07	1.39292e-34	4.95919e-34	1.77767e-33	1.83732e-30	2.19111e-32
1.00000e-08	5.17414e-36	2.02787e-35	7.83910e-35	5.63556e-32	1.08435e-33
1.00000e-09	3.09378e-37	1.26279e-36	5.05056e-36	3.50816e-33	7.38809e-35

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	9.36165e-07	5.72077e-05	0.000165051	0.000217277	0.000170648
1.00000e+07	4.24329e-07	8.64645e-06	2.96781e-05	3.61040e-05	2.83249e-05
1.00000e+06	2.21270e-07	1.25790e-06	3.59887e-06	4.74072e-06	3.34125e-06
100000.	1.72803e-07	2.82306e-07	5.14899e-07	7.76526e-07	6.38730e-07
10000.0	2.07751e-08	4.29229e-08	1.02488e-07	1.42126e-07	1.27944e-07
1000.00	8.63189e-09	1.69353e-08	2.21371e-08	1.98215e-08	1.53436e-08
100.000	3.22336e-09	2.85911e-09	1.75881e-09	8.69241e-10	4.59436e-10
10.0000	2.00950e-10	6.83070e-11	1.97910e-11	6.27564e-12	3.00328e-12
1.00000	5.65569e-13	1.05958e-13	4.91887e-14	5.90478e-14	6.93325e-14
0.100000	1.26087e-16	2.88841e-16	1.54279e-15	3.71997e-15	5.30906e-15
0.0100000	3.13944e-19	8.19784e-18	8.09453e-17	2.46451e-16	3.86469e-16
0.00100000	4.49110e-21	2.99679e-19	4.52346e-18	1.60874e-17	2.64693e-17
0.000100000	9.99300e-23	1.27508e-20	2.60667e-19	1.02310e-18	1.71531e-18
1.00000e-05	3.01363e-24	5.78678e-22	1.42719e-20	5.88999e-20	9.86344e-20
1.00000e-06	1.02293e-25	2.19998e-23	5.60166e-22	2.28631e-21	3.76967e-21
1.00000e-07	3.37570e-27	5.00166e-25	9.78962e-24	3.74391e-23	6.21663e-23
1.00000e-08	1.68547e-28	1.61613e-26	1.41972e-25	4.03143e-25	6.66403e-25
1.00000e-09	1.21115e-29	1.12565e-27	7.07883e-27	1.46757e-26	2.11714e-26

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	9.04848e-05	6.08345e-05	6.88521e-05	0.000119362	0.000217995
1.00000e+07	2.13480e-05	2.25014e-05	3.63200e-05	7.92017e-05	0.000188943
1.00000e+06	4.74508e-06	3.15733e-06	6.63095e-06	1.72103e-05	4.48949e-05
100000.	4.66016e-07	5.59216e-07	1.19213e-06	3.26020e-06	8.19417e-06
10000.0	1.11655e-07	1.39813e-07	2.63418e-07	6.40767e-07	1.45918e-06
1000.00	1.21976e-08	1.27173e-08	2.01510e-08	5.12825e-08	1.32226e-07
100.000	2.77358e-10	2.46582e-10	4.95137e-10	2.44635e-09	9.26805e-09
10.0000	2.02344e-12	2.55126e-12	1.51317e-11	1.55893e-10	7.45944e-10
1.00000	7.42729e-14	1.15242e-13	9.69956e-13	1.25749e-11	6.61994e-11
0.100000	5.97375e-15	8.70932e-15	7.70140e-14	1.11064e-12	6.15776e-12
0.0100000	4.40328e-16	6.23458e-16	6.61749e-15	1.03360e-13	5.90386e-13
0.00100000	2.97061e-17	4.24021e-17	6.01515e-16	9.93737e-15	5.76866e-14
0.000100000	1.86753e-18	2.88041e-18	5.71841e-17	9.76674e-16	5.71177e-15
1.00000e-05	1.03708e-19	1.99711e-19	5.61009e-18	9.73524e-17	5.70267e-16
1.00000e-06	3.89094e-21	1.39361e-20	5.55650e-19	9.72878e-18	5.70148e-17
1.00000e-07	7.32838e-23	1.11842e-21	5.53408e-20	9.72686e-19	5.70127e-18

1.00000e-08	1.71470e-24	1.06833e-22	5.52977e-21	9.72648e-20	5.70123e-19
1.00000e-09	1.20758e-25	1.06321e-23	5.52920e-22	9.72640e-21	5.70122e-20

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.000319387	0.000379910	8.55446e-05	8.98468e-05	8.46006e-05
1.00000e+07	0.000361067	0.000509444	3.33544e-05	3.48605e-05	3.34764e-05
1.00000e+06	9.52549e-05	0.000146548	1.56350e-05	1.42335e-05	1.16147e-05
100000.	1.58047e-05	2.28018e-05	5.22810e-06	3.41217e-06	2.11739e-06
10000.0	2.44713e-06	3.10300e-06	8.51696e-07	4.42830e-07	2.39466e-07
1000.00	2.33792e-07	2.99005e-07	9.10418e-08	4.51274e-08	2.37947e-08
100.000	1.92657e-08	2.64832e-08	8.91695e-09	4.44510e-09	2.34327e-09
10.0000	1.70471e-09	2.45114e-09	8.74848e-10	4.39223e-10	2.31881e-10
1.00000	1.58769e-10	2.34145e-10	8.64630e-11	4.35884e-11	2.30333e-11
0.100000	1.51936e-11	2.27588e-11	8.58459e-12	4.33798e-12	2.29354e-12
0.0100000	1.48071e-12	2.23838e-12	8.54447e-13	4.32431e-13	2.28711e-13
0.00100000	1.45969e-13	2.21775e-13	8.53262e-14	4.32045e-14	2.28538e-14
0.000100000	1.45094e-14	2.20931e-14	8.53100e-15	4.31994e-15	2.28516e-15
1.00000e-05	1.44959e-15	2.20804e-15	8.53076e-16	4.31987e-16	2.28514e-16
1.00000e-06	1.44943e-16	2.20789e-16	8.53070e-17	4.31985e-17	2.28513e-17
1.00000e-07	1.44941e-17	2.20787e-17	8.53070e-18	4.31984e-18	2.28513e-18
1.00000e-08	1.44941e-18	2.20786e-18	8.53070e-19	4.31984e-19	2.28513e-19
1.00000e-09	1.44940e-19	2.20786e-19	8.53070e-20	4.31984e-20	2.28513e-20

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	8.04586e-18	1.91196e-17	4.18900e-17	8.78414e-17	1.74045e-16
1.00000e+07	3.43288e-17	5.63985e-17	1.07896e-16	2.10175e-16	3.92093e-16
1.00000e+06	3.40837e-17	5.53642e-17	1.16100e-16	2.34401e-16	4.40306e-16
100000.	2.85868e-17	5.29012e-17	1.15798e-16	2.36450e-16	4.45360e-16
10000.0	2.78226e-17	5.25975e-17	1.15744e-16	2.36646e-16	4.45865e-16
1000.00	2.77435e-17	5.25665e-17	1.15739e-16	2.36666e-16	4.45916e-16
100.000	2.77356e-17	5.25634e-17	1.15738e-16	2.36668e-16	4.45921e-16
10.0000	2.77348e-17	5.25631e-17	1.15738e-16	2.36668e-16	4.45921e-16
1.00000	2.77347e-17	5.25631e-17	1.15738e-16	2.36668e-16	4.45921e-16
0.100000	2.77347e-17	5.25631e-17	1.15738e-16	2.36668e-16	4.45921e-16
0.0100000	2.77347e-17	5.25631e-17	1.15738e-16	2.36668e-16	4.45921e-16
0.00100000	2.77347e-17	5.25631e-17	1.15738e-16	2.36668e-16	4.45921e-16
0.000100000	2.77347e-17	5.25631e-17	1.15738e-16	2.36668e-16	4.45921e-16
1.00000e-05	2.77347e-17	5.25631e-17	1.15738e-16	2.36668e-16	4.45921e-16
1.00000e-06	2.77347e-17	5.25631e-17	1.15738e-16	2.36668e-16	4.45921e-16
1.00000e-07	2.77347e-17	5.25631e-17	1.15738e-16	2.36668e-16	4.45921e-16
1.00000e-08	2.77347e-17	5.25631e-17	1.15738e-16	2.36668e-16	4.45921e-16
1.00000e-09	2.77347e-17	5.25631e-17	1.15738e-16	2.36668e-16	4.45921e-16

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	3.26585e-16	5.84536e-16	1.00607e-15	1.67819e-15	2.73192e-15
1.00000e+07	6.95493e-16	1.17951e-15	1.92810e-15	3.06234e-15	4.75932e-15
1.00000e+06	7.77764e-16	1.30842e-15	2.11934e-15	3.33570e-15	5.14020e-15
100000.	7.86796e-16	1.32270e-15	2.14046e-15	3.36569e-15	5.18165e-15
10000.0	7.87707e-16	1.32414e-15	2.14260e-15	3.36872e-15	5.18583e-15
1000.00	7.87799e-16	1.32429e-15	2.14281e-15	3.36902e-15	5.18625e-15
100.000	7.87808e-16	1.32430e-15	2.14283e-15	3.36905e-15	5.18629e-15
10.0000	7.87809e-16	1.32430e-15	2.14284e-15	3.36905e-15	5.18630e-15
1.00000	7.87809e-16	1.32430e-15	2.14284e-15	3.36905e-15	5.18630e-15
0.100000	7.87809e-16	1.32430e-15	2.14284e-15	3.36905e-15	5.18630e-15
0.0100000	7.87809e-16	1.32430e-15	2.14284e-15	3.36905e-15	5.18630e-15
0.00100000	7.87809e-16	1.32430e-15	2.14284e-15	3.36905e-15	5.18630e-15
0.000100000	7.87809e-16	1.32430e-15	2.14284e-15	3.36905e-15	5.18630e-15
1.00000e-05	7.87809e-16	1.32430e-15	2.14284e-15	3.36905e-15	5.18630e-15
1.00000e-06	7.87809e-16	1.32430e-15	2.14284e-15	3.36905e-15	5.18630e-15
1.00000e-07	7.87809e-16	1.32430e-15	2.14284e-15	3.36905e-15	5.18630e-15
1.00000e-08	7.87809e-16	1.32430e-15	2.14284e-15	3.36905e-15	5.18630e-15
1.00000e-09	7.87809e-16	1.32430e-15	2.14284e-15	3.36905e-15	5.18630e-15

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	4.36579e-15	6.88161e-15	1.07387e-14	1.66354e-14	2.56308e-14
1.00000e+07	7.28066e-15	1.10147e-14	1.65390e-14	2.47117e-14	3.68056e-14
1.00000e+06	7.80208e-15	1.17201e-14	1.74858e-14	2.59757e-14	3.84866e-14
100000.	7.85837e-15	1.17957e-14	1.75865e-14	2.61093e-14	3.86632e-14
10000.0	7.86405e-15	1.18033e-14	1.75966e-14	2.61227e-14	3.86810e-14
1000.00	7.86462e-15	1.18041e-14	1.75977e-14	2.61241e-14	3.86827e-14
100.000	7.86467e-15	1.18041e-14	1.75978e-14	2.61242e-14	3.86829e-14
10.0000	7.86468e-15	1.18041e-14	1.75978e-14	2.61242e-14	3.86829e-14
1.00000	7.86468e-15	1.18041e-14	1.75978e-14	2.61242e-14	3.86829e-14
0.100000	7.86468e-15	1.18041e-14	1.75978e-14	2.61242e-14	3.86829e-14

0.0100000	7.86468e-15	1.18041e-14	1.75978e-14	2.61242e-14	3.86829e-14
0.00100000	7.86468e-15	1.18041e-14	1.75978e-14	2.61242e-14	3.86829e-14
0.000100000	7.86468e-15	1.18041e-14	1.75978e-14	2.61242e-14	3.86829e-14
1.00000e-05	7.86468e-15	1.18041e-14	1.75978e-14	2.61242e-14	3.86829e-14
1.00000e-06	7.86468e-15	1.18041e-14	1.75978e-14	2.61242e-14	3.86829e-14
1.00000e-07	7.86468e-15	1.18041e-14	1.75978e-14	2.61242e-14	3.86829e-14
1.00000e-08	7.86468e-15	1.18041e-14	1.75978e-14	2.61242e-14	3.86829e-14
1.00000e-09	7.86468e-15	1.18041e-14	1.75978e-14	2.61242e-14	3.86829e-14

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	3.93271e-14	6.01368e-14	9.16795e-14	1.39360e-13	2.11215e-13
1.00000e+07	5.47020e-14	8.11728e-14	1.20286e-13	1.77983e-13	2.62903e-13
1.00000e+06	5.69302e-14	8.41162e-14	1.24157e-13	1.83045e-13	2.69476e-13
100000.	5.71631e-14	8.44223e-14	1.24558e-13	1.83567e-13	2.70151e-13
10000.0	5.71865e-14	8.44531e-14	1.24598e-13	1.83620e-13	2.70219e-13
1000.00	5.71889e-14	8.44562e-14	1.24602e-13	1.83625e-13	2.70226e-13
100.000	5.71891e-14	8.44565e-14	1.24603e-13	1.83626e-13	2.70226e-13
10.0000	5.71891e-14	8.44565e-14	1.24603e-13	1.83626e-13	2.70226e-13
1.00000	5.71891e-14	8.44565e-14	1.24603e-13	1.83626e-13	2.70226e-13
0.100000	5.71891e-14	8.44565e-14	1.24603e-13	1.83626e-13	2.70226e-13
0.0100000	5.71891e-14	8.44565e-14	1.24603e-13	1.83626e-13	2.70226e-13
0.00100000	5.71891e-14	8.44565e-14	1.24603e-13	1.83626e-13	2.70226e-13
0.000100000	5.71891e-14	8.44565e-14	1.24603e-13	1.83626e-13	2.70226e-13
1.00000e-05	5.71891e-14	8.44565e-14	1.24603e-13	1.83626e-13	2.70226e-13
1.00000e-06	5.71891e-14	8.44565e-14	1.24603e-13	1.83626e-13	2.70226e-13
1.00000e-07	5.71891e-14	8.44565e-14	1.24603e-13	1.83626e-13	2.70226e-13
1.00000e-08	5.71891e-14	8.44565e-14	1.24603e-13	1.83626e-13	2.70226e-13
1.00000e-09	5.71891e-14	8.44565e-14	1.24603e-13	1.83626e-13	2.70226e-13

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	3.19127e-13	4.80590e-13	7.21209e-13	1.07825e-12	1.60555e-12
1.00000e+07	3.87552e-13	5.69916e-13	8.35731e-13	1.22157e-12	1.77900e-12
1.00000e+06	3.95996e-13	5.80617e-13	8.49043e-13	1.23771e-12	1.79786e-12
100000.	3.96860e-13	5.81708e-13	8.50395e-13	1.23934e-12	1.79976e-12
10000.0	3.96946e-13	5.81817e-13	8.50530e-13	1.23950e-12	1.79995e-12
1000.00	3.96955e-13	5.81828e-13	8.50544e-13	1.23952e-12	1.79997e-12
100.000	3.96956e-13	5.81829e-13	8.50545e-13	1.23952e-12	1.79997e-12
10.0000	3.96956e-13	5.81829e-13	8.50545e-13	1.23952e-12	1.79997e-12
1.00000	3.96956e-13	5.81829e-13	8.50545e-13	1.23952e-12	1.79997e-12
0.100000	3.96956e-13	5.81829e-13	8.50545e-13	1.23952e-12	1.79997e-12
0.0100000	3.96956e-13	5.81829e-13	8.50545e-13	1.23952e-12	1.79997e-12
0.00100000	3.96956e-13	5.81829e-13	8.50545e-13	1.23952e-12	1.79997e-12
0.000100000	3.96956e-13	5.81829e-13	8.50545e-13	1.23952e-12	1.79997e-12
1.00000e-05	3.96956e-13	5.81829e-13	8.50545e-13	1.23952e-12	1.79997e-12
1.00000e-06	3.96956e-13	5.81829e-13	8.50545e-13	1.23952e-12	1.79997e-12
1.00000e-07	3.96956e-13	5.81829e-13	8.50545e-13	1.23952e-12	1.79997e-12
1.00000e-08	3.96956e-13	5.81829e-13	8.50545e-13	1.23952e-12	1.79997e-12
1.00000e-09	3.96956e-13	5.81829e-13	8.50545e-13	1.23952e-12	1.79997e-12

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	2.38025e-12	3.51165e-12	5.15238e-12	1.28353e-11	1.08688e-11
1.00000e+07	2.58008e-12	3.72431e-12	5.34711e-12	8.62884e-12	1.08073e-11
1.00000e+06	2.60088e-12	3.74512e-12	5.36400e-12	8.25122e-12	1.07903e-11
100000.	2.60297e-12	3.74720e-12	5.36566e-12	8.21398e-12	1.07884e-11
10000.0	2.60318e-12	3.74739e-12	5.36582e-12	8.21025e-12	1.07882e-11
1000.00	2.60320e-12	3.74741e-12	5.36584e-12	8.20988e-12	1.07882e-11
100.000	2.60320e-12	3.74742e-12	5.36584e-12	8.20984e-12	1.07882e-11
10.0000	2.60320e-12	3.74742e-12	5.36584e-12	8.20984e-12	1.07882e-11
1.00000	2.60320e-12	3.74742e-12	5.36584e-12	8.20984e-12	1.07882e-11
0.100000	2.60320e-12	3.74742e-12	5.36584e-12	8.20984e-12	1.07882e-11
0.0100000	2.60320e-12	3.74742e-12	5.36584e-12	8.20984e-12	1.07882e-11
0.00100000	2.60320e-12	3.74742e-12	5.36584e-12	8.20984e-12	1.07882e-11
0.000100000	2.60320e-12	3.74742e-12	5.36584e-12	8.20984e-12	1.07882e-11
1.00000e-05	2.60320e-12	3.74742e-12	5.36584e-12	8.20984e-12	1.07882e-11
1.00000e-06	2.60320e-12	3.74742e-12	5.36584e-12	8.20984e-12	1.07882e-11
1.00000e-07	2.60320e-12	3.74742e-12	5.36584e-12	8.20984e-12	1.07882e-11
1.00000e-08	2.60320e-12	3.74742e-12	5.36584e-12	8.20984e-12	1.07882e-11
1.00000e-09	2.60320e-12	3.74742e-12	5.36584e-12	8.20984e-12	1.07882e-11

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	6.90116e-10	7.80279e-08	1.21067e-05	0.000237530	0.000658211
1.00000e+07	2.55189e-10	7.60657e-09	7.80222e-07	2.33597e-05	7.95124e-05
1.00000e+06	2.25486e-10	3.92877e-09	1.06456e-07	2.56395e-06	9.30756e-06
100000.	2.22643e-10	3.59351e-09	4.28057e-08	4.78675e-07	2.07710e-06
10000.0	2.22360e-10	3.56029e-09	3.65009e-08	2.70349e-07	1.34512e-06
1000.00	2.22331e-10	3.55696e-09	3.58721e-08	2.49579e-07	1.27220e-06

100.000	2.22329e-10	3.55663e-09	3.58093e-08	2.47504e-07	1.26494e-06
10.0000	2.22328e-10	3.55660e-09	3.58031e-08	2.47297e-07	1.26421e-06
1.00000	2.22328e-10	3.55660e-09	3.58024e-08	2.47276e-07	1.26414e-06
0.100000	2.22328e-10	3.55660e-09	3.58023e-08	2.47273e-07	1.26413e-06
0.0100000	2.22328e-10	3.55660e-09	3.58023e-08	2.47273e-07	1.26413e-06
0.00100000	2.22328e-10	3.55660e-09	3.58023e-08	2.47273e-07	1.26413e-06
0.000100000	2.22328e-10	3.55660e-09	3.58023e-08	2.47273e-07	1.26413e-06
1.00000e-05	2.22328e-10	3.55660e-09	3.58023e-08	2.47273e-07	1.26413e-06
1.00000e-06	2.22328e-10	3.55660e-09	3.58023e-08	2.47273e-07	1.26413e-06
1.00000e-07	2.22328e-10	3.55660e-09	3.58023e-08	2.47273e-07	1.26413e-06
1.00000e-08	2.22328e-10	3.55660e-09	3.58023e-08	2.47273e-07	1.26413e-06
1.00000e-09	2.22328e-10	3.55660e-09	3.58023e-08	2.47273e-07	1.26413e-06

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.000834548	0.000843143	0.000804582	0.000783855	0.000824568
1.00000e+07	0.000108115	0.000118811	0.000139292	0.000196793	0.000326276
1.00000e+06	1.57389e-05	2.73676e-05	5.69591e-05	0.000125720	0.000267318
100000.	6.19965e-06	1.79691e-05	4.85315e-05	0.000118462	0.000261305
10000.0	5.19964e-06	1.69547e-05	4.76032e-05	0.000117647	0.000260616
1000.00	5.09265e-06	1.68264e-05	4.74734e-05	0.000117531	0.000260520
100.000	5.08123e-06	1.68097e-05	4.74555e-05	0.000117515	0.000260508
10.0000	5.08007e-06	1.68080e-05	4.74537e-05	0.000117514	0.000260507
1.00000	5.07996e-06	1.68078e-05	4.74535e-05	0.000117514	0.000260506
0.100000	5.07995e-06	1.68078e-05	4.74535e-05	0.000117514	0.000260506
0.0100000	5.07995e-06	1.68078e-05	4.74535e-05	0.000117514	0.000260506
0.00100000	5.07995e-06	1.68078e-05	4.74535e-05	0.000117514	0.000260506
0.000100000	5.07995e-06	1.68078e-05	4.74535e-05	0.000117514	0.000260506
1.00000e-05	5.07995e-06	1.68078e-05	4.74535e-05	0.000117514	0.000260506
1.00000e-06	5.07995e-06	1.68078e-05	4.74535e-05	0.000117514	0.000260506
1.00000e-07	5.07995e-06	1.68078e-05	4.74535e-05	0.000117514	0.000260506
1.00000e-08	5.07995e-06	1.68078e-05	4.74535e-05	0.000117514	0.000260506
1.00000e-09	5.07995e-06	1.68078e-05	4.74535e-05	0.000117514	0.000260506

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.000970565	0.00126607	0.0330971	0.0320280	0.0368301
1.00000e+07	0.000574256	0.000990108	0.00679104	0.0118747	0.0218504
1.00000e+06	0.000528626	0.000959682	0.00385962	0.00965895	0.0202236
100000.	0.000523975	0.000956588	0.00354480	0.00941861	0.0200474
10000.0	0.000523428	0.000956200	0.00350277	0.00938895	0.0200273
1000.00	0.000523354	0.000956153	0.00349716	0.00938557	0.0200252
100.000	0.000523345	0.000956146	0.00349656	0.00938519	0.0200250
10.0000	0.000523345	0.000956146	0.00349650	0.00938519	0.0200250
1.00000	0.000523345	0.000956146	0.00349649	0.00938519	0.0200250
0.100000	0.000523345	0.000956146	0.00349649	0.00938519	0.0200250
0.0100000	0.000523345	0.000956146	0.00349649	0.00938519	0.0200250
0.00100000	0.000523345	0.000956146	0.00349649	0.00938519	0.0200250
0.000100000	0.000523345	0.000956146	0.00349649	0.00938519	0.0200250
1.00000e-05	0.000523345	0.000956146	0.00349649	0.00938519	0.0200250
1.00000e-06	0.000523345	0.000956146	0.00349649	0.00938519	0.0200250
1.00000e-07	0.000523345	0.000956146	0.00349649	0.00938519	0.0200250
1.00000e-08	0.000523345	0.000956146	0.00349649	0.00938519	0.0200250
1.00000e-09	0.000523345	0.000956146	0.00349649	0.00938519	0.0200250