

Supplementary Table S7. Kinetic parameters predicted for the essential isomerization and decomposition of n-heptane radicals at $P = 10$ atm.

Reactions	A	n	E
int1→int4	4.32E+11	-1.53	1.80E+04
int1→Pa1	1.33E+16	-1.16	2.64E+04
int2→int3	2.14E+11	-0.72	3.01E+03
int2→Pb1	1.37E+16	-1.22	2.81E+04
int2→Pb2	7.49E+13	-0.88	3.55E+04
int3→int1	1.83E+11	-0.76	2.96E+04
int3→int4	1.98E+14	-1	2.49E+04
int3→Pc1	7.56E+15	-0.9	2.67E+04
int4→int1	8.49E+11	-1.64	2.11E+04
int4→Pd1	9.71E+15	-1.25	2.97E+04