

J. Bugler, A. Rodriguez, O. Herbinet, F. Battin-Leclerc, C. Togbé, G. Dayma, P. Dagaut, H. J. Curran, An Experimental and Modelling Study of *n*-Pentane Oxidation in Two Jet-Stirred Reactors: The Importance of Pressure-Dependent Kinetics and New Reaction Pathways, Proc. Combust. Inst. 36 (2016)

C5H10OOH1-2 <=> C5H10O1-2+OH 4.667E+012 0.250 12840.
PLOG / 1.000E-002 3.900E+007 -0.19 1871. /
PLOG / 1.000E-001 3.120E+015 -2.19 5978. /
PLOG / 1.000E+000 3.240E+024 -4.48 11337. /
PLOG / 2.000E+000 7.600E+026 -5.06 12972. /
PLOG / 5.000E+000 1.800E+029 -5.59 14912. /
PLOG / 1.000E+001 1.520E+030 -5.73 16062. /
PLOG / 2.000E+001 1.320E+030 -5.57 16802. /
PLOG / 5.000E+001 2.460E+028 -4.89 17020. /
PLOG / 1.000E+002 1.150E+026 -4.09 16650. /

C5H10OOH1-3 <=> C5H10O1-3+OH 1.275E+005 1.830 14460.
PLOG / 1.000E-002 4.240E+040 -9.57 25269. /
PLOG / 1.000E-001 2.430E+026 -4.87 21713. /
PLOG / 1.000E+000 2.900E+012 -0.48 16944. /
PLOG / 2.000E+000 3.680E+010 0.11 16258. /
PLOG / 5.000E+000 1.710E+009 0.52 15773. /
PLOG / 1.000E+001 5.610E+008 0.68 15596. /
PLOG / 2.000E+001 3.150E+008 0.75 15504. /
PLOG / 5.000E+001 2.210E+008 0.80 15448. /
PLOG / 1.000E+002 1.960E+008 0.82 15429. /

C5H10OOH1-4 <=> C5H10O1-4+OH 4.728E+005 1.240 8130.
PLOG / 1.000E-002 1.470E+018 -3.06 10191. /
PLOG / 1.000E-001 2.800E+014 -1.59 10655. /
PLOG / 1.000E+000 5.970E+009 -0.07 9377. /
PLOG / 2.000E+000 2.060E+009 0.08 9236. /
PLOG / 5.000E+000 1.040E+009 0.18 9144. /
PLOG / 1.000E+001 8.200E+008 0.21 9112. /
PLOG / 2.000E+001 7.280E+008 0.23 9096. /
PLOG / 5.000E+001 6.770E+008 0.24 9086. /
PLOG / 1.000E+002 6.610E+008 0.24 9083. /

C5H10OOH1-5 <=> C5H10O1-5+OH	2.314E+004	1.310	8550.
PLOG / 1.000E-002	1.330E+012	-1.19	10872. /
PLOG / 1.000E-001	1.860E+008	0.06	9760. /
PLOG / 1.000E+000	4.680E+007	0.26	9574. /
PLOG / 2.000E+000	4.320E+007	0.27	9563. /
PLOG / 5.000E+000	4.110E+007	0.27	9556. /
PLOG / 1.000E+001	4.040E+007	0.28	9554. /
PLOG / 2.000E+001	4.010E+007	0.28	9553. /
PLOG / 5.000E+001	3.990E+007	0.28	9552. /
PLOG / 1.000E+002	3.980E+007	0.28	9552. /
C5H10OOH2-1 <=> C5H10O1-2+OH	2.567E+009	1.040	11340.
PLOG / 1.000E-002	2.800E+005	0.52	1289. /
PLOG / 1.000E-001	6.620E+015	-2.20	6879. /
PLOG / 1.000E+000	1.950E+025	-4.60	13023. /
PLOG / 2.000E+000	4.990E+026	-4.88	14402. /
PLOG / 5.000E+000	5.550E+026	-4.71	15465. /
PLOG / 1.000E+001	2.070E+025	-4.16	15596. /
PLOG / 2.000E+001	8.130E+022	-3.33	15213. /
PLOG / 5.000E+001	1.540E+019	-2.10	14271. /
PLOG / 1.000E+002	5.360E+016	-1.31	13545. /
C5H10OOH2-3 <=> C5H10O2-3anti+OH	4.663E+008	1.090	9850.
PLOG / 1.000E-002	7.380E-002	2.49	-1612. /
PLOG / 1.000E-001	2.870E+009	-0.29	4045. /
PLOG / 1.000E+000	2.110E+018	-2.51	9989. /
PLOG / 2.000E+000	7.990E+018	-2.55	11002. /
PLOG / 5.000E+000	3.740E+017	-1.98	11395. /
PLOG / 1.000E+001	2.230E+015	-1.21	11062. /
PLOG / 2.000E+001	5.530E+012	-0.35	10430. /
PLOG / 5.000E+001	5.710E+009	0.62	9572. /
PLOG / 1.000E+002	1.690E+008	1.11	9099. /
C5H10OOH2-3 <=> C5H10O2-3syn+OH	7.464E+008	0.700	9270.
PLOG / 1.000E-002	8.820E+002	1.33	904. /
PLOG / 1.000E-001	4.380E+012	-1.16	6812. /
PLOG / 1.000E+000	5.110E+013	-1.08	9522. /
PLOG / 2.000E+000	1.050E+012	-0.48	9319. /
PLOG / 5.000E+000	4.760E+009	0.30	8791. /
PLOG / 1.000E+001	2.170E+008	0.74	8430. /
PLOG / 2.000E+001	2.920E+007	1.02	8181. /
PLOG / 5.000E+001	7.120E+006	1.22	8001. /
PLOG / 1.000E+002	4.260E+006	1.29	7934. /

C5H10OOH2-4 <=> C5H10O2-4anti+OH 3.835E+006 1.260 14970.
PLOG / 1.000E-002 1.570E+032 -7.03 22485. /
PLOG / 1.000E-001 2.910E+016 -1.95 17872. /
PLOG / 1.000E+000 3.480E+006 1.17 14400. /
PLOG / 2.000E+000 3.330E+005 1.48 14031. /
PLOG / 5.000E+000 7.180E+004 1.69 13788. /
PLOG / 1.000E+001 4.200E+004 1.76 13704. /
PLOG / 2.000E+001 3.200E+004 1.80 13660. /
PLOG / 5.000E+001 2.710E+004 1.82 13634. /
PLOG / 1.000E+002 2.570E+004 1.83 13625. /

C5H10OOH2-4 <=> C5H10O2-4syn+OH 1.392E+006 1.490 15210.
PLOG / 1.000E-002 1.140E+036 -8.19 23953. /
PLOG / 1.000E-001 2.240E+020 -3.08 19618. /
PLOG / 1.000E+000 2.860E+007 0.97 15137. /
PLOG / 2.000E+000 7.110E+005 1.47 14555. /
PLOG / 5.000E+000 5.640E+004 1.82 14153. /
PLOG / 1.000E+001 2.270E+004 1.94 14008. /
PLOG / 2.000E+001 1.420E+004 2.00 13933. /
PLOG / 5.000E+001 1.070E+004 2.04 13887. /
PLOG / 1.000E+002 9.710E+003 2.06 13872. /

C5H10OOH2-5 <=> C5H10O1-4+OH 3.785E+005 1.280 10220.
PLOG / 1.000E-002 2.520E+020 -3.62 13849. /
PLOG / 1.000E-001 1.090E+012 -0.82 11988. /
PLOG / 1.000E+000 9.190E+007 0.48 10691. /
PLOG / 2.000E+000 4.390E+007 0.58 10585. /
PLOG / 5.000E+000 2.770E+007 0.64 10518. /
PLOG / 1.000E+001 2.370E+007 0.66 10496. /
PLOG / 2.000E+001 2.190E+007 0.67 10484. /
PLOG / 5.000E+001 2.090E+007 0.68 10477. /
PLOG / 1.000E+002 2.060E+007 0.68 10475. /

C5H10OOH3-1 <=> C5H10O1-3+OH 2.398E+006 1.520 17240.
PLOG / 1.000E-002 2.630E+042 -9.99 28572. /
PLOG / 1.000E-001 4.280E+025 -4.56 23726. /
PLOG / 1.000E+000 1.020E+012 -0.29 18930. /
PLOG / 2.000E+000 1.760E+010 0.26 18283. /
PLOG / 5.000E+000 1.040E+009 0.64 17830. /
PLOG / 1.000E+001 3.750E+008 0.78 17665. /
PLOG / 2.000E+001 2.210E+008 0.85 17580. /
PLOG / 5.000E+001 1.600E+008 0.90 17528. /
PLOG / 1.000E+002 1.430E+008 0.91 17510. /

C5H10OOH3-2 <=> C5H10O2-3anti+OH 2.814E+009 0.350 9860.
PLOG / 1.000E-002 7.370E+008 -0.39 4687. /
PLOG / 1.000E-001 3.620E+014 -1.67 9295. /
PLOG / 1.000E+000 5.600E+010 -0.22 9449. /
PLOG / 2.000E+000 2.080E+009 0.25 9104. /
PLOG / 5.000E+000 1.180E+008 0.66 8769. /
PLOG / 1.000E+001 3.610E+007 0.83 8623. /
PLOG / 2.000E+001 1.880E+007 0.92 8542. /
PLOG / 5.000E+001 1.250E+007 0.98 8490. /
PLOG / 1.000E+002 1.080E+007 1.00 8472. /

C5H10OOH3-2 <=> C5H10O2-3syn+OH 4.195E+009 0.710 10050.
PLOG / 1.000E-002 1.570E+000 2.10 -841. /
PLOG / 1.000E-001 3.250E+010 -0.59 4837. /
PLOG / 1.000E+000 3.930E+017 -2.28 10081. /
PLOG / 2.000E+000 3.220E+017 -2.12 10773. /
PLOG / 5.000E+000 4.630E+015 -1.42 10845. /
PLOG / 1.000E+001 3.340E+013 -0.69 10443. /
PLOG / 2.000E+001 2.470E+011 0.01 9905. /
PLOG / 5.000E+001 1.910E+009 0.69 9301. /
PLOG / 1.000E+002 2.070E+008 1.00 9009. /