Cyclohexene, 3-methyl-6-(1-methylethylidene)-

Other names:	p-Mentha-2,4(8)-diene
	Isoterpinolene
	3-Isopropylidene-6-methyl-cyclohexene
	3-Methyl-6-(1-methylethylidene)-cyclohexene
	p-2,4(8)-Menthadiene
	para-Mentha-2,4(8)-diene
	2,4(8)-p-Menthadiene
Inchi:	InChI=1S/C10H16/c1-8(2)10-6-4-9(3)5-7-10/h4,6,9H,5,7H2,1-3H3
InchiKey:	CIPXOBMYVWRNLL-UHFFFAOYSA-N
Formula:	C10H16
SMILES:	CC(C)=C1C=CC(C)CC1
Mol. weight [g/mol]:	136.23
CAS:	586-63-0

Physical Properties

Property code	Value	Unit	Source
gf	124.64	kJ/mol	Joback Method
hf	-71.39	kJ/mol	Joback Method
hfus	13.73	kJ/mol	Joback Method
hvap	39.44	kJ/mol	Joback Method
log10ws	-3.37		Crippen Method
logp	3.309		Crippen Method
mcvol	132.300	ml/mol	McGowan Method
pc	2761.36	kPa	Joback Method
rinpol	1077.00		NIST Webbook
rinpol	1088.00		NIST Webbook
rinpol	1084.00		NIST Webbook
rinpol	1082.00		NIST Webbook
rinpol	1090.00		NIST Webbook
rinpol	1086.00		NIST Webbook
rinpol	1086.00		NIST Webbook
rinpol	1086.00		NIST Webbook
rinpol	1081.00		NIST Webbook
rinpol	1081.00		NIST Webbook
rinpol	1088.00		NIST Webbook
rinpol	1068.00		NIST Webbook
rinpol	1088.00		NIST Webbook

rinpol	1087.30	NIST Webbook
rinpol	1085.00	NIST Webbook
rinpol	1081.00	NIST Webbook
rinpol	1108.00	NIST Webbook
rinpol	1087.00	NIST Webbook
rinpol	1085.00	NIST Webbook
rinpol	1088.00	NIST Webbook
rinpol	1091.00	NIST Webbook
rinpol	1082.00	NIST Webbook
rinpol	1081.00	NIST Webbook
rinpol	1086.00	NIST Webbook
rinpol	1090.00	NIST Webbook
rinpol	1079.00	NIST Webbook
rinpol	1055.00	NIST Webbook
rinpol	1089.00	NIST Webbook
rinpol	1073.00	NIST Webbook
rinpol	1083.00	NIST Webbook
rinpol	1083.00	NIST Webbook
rinpol	1080.00	NIST Webbook
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rinpol	1068.00	NIST Webbook
rinpol	1085.00	NIST Webbook
rinpol	1067.00	NIST Webbook
rinpol	1106.00	NIST Webbook
rinpol	1064.00	NIST Webbook
rinpol	1088.00	NIST Webbook
rinpol	1090.00	NIST Webbook
rinpol	1086.00	NIST Webbook
rinpol	1087.30	NIST Webbook
rinpol	1081.00	NIST Webbook
rinpol	1106.00	NIST Webbook
rinpol	1086.00	NIST Webbook

rinpol	1068.00		NIST Webbook
ripol	1286.00		NIST Webbook
ripol	1286.00		NIST Webbook
ripol	1286.00		NIST Webbook
ripol	1270.00		NIST Webbook
ripol	1286.00		NIST Webbook
ripol	1286.00		NIST Webbook
ripol	1270.00		NIST Webbook
ripol	1296.00		NIST Webbook
ripol	1331.00		NIST Webbook
ripol	1272.00		NIST Webbook
tb	453.43	K	Joback Method
tc	663.74	K	Joback Method
tf	207.00	K	Joback Method
vc	0.498	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	271.27	J/mol×K	453.43	Joback Method
cpg	288.74	J/mol×K	488.48	Joback Method
cpg	305.28	J/mol×K	523.53	Joback Method
cpg	320.93	J/mol×K	558.59	Joback Method
cpg	335.71	J/mol×K	593.64	Joback Method
cpg	349.66	J/mol×K	628.69	Joback Method
cpg	362.82	J/mol×K	663.74	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C586630&Units=SI

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume