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

Other names:	p-Menth-2-ene
	2-Menthene
	3-Isopropyl-6-methylcyclohexene
	3-Isopropyl-6-methyl-1-cyclohexene
	«DELTA»
Inchi:	InChI=1S/C10H18/c1-8(2)10-6-4-9(3)5-7-10/h4,6,8-10H,5,7H2,1-3H3
InchiKey:	WHNGPXQYYRWQAS-UHFFFAOYSA-N
Formula:	C10H18
SMILES:	CC1C=CC(C(C)C)CC1
Mol. weight [g/mol]:	138.25
CAS:	5256-65-5

Physical Properties

Property code	Value	Unit	Source
gf	77.58	kJ/mol	Joback Method
hf	-163.25	kJ/mol	Joback Method
hfus	12.26	kJ/mol	Joback Method
hvap	37.88	kJ/mol	Joback Method
log10ws	-3.03		Crippen Method
logp	3.245		Crippen Method
mcvol	136.600	ml/mol	McGowan Method
pc	2597.78	kPa	Joback Method
rinpol	1004.00		NIST Webbook
rinpol	1004.00		NIST Webbook
rinpol	982.00		NIST Webbook
rinpol	1009.00		NIST Webbook
rinpol	985.00		NIST Webbook
rinpol	982.00		NIST Webbook
rinpol	985.00		NIST Webbook
ripol	1091.00		NIST Webbook
tb	441.80	K	Joback Method
tc	644.93	K	Joback Method
tf	191.36	K	Joback Method
vc	0.507	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	285.08	J/mol×K	441.80	Joback Method
cpg	304.25	J/mol×K	475.65	Joback Method
cpg	322.48	J/mol×K	509.51	Joback Method
cpg	339.82	J/mol×K	543.36	Joback Method
cpg	356.27	J/mol×K	577.22	Joback Method
cpg	371.86	J/mol×K	611.07	Joback Method
cpg	386.61	J/mol×K	644.93	Joback Method
dvisc	0.0058238	Pa×s	191.36	Joback Method
dvisc	0.0021384	Pa×s	233.10	Joback Method
dvisc	0.0010645	Pa×s	274.84	Joback Method
dvisc	0.0006369	Pa×s	316.58	Joback Method
dvisc	0.0004295	Pa×s	358.32	Joback Method
dvisc	0.0003145	Pa×s	400.06	Joback Method
dvisc	0.0002442	Pa×s	441.80	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C5256655&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

Legend

cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity
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