Cyclohexanone, 2-methylene-5-(1-methylethyl)-

Other names: p-Menth-1(7)-en-2-one
5-Isopropyl-2-methylenecyclohexanone
1(7)-p-Menthene-2-one
2-Methylene-5-(1-methylethyl)cyclohexanone

Inchi: InChI=1S/C10H16O/c1-7(2)9-5-4-8(3)10(11)6-9/h7,9H,3-6H2,1-2H3

InchiKey: QIHBCMQXRORFNY-UHFFFAOYSA-N

Formula: C10H16O

SMILES: C=C1CCC(C(C)C)CC1=O

Mol. weight [g/mol]: 152.23

CAS: 15297-07-1

Physical Properties

Property code	Value	Unit	Source
gf	-14.18	kJ/mol	Joback Method
hf	-254.15	kJ/mol	Joback Method
hfus	8.32	kJ/mol	Joback Method
hvap	42.30	kJ/mol	Joback Method
log10ws	-2.55		Crippen Method
logp	2.568		Crippen Method
mcvol	138.170	ml/mol	McGowan Method
pc	2738.28	kPa	Joback Method
tb	514.29	K	Joback Method
tc	734.65	K	Joback Method
tf	276.74	K	Joback Method
vc	0.513	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	320.31	J/mol×K	514.29	Joback Method
cpg	338.28	J/mol×K	551.02	Joback Method
cpg	355.40	J/mol×K	587.74	Joback Method
cpg	371.69	J/mol×K	624.47	Joback Method
cpg	387.12	J/mol×K	661.20	Joback Method

cpg	401.70	J/mol×K	697.92	Joback Method
cpg	415.41	J/mol×K	734.65	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C15297071&Units=SI

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume