Cyclohexanone, 5-methyl-2-(1-methylethylidene)-

Other names: p-Menth-4(8)-en-3-one
(.+/-.)-Pulegone
2-Isopropylidene-5-methylcyclohexanone
4(8)-p-Menthen-3-one
Pulegone
5-Methyl-2-(1-methylethylidene)cyclohexanone

Inchi: InChI=1S/C10H16O/c1-7(2)9-5-4-8(3)6-10(9)11/h8H,4-6H2,1-3H3

InchiKey: NZGWDASTMWDZIW-UHFFFAOYSA-N

Formula: C10H16O

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

Mol. weight [g/mol]: 152.23

CAS: 15932-80-6

Physical Properties

Property code	Value	Unit	Source
gf	-27.91	kJ/mol	Joback Method
hf	-266.87	kJ/mol	Joback Method
hfus	12.01	kJ/mol	Joback Method
hvap	43.40	kJ/mol	Joback Method
log10ws	-2.80		Crippen Method
logp	2.712		Crippen Method
mcvol	138.170	ml/mol	McGowan Method
pc	2758.46	kPa	Joback Method
tb	522.09	K	Joback Method
tc	747.18	K	Joback Method
tf	274.46	K	Joback Method
vc	0.519	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	321.00	J/mol×K	522.09	Joback Method
cpg	339.06	J/mol×K	559.61	Joback Method
cpg	356.24	J/mol×K	597.12	Joback Method

cpg	372.52	J/mol×K	634.64	Joback Method
cpg	387.93	J/mol×K	672.15	Joback Method
cpg	402.44	J/mol×K	709.67	Joback Method
cpg	416.08	J/mol×K	747.18	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C15932806&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume