(-)-Carvone

Other names:	2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (R)- p-Mentha-6,8-dien-2-one, (R)-(-)- (-)-(R)-Carvone (-)-p-Mentha-6,8-dien-2-one (R)-(-)-Carvone L(-)-Carvone Levo-carvone l-6,8(9)-p-Menthadien-2-one l-1-Methyl-4-isopropenyl-6-cyclohexen-2-one (4R)-(-)-Carvone 5-Isopropenyl-2-methyl-2-cyclohexen-1-one, (R)- (R)-Carvone 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-, (5R)- L-Carvone l-p-mentha-1(6),8-dien-2-one Carvone
Inchi:	InChI=1S/C10H14O/c1-7(2)9-5-4-8(3)10(11)6-9/h4,9H,1,5-6H2,2-3H3/t9-/m0/s1
InchiKey:	ULDHMXUKGWMISQ-VIFPVBQESA-N
Formula:	C10H14O
SMILES:	C=C(C)C1CC=C(C)C(=O)C1
Mol. weight [g/mol]:	150.22
CAS:	6485-40-1

Physical Properties

Property code	Value	Unit	Source
gf	34.80	kJ/mol	Joback Method
hf	-171.16	kJ/mol	Joback Method
hfus	11.24	kJ/mol	Joback Method
hvap	42.89	kJ/mol	Joback Method
ie	9.77	eV	NIST Webbook
log10ws	-2.65		Crippen Method
logp	2.488		Crippen Method
mcvol	133.870	ml/mol	McGowan Method
pc	2859.68	kPa	Joback Method
tb	501.70	K	NIST Webbook
tb	504.20	K	NIST Webbook
tc	742.23	K	Joback Method

tf	275.62	K	Joback Method
vc	0.503	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	302.34	J/mol×K	516.27	Joback Method
cpg	319.31	J/mol×K	553.93	Joback Method
cpg	335.43	J/mol×K	591.59	Joback Method
cpg	350.72	J/mol×K	629.25	Joback Method
cpg	365.16	J/mol×K	666.91	Joback Method
cpg	378.76	J/mol×K	704.57	Joback Method
cpg	391.51	J/mol×K	742.23	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C6485401&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
ie: Ionization energy
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