

(1R,4S)-(-)-menthone

Inchi:	InChI=1S/C11H22O/c1-5-7-8-10(9(3)4)11(12)6-2/h9-10H,5-8H2,1-4H3/t10-/m1/s1
InchiKey:	SKCLEFRJISVUAH-SNVBAGLBSA-N
Formula:	C11H22O
SMILES:	CCCCC(C(=O)CC)C(C)C
Mol. weight [g/mol]:	170.29

Physical Properties

Property code	Value	Unit	Source
gf	-92.06	kJ/mol	Joback Method
hf	-393.51	kJ/mol	Joback Method
hfus	18.80	kJ/mol	Joback Method
hvap	46.05	kJ/mol	Joback Method
log10ws	-3.22		Crippen Method
logp	3.428		Crippen Method
mcvol	167.420	ml/mol	McGowan Method
pc	2075.54	kPa	Joback Method
rinpol	1146.00		NIST Webbook
rinpol	1146.00		NIST Webbook
ripol	1461.00		NIST Webbook
tb	504.07	K	Joback Method
tc	682.49	K	Joback Method
tf	233.66	K	Joback Method
vc	0.645	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	388.60	J/mol×K	504.07	Joback Method
cpg	461.88	J/mol×K	652.75	Joback Method
cpg	448.52	J/mol×K	623.02	Joback Method
cpg	434.53	J/mol×K	593.28	Joback Method
cpg	419.89	J/mol×K	563.54	Joback Method
cpg	404.59	J/mol×K	533.81	Joback Method
cpg	474.62	J/mol×K	682.49	Joback Method

dvisc	0.0002241	Paxs	504.07	Joback Method
dvisc	0.0003102	Paxs	459.00	Joback Method
dvisc	0.0004607	Paxs	413.93	Joback Method
dvisc	0.0007538	Paxs	368.87	Joback Method
dvisc	0.0014145	Paxs	323.80	Joback Method
dvisc	0.0032535	Paxs	278.73	Joback Method
dvisc	0.0103191	Paxs	233.66	Joback Method

Sources

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=R283835&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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
mvol:	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

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