

1-Hydroxy heptadecanone-2

Inchi:	InChI=1S/C17H34O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-17(19)16-18/h18H,2-16H2,1
InchiKey:	IXPKKBPRBYPTMW-UHFFFAOYSA-N
Formula:	C17H34O2
SMILES:	CCCCCCCCCCCCCCCC(=O)CO
Mol. weight [g/mol]:	270.45
CAS:	41265-63-8

Physical Properties

Property code	Value	Unit	Source
gf	-173.48	kJ/mol	Joback Method
hf	-659.02	kJ/mol	Joback Method
hfus	45.47	kJ/mol	Joback Method
hvap	76.86	kJ/mol	Joback Method
log10ws	-5.48		Crippen Method
logp	5.029		Crippen Method
mcvol	257.830	ml/mol	McGowan Method
pc	1376.84	kPa	Joback Method
tb	734.41	K	Joback Method
tc	905.00	K	Joback Method
tf	392.10	K	Joback Method
vc	1.012	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	777.09	J/mol×K	734.41	Joback Method
cpg	793.61	J/mol×K	762.84	Joback Method
cpg	809.36	J/mol×K	791.27	Joback Method
cpg	824.37	J/mol×K	819.70	Joback Method
cpg	838.67	J/mol×K	848.13	Joback Method
cpg	852.28	J/mol×K	876.56	Joback Method
cpg	865.23	J/mol×K	905.00	Joback Method
dvisc	0.0029520	Pa×s	392.10	Joback Method
dvisc	0.0008408	Pa×s	449.15	Joback Method

dvisc	0.0003178	Pa×s	506.20	Joback Method
dvisc	0.0001463	Pa×s	563.25	Joback Method
dvisc	0.0000777	Pa×s	620.31	Joback Method
dvisc	0.0000459	Pa×s	677.36	Joback Method
dvisc	0.0000294	Pa×s	734.41	Joback Method

Sources

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=C41265638&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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

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