

(R)-(-)-(Z)-14-Methyl-8-hexadecen-1-ol

Other names:	14-methyl-(Z)-8-hexadecen-1-ol
Inchi:	InChI=1S/C17H34O/c1-3-17(2)15-13-11-9-7-5-4-6-8-10-12-14-16-18/h5,7,17-18H,3-4,6,8
InchiKey:	QRFJDYPDABYWFFH-ALCCZGGFSA-N
Formula:	C17H34O
SMILES:	CCC(C)CCCC=CCCCCCCCO
Mol. weight [g/mol]:	254.45
CAS:	30689-78-2

Physical Properties

Property code	Value	Unit	Source
gf	33.22	kJ/mol	Joback Method
hf	-434.50	kJ/mol	Joback Method
hfus	40.55	kJ/mol	Joback Method
hvap	69.69	kJ/mol	Joback Method
log10ws	-5.81		Crippen Method
logp	5.482		Crippen Method
mcvol	251.960	ml/mol	McGowan Method
pc	1373.78	kPa	Joback Method
rinpol	1476.00		NIST Webbook
tb	684.26	K	Joback Method
tc	850.60	K	Joback Method
tf	322.09	K	Joback Method
vc	0.981	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	728.12	J/molxK	684.26	Joback Method
cpg	745.29	J/molxK	711.98	Joback Method
cpg	761.70	J/molxK	739.71	Joback Method
cpg	777.39	J/molxK	767.43	Joback Method
cpg	792.40	J/molxK	795.16	Joback Method
cpg	806.75	J/molxK	822.88	Joback Method
cpg	820.47	J/molxK	850.60	Joback Method

dvisc	0.0108159	Paxs	322.09	Joback Method
dvisc	0.0018130	Paxs	382.45	Joback Method
dvisc	0.0004946	Paxs	442.81	Joback Method
dvisc	0.0001842	Paxs	503.18	Joback Method
dvisc	0.0000848	Paxs	563.54	Joback Method
dvisc	0.0000454	Paxs	623.90	Joback Method
dvisc	0.0000271	Paxs	684.26	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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=C30689782&Units=SI

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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