

E-8-Methyl-9-tetradecen-1-ol acetate

Inchi:	InChI=1S/C17H32O2/c1-4-5-6-10-13-16(2)14-11-8-7-9-12-15-19-17(3)18/h10,13,16H,4-9
InchiKey:	XAIYESIBSJKPNQ-JLHYYAGUSA-N
Formula:	C17H32O2
SMILES:	CCCCC=CC(C)CCCCCCCOC(C)=O
Mol. weight [g/mol]:	268.43

Physical Properties

Property code	Value	Unit	Source
gf	-63.88	kJ/mol	Joback Method
hf	-527.07	kJ/mol	Joback Method
hfus	39.25	kJ/mol	Joback Method
hvap	62.16	kJ/mol	Joback Method
log10ws	-5.41		Crippen Method
logp	5.273		Crippen Method
mvol	253.530	ml/mol	McGowan Method
pc	1328.10	kPa	Joback Method
tb	668.37	K	Joback Method
tc	842.81	K	Joback Method
tf	333.43	K	Joback Method
vc	0.986	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	711.36	J/mol×K	668.37	Joback Method
cpg	729.53	J/mol×K	697.44	Joback Method
cpg	746.87	J/mol×K	726.52	Joback Method
cpg	763.40	J/mol×K	755.59	Joback Method
cpg	779.14	J/mol×K	784.66	Joback Method
cpg	794.12	J/mol×K	813.73	Joback Method
cpg	808.37	J/mol×K	842.81	Joback Method
dvisc	0.0027098	Paxs	333.43	Joback Method
dvisc	0.0010105	Paxs	389.25	Joback Method
dvisc	0.0004826	Paxs	445.08	Joback Method

dvisc	0.0002718	Paxs	500.90	Joback Method
dvisc	0.0001717	Paxs	556.72	Joback Method
dvisc	0.0001180	Paxs	612.55	Joback Method
dvisc	0.0000863	Paxs	668.37	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=U130814&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307i

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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