Z-3-Tetradecen-1-ol acetate

Other names: Z-3-tetradecenyl acetate
Inchi: InChI=1S/C16H30O2/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-18-16(2)17/h12-13H,3-11,14-1
InchiKey: YUOMITSDDKQODR-SEYXRHQNSA-N
Formula: C16H30O2
SMILES: CCCCCCCCCCC=CCCOC(C)=O
Mol. weight [g/mol]: 254.41

Physical Properties

Property code	Value	Unit	Source
gf	-69.86	kJ/mol	Joback Method
hf	-501.15	kJ/mol	Joback Method
hfus	40.18	kJ/mol	Joback Method
hvap	60.32	kJ/mol	Joback Method
log10ws	-5.24		Crippen Method
logp	5.027		Crippen Method
mcvol	239.440	ml/mol	McGowan Method
pc	1417.57	kPa	Joback Method
rinpol	1791.00		NIST Webbook
rinpol	1791.00		NIST Webbook
ripol	2101.00		NIST Webbook
tb	645.93	K	Joback Method
tc	818.34	K	Joback Method
tf	337.16	K	Joback Method
vc	0.935	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	655.12	J/mol×K	645.93	Joback Method
cpg	734.94	J/mol×K	789.61	Joback Method
cpg	720.44	J/mol×K	760.87	Joback Method
cpg	705.23	J/mol×K	732.14	Joback Method
cpg	689.29	J/mol×K	703.40	Joback Method
cpg	672.59	J/mol×K	674.67	Joback Method

cpg	748.76	J/mol×K	818.34	Joback Method
dvisc	0.0001048	Pa×s	645.93	Joback Method
dvisc	0.0001400	Pa×s	594.47	Joback Method
dvisc	0.0001976	Pa×s	543.01	Joback Method
dvisc	0.0002997	Pa×s	491.55	Joback Method
dvisc	0.0005012	Pa×s	440.08	Joback Method
dvisc	0.0009605	Pa×s	388.62	Joback Method
dvisc	0.0022449	Pa×s	337.16	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U130818&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume