

5-Tetradecen-1-ol, acetate, (Z)-

Other names:	Z-5-Tetradecen-1-yl acetate (5Z)-5-Tetradecenyl acetate Z-5-Tetradecenyl acetate (Z)-tetradec-5-enyl acetate
Inchi:	InChI=1S/C16H30O2/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-18-16(2)17/h10-11H,3-9,12-15
InchiKey:	IAGBQBDKOCVGCC-KHPPLWFESA-N
Formula:	C16H30O2
SMILES:	<chem>CCCCCCCC=CCCCCOC(C)=O</chem>
Mol. weight [g/mol]:	254.41
CAS:	35153-13-0

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	88.30	kJ/mol	NIST Webbook
log10ws	-5.24		Crippen Method
logp	5.027		Crippen Method
mcvol	239.440	ml/mol	McGowan Method
pc	1417.57	kPa	Joback Method
rinpol	1790.00		NIST Webbook
rinpol	1790.00		NIST Webbook
ripol	2103.00		NIST Webbook
ripol	2103.00		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/molxK	645.93	Joback Method

cpg	672.59	J/mol×K	674.67	Joback Method
cpg	689.29	J/mol×K	703.40	Joback Method
cpg	705.23	J/mol×K	732.14	Joback Method
cpg	720.44	J/mol×K	760.87	Joback Method
cpg	734.94	J/mol×K	789.61	Joback Method
cpg	748.76	J/mol×K	818.34	Joback Method
dvisc	0.0022449	Paxs	337.16	Joback Method
dvisc	0.0009605	Paxs	388.62	Joback Method
dvisc	0.0005012	Paxs	440.08	Joback Method
dvisc	0.0002997	Paxs	491.55	Joback Method
dvisc	0.0001976	Paxs	543.01	Joback Method
dvisc	0.0001400	Paxs	594.47	Joback Method
dvisc	0.0001048	Paxs	645.93	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C35153130&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

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