

1-Tetradecanol, 8-chloro, acetate

Other names:	8-Chlorotetradecyl acetate
Inchi:	InChI=1S/C16H31ClO2/c1-3-4-5-9-12-16(17)13-10-7-6-8-11-14-19-15(2)18/h16H,3-14H2
InchiKey:	LWUUYCUASZTAGL-UHFFFAOYSA-N
Formula:	C16H31ClO2
SMILES:	CCCCCCC(Cl)CCCCCCCOC(C)=O
Mol. weight [g/mol]:	290.87

Physical Properties

Property code	Value	Unit	Source
gf	-164.45	kJ/mol	Joback Method
hf	-639.39	kJ/mol	Joback Method
hfus	40.66	kJ/mol	Joback Method
hvap	64.36	kJ/mol	Joback Method
log10ws	-5.65		Crippen Method
logp	5.468		Crippen Method
mvol	255.980	ml/mol	McGowan Method
pc	1334.91	kPa	Joback Method
ripol	1991.00		NIST Webbook
ripol	1996.00		NIST Webbook
ripol	1992.00		NIST Webbook
ripol	2463.00		NIST Webbook
ripol	2485.00		NIST Webbook
ripol	2500.00		NIST Webbook
ripol	2463.00		NIST Webbook
ripol	2476.00		NIST Webbook
tb	678.76	K	Joback Method
tc	853.20	K	Joback Method
tf	357.16	K	Joback Method
vc	0.999	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	711.02	J/mol×K	678.76	Joback Method

cpg	789.95	J/molxK	824.12	Joback Method
cpg	775.70	J/molxK	795.05	Joback Method
cpg	760.71	J/molxK	765.98	Joback Method
cpg	744.94	J/molxK	736.91	Joback Method
cpg	728.39	J/molxK	707.83	Joback Method
cpg	803.46	J/molxK	853.20	Joback Method
dvisc	0.0001020	Paxs	678.76	Joback Method
dvisc	0.0001380	Paxs	625.16	Joback Method
dvisc	0.0001977	Paxs	571.56	Joback Method
dvisc	0.0003050	Paxs	517.96	Joback Method
dvisc	0.0005200	Paxs	464.36	Joback Method
dvisc	0.0010191	Paxs	410.76	Joback Method
dvisc	0.0024442	Paxs	357.16	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R33747&Units=SI
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

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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