

3-tetradecenol, E

Other names:	3-Tetradecen-1-ol, (E)- (E)3-Tetradecen-1-ol (E)-tetradec-3-enol
Inchi:	InChI=1S/C14H28O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15/h11-12,15H,2-10,13-14H2,1H
InchiKey:	DQELOVNSWGCVQZ-VAWYXSNFSA-N
Formula:	C14H28O
SMILES:	CCCCCCCCCCC=CCCO
Mol. weight [g/mol]:	212.37
CAS:	68900-86-7

Physical Properties

Property code	Value	Unit	Source
gf	10.40	kJ/mol	Joback Method
hf	-367.30	kJ/mol	Joback Method
hfus	36.31	kJ/mol	Joback Method
hvap	99.70	kJ/mol	NIST Webbook
log10ws	-4.80		Crippen Method
logp	4.456		Crippen Method
mcvol	209.690	ml/mol	McGowan Method
pc	1710.36	kPa	Joback Method
rinpol	1663.00		NIST Webbook
rinpol	1663.00		NIST Webbook
ripol	2201.00		NIST Webbook
ripol	2201.00		NIST Webbook
tb	616.06	K	Joback Method
tc	778.82	K	Joback Method
tf	303.28	K	Joback Method
vc	0.819	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	562.60	J/molxK	616.06	Joback Method
cpg	578.00	J/molxK	643.19	Joback Method

cpg	592.76	J/molxK	670.31	Joback Method
cpg	606.89	J/molxK	697.44	Joback Method
cpg	620.41	J/molxK	724.57	Joback Method
cpg	633.37	J/molxK	751.70	Joback Method
cpg	645.78	J/molxK	778.82	Joback Method
dvisc	0.0131572	Paxs	303.28	Joback Method
dvisc	0.0026357	Paxs	355.41	Joback Method
dvisc	0.0007966	Paxs	407.54	Joback Method
dvisc	0.0003158	Paxs	459.67	Joback Method
dvisc	0.0001512	Paxs	511.80	Joback Method
dvisc	0.0000829	Paxs	563.93	Joback Method
dvisc	0.0000504	Paxs	616.06	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=C68900867&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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