Ethanol, 2-(tetradecyloxy)-

Other names:	Myristyl monoethoxylate
	2-Tetradecyloxyethanol
	Ethylene glycol monotetradecyl ether
Inchi:	InChI=1S/C16H34O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-15-18-16-14-17/h17H,2-16H2,1H3
InchiKey:	QHERURXKGFABNZ-UHFFFAOYSA-N
Formula:	C16H34O2
SMILES:	CCCCCCCCCCCCCCOCCO
Mol. weight [g/mol]:	258.44
CAS:	2136-70-1

Physical Properties

Property code	Value	Unit	Source
gf	-157.98	kJ/mol	Joback Method
hf	-658.02	kJ/mol	Joback Method
hfus	42.47	kJ/mol	Joback Method
hvap	70.30	kJ/mol	Joback Method
log10ws	-4.87		Crippen Method
logp	4.696		Crippen Method
mcvol	248.040	ml/mol	McGowan Method
pc	1393.33	kPa	Joback Method
tb	680.08	K	Joback Method
tc	841.71	K	Joback Method
tf	353.13	K	Joback Method
vc	0.969	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	723.53	J/mol×K	680.08	Joback Method
cpg	800.99	J/mol×K	814.78	Joback Method
cpg	786.83	J/mol×K	787.84	Joback Method
cpg	772.02	J/mol×K	760.90	Joback Method
cpg	756.54	J/mol×K	733.96	Joback Method
cpg	740.38	J/mol×K	707.02	Joback Method

cpg	814.51	J/mol×K	841.71	Joback Method
dvisc	0.0000300	Pa×s	680.08	Joback Method
dvisc	0.0000479	Pa×s	625.59	Joback Method
dvisc	0.0000837	Pa×s	571.10	Joback Method
dvisc	0.0001646	Pa×s	516.61	Joback Method
dvisc	0.0003794	Pa×s	462.11	Joback Method
dvisc	0.0010932	Pa×s	407.62	Joback Method
dvisc	0.0043674	Pa×s	353.13	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=C2136701&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume