

2-(2-DODECYLOXYETHOXY)ETHANOL

Other names:	2-[2-(dodecyloxy)ethoxy]ethanol Akyporox RLM 22 Ethanol, 2-[2-(dodecyloxy)ethoxy]- Laureth-2
Inchi:	InChI=1S/C16H34O3/c1-2-3-4-5-6-7-8-9-10-11-13-18-15-16-19-14-12-17/h17H,2-16H2,1
InchiKey:	AZLWQVJVINEILY-UHFFFAOYSA-N
Formula:	C16H34O3
SMILES:	CCCCCCCCCCCCOCCOCCO
Mol. weight [g/mol]:	274.44

Physical Properties

Property code	Value	Unit	Source
af	1.0542		Cheméo Relay (1.0)
gf	-262.98	kJ/mol	Joback Method
hf	-781.18	kJ/mol	Cheméo Relay (1.0)
hfus	43.66	kJ/mol	Joback Method
hvap	102.82	kJ/mol	Cheméo Relay (1.0)
ie	9.86	eV	Cheméo Relay (1.0)
log10ws	-4.30		Cheméo Relay (1.0)
logp	3.933		Crippen Method
mcvol	253.910	ml/mol	McGowan Method
pc	1375.82	kPa	Joback Method
tb	610.06	K	Cheméo Relay (1.0)
tc	780.74	K	Cheméo Relay (1.0)
tf	290.52	K	Cheméo Relay (1.0)
vc	0.984	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	831.45	J/mol×K	839.07	Joback Method
cpg	844.77	J/mol×K	866.38	Joback Method
cpg	771.30	J/mol×K	729.81	Joback Method
cpg	787.39	J/mol×K	757.13	Joback Method

cpg	802.77	J/mol×K	784.44	Joback Method
cpg	817.46	J/mol×K	811.75	Joback Method
cpg	754.49	J/mol×K	702.50	Joback Method
dvisc	0.0002447	Pa×s	484.41	Joback Method
dvisc	0.0006586	Pa×s	429.88	Joback Method
dvisc	0.0023629	Pa×s	375.36	Joback Method
dvisc	0.0001111	Pa×s	538.93	Joback Method
dvisc	0.0000583	Pa×s	593.45	Joback Method
dvisc	0.0000341	Pa×s	647.98	Joback Method
dvisc	0.0000217	Pa×s	702.50	Joback Method
hvapt	82.10	kJ/mol	468.50	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3055934&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

af:	Acentric Factor
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
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
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

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