Ethanol, 2,2'-(dodecylimino)bis-

Other names:	n-Dodecylbis(hydroxyethyl)amine
	Bis(«beta»-hydroxyethyl)laurylamine
	Bis(hydroxyethyl)dodecylamine
	Bis(2-hydroxyethyl)dodecylamine
	Dodecylbis(2-hydroxyethyl)amine
	Dodecyldiethanolamine
	Ethanol, 2,2'-(dodecylimino)di-
	Lauryldiethanolamine
	N-Dodecyldiethanolamine
	N-Lauryldiethanolamine
	N,N-Bis(hydroxyethyl)laurylamine
	N,N-Bis(2-hydroxyethyl)dodecylamine
	N,N-Bis(2-hydroxyethyl)laurylamine
	2,2'-(Dodecylimino)diethanol
	2,2'-(Laurylimino)diethanol
	NSC 525737
	Dodecylbis(hydroxyethyl)amine
	2,2'-(dodecylimino)bisethanol
Inchi:	InChI=1S/C16H35NO2/c1-2-3-4-5-6-7-8-9-10-11-12-17(13-15-18)14-16-19/h18-19H,2-16
InchiKey:	NKFNBVMJTSYZDV-UHFFFAOYSA-N
Formula:	C16H35NO2
SMILES:	CCCCCCCCCCCCN(CCO)CCO
Mol. weight [g/mol]:	273.45
CAS:	1541-67-9

Physical Properties

Property code	Value	Unit	Source
gf	-79.02	kJ/mol	Joback Method
hf	-610.50	kJ/mol	Joback Method
hfus	48.39	kJ/mol	Joback Method
hvap	86.61	kJ/mol	Joback Method
log10ws	-3.62		Crippen Method
logp	3.194		Crippen Method
mcvol	258.020	ml/mol	McGowan Method
pc	1511.67	kPa	Joback Method
tb	762.28	K	Joback Method
tc	933.69	K	Joback Method

tf	424.19	K	Joback Method
vc	0.988	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	808.02	J/mol×K	762.28	Joback Method
cpg	823.99	J/mol×K	790.85	Joback Method
cpg	839.21	J/mol×K	819.42	Joback Method
cpg	853.71	J/mol×K	847.99	Joback Method
cpg	867.52	J/mol×K	876.56	Joback Method
cpg	880.69	J/mol×K	905.12	Joback Method
cpg	893.23	J/mol×K	933.69	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=C1541679&Units=SI

Legend

cpg: Ideal gas heat capacity
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