Dodecanamide, N,N-bis(2-hydroxyethyl)-

Other names:

Bis(2-hydroxyethyl)lauramide
Clindrol Superamide 100L
Clindrol 200 L
Comperlan LD
Condensate PL
Crillon L.D.E.
Diethanolamide lauric acid
Diethanollauramide
Emid 6511
Ethylan MLD
Hetamide ML
Lauramide DEA
Lauric acid diethanolamide
Lauric acid diethanolamine condensate
Lauric diethanolamide
Lauroyl diethanolamide
Lauroyldiethanolamine
Lauryl diethanolamide
LDA
LDE
Monamid 150 LW
N,N-Bis(«beta»-hydroxyethyl)lauramide
N,N-Bis(hydroxyethyl)lauramide
N,N-Bis(2-hydroxyethyl)dodecanamide
N,N-Bis(2-hydroxyethyl)lauramide
N,N-Bis(2-hydroxyethyl)laurylamide
N,N-Diethanollauramide
N,N-Diethanollauric acid amide
N,N-Diethylollauramide
Onyxol 345
Rewomid DL 203/S
Rewomid DLMS
Richamide 6310
Standamid LD
Steinamid DL 203 S
Super Amide L-9A
Super Amide L-9C
Synotol L-60
Unamide J-56
Clindrol 101CG

Clindrol 203CG
Clindrol 210CGN
Coco diethanolamide
Coconut oil amide of diethanolamine
EMID 6541
NCI-C55323
Ninol 4821
Ninol AA 62
Ninol AA 62 extra
Ninol P-621
Rolamid CD
Standamidd LD
Varamid ML 1
Crillon LDE
Varamide ML 1
Stepan LDA
Richamide STD
N,N-Bis(2-hydroxyethyl)lauroylamide
N,N-Di(2-hydroxyethyl)lauramide
Schercomid SL-EX
Witcamide 5195
Clindrol 100L
Amisol LDE
N,N-Diethanoldodecanamide
Witcamide 5138
Mackamide LL
Mackamide LLM
Ablumide LDE
Alkamide 327
Alkamide LE
Carsamide SAL-7
Diethanol lauric acid amide
Empilan LDE
Hartamide LDA
Lauramide, N,N-bis(hydroxyethyl)-
Lauric acid diethanolamine
Mackamide L10
Monamid 150-LMWC
Monamide 150LW
Ninol 30-LL
Schercomid SL-Extra
N-Dodecanoyldiethanolamine
N-Lauroyldiethanolamine

	Dehydat 10
	Pionin D 1110
	Stremid K
	Aminon L 02
Inchi:	InChI=1S/C16H33NO3/c1-2-3-4-5-6-7-8-9-10-11-16(20)17(12-14-18)13-15-19/h18-19H,2
InchiKey:	AOMUHOFOVNGZAN-UHFFFAOYSA-N
Formula:	C16H33NO3
SMILES:	CCCCCCCCCCCC(=O)N(CCO)CCO
Mol. weight [g/mol]:	287.44
CAS:	120-40-1

Physical Properties

Property code	Value	Unit	Source
gf	-207.94	kJ/mol	Joback Method
hf	-723.08	kJ/mol	Joback Method
hfus	49.99	kJ/mol	Joback Method
hvap	93.36	kJ/mol	Joback Method
log10ws	-3.39		Crippen Method
logp	2.720		Crippen Method
mcvol	259.590	ml/mol	McGowan Method
pc	1588.54	kPa	Joback Method
rinpol	2448.30		NIST Webbook
rinpol	2448.30		NIST Webbook
tb	816.15	K	Joback Method
tc	999.20	K	Joback Method
tf	474.12	K	Joback Method
vc	0.994	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	829.55	J/mol×K	816.15	Joback Method
cpg	844.62	J/mol×K	846.66	Joback Method
cpg	858.90	J/mol×K	877.17	Joback Method
cpg	872.42	J/mol×K	907.67	Joback Method
cpg	885.24	J/mol×K	938.18	Joback Method
cpg	897.37	J/mol×K	968.69	Joback Method

cpg	908.88	J/mol×K	999.20	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=C120401&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume