

Dodecanamide, N-(2-hydroxyethyl)-

Other names:	Amisol LDE Comperlan LM Copramyl Crillon L.M.E. Cyclomide LM Lauramide MEA Lauric acid ethanolamide Lauric acid monoethanolamide Lauric acid monoethanolamine Lauric ethyloamide Lauric monoethanolamide Lauridit LM Lauroyl monoethanolamide Laurylamidoethanol Laurylethanolamide N-(2-Hydroxyethyl)dodecanamide N-(2-Hydroxyethyl)lauramide Rewomid L 203 Stabilar C.M.H. Steinamid L 203 Ultrapole H Vistalan 2-Dodecanamidoethanol 1:1 Lauramide MEA Ablumide LME Alkamide L-203 Crillon LME Hartamide LMEA Incromide LCL Lauramide-MEA (1:1) Lauroylethanolamide Lauryl monoethanolamide Mackamide LMM N-(2-Hydroxyethyl)dodecaneamide Rolamid CM Stabilar CMH Lauric N-(2-hydroxyethyl)amide N-Lauroylethanolamine
Inchi:	InChI=1S/C14H29NO2/c1-2-3-4-5-6-7-8-9-10-11-14(17)15-12-13-16/h16H,2-13H2,1H3,(H)
InchiKey:	QZXSMBBFBXPQHI-UHFFFAOYSA-N

Formula: C14H29NO2
SMILES: CCCCCCCCCCC(=O)NCCO
Mol. weight [g/mol]: 243.39
CAS: 142-78-9

Physical Properties

Property code	Value	Unit	Source
gf	-109.35	kJ/mol	Joback Method
hf	-543.63	kJ/mol	Joback Method
hfus	42.80	kJ/mol	Joback Method
hvap	76.62	kJ/mol	Joback Method
log10ws	-3.91		Crippen Method
logp	3.016		Crippen Method
mcvol	225.540	ml/mol	McGowan Method
pc	1744.82	kPa	Joback Method
tb	715.94	K	Joback Method
tc	887.38	K	Joback Method
tf	410.95	K	Joback Method
vc	0.879	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	667.46	J/mol×K	715.94	Joback Method
cpg	682.24	J/mol×K	744.51	Joback Method
cpg	696.32	J/mol×K	773.09	Joback Method
cpg	709.72	J/mol×K	801.66	Joback Method
cpg	722.48	J/mol×K	830.23	Joback Method
cpg	734.61	J/mol×K	858.80	Joback Method
cpg	746.15	J/mol×K	887.38	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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

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