Oleic diethanolamide

Other names:	9-Octadecenamide, N,N-bis(2-hydroxyethyl)-, (Z)-
	Alkamide DO-280
	Amidex O
	Emid 6545
	Incromide OD
	Mackamide MO
	Marlamid D 1885
	Ninol 90201
	Norfox F-221
	Oleamide DEA
	Oleic acid diethanolamide
	Oleic acid diethanolamine
	Rewomid DO 280 SE
	Schercomid ODA
	Varamide A-7
	9-Octadecenamide, N,N-bis(2-hydroxyethyl)-, (9Z)-
	Alrosol O
	Amisol ODE
	Comperlan OD
	Diethanololeamide
	Emulsifier WHC
	Lauridit OD
	Mackamide O
	N,N-Bis(2-hydroxyethyl)oleamide
	N,N-Diethanololeamide
	Nitrene NO
	Oleamide, N,N-bis(2-hydroxyethyl)-
	Stafoam DO
	Steinamid DO 280SE
	Witcamide 511C
Inchi:	InChI=1S/C22H43NO3/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-22(26)23(18-20-24)
InchiKey:	LPMBTLLQQJBUOO-KTKRTIGZSA-N
Formula:	C22H43NO3
SMILES:	CCCCCCCCC=CCCCCCCCC(=O)N(CCO)CCO
Mol. weight [g/mol]:	369.58
CAS:	93-83-4

Physical Properties

Property code	Value	Unit	Source
gf	-77.20	kJ/mol	Joback Method
hf	-729.70	kJ/mol	Joback Method
hfus	65.73	kJ/mol	Joback Method
hvap	106.67	kJ/mol	Joback Method
log10ws	-5.76		Crippen Method
logp	4.837		Crippen Method
mcvol	339.830	ml/mol	McGowan Method
pc	1087.06	kPa	Joback Method
rinpol	2799.70		NIST Webbook
rinpol	2799.70		NIST Webbook
tb	957.59	K	Joback Method
tc	1187.10	K	Joback Method
tf	536.66	K	Joback Method
vc	1.310	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1166.55	J/mol×K	957.59	Joback Method
cpg	1186.08	J/mol×K	995.84	Joback Method
cpg	1204.51	J/mol×K	1034.09	Joback Method
cpg	1221.95	J/mol×K	1072.34	Joback Method
cpg	1238.51	J/mol×K	1110.59	Joback Method
cpg	1254.32	J/mol×K	1148.85	Joback Method
cpg	1269.49	J/mol×K	1187.10	Joback Method

Sources

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=C93834&Units=SI

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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