

Diethylene glycol, amino, N-octyl

Inchi:	InChI=1S/C12H27NO2/c1-2-3-4-5-6-7-8-13-9-11-15-12-10-14/h13-14H,2-12H2,1H3
InchiKey:	YIJHQMHGNGRSNO-UHFFFAOYSA-N
Formula:	C12H27NO2
SMILES:	CCCCCCCCNCCOCCO
Mol. weight [g/mol]:	217.35

Physical Properties

Property code	Value	Unit	Source
gf	-102.27	kJ/mol	Joback Method
hf	-521.99	kJ/mol	Joback Method
hfus	37.21	kJ/mol	Joback Method
hvap	67.83	kJ/mol	Joback Method
log10ws	-2.39		Crippen Method
logp	1.945		Crippen Method
mcvol	201.660	ml/mol	McGowan Method
pc	1920.30	kPa	Joback Method
rinsol	1608.00		NIST Webbook
tb	638.73	K	Joback Method
tc	801.24	K	Joback Method
tf	360.71	K	Joback Method
vc	0.779	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	563.91	J/mol×K	638.73	Joback Method
cpg	578.43	J/mol×K	665.81	Joback Method
cpg	592.36	J/mol×K	692.90	Joback Method
cpg	605.70	J/mol×K	719.98	Joback Method
cpg	618.48	J/mol×K	747.07	Joback Method
cpg	630.70	J/mol×K	774.15	Joback Method
cpg	642.37	J/mol×K	801.24	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R119987&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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
mccvol:	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

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