

Diethylene glycol, nonyl ether, acetate

Other names:	2-(2-nonyloxy-ethoxy)-ethanol, acetate
Inchi:	InChI=1S/C15H30O4/c1-3-4-5-6-7-8-9-10-17-11-12-18-13-14-19-15(2)16/h3-14H2,1-2H3
InchiKey:	MTBOGQRWUVHSLV-UHFFFAOYSA-N
Formula:	C15H30O4
SMILES:	CCCCCCCCCOCCOCCOC(C)=O
Mol. weight [g/mol]:	274.40

Physical Properties

Property code	Value	Unit	Source
gf	-368.50	kJ/mol	Joback Method
hf	-862.17	kJ/mol	Joback Method
hfus	39.77	kJ/mol	Joback Method
hvap	62.96	kJ/mol	Joback Method
log10ws	-3.14		Crippen Method
logp	3.333		Crippen Method
mvol	241.390	ml/mol	McGowan Method
pc	1428.30	kPa	Joback Method
rinpol	1908.70		NIST Webbook
tb	663.73	K	Joback Method
tc	832.31	K	Joback Method
tf	375.43	K	Joback Method
vc	0.935	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	681.20	J/molxK	663.73	Joback Method
cpg	698.21	J/molxK	691.83	Joback Method
cpg	714.51	J/molxK	719.92	Joback Method
cpg	730.10	J/molxK	748.02	Joback Method
cpg	744.97	J/molxK	776.12	Joback Method
cpg	759.12	J/molxK	804.21	Joback Method
cpg	772.55	J/molxK	832.31	Joback Method
dvisc	0.0012296	Paxs	375.43	Joback Method

dvisc	0.0006071	Paxs	423.48	Joback Method
dvisc	0.0003461	Paxs	471.53	Joback Method
dvisc	0.0002189	Paxs	519.58	Joback Method
dvisc	0.0001496	Paxs	567.63	Joback Method
dvisc	0.0001085	Paxs	615.68	Joback Method
dvisc	0.0000825	Paxs	663.73	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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R184411&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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
rinpolar:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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