

# 2-(2-nonyloxy-ethoxy)-ethanol

<b>Other names:</b>	Diethylene glycol, nonyl ether
<b>Inchi:</b>	InChI=1S/C13H28O3/c1-2-3-4-5-6-7-8-10-15-12-13-16-11-9-14/h14H,2-13H2,1H3
<b>InchiKey:</b>	JKGHDEKVMRQWJL-UHFFFAOYSA-N
<b>Formula:</b>	C13H28O3
<b>SMILES:</b>	CCCCCCCCCOCCOCCO
<b>Mol. weight [g/mol]:</b>	232.36

## Physical Properties

Property code	Value	Unit	Source
gf	-288.24	kJ/mol	Joback Method
hf	-728.32	kJ/mol	Joback Method
hfus	35.89	kJ/mol	Joback Method
hvap	66.03	kJ/mol	Joback Method
log10ws	-2.70		Crippen Method
logp	2.762		Crippen Method
mvol	211.640	ml/mol	McGowan Method
pc	1724.59	kPa	Joback Method
rinpol	1761.70		NIST Webbook
tb	633.86	K	Joback Method
tc	793.44	K	Joback Method
tf	341.55	K	Joback Method
vc	0.819	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	587.57	J/molxK	633.86	Joback Method
cpg	602.59	J/molxK	660.46	Joback Method
cpg	617.04	J/molxK	687.05	Joback Method
cpg	630.92	J/molxK	713.65	Joback Method
cpg	644.23	J/molxK	740.25	Joback Method
cpg	656.99	J/molxK	766.84	Joback Method
cpg	669.19	J/molxK	793.44	Joback Method
dvisc	0.0043079	Paxs	341.55	Joback Method

dvisc	0.0011995	Paxs	390.27	Joback Method
dvisc	0.0004436	Paxs	438.99	Joback Method
dvisc	0.0002001	Paxs	487.71	Joback Method
dvisc	0.0001043	Paxs	536.42	Joback Method
dvisc	0.0000606	Paxs	585.14	Joback Method
dvisc	0.0000383	Paxs	633.86	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R184406&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R184406&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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