

# 3,6,9,12,15-Pentaoxonadecan-1-ol

<b>Other names:</b>	2-(2-(2-(2-Butoxy-ethoxy)-ethoxy)-ethoxy)-ethoxy-ethanol Pentaethylene glycol, butyl ether Pentaethylene glycol monobutyl ether 2-[2-[2-[2-(2-Butoxyethoxy)ethoxy]ethoxy]ethoxy]ethanol
<b>Inchi:</b>	InChI=1S/C14H30O6/c1-2-3-5-16-7-9-18-11-13-20-14-12-19-10-8-17-6-4-15/h15H,2-14H
<b>InchiKey:</b>	AZYICGMHYVGBY-UHFFFAOYSA-N
<b>Formula:</b>	C14H30O6
<b>SMILES:</b>	CCCCOCCOCCOCCOCCOCCO
<b>Mol. weight [g/mol]:</b>	294.38
<b>CAS:</b>	1786-94-3

## Physical Properties

Property code	Value	Unit	Source
gf	-594.82	kJ/mol	Joback Method
hf	-1145.62	kJ/mol	Joback Method
hfus	42.04	kJ/mol	Joback Method
hvap	75.49	kJ/mol	Joback Method
log10ws	-0.38		Crippen Method
logp	0.862		Crippen Method
mcvol	243.340	ml/mol	McGowan Method
pc	1531.86	kPa	Joback Method
rinpol	2028.00		NIST Webbook
rinpol	2034.10		NIST Webbook
rinpol	2034.10		NIST Webbook
rinpol	2028.00		NIST Webbook
tb	724.00	K	Joback Method
tc	890.93	K	Joback Method
tf	419.51	K	Joback Method
vc	0.928	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	731.43	J/molxK	724.00	Joback Method

cpg	802.01	J/molxK	863.11	Joback Method
cpg	789.37	J/molxK	835.29	Joback Method
cpg	775.98	J/molxK	807.47	Joback Method
cpg	761.84	J/molxK	779.64	Joback Method
cpg	746.99	J/molxK	751.82	Joback Method
cpg	813.88	J/molxK	890.93	Joback Method
dvisc	0.0000119	Paxs	724.00	Joback Method
dvisc	0.0000179	Paxs	673.25	Joback Method
dvisc	0.0000289	Paxs	622.50	Joback Method
dvisc	0.0000509	Paxs	571.75	Joback Method
dvisc	0.0000998	Paxs	521.01	Joback Method
dvisc	0.0002267	Paxs	470.26	Joback Method
dvisc	0.0006276	Paxs	419.51	Joback Method

## Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1786943&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1786943&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>

## 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

**vc:** Critical Volume

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