

# 2-(2-(2-(2-nonyloxy-ethoxy)-ethoxy)-ethoxy)-ethan

Other names:  
**acetate**

Tetraethylene glycol, nonyl ether, acetate

Inchi: InChI=1S/C19H38O6/c1-3-4-5-6-7-8-9-10-21-11-12-22-13-14-23-15-16-24-17-18-25-19(2

InchiKey: BBYAXBHCQUSZQP-UHFFFAOYSA-N

Formula: C19H38O6

SMILES: CCCCCCCCCOCCOCCOCCOCCOC(C)=O

Mol. weight [g/mol]: 362.50

## Physical Properties

Property code	Value	Unit	Source
gf	-544.82	kJ/mol	Joback Method
hf	-1209.17	kJ/mol	Joback Method
hfus	52.50	kJ/mol	Joback Method
hvap	76.68	kJ/mol	Joback Method
log10ws	-2.99		Crippen Method
logp	3.366		Crippen Method
mcvol	309.490	ml/mol	McGowan Method
pc	1065.18	kPa	Joback Method
rinpol	2474.20		NIST Webbook
rinpol	2474.20		NIST Webbook
tb	800.09	K	Joback Method
tc	980.61	K	Joback Method
tf	464.97	K	Joback Method
vc	1.196	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	978.41	J/molxK	800.09	Joback Method
cpg	1060.31	J/molxK	950.52	Joback Method
cpg	1046.17	J/molxK	920.44	Joback Method
cpg	1030.90	J/molxK	890.35	Joback Method
cpg	1014.51	J/molxK	860.26	Joback Method
cpg	997.01	J/molxK	830.18	Joback Method
cpg	1073.31	J/molxK	980.61	Joback Method

dvisc	0.0000271	Paxs	800.09	Joback Method
dvisc	0.0000358	Paxs	744.24	Joback Method
dvisc	0.0000493	Paxs	688.38	Joback Method
dvisc	0.0000721	Paxs	632.53	Joback Method
dvisc	0.0001134	Paxs	576.68	Joback Method
dvisc	0.0001965	Paxs	520.82	Joback Method
dvisc	0.0003885	Paxs	464.97	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R184253&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R184253&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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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