

# Triethylene glycol, nonyl ether, acetate

<b>Other names:</b>	2-(2-(2-nonyloxy-ethoxy)-ethoxy)-ethanol, acetate
<b>Inchi:</b>	InChI=1S/C17H34O5/c1-3-4-5-6-7-8-9-10-19-11-12-20-13-14-21-15-16-22-17(2)18/h3-16
<b>InchiKey:</b>	VKATUMXZADHLQW-UHFFFAOYSA-N
<b>Formula:</b>	C17H34O5
<b>SMILES:</b>	CCCCCCCCCOCCOCCOCCOC(C)=O
<b>Mol. weight [g/mol]:</b>	318.45

## Physical Properties

Property code	Value	Unit	Source
gf	-456.66	kJ/mol	Joback Method
hf	-1035.67	kJ/mol	Joback Method
hfus	46.14	kJ/mol	Joback Method
hvap	69.82	kJ/mol	Joback Method
log10ws	-3.06		Crippen Method
logp	3.350		Crippen Method
mvol	275.440	ml/mol	McGowan Method
pc	1226.84	kPa	Joback Method
rinpol	2187.50		NIST Webbook
rinpol	2187.50		NIST Webbook
tb	731.91	K	Joback Method
tc	903.97	K	Joback Method
tf	420.20	K	Joback Method
vc	1.065	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	826.76	J/mol×K	731.91	Joback Method
cpg	844.59	J/mol×K	760.59	Joback Method
cpg	861.57	J/mol×K	789.26	Joback Method
cpg	877.67	J/mol×K	817.94	Joback Method
cpg	892.91	J/mol×K	846.61	Joback Method
cpg	907.27	J/mol×K	875.29	Joback Method
cpg	920.74	J/mol×K	903.97	Joback Method

dvisc	0.0007030	Paxs	420.20	Joback Method
dvisc	0.0003516	Paxs	472.15	Joback Method
dvisc	0.0002018	Paxs	524.10	Joback Method
dvisc	0.0001280	Paxs	576.05	Joback Method
dvisc	0.0000875	Paxs	628.01	Joback Method
dvisc	0.0000634	Paxs	679.96	Joback Method
dvisc	0.0000481	Paxs	731.91	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R184337&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R184337&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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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