

# Nonaethylene glycol, monoallyl ether, acetate

**Inchi:** InChI=1S/C23H44O11/c1-3-4-25-5-6-26-7-8-27-9-10-28-11-12-29-13-14-30-15-16-31-17  
**InchiKey:** GICWSHFWSJFUEM-UHFFFAOYSA-N  
**Formula:** C23H44O11  
**SMILES:** C=CCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOC(C)=O  
**Mol. weight [g/mol]:** 496.59

## Physical Properties

Property code	Value	Unit	Source
gf	-948.30	kJ/mol	Joback Method
hf	-1827.40	kJ/mol	Joback Method
hfus	67.52	kJ/mol	Joback Method
hvap	96.97	kJ/mol	Joback Method
log10ws	0.05		Crippen Method
logp	0.885		Crippen Method
mcvol	390.900	ml/mol	McGowan Method
pc	820.54	kPa	Joback Method
rinpol	3138.00		NIST Webbook
rinpol	3138.00		NIST Webbook
rinpol	3139.00		NIST Webbook
rinpol	3138.00		NIST Webbook
rinpol	3130.00		NIST Webbook
rinpol	3136.00		NIST Webbook
rinpol	3137.00		NIST Webbook
rinpol	3130.00		NIST Webbook
rinpol	3136.00		NIST Webbook
rinpol	3138.00		NIST Webbook
rinpol	3137.00		NIST Webbook
rinpol	3135.00		NIST Webbook
rinpol	3136.00		NIST Webbook
rinpol	3138.00		NIST Webbook
rinpol	3136.00		NIST Webbook
tb	1000.39	K	Joback Method
tc	1247.07	K	Joback Method
tf	619.44	K	Joback Method
vc	1.490	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1351.60	J/molxK	1000.39	Joback Method
cpg	1398.01	J/molxK	1205.96	Joback Method
cpg	1395.87	J/molxK	1164.85	Joback Method
cpg	1390.04	J/molxK	1123.73	Joback Method
cpg	1380.64	J/molxK	1082.62	Joback Method
cpg	1367.79	J/molxK	1041.50	Joback Method
cpg	1396.35	J/molxK	1247.07	Joback Method
dvisc	0.0000033	Paxs	1000.39	Joback Method
dvisc	0.0000043	Paxs	936.90	Joback Method
dvisc	0.0000059	Paxs	873.41	Joback Method
dvisc	0.0000083	Paxs	809.92	Joback Method
dvisc	0.0000125	Paxs	746.42	Joback Method
dvisc	0.0000203	Paxs	682.93	Joback Method
dvisc	0.0000363	Paxs	619.44	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R152162&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R152162&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>

## 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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