

# Diethylene glycol, monoallyl ether, acetate

**Inchi:** InChI=1S/C9H16O4/c1-3-4-11-5-6-12-7-8-13-9(2)10/h3H,1,4-8H2,2H3  
**InchiKey:** SIQNAPRKWIPLPE-UHFFFAOYSA-N  
**Formula:** C9H16O4  
**SMILES:** C=CCOCCOCCOC(C)=O  
**Mol. weight [g/mol]:** 188.22

## Physical Properties

Property code	Value	Unit	Source
gf	-331.18	kJ/mol	Joback Method
hf	-612.90	kJ/mol	Joback Method
hfus	22.95	kJ/mol	Joback Method
hvap	48.93	kJ/mol	Joback Method
log10ws	-0.48		Crippen Method
logp	0.769		Crippen Method
mcvol	152.550	ml/mol	McGowan Method
pc	2431.44	kPa	Joback Method
rinpol	1252.00		NIST Webbook
rinpol	1251.00		NIST Webbook
rinpol	1253.00		NIST Webbook
rinpol	1255.00		NIST Webbook
rinpol	1258.00		NIST Webbook
rinpol	1256.00		NIST Webbook
rinpol	1256.00		NIST Webbook
rinpol	1252.00		NIST Webbook
rinpol	1253.00		NIST Webbook
rinpol	1255.00		NIST Webbook
rinpol	1258.00		NIST Webbook
rinpol	1252.00		NIST Webbook
tb	523.13	K	Joback Method
tc	698.88	K	Joback Method
tf	306.05	K	Joback Method
vc	0.581	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	354.45	J/molxK	523.13	Joback Method
cpg	366.80	J/molxK	552.42	Joback Method
cpg	378.75	J/molxK	581.71	Joback Method
cpg	390.28	J/molxK	611.00	Joback Method
cpg	401.39	J/molxK	640.30	Joback Method
cpg	412.06	J/molxK	669.59	Joback Method
cpg	422.29	J/molxK	698.88	Joback Method
dvisc	0.0016686	Paxs	306.05	Joback Method
dvisc	0.0009258	Paxs	342.23	Joback Method
dvisc	0.0005750	Paxs	378.41	Joback Method
dvisc	0.0003880	Paxs	414.59	Joback Method
dvisc	0.0002789	Paxs	450.77	Joback Method
dvisc	0.0002106	Paxs	486.95	Joback Method
dvisc	0.0001653	Paxs	523.13	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=R151936&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R151936&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
<b>vc:</b>	Critical Volume

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