

# Hexaethylene glycol, monoallyl ether, acetate

**Inchi:** InChI=1S/C17H32O8/c1-3-4-19-5-6-20-7-8-21-9-10-22-11-12-23-13-14-24-15-16-25-17(2)  
**InchiKey:** MVWRFKHGSQZHQW-UHFFFAOYSA-N  
**Formula:** C17H32O8  
**SMILES:** C=CCOCCOCCOCCOCCOCCOCCOC(C)=O  
**Mol. weight [g/mol]:** 364.43

## Physical Properties

Property code	Value	Unit	Source
gf	-683.82	kJ/mol	Joback Method
hf	-1306.90	kJ/mol	Joback Method
hfus	48.42	kJ/mol	Joback Method
hvap	76.38	kJ/mol	Joback Method
log10ws	-0.18		Crippen Method
logp	0.835		Crippen Method
mcvol	288.750	ml/mol	McGowan Method
pc	1219.14	kPa	Joback Method
rinpol	2344.00		NIST Webbook
rinpol	2341.00		NIST Webbook
rinpol	2343.00		NIST Webbook
rinpol	2342.00		NIST Webbook
rinpol	2349.00		NIST Webbook
rinpol	2339.00		NIST Webbook
rinpol	2344.00		NIST Webbook
rinpol	2345.00		NIST Webbook
rinpol	2338.00		NIST Webbook
rinpol	2344.00		NIST Webbook
rinpol	2342.00		NIST Webbook
rinpol	2345.00		NIST Webbook
tb	795.85	K	Joback Method
tc	976.54	K	Joback Method
tf	485.13	K	Joback Method
vc	1.101	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	894.34	J/molxK	795.85	Joback Method
cpg	911.12	J/molxK	825.97	Joback Method
cpg	926.84	J/molxK	856.08	Joback Method
cpg	941.47	J/molxK	886.20	Joback Method
cpg	954.98	J/molxK	916.31	Joback Method
cpg	967.34	J/molxK	946.43	Joback Method
cpg	978.51	J/molxK	976.54	Joback Method
dvisc	0.0002321	Paxs	485.13	Joback Method
dvisc	0.0001292	Paxs	536.92	Joback Method
dvisc	0.0000797	Paxs	588.70	Joback Method
dvisc	0.0000532	Paxs	640.49	Joback Method
dvisc	0.0000377	Paxs	692.28	Joback Method
dvisc	0.0000280	Paxs	744.06	Joback Method
dvisc	0.0000217	Paxs	795.85	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=R152122&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R152122&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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