

# Triethylene glycol, hexyl-methyl ether

Inchi:	InChI=1S/C13H28O4/c1-3-4-5-6-7-15-10-11-17-13-12-16-9-8-14-2/h3-13H2,1-2H3
InchiKey:	WECDVJWNQLMVAZ-UHFFFAOYSA-N
Formula:	C13H28O4
SMILES:	CCCCCOCOCOCOCOC
Mol. weight [g/mol]:	248.36

## Physical Properties

Property code	Value	Unit	Source
gf	-361.42	kJ/mol	Joback Method
hf	-840.53	kJ/mol	Joback Method
hfus	34.18	kJ/mol	Joback Method
hvap	54.17	kJ/mol	Joback Method
log10ws	-1.61		Crippen Method
logp	2.263		Crippen Method
mcvol	217.510	ml/mol	McGowan Method
pc	1557.35	kPa	Joback Method
rinsol	1660.00		NIST Webbook
tb	586.52	K	Joback Method
tc	747.45	K	Joback Method
tf	325.19	K	Joback Method
vc	0.836	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	573.77	J/molxK	586.52	Joback Method
cpg	650.99	J/molxK	720.63	Joback Method
cpg	636.67	J/molxK	693.81	Joback Method
cpg	621.78	J/molxK	666.99	Joback Method
cpg	606.33	J/molxK	640.16	Joback Method
cpg	590.32	J/molxK	613.34	Joback Method
cpg	664.73	J/molxK	747.45	Joback Method
dvisc	0.0000820	Paxs	586.52	Joback Method
dvisc	0.0001081	Paxs	542.97	Joback Method

dvisc	0.0001496	Paxs	499.41	Joback Method
dvisc	0.0002203	Paxs	455.86	Joback Method
dvisc	0.0003520	Paxs	412.30	Joback Method
dvisc	0.0006284	Paxs	368.75	Joback Method
dvisc	0.0013103	Paxs	325.19	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=R120046&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R120046&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.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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