

# Triethylene glycol, decyl-methyl ether

<b>Inchi:</b>	InChI=1S/C17H36O4/c1-3-4-5-6-7-8-9-10-11-19-14-15-21-17-16-20-13-12-18-2/h3-17H2
<b>InchiKey:</b>	NWBNGWGOJMEYRZ-UHFFFAOYSA-N
<b>Formula:</b>	C17H36O4
<b>SMILES:</b>	CCCCCCCCCOCCOCCOCCOC
<b>Mol. weight [g/mol]:</b>	304.47

## Physical Properties

Property code	Value	Unit	Source
gf	-327.74	kJ/mol	Joback Method
hf	-923.09	kJ/mol	Joback Method
hfus	44.54	kJ/mol	Joback Method
hvap	63.08	kJ/mol	Joback Method
log10ws	-3.29		Crippen Method
logp	3.823		Crippen Method
mvol	273.870	ml/mol	McGowan Method
pc	1174.44	kPa	Joback Method
rinpol	2121.00		NIST Webbook
rinpol	2121.00		NIST Webbook
tb	678.04	K	Joback Method
tc	841.16	K	Joback Method
tf	370.27	K	Joback Method
vc	1.060	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	796.81	J/molxK	678.04	Joback Method
cpg	815.66	J/molxK	705.23	Joback Method
cpg	833.75	J/molxK	732.41	Joback Method
cpg	851.08	J/molxK	759.60	Joback Method
cpg	867.63	J/molxK	786.79	Joback Method
cpg	883.42	J/molxK	813.98	Joback Method
cpg	898.42	J/molxK	841.16	Joback Method
dvisc	0.0009397	Paxs	370.27	Joback Method

dvisc	0.0004271	Paxs	421.56	Joback Method
dvisc	0.0002303	Paxs	472.86	Joback Method
dvisc	0.0001402	Paxs	524.15	Joback Method
dvisc	0.0000932	Paxs	575.45	Joback Method
dvisc	0.0000663	Paxs	626.74	Joback Method
dvisc	0.0000496	Paxs	678.04	Joback Method

## Sources

<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>
<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=R120031&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R120031&amp;Units=SI</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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