

# Tetrapropylene glycol monopropyl ether

<b>Inchi:</b>	InChI=1S/C15H32O5/c1-6-7-17-9-13(3)19-11-15(5)20-10-14(4)18-8-12(2)16/h12-16H,6-
<b>InchiKey:</b>	GDDWCUCSVXSHAZ-UHFFFAOYSA-N
<b>Formula:</b>	C15H32O5
<b>SMILES:</b>	CCCOCC(C)OCC(C)OCC(C)OCC(C)O
<b>Mol. weight [g/mol]:</b>	292.41

## Physical Properties

Property code	Value	Unit	Source
gf	-491.16	kJ/mol	Joback Method
hf	-1055.16	kJ/mol	Joback Method
hfus	29.35	kJ/mol	Joback Method
hvap	73.75	kJ/mol	Joback Method
log10ws	-2.16		Crippen Method
logp	2.009		Crippen Method
mvol	251.560	ml/mol	McGowan Method
pc	1477.02	kPa	Joback Method
rinpol	1555.00		NIST Webbook
rinpol	1557.00		NIST Webbook
tb	722.70	K	Joback Method
tc	893.99	K	Joback Method
tf	348.55	K	Joback Method
vc	0.943	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	760.34	J/molxK	722.70	Joback Method
cpg	835.77	J/molxK	865.44	Joback Method
cpg	822.31	J/molxK	836.89	Joback Method
cpg	808.03	J/molxK	808.35	Joback Method
cpg	792.94	J/molxK	779.80	Joback Method
cpg	777.04	J/molxK	751.25	Joback Method
cpg	848.41	J/molxK	893.99	Joback Method
dvisc	0.0000100	Paxs	722.70	Joback Method

dvisc	0.0000170	Paxs	660.34	Joback Method
dvisc	0.0000323	Paxs	597.98	Joback Method
dvisc	0.0000716	Paxs	535.62	Joback Method
dvisc	0.0001954	Paxs	473.27	Joback Method
dvisc	0.0007234	Paxs	410.91	Joback Method
dvisc	0.0042781	Paxs	348.55	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=R4636&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R4636&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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