

# Ethanol, 2-[2-(ethenyloxy)ethoxy]-

<b>Other names:</b>	Ethanol, 2-[2-(vinylloxy)ethoxy]- Diethylene glycol monovinyl ether Degmve Diethyleneglycol vinyl ether
<b>Inchi:</b>	InChI=1S/C6H12O3/c1-2-8-5-6-9-4-3-7/h2,7H,1,3-6H2
<b>InchiKey:</b>	WULAHPYSGCVQHM-UHFFFAOYSA-N
<b>Formula:</b>	C6H12O3
<b>SMILES:</b>	C=COCCOCCO
<b>Mol. weight [g/mol]:</b>	132.16
<b>CAS:</b>	929-37-3

## Physical Properties

Property code	Value	Unit	Source
gf	-259.34	kJ/mol	Joback Method
hf	-458.41	kJ/mol	Joback Method
hfus	16.48	kJ/mol	Joback Method
hvap	49.78	kJ/mol	Joback Method
log10ws	-0.12		Crippen Method
logp	0.155		Crippen Method
mcvol	108.710	ml/mol	McGowan Method
pc	3484.76	kPa	Joback Method
tb	470.38	K	Joback Method
tc	634.64	K	Joback Method
tf	222.80 ± 0.60	K	NIST Webbook
vc	0.407	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	235.83	J/molxK	470.38	Joback Method
cpg	276.57	J/molxK	607.26	Joback Method
cpg	268.94	J/molxK	579.88	Joback Method
cpg	261.04	J/molxK	552.51	Joback Method
cpg	252.89	J/molxK	525.13	Joback Method

cpg	244.49	J/molxK	497.76	Joback Method
cpg	283.95	J/molxK	634.64	Joback Method
dvisc	0.0001468	Paxs	470.38	Joback Method
dvisc	0.0002355	Paxs	435.47	Joback Method
dvisc	0.0004103	Paxs	400.55	Joback Method
dvisc	0.0007949	Paxs	365.64	Joback Method
dvisc	0.0017707	Paxs	330.73	Joback Method
dvisc	0.0047652	Paxs	295.81	Joback Method
dvisc	0.0167136	Paxs	260.90	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=C929373&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C929373&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>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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