

# Ethanol, 2-(vinyloxy)-

<b>Other names:</b>	Ethylene glycol monovinyl ether Ethanol, 2-(ethenyloxy)- Ethylene glycol vinyl ether Ethyleneglycol monovinyl ester Vinyloxyethanol 2-(Vinyloxy)ethanol 2-Hydroxyethyl vinyl ether Ethylenglycol monovinyl ester Mveeg
<b>Inchi:</b>	InChI=1S/C4H8O2/c1-2-6-4-3-5/h2,5H,1,3-4H2
<b>InchiKey:</b>	VUIWJRYTWUGOOF-UHFFFAOYSA-N
<b>Formula:</b>	C4H8O2
<b>SMILES:</b>	C=COCCO
<b>Mol. weight [g/mol]:</b>	88.11
<b>CAS:</b>	764-48-7

## Physical Properties

Property code	Value	Unit	Source
gf	-171.18	kJ/mol	Joback Method
hf	-284.91	kJ/mol	Joback Method
hfus	10.11	kJ/mol	Joback Method
hvap	42.92	kJ/mol	Joback Method
log10ws	-0.20		Crippen Method
logp	0.139		Crippen Method
mcvol	74.660	ml/mol	McGowan Method
pc	4534.68	kPa	Joback Method
tb	413.00 ± 3.00	K	NIST Webbook
tc	567.94	K	Joback Method
tf	216.13	K	Joback Method
vc	0.278	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	140.18	J/molxK	402.20	Joback Method
cpg	146.43	J/molxK	429.82	Joback Method
cpg	152.48	J/molxK	457.45	Joback Method
cpg	158.34	J/molxK	485.07	Joback Method
cpg	164.01	J/molxK	512.70	Joback Method
cpg	169.50	J/molxK	540.32	Joback Method
cpg	174.80	J/molxK	567.94	Joback Method
dvisc	0.0525093	Paxs	216.13	Joback Method
dvisc	0.0125619	Paxs	247.14	Joback Method
dvisc	0.0041341	Paxs	278.15	Joback Method
dvisc	0.0017004	Paxs	309.17	Joback Method
dvisc	0.0008224	Paxs	340.18	Joback Method
dvisc	0.0004490	Paxs	371.19	Joback Method
dvisc	0.0002692	Paxs	402.20	Joback Method

## Sources

<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=C764487&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C764487&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>

## 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

**vc:** Critical Volume

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