

# Ethene, 1,1'-[oxybis(2,1-ethanedioxy)]bis-

<b>Other names:</b>	Ether, bis[2-(vinyloxy)ethyl] Bis[2-(vinyloxy)ethyl] ether Diethylene glycol divinyl ether Divinylcarbitol 3,6,9-Trioxaundeca-1,10-diene Divinyl ether diethylenglykolu Dvedeg NSC 6117 1,1'-[oxybis(ethyleneoxy)]diethylene
<b>Inchi:</b>	InChI=1S/C8H14O3/c1-3-9-5-7-11-8-6-10-4-2/h3-4H,1-2,5-8H2
<b>InchiKey:</b>	SAMJGBVVQUEMGC-UHFFFAOYSA-N
<b>Formula:</b>	C8H14O3
<b>SMILES:</b>	C=COCCOCCOC=C
<b>Mol. weight [g/mol]:</b>	158.19
<b>CAS:</b>	764-99-8

## Physical Properties

Property code	Value	Unit	Source
gf	-122.84	kJ/mol	Joback Method
hf	-354.25	kJ/mol	Joback Method
hfus	17.48	kJ/mol	Joback Method
hvap	39.29	kJ/mol	Joback Method
log10ws	-1.13		Crippen Method
logp	1.323		Crippen Method
mcvol	132.590	ml/mol	McGowan Method
pc	2621.78	kPa	Joback Method
tb	443.06	K	Joback Method
tc	613.76	K	Joback Method
tf	246.80 ± 0.60	K	NIST Webbook
vc	0.499	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	274.47	J/mol×K	443.06	Joback Method
cpg	285.62	J/mol×K	471.51	Joback Method
cpg	296.47	J/mol×K	499.96	Joback Method
cpg	307.00	J/mol×K	528.41	Joback Method
cpg	317.22	J/mol×K	556.86	Joback Method
cpg	327.11	J/mol×K	585.31	Joback Method
cpg	336.67	J/mol×K	613.76	Joback Method
dvisc	0.0018222	Paxs	243.09	Joback Method
dvisc	0.0009564	Paxs	276.42	Joback Method
dvisc	0.0005767	Paxs	309.75	Joback Method
dvisc	0.0003836	Paxs	343.07	Joback Method
dvisc	0.0002743	Paxs	376.40	Joback Method
dvisc	0.0002071	Paxs	409.73	Joback Method
dvisc	0.0001632	Paxs	443.06	Joback Method
hvapt	50.00	kJ/mol	403.00	NIST Webbook

## Sources

<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=C764998&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C764998&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>

## 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>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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

**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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