

# cis-1-Propenyl ethyl ether

Inchi:	InChI=1S/C5H10O/c1-3-5-6-4-2/h3,5H,4H2,1-2H3/b5-3-
InchiKey:	XDHOEHJVXXTEDV-HYXAFXHYSA-N
Formula:	C5H10O
SMILES:	CC=COCC
Mol. weight [g/mol]:	86.13
CAS:	4696-25-7

## Physical Properties

Property code	Value	Unit	Source
gf	-33.56	kJ/mol	Joback Method
hf	-161.53	kJ/mol	Joback Method
hfus	10.10	kJ/mol	Joback Method
hvap	29.09	kJ/mol	Joback Method
log10ws	-1.35		Crippen Method
logp	1.556		Crippen Method
mcvol	82.880	ml/mol	McGowan Method
pc	3615.89	kPa	Joback Method
tb	340.38	K	Joback Method
tc	513.77	K	Joback Method
tf	163.26	K	Joback Method
vc	0.314	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	133.95	J/mol×K	340.38	Joback Method
cpg	142.46	J/mol×K	369.28	Joback Method
cpg	150.67	J/mol×K	398.18	Joback Method
cpg	158.59	J/mol×K	427.07	Joback Method
cpg	166.23	J/mol×K	455.97	Joback Method
cpg	173.60	J/mol×K	484.87	Joback Method
cpg	180.69	J/mol×K	513.77	Joback Method
dvisc	0.0028355	Paxs	163.26	Joback Method
dvisc	0.0012426	Paxs	192.78	Joback Method

dvisc	0.0006780	Paxs	222.30	Joback Method
dvisc	0.0004264	Paxs	251.82	Joback Method
dvisc	0.0002955	Paxs	281.34	Joback Method
dvisc	0.0002196	Paxs	310.86	Joback Method
dvisc	0.0001718	Paxs	340.38	Joback Method

## 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=C4696257&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4696257&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>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mccvol:</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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