

# Ether, ethyl 4-methyl-1-pentyl, (E)

<b>Inchi:</b>	InChI=1S/C8H16O/c1-4-9-7-5-6-8(2)3/h5,7-8H,4,6H2,1-3H3/b7-5+
<b>InchiKey:</b>	PEGWCMWUBAGRKQ-FNORWQNLSA-N
<b>Formula:</b>	C8H16O
<b>SMILES:</b>	CCOC=CCC(C)C
<b>Mol. weight [g/mol]:</b>	128.21
<b>CAS:</b>	16969-14-5

## Physical Properties

Property code	Value	Unit	Source
gf	-10.74	kJ/mol	Joback Method
hf	-228.73	kJ/mol	Joback Method
hfus	14.34	kJ/mol	Joback Method
hvap	35.38	kJ/mol	Joback Method
log10ws	-2.37		Crippen Method
logp	2.583		Crippen Method
mcvol	125.150	ml/mol	McGowan Method
pc	2648.83	kPa	Joback Method
tb	408.58	K	Joback Method
tc	584.62	K	Joback Method
tf	182.07	K	Joback Method
vc	0.475	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	242.63	J/molxK	408.58	Joback Method
cpg	302.28	J/molxK	555.28	Joback Method
cpg	291.29	J/molxK	525.94	Joback Method
cpg	279.84	J/molxK	496.60	Joback Method
cpg	267.93	J/molxK	467.26	Joback Method
cpg	255.52	J/molxK	437.92	Joback Method
cpg	312.81	J/molxK	584.62	Joback Method
dvisc	0.0001752	Paxs	408.58	Joback Method
dvisc	0.0002362	Paxs	370.83	Joback Method

dvisc	0.0003409	Paxs	333.08	Joback Method
dvisc	0.0005403	Paxs	295.32	Joback Method
dvisc	0.0009800	Paxs	257.57	Joback Method
dvisc	0.0021811	Paxs	219.82	Joback Method
dvisc	0.0067640	Paxs	182.07	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=C16969145&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C16969145&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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