

# Pentane, 1-(2-propenyloxy)-

<b>Other names:</b>	Ether, allyl pentyl Allyl pentyl ether Pentyl allyl ether
<b>Inchi:</b>	InChI=1S/C8H16O/c1-3-5-6-8-9-7-4-2/h4H,2-3,5-8H2,1H3
<b>InchiKey:</b>	QHOPNDWHOHMZPV-UHFFFAOYSA-N
<b>Formula:</b>	C8H16O
<b>SMILES:</b>	C=CCOCCCCC
<b>Mol. weight [g/mol]:</b>	128.21
<b>CAS:</b>	23186-70-1

## Physical Properties

Property code	Value	Unit	Source
gf	-0.68	kJ/mol	Joback Method
hf	-215.24	kJ/mol	Joback Method
hfus	16.38	kJ/mol	Joback Method
hvap	35.14	kJ/mol	Joback Method
log10ws	-2.11		Crippen Method
logp	2.379		Crippen Method
mcvol	125.150	ml/mol	McGowan Method
pc	2600.43	kPa	Joback Method
tb	401.54	K	Joback Method
tc	568.77	K	Joback Method
tf	200.39	K	Joback Method
vc	0.482	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	242.31	J/mol×K	401.54	Joback Method
cpg	254.47	J/mol×K	429.41	Joback Method
cpg	266.21	J/mol×K	457.28	Joback Method
cpg	277.56	J/mol×K	485.15	Joback Method
cpg	288.50	J/mol×K	513.02	Joback Method
cpg	299.06	J/mol×K	540.90	Joback Method

cpg	309.23	J/mol×K	568.77	Joback Method
dvisc	0.0035637	Paxs	200.39	Joback Method
dvisc	0.0015989	Paxs	233.91	Joback Method
dvisc	0.0008770	Paxs	267.44	Joback Method
dvisc	0.0005499	Paxs	300.96	Joback Method
dvisc	0.0003786	Paxs	334.49	Joback Method
dvisc	0.0002790	Paxs	368.01	Joback Method
dvisc	0.0002164	Paxs	401.54	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=C23186701&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C23186701&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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