

# Allyl n-octyl ether

<b>Other names:</b>	Allyl octyl ether
<b>Inchi:</b>	InChI=1S/C11H22O/c1-3-5-6-7-8-9-11-12-10-4-2/h4H,2-3,5-11H2,1H3
<b>InchiKey:</b>	IELYMBBIHQDONA-UHFFFAOYSA-N
<b>Formula:</b>	C11H22O
<b>SMILES:</b>	C=CCOCCCCCCCC
<b>Mol. weight [g/mol]:</b>	170.29
<b>CAS:</b>	3295-97-4

## Physical Properties

Property code	Value	Unit	Source
gf	24.58	kJ/mol	Joback Method
hf	-277.16	kJ/mol	Joback Method
hfus	24.15	kJ/mol	Joback Method
hvap	41.82	kJ/mol	Joback Method
log10ws	-3.37		Crippen Method
logp	3.550		Crippen Method
mcvol	167.420	ml/mol	McGowan Method
pc	1977.07	kPa	Joback Method
tb	479.20 ± 1.00	K	NIST Webbook
tc	634.93	K	Joback Method
tf	212.20 ± 1.00	K	NIST Webbook
vc	0.650	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	370.42	J/mol×K	470.18	Joback Method
cpg	385.59	J/mol×K	497.64	Joback Method
cpg	400.22	J/mol×K	525.10	Joback Method
cpg	414.30	J/mol×K	552.56	Joback Method
cpg	427.86	J/mol×K	580.01	Joback Method
cpg	440.91	J/mol×K	607.47	Joback Method
cpg	453.44	J/mol×K	634.93	Joback Method
dvisc	0.0038824	Paxs	234.20	Joback Method

dvisc	0.0016405	Paxs	273.53	Joback Method
dvisc	0.0008608	Paxs	312.86	Joback Method
dvisc	0.0005217	Paxs	352.19	Joback Method
dvisc	0.0003496	Paxs	391.52	Joback Method
dvisc	0.0002521	Paxs	430.85	Joback Method
dvisc	0.0001920	Paxs	470.18	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=C3295974&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3295974&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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