

# Ether, hexyl isopropyl

<b>Other names:</b>	1-methylethyl hexyl ether
<b>Inchi:</b>	InChI=1S/C9H20O/c1-4-5-6-7-8-10-9(2)3/h9H,4-8H2,1-3H3
<b>InchiKey:</b>	RFMZJYFXGWPOSR-UHFFFAOYSA-N
<b>Formula:</b>	C9H20O
<b>SMILES:</b>	CCCCCOC(C)C
<b>Mol. weight [g/mol]:</b>	144.25
<b>CAS:</b>	18636-65-2

## Physical Properties

Property code	Value	Unit	Source
gf	-82.54	kJ/mol	Joback Method
hf	-366.59	kJ/mol	Joback Method
hfus	16.73	kJ/mol	Joback Method
hvap	37.65	kJ/mol	Joback Method
log10ws	-2.79		Crippen Method
logp	2.992		Crippen Method
mcvol	143.540	ml/mol	McGowan Method
pc	2287.14	kPa	Joback Method
tb	427.30	K	Joback Method
tc	594.17	K	Joback Method
tf	198.42	K	Joback Method
vc	0.551	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	298.83	J/molxK	427.30	Joback Method
cpg	313.00	J/molxK	455.11	Joback Method
cpg	326.70	J/molxK	482.92	Joback Method
cpg	339.94	J/molxK	510.74	Joback Method
cpg	352.71	J/molxK	538.55	Joback Method
cpg	365.04	J/molxK	566.36	Joback Method
cpg	376.92	J/molxK	594.17	Joback Method
dvisc	0.0071547	Paxs	198.42	Joback Method

dvisc	0.0024518	Paxs	236.57	Joback Method
dvisc	0.0011312	Paxs	274.71	Joback Method
dvisc	0.0006303	Paxs	312.86	Joback Method
dvisc	0.0003988	Paxs	351.01	Joback Method
dvisc	0.0002760	Paxs	389.15	Joback Method
dvisc	0.0002040	Paxs	427.30	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=C18636652&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C18636652&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>w<sub>s</sub>:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</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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