

# hop ether

<b>Inchi:</b>	InChI=1S/C10H16O/c1-7-4-5-9-8(7)6-11-10(9,2)3/h8-9H,1,4-6H2,2-3H3
<b>InchiKey:</b>	PSYUARCNI-ZCTFI-UHFFFAOYSA-N
<b>Formula:</b>	C10H16O
<b>SMILES:</b>	C=C1CCC2C1COC2(C)C
<b>Mol. weight [g/mol]:</b>	152.23
<b>CAS:</b>	19901-95-2

## Physical Properties

Property code	Value	Unit	Source
gf	84.38	kJ/mol	Joback Method
hf	-169.31	kJ/mol	Joback Method
hfus	15.32	kJ/mol	Joback Method
hvap	41.23	kJ/mol	Joback Method
log10ws	-2.37		Crippen Method
logp	2.378		Crippen Method
mvol	131.610	ml/mol	McGowan Method
pc	2934.52	kPa	Joback Method
ripol	1360.00		NIST Webbook
ripol	1362.00		NIST Webbook
tb	471.90	K	Joback Method
tc	686.91	K	Joback Method
tf	291.21	K	Joback Method
vc	0.495	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	304.93	J/mol×K	471.90	Joback Method
cpg	323.30	J/mol×K	507.73	Joback Method
cpg	340.36	J/mol×K	543.57	Joback Method
cpg	356.23	J/mol×K	579.40	Joback Method
cpg	371.07	J/mol×K	615.24	Joback Method
cpg	384.99	J/mol×K	651.07	Joback Method
cpg	398.13	J/mol×K	686.91	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C19901952&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C19901952&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>
<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>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>hvp:</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>ripl:</b>	Polar retention indices
<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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