

# Ethyl hexadecyl ether

<b>Inchi:</b>	InChI=1S/C18H38O/c1-3-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-4-2/h3-18H2,1-2H3
<b>InchiKey:</b>	QGFMFMPFLWUUIH-UHFFFAOYSA-N
<b>Formula:</b>	C18H38O
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOCC
<b>Mol. weight [g/mol]:</b>	270.49

## Physical Properties

Property code	Value	Unit	Source
gf	-4.32	kJ/mol	Joback Method
hf	-547.07	kJ/mol	Joback Method
hfus	43.56	kJ/mol	Joback Method
hvap	58.07	kJ/mol	Joback Method
log10ws	-6.44		Crippen Method
logp	6.504		Crippen Method
mvol	270.350	ml/mol	McGowan Method
pc	1139.03	kPa	Joback Method
rinpol	1893.00		NIST Webbook
rinpol	1893.00		NIST Webbook
tb	633.66	K	Joback Method
tc	793.51	K	Joback Method
tf	314.85	K	Joback Method
vc	1.062	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	756.63	J/molxK	633.66	Joback Method
cpg	776.45	J/molxK	660.30	Joback Method
cpg	795.50	J/molxK	686.94	Joback Method
cpg	813.78	J/molxK	713.58	Joback Method
cpg	831.31	J/molxK	740.23	Joback Method
cpg	848.10	J/molxK	766.87	Joback Method
cpg	864.19	J/molxK	793.51	Joback Method
dvisc	0.0028718	Paxs	314.85	Joback Method

dvisc	0.0010825	Paxs	367.99	Joback Method
dvisc	0.0005220	Paxs	421.12	Joback Method
dvisc	0.0002964	Paxs	474.25	Joback Method
dvisc	0.0001886	Paxs	527.39	Joback Method
dvisc	0.0001304	Paxs	580.52	Joback Method
dvisc	0.0000959	Paxs	633.66	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=U406364&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406364&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>

## 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>rinpol:</b>	Non-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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