

# Ethyl ethoxymethyl ketone

<b>Inchi:</b>	InChI=1S/C6H12O2/c1-3-6(7)5-8-4-2/h3-5H2,1-2H3
<b>InchiKey:</b>	FRFMOVPIHHDDPP-UHFFFAOYSA-N
<b>Formula:</b>	C6H12O2
<b>SMILES:</b>	CCOCC(=O)CC
<b>Mol. weight [g/mol]:</b>	116.16
<b>CAS:</b>	76086-05-0

## Physical Properties

Property code	Value	Unit	Source
chl	-3636.10 ± 0.70	kJ/mol	NIST Webbook
gf	-234.28	kJ/mol	Joback Method
hf	-411.97	kJ/mol	Joback Method
hfl	-440.00 ± 0.70	kJ/mol	NIST Webbook
hfus	14.08	kJ/mol	Joback Method
hvap	38.11	kJ/mol	Joback Method
log10ws	-0.70		Crippen Method
logp	1.002		Crippen Method
mcvol	102.840	ml/mol	McGowan Method
pc	3272.78	kPa	Joback Method
tb	412.97	K	Joback Method
tc	590.55	K	Joback Method
tf	229.54	K	Joback Method
vc	0.396	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	199.87	J/mol×K	412.97	Joback Method
cpg	245.98	J/mol×K	560.96	Joback Method
cpg	237.38	J/mol×K	531.36	Joback Method
cpg	228.47	J/mol×K	501.76	Joback Method
cpg	219.25	J/mol×K	472.16	Joback Method
cpg	209.71	J/mol×K	442.57	Joback Method
cpg	254.27	J/mol×K	590.55	Joback Method

dvisc	0.0002729	Paxs	412.97	Joback Method
dvisc	0.0003472	Paxs	382.40	Joback Method
dvisc	0.0004605	Paxs	351.83	Joback Method
dvisc	0.0006447	Paxs	321.25	Joback Method
dvisc	0.0009687	Paxs	290.68	Joback Method
dvisc	0.0016017	Paxs	260.11	Joback Method
dvisc	0.0030279	Paxs	229.54	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=C76086050&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C76086050&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>chl:</b>	Standard liquid enthalpy of combustion
<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>hfl:</b>	Liquid phase 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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