

# 2-Butene, 2-ethoxy-3-methyl-

<b>Inchi:</b>	InChI=1S/C7H14O/c1-5-8-7(4)6(2)3/h5H2,1-4H3
<b>InchiKey:</b>	WMOSNOOGNZJNJR-UHFFFAOYSA-N
<b>Formula:</b>	C7H14O
<b>SMILES:</b>	CCOC(C)=C(C)C
<b>Mol. weight [g/mol]:</b>	114.19
<b>CAS:</b>	36880-68-9

## Physical Properties

Property code	Value	Unit	Source
gf	-33.82	kJ/mol	Joback Method
hf	-222.39	kJ/mol	Joback Method
hfus	12.66	kJ/mol	Joback Method
hvap	33.70	kJ/mol	Joback Method
log10ws	-2.19		Crippen Method
logp	2.337		Crippen Method
mcvol	111.060	ml/mol	McGowan Method
pc	2937.70	kPa	Joback Method
tb	385.90	K	Joback Method
tc	565.74	K	Joback Method
tf	157.88	K	Joback Method
vc	0.427	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	203.96	J/molxK	385.90	Joback Method
cpg	215.66	J/molxK	415.87	Joback Method
cpg	226.91	J/molxK	445.85	Joback Method
cpg	237.72	J/molxK	475.82	Joback Method
cpg	248.11	J/molxK	505.79	Joback Method
cpg	258.09	J/molxK	535.77	Joback Method
cpg	267.66	J/molxK	565.74	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=C36880689&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C36880689&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>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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