

# 2-Butene, 2-methoxy-, (Z)-

<b>Inchi:</b>	InChI=1S/C5H10O/c1-4-5(2)6-3/h4H,1-3H3/b5-4+
<b>InchiKey:</b>	JWBPCSXRWORRAI-SNAWJCMRSA-N
<b>Formula:</b>	C5H10O
<b>SMILES:</b>	CC=C(C)OC
<b>Mol. weight [g/mol]:</b>	86.13
<b>CAS:</b>	25125-85-3

## Physical Properties

Property code	Value	Unit	Source
gf	-42.11	kJ/mol	Joback Method
hf	-171.32	kJ/mol	Joback Method
hfus	8.79	kJ/mol	Joback Method
hvap	29.17	kJ/mol	Joback Method
log10ws	-1.35		Crippen Method
logp	1.556		Crippen Method
mcvol	82.880	ml/mol	McGowan Method
pc	3637.73	kPa	Joback Method
tb	340.26	K	Joback Method
tc	517.30	K	Joback Method
tf	149.30	K	Joback Method
vc	0.315	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	134.00	J/molxK	340.26	Joback Method
cpg	142.65	J/molxK	369.77	Joback Method
cpg	151.00	J/molxK	399.27	Joback Method
cpg	159.04	J/molxK	428.78	Joback Method
cpg	166.79	J/molxK	458.28	Joback Method
cpg	174.26	J/molxK	487.79	Joback Method
cpg	181.44	J/molxK	517.30	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=C25125853&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C25125853&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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