

# 1-Methoxy-3-methyl-2-butene

<b>Other names:</b>	Isopentenyl methyl ether
<b>Inchi:</b>	InChI=1S/C6H12O/c1-6(2)4-5-7-3/h4H,5H2,1-3H3
<b>InchiKey:</b>	MVQDNWRPFWUJRQ-UHFFFAOYSA-N
<b>Formula:</b>	C6H12O
<b>SMILES:</b>	COCC=C(C)C
<b>Mol. weight [g/mol]:</b>	100.16
<b>CAS:</b>	22093-99-8

## Physical Properties

Property code	Value	Unit	Source
gf	-33.69	kJ/mol	Joback Method
hf	-191.96	kJ/mol	Joback Method
hfus	11.38	kJ/mol	Joback Method
hvap	31.40	kJ/mol	Joback Method
log10ws	-1.27		Crippen Method
logp	1.599		Crippen Method
mcvol	96.970	ml/mol	McGowan Method
pc	3250.43	kPa	Joback Method
rinpol	676.00		NIST Webbook
rinpol	676.00		NIST Webbook
tb	363.14	K	Joback Method
tc	540.00	K	Joback Method
tf	160.57	K	Joback Method
vc	0.370	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	167.72	J/molxK	363.14	Joback Method
cpg	177.87	J/molxK	392.62	Joback Method
cpg	187.64	J/molxK	422.09	Joback Method
cpg	197.05	J/molxK	451.57	Joback Method
cpg	206.10	J/molxK	481.05	Joback Method
cpg	214.81	J/molxK	510.52	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C22093998&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C22093998&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>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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