

# 1-Pentene, 2-methoxy-4,4-dimethyl-

<b>Other names:</b>	4,4-Dimethyl-2-methoxy-1-pentene
<b>Inchi:</b>	InChI=1S/C8H16O/c1-7(9-5)6-8(2,3)4/h1,6H2,2-5H3
<b>InchiKey:</b>	LSHQWPNTYWQCMU-UHFFFAOYSA-N
<b>Formula:</b>	C8H16O
<b>SMILES:</b>	C=C(CC(C)(C)C)OC
<b>Mol. weight [g/mol]:</b>	128.21
<b>CAS:</b>	66017-25-2

## Physical Properties

Property code	Value	Unit	Source
gf	-6.39	kJ/mol	Joback Method
hf	-233.78	kJ/mol	Joback Method
hfus	7.66	kJ/mol	Joback Method
hvap	33.93	kJ/mol	Joback Method
log10ws	-2.37		Crippen Method
logp	2.583		Crippen Method
mcvol	125.150	ml/mol	McGowan Method
pc	2665.27	kPa	Joback Method
tb	398.19	K	Joback Method
tc	579.86	K	Joback Method
tf	188.85	K	Joback Method
vc	0.472	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	243.78	J/mol×K	398.19	Joback Method
cpg	257.62	J/mol×K	428.47	Joback Method
cpg	270.82	J/mol×K	458.75	Joback Method
cpg	283.42	J/mol×K	489.02	Joback Method
cpg	295.43	J/mol×K	519.30	Joback Method
cpg	306.87	J/mol×K	549.58	Joback Method
cpg	317.76	J/mol×K	579.86	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C66017252&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C66017252&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>
<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>hvp:</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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