

# 4-Methoxy-4-methyl-2-pentanol

<b>Other names:</b>	2-Pentanol, 4-methoxy-4-methyl- 4-Methyl-4-methoxy-2-pentanol
<b>Inchi:</b>	InChI=1S/C7H16O2/c1-6(8)5-7(2,3)9-4/h6,8H,5H2,1-4H3
<b>InchiKey:</b>	OMSLSFZIEVFEIH-UHFFFAOYSA-N
<b>Formula:</b>	C7H16O2
<b>SMILES:</b>	COC(C)(C)CC(C)O
<b>Mol. weight [g/mol]:</b>	132.20
<b>CAS:</b>	141-73-1

## Physical Properties

Property code	Value	Unit	Source
gf	-233.36	kJ/mol	Joback Method
hf	-486.29	kJ/mol	Joback Method
hfus	8.22	kJ/mol	Joback Method
hvap	48.58	kJ/mol	Joback Method
log10ws	-1.33		Crippen Method
logp	1.182		Crippen Method
mcvol	121.230	ml/mol	McGowan Method
pc	3127.99	kPa	Joback Method
tb	470.49	K	Joback Method
tc	643.77	K	Joback Method
tf	239.12	K	Joback Method
vc	0.448	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	274.42	J/molxK	470.49	Joback Method
cpg	286.06	J/molxK	499.37	Joback Method
cpg	297.20	J/molxK	528.25	Joback Method
cpg	307.84	J/molxK	557.13	Joback Method
cpg	318.00	J/molxK	586.01	Joback Method
cpg	327.70	J/molxK	614.89	Joback Method
cpg	336.95	J/molxK	643.77	Joback Method

dvisc	0.0888370	Paxs	239.12	Joback Method
dvisc	0.0147686	Paxs	277.68	Joback Method
dvisc	0.0038030	Paxs	316.24	Joback Method
dvisc	0.0013152	Paxs	354.81	Joback Method
dvisc	0.0005601	Paxs	393.37	Joback Method
dvisc	0.0002778	Paxs	431.93	Joback Method
dvisc	0.0001546	Paxs	470.49	Joback Method
hvapt	46.60	kJ/mol	383.00	NIST Webbook

## 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=C141731&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C141731&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>dvisc:</b>	Dynamic viscosity
<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>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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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