

# 1,1-Dimethoxy-3-methylbutane

<b>Inchi:</b>	InChI=1S/C7H16O2/c1-6(2)5-7(8-3)9-4/h6-7H,5H2,1-4H3
<b>InchiKey:</b>	PLMBSQKUMOJZNE-UHFFFAOYSA-N
<b>Formula:</b>	C7H16O2
<b>SMILES:</b>	COC(CC(C)C)OC
<b>Mol. weight [g/mol]:</b>	132.20
<b>CAS:</b>	57094-35-6

## Physical Properties

Property code	Value	Unit	Source
gf	-206.82	kJ/mol	Joback Method
hf	-462.81	kJ/mol	Joback Method
hfus	9.22	kJ/mol	Joback Method
hvap	35.22	kJ/mol	Joback Method
log10ws	-1.29		Crippen Method
logp	1.651		Crippen Method
mcvol	121.230	ml/mol	McGowan Method
pc	2746.90	kPa	Joback Method
tb	403.52	K	Joback Method
tc	575.91	K	Joback Method
tf	183.11	K	Joback Method
vc	0.452	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	242.27	J/molxK	403.52	Joback Method
cpg	298.81	J/molxK	547.18	Joback Method
cpg	288.15	J/molxK	518.45	Joback Method
cpg	277.17	J/molxK	489.72	Joback Method
cpg	265.86	J/molxK	460.98	Joback Method
cpg	254.22	J/molxK	432.25	Joback Method
cpg	309.12	J/molxK	575.91	Joback Method
dvisc	0.0001850	Paxs	403.52	Joback Method
dvisc	0.0002547	Paxs	366.78	Joback Method

dvisc	0.0003767	Paxs	330.05	Joback Method
dvisc	0.0006145	Paxs	293.31	Joback Method
dvisc	0.0011530	Paxs	256.58	Joback Method
dvisc	0.0026699	Paxs	219.84	Joback Method
dvisc	0.0086595	Paxs	183.11	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C57094356&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C57094356&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>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>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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