

# 3,4-Dimethylbenzyl alcohol

<b>Other names:</b>	Benzenemethanol, 3,4-dimethyl-
<b>Inchi:</b>	InChI=1S/C9H12O/c1-7-3-4-9(6-10)5-8(7)2/h3-5,10H,6H2,1-2H3
<b>InchiKey:</b>	OKGZCXPDJKKZAP-UHFFFAOYSA-N
<b>Formula:</b>	C9H12O
<b>SMILES:</b>	Cc1ccc(CO)cc1C
<b>Mol. weight [g/mol]:</b>	136.19
<b>CAS:</b>	6966-10-5

## Physical Properties

Property code	Value	Unit	Source
gf	-18.77	kJ/mol	Joback Method
hf	-167.73	kJ/mol	Joback Method
hfus	16.42	kJ/mol	Joback Method
hvap	55.91	kJ/mol	Joback Method
log10ws	-2.57		Crippen Method
logp	1.796		Crippen Method
mcvol	119.780	ml/mol	McGowan Method
pc	3505.43	kPa	Joback Method
rinpol	1113.00		NIST Webbook
rinpol	1113.00		NIST Webbook
tb	492.70	K	NIST Webbook
tc	731.21	K	Joback Method
tf	303.47	K	Joback Method
vc	0.451	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	266.07	J/molxK	534.14	Joback Method
cpg	315.91	J/molxK	698.37	Joback Method
cpg	306.97	J/molxK	665.52	Joback Method
cpg	297.54	J/molxK	632.68	Joback Method
cpg	287.59	J/molxK	599.83	Joback Method
cpg	277.11	J/molxK	566.99	Joback Method

cpg	324.37	J/mol×K	731.21	Joback Method
dvisc	0.0001123	Paxs	534.14	Joback Method
dvisc	0.0001689	Paxs	495.69	Joback Method
dvisc	0.0002719	Paxs	457.25	Joback Method
dvisc	0.0004778	Paxs	418.81	Joback Method
dvisc	0.0009411	Paxs	380.36	Joback Method
dvisc	0.0021587	Paxs	341.92	Joback Method
dvisc	0.0061106	Paxs	303.47	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C6966105&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6966105&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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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