

# 3,5-dichlorobenzyl alcohol

<b>Other names:</b>	3,5-Dichlorobenzyl alcohol
<b>Inchi:</b>	InChI=1S/C7H6Cl2O/c8-6-1-5(4-10)2-7(9)3-6/h1-3,10H,4H2
<b>InchiKey:</b>	VSNLLQKDRCKCB-UHFFFAOYSA-N
<b>Formula:</b>	C7H6Cl2O
<b>SMILES:</b>	OCc1cc(Cl)cc(Cl)c1
<b>Mol. weight [g/mol]:</b>	177.03
<b>CAS:</b>	60211-57-6

## Physical Properties

Property code	Value	Unit	Source
gf	-59.47	kJ/mol	Joback Method
hf	-157.93	kJ/mol	Joback Method
hfus	19.63	kJ/mol	Joback Method
hvap	60.22	kJ/mol	Joback Method
log10ws	-2.98		Crippen Method
logp	2.486		Crippen Method
mcvol	116.080	ml/mol	McGowan Method
pc	4051.80	kPa	Joback Method
tb	563.24	K	Joback Method
tc	775.59	K	Joback Method
tf	340.77	K	Joback Method
vc	0.436	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	224.64	J/molxK	563.24	Joback Method
cpg	232.32	J/molxK	598.63	Joback Method
cpg	239.53	J/molxK	634.02	Joback Method
cpg	246.28	J/molxK	669.42	Joback Method
cpg	252.60	J/molxK	704.81	Joback Method
cpg	258.50	J/molxK	740.20	Joback Method
cpg	264.01	J/molxK	775.59	Joback Method
dvisc	0.0037516	Paxs	340.77	Joback Method

dvisc	0.0015984	Paxs	377.85	Joback Method
dvisc	0.0007932	Paxs	414.93	Joback Method
dvisc	0.0004416	Paxs	452.00	Joback Method
dvisc	0.0002687	Paxs	489.08	Joback Method
dvisc	0.0001753	Paxs	526.16	Joback Method
dvisc	0.0001210	Paxs	563.24	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C60211576&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C60211576&amp;Units=SI</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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