

# 2-Chloro-5-nitrobenzyl alcohol, 3-methylbutyl ether

Inchi:	InChI=1S/C12H16ClNO3/c1-9(2)5-6-17-8-10-7-11(14(15)16)3-4-12(10)13/h3-4,7,9H,5-6,
InchiKey:	QYVSKUWQRXVOKJ-UHFFFAOYSA-N
Formula:	C12H16ClNO3
SMILES:	CC(C)CCOCc1cc([N+](=O)[O-])ccc1Cl
Mol. weight [g/mol]:	257.71

## Physical Properties

Property code	Value	Unit	Source
gf	59.49	kJ/mol	Joback Method
hf	-241.42	kJ/mol	Joback Method
hfus	33.32	kJ/mol	Joback Method
hvap	68.90	kJ/mol	Joback Method
log10ws	-4.63		Crippen Method
logp	3.811		Crippen Method
mcvol	191.710	ml/mol	McGowan Method
pc	2261.11	kPa	Joback Method
rinpol	1893.00		NIST Webbook
rinpol	1893.00		NIST Webbook
tb	721.85	K	Joback Method
tc	952.43	K	Joback Method
tf	457.22	K	Joback Method
vc	0.743	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	507.91	J/mol×K	721.85	Joback Method
cpg	521.80	J/mol×K	760.28	Joback Method
cpg	534.71	J/mol×K	798.71	Joback Method
cpg	546.66	J/mol×K	837.14	Joback Method
cpg	557.69	J/mol×K	875.57	Joback Method
cpg	567.82	J/mol×K	914.00	Joback Method
cpg	577.07	J/mol×K	952.43	Joback Method

# 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=U378157&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U378157&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>rinp:</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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