

# 3-Chlorobenzyl alcohol

**Other names:** Benzenemethanol, 3-chloro-; m-Chlorobenzyl alcohol.

**InChI:** InChI=1S/C7H7ClO/c8-7-3-1-2-6(4-7)5-9/h1-4,9H,5H2

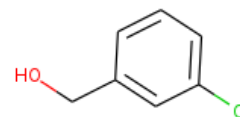
**InChI Key:** ZSRDNPVYGSFUMD-UHFFFAOYSA-N

**Formula:** C7H7ClO

**SMILES:** OCC1CCCC(Cl)C1

**Molecular Weight:** 142.58

**CAS:** 873-63-2



## Physical Properties

Property	Value	Unit	Source
$\Delta_f G^\circ$	-37.91	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	-130.72	kJ/mol	Joback Method
$\Delta_{\text{fus}} H^\circ$	15.82	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	55.18	kJ/mol	Joback Method
IE	8.51	eV	NIST Webbook
$\log P_{\text{oct/wat}}$	1.83		Crippen Method
$P_c$	4333.96	kPa	Joback Method
$T_{\text{boil}}$	510.20	K	NIST Webbook
$T_c$	727.48	K	Joback Method
$T_{\text{fus}}$	298.33	K	Joback Method
$V_c$	0.39	m <sup>3</sup> /kg-mol	Joback Method

## Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,\text{gas}}$	204.63	J/molxK	520.83	Joback Method
$\eta$	0.00	Paxs	520.83	Joback Method

## Sources

**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

**NIST Webbook:** [http://webbook.nist.gov/cgi/inchi/InChI=1S/C7H7ClO/c8-7-3-1-2-6\(4-7\)5-9/h1-4,9H,5H2](http://webbook.nist.gov/cgi/inchi/InChI=1S/C7H7ClO/c8-7-3-1-2-6(4-7)5-9/h1-4,9H,5H2)

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

## Legend

$C_{p, \text{gas}}$ : Ideal gas heat capacity (J/mol $\times$ K).

$\eta$ : Dynamic viscosity (Pa $\times$ s).

$\Delta_f G^\circ$ : Standard Gibbs free energy of formation (kJ/mol).

$\Delta_f H^\circ_{\text{gas}}$ : Enthalpy of formation at standard conditions (kJ/mol).

$\Delta_{\text{fus}} H^\circ$ : Enthalpy of fusion at standard conditions (kJ/mol).

$\Delta_{\text{vap}} H^\circ$ : Enthalpy of vaporization at standard conditions (kJ/mol).

**IE**: Ionization energy (eV).

**logP<sub>oct/wat</sub>**: Octanol/Water partition coefficient .

**P<sub>c</sub>**: Critical Pressure (kPa).

**T<sub>boil</sub>**: Normal Boiling Point Temperature (K).

**T<sub>c</sub>**: Critical Temperature (K).

**T<sub>fus</sub>**: Normal melting (fusion) point (K).

**V<sub>c</sub>**: Critical Volume (m<sup>3</sup>/kg-mol).

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