

# 2,3,6-trichloro-4-hydroxybenzaldehyde

<b>Other names:</b>	Benzaldehyde, 2,3,6-trichloro-4-hydroxy
<b>Inchi:</b>	InChI=1S/C7H3Cl3O2/c8-4-1-5(12)7(10)6(9)3(4)2-11/h1-2,12H
<b>InchiKey:</b>	HQMGHZKFGOUUNY-UHFFFAOYSA-N
<b>Formula:</b>	C7H3Cl3O2
<b>SMILES:</b>	O=Cc1c(Cl)cc(O)c(Cl)c1Cl
<b>Mol. weight [g/mol]:</b>	225.46

## Physical Properties

Property code	Value	Unit	Source
gf	-198.35	kJ/mol	Joback Method
hf	-295.80	kJ/mol	Joback Method
hfus	27.42	kJ/mol	Joback Method
hvap	68.33	kJ/mol	Joback Method
log10ws	-3.32		Crippen Method
logp	3.165		Crippen Method
mcvol	129.890	ml/mol	McGowan Method
pc	4492.23	kPa	Joback Method
rinpol	1651.00		NIST Webbook
rinpol	1678.00		NIST Webbook
rinpol	1665.00		NIST Webbook
rinpol	1651.00		NIST Webbook
rinpol	1651.00		NIST Webbook
rinpol	1651.00		NIST Webbook
rinpol	1664.00		NIST Webbook
rinpol	1675.00		NIST Webbook
rinpol	1672.00		NIST Webbook
tb	642.75	K	Joback Method
tc	891.37	K	Joback Method
tf	476.11	K	Joback Method
vc	0.450	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	249.64	J/molxK	642.75	Joback Method
cpg	255.42	J/molxK	684.19	Joback Method
cpg	260.77	J/molxK	725.62	Joback Method
cpg	265.76	J/molxK	767.06	Joback Method
cpg	270.47	J/molxK	808.50	Joback Method
cpg	274.98	J/molxK	849.94	Joback Method
cpg	279.36	J/molxK	891.37	Joback Method
dvisc	0.0003900	Paxs	476.11	Joback Method
dvisc	0.0002435	Paxs	503.88	Joback Method
dvisc	0.0001597	Paxs	531.66	Joback Method
dvisc	0.0001092	Paxs	559.43	Joback Method
dvisc	0.0000774	Paxs	587.20	Joback Method
dvisc	0.0000566	Paxs	614.98	Joback Method
dvisc	0.0000425	Paxs	642.75	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R45500&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R45500&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>
<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>rinpolar:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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