

# 2,3,6-Trichlorobenzaldehyde

<b>Other names:</b>	Benzaldehyde, 2,3,6-trichloro-
<b>Inchi:</b>	InChI=1S/C7H3Cl3O/c8-5-1-2-6(9)7(10)4(5)3-11/h1-3H
<b>InchiKey:</b>	AURSMWWOMOVHBM-UHFFFAOYSA-N
<b>Formula:</b>	C7H3Cl3O
<b>SMILES:</b>	O=Cc1c(Cl)ccc(Cl)c1Cl
<b>Mol. weight [g/mol]:</b>	209.46
<b>CAS:</b>	4659-47-6

## Physical Properties

Property code	Value	Unit	Source
gf	-43.73	kJ/mol	Joback Method
hf	-118.49	kJ/mol	Joback Method
hfus	21.64	kJ/mol	Joback Method
hvap	55.31	kJ/mol	Joback Method
log10ws	-3.77		Crippen Method
logp	3.459		Crippen Method
mcvol	124.020	ml/mol	McGowan Method
pc	3713.49	kPa	Joback Method
tb	562.13	K	Joback Method
tc	801.27	K	Joback Method
tf	364.39	K	Joback Method
vc	0.483	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	216.23	J/molxK	562.13	Joback Method
cpg	223.17	J/molxK	601.99	Joback Method
cpg	229.61	J/molxK	641.84	Joback Method
cpg	235.58	J/molxK	681.70	Joback Method
cpg	241.09	J/molxK	721.56	Joback Method
cpg	246.17	J/molxK	761.42	Joback Method
cpg	250.83	J/molxK	801.27	Joback Method
dvisc	0.0015051	Paxs	364.39	Joback Method

dvisc	0.0010563	Paxs	397.35	Joback Method
dvisc	0.0007826	Paxs	430.30	Joback Method
dvisc	0.0006051	Paxs	463.26	Joback Method
dvisc	0.0004841	Paxs	496.22	Joback Method
dvisc	0.0003982	Paxs	529.17	Joback Method
dvisc	0.0003352	Paxs	562.13	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=C4659476&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4659476&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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