

Benzaldehyde, 4,5,6-trichloro-2-hydroxy

Inchi:	InChI=1S/C7H3Cl3O2/c8-4-1-5(12)3(2-11)6(9)7(4)10/h1-2,12H
InchiKey:	DSYXJIUEIAOOAD-UHFFFAOYSA-N
Formula:	C7H3Cl3O2
SMILES:	O=Cc1c(O)cc(Cl)c(Cl)c1Cl
Mol. weight [g/mol]:	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	1510.00		NIST Webbook
rinpol	1510.00		NIST Webbook
rinpol	1510.00		NIST Webbook
rinpol	1510.00		NIST Webbook
rinpol	1505.00		NIST Webbook
rinpol	1481.00		NIST Webbook
rinpol	1514.00		NIST Webbook
rinpol	1530.00		NIST Webbook
rinpol	1489.00		NIST Webbook
rinpol	1514.00		NIST Webbook
tb	642.75	K	Joback Method
tc	891.37	K	Joback Method
tf	476.11	K	Joback Method
vc	0.450	m ³ /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	274.98	J/molxK	849.94	Joback Method
cpg	270.47	J/molxK	808.50	Joback Method
cpg	265.76	J/molxK	767.06	Joback Method
cpg	260.77	J/molxK	725.62	Joback Method
cpg	255.42	J/molxK	684.19	Joback Method
cpg	279.36	J/molxK	891.37	Joback Method
dvisc	0.0000425	Paxs	642.75	Joback Method
dvisc	0.0000566	Paxs	614.98	Joback Method
dvisc	0.0000774	Paxs	587.20	Joback Method
dvisc	0.0001092	Paxs	559.43	Joback Method
dvisc	0.0001597	Paxs	531.66	Joback Method
dvisc	0.0002435	Paxs	503.88	Joback Method
dvisc	0.0003900	Paxs	476.11	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R45596&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

tf: Normal melting (fusion) point

vc: Critical Volume

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