

# 2,5-Dihydroxybenzaldehyde

<b>Other names:</b>	Gentisaldehyde Benzaldehyde, 2,5-dihydroxy-
<b>Inchi:</b>	InChI=1S/C7H6O3/c8-4-5-3-6(9)1-2-7(5)10/h1-4,9-10H
<b>InchiKey:</b>	CLFRCXCBWIQVRN-UHFFFAOYSA-N
<b>Formula:</b>	C7H6O3
<b>SMILES:</b>	O=Cc1cc(O)ccc1O
<b>Mol. weight [g/mol]:</b>	138.12
<b>CAS:</b>	1194-98-5

## Physical Properties

Property code	Value	Unit	Source
gf	-288.29	kJ/mol	Joback Method
hf	-391.48	kJ/mol	Joback Method
hfus	21.78	kJ/mol	Joback Method
hvap	66.20	kJ/mol	Joback Method
log10ws	-0.81		Crippen Method
logp	0.910		Crippen Method
mvol	99.040	ml/mol	McGowan Method
pc	7097.39	kPa	Joback Method
tb	596.14	K	Joback Method
tc	841.41	K	Joback Method
tf	460.51	K	Joback Method
vc	0.269	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	235.91	J/molxK	596.14	Joback Method
cpg	268.22	J/molxK	800.53	Joback Method
cpg	262.52	J/molxK	759.65	Joback Method
cpg	256.59	J/molxK	718.78	Joback Method
cpg	250.27	J/molxK	677.90	Joback Method
cpg	243.43	J/molxK	637.02	Joback Method
cpg	273.83	J/molxK	841.41	Joback Method

dvisc	0.0000096	Paxs	596.14	Joback Method
dvisc	0.0000146	Paxs	573.53	Joback Method
dvisc	0.0000227	Paxs	550.93	Joback Method
dvisc	0.0000368	Paxs	528.33	Joback Method
dvisc	0.0000623	Paxs	505.72	Joback Method
dvisc	0.0001108	Paxs	483.12	Joback Method
dvisc	0.0002085	Paxs	460.51	Joback Method

## Sources

<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=C1194985&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1194985&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>

## 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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