

# Benzaldehyde, 2-hydroxy-5-methoxy-

<b>Other names:</b>	m-Anisaldehyde, 6-hydroxy- 2-Formyl-4-methoxyphenol 2-Hydroxy-5-methoxybenzaldehyde 5-Methoxysalicylaldehyde Salicylaldehyde, 5-methoxy- 5-Methoxy-2-hydroxybenzaldehyde Hmb 6-Hydroxy-m-anisaldehyde
<b>Inchi:</b>	InChI=1S/C8H8O3/c1-11-7-2-3-8(10)6(4-7)5-9/h2-5,10H,1H3
<b>InchiKey:</b>	FZHSPPYCNDYIKD-UHFFFAOYSA-N
<b>Formula:</b>	C8H8O3
<b>SMILES:</b>	<chem>COc1ccc(O)c(C=O)c1</chem>
<b>Mol. weight [g/mol]:</b>	152.15
<b>CAS:</b>	672-13-9

## Physical Properties

Property code	Value	Unit	Source
gf	-239.88	kJ/mol	Joback Method
hf	-378.50	kJ/mol	Joback Method
hfus	19.39	kJ/mol	Joback Method
hvap	58.48	kJ/mol	Joback Method
log10ws	-1.38		Crippen Method
logp	1.213		Crippen Method
mcvol	113.130	ml/mol	McGowan Method
pc	4665.71	kPa	Joback Method
rinpol	1318.60		NIST Webbook
rinpol	1318.60		NIST Webbook
tb	520.70	K	NIST Webbook
tc	793.56	K	Joback Method
tf	394.81	K	Joback Method
vc	0.377	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	259.74	J/mol×K	565.80	Joback Method
cpg	269.43	J/mol×K	603.76	Joback Method
cpg	278.48	J/mol×K	641.72	Joback Method
cpg	286.94	J/mol×K	679.68	Joback Method
cpg	294.87	J/mol×K	717.64	Joback Method
cpg	302.31	J/mol×K	755.60	Joback Method
cpg	309.32	J/mol×K	793.56	Joback Method
dvisc	0.0010401	Paxs	394.81	Joback Method
dvisc	0.0005373	Paxs	423.31	Joback Method
dvisc	0.0003017	Paxs	451.81	Joback Method
dvisc	0.0001814	Paxs	480.30	Joback Method
dvisc	0.0001155	Paxs	508.80	Joback Method
dvisc	0.0000771	Paxs	537.30	Joback Method
dvisc	0.0000536	Paxs	565.80	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	376.20	K	0.40	NIST Webbook

## Sources

<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=C672139&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C672139&amp;Units=SI</a>
<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>

## 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>rinpola:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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