

# Benzaldehyde, 3-ethoxy-2-hydroxy-

<b>Other names:</b>	3-Ethoxy-2-hydroxybenzaldehyde 3-Ethoxy-2-hydroxybenzaldehyde 3-Ethoxysalicylaldehyde Novovanillin Salicylaldehyde, 3-ethoxy-
<b>Inchi:</b>	InChI=1S/C9H10O3/c1-2-12-8-5-3-4-7(6-10)9(8)11/h3-6,11H,2H2,1H3
<b>InchiKey:</b>	OFQBYHLLIJGMNP-UHFFFAOYSA-N
<b>Formula:</b>	C9H10O3
<b>SMILES:</b>	CCOc1cccc(C=O)c1O
<b>Mol. weight [g/mol]:</b>	166.17
<b>CAS:</b>	492-88-6

## Physical Properties

Property code	Value	Unit	Source
gf	-231.46	kJ/mol	Joback Method
hf	-399.14	kJ/mol	Joback Method
hfus	25.43	kJ/mol	Influence of the aromatic ring substituents on phase equilibria of vanillins in binary systems with CO2
hvap	60.71	kJ/mol	Joback Method
log10ws	-1.80		Crippen Method
logp	1.603		Crippen Method
mcvol	127.220	ml/mol	McGowan Method
pc	4109.14	kPa	Joback Method
tb	588.68	K	Joback Method
tc	812.18	K	Joback Method
tf	406.08	K	Joback Method
vc	0.432	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	304.26	J/molxK	588.68	Joback Method
cpg	314.95	J/molxK	625.93	Joback Method

cpg	324.97	J/molxK	663.18	Joback Method
cpg	334.37	J/molxK	700.43	Joback Method
cpg	343.20	J/molxK	737.68	Joback Method
cpg	351.51	J/molxK	774.93	Joback Method
cpg	359.35	J/molxK	812.18	Joback Method
dvisc	0.0008942	Paxs	406.08	Joback Method
dvisc	0.0004525	Paxs	436.51	Joback Method
dvisc	0.0002502	Paxs	466.95	Joback Method
dvisc	0.0001488	Paxs	497.38	Joback Method
dvisc	0.0000939	Paxs	527.81	Joback Method
dvisc	0.0000623	Paxs	558.25	Joback Method
dvisc	0.0000432	Paxs	588.68	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>Influence of the aromatic ring substituents on phase equilibria of Joback Method binary systems with CO<sub>2</sub>:</b>	<a href="https://www.doi.org/10.1016/j.fluid.2004.12.012">https://www.doi.org/10.1016/j.fluid.2004.12.012</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=C492886&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C492886&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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