

# 2,6-Dimethoxybenzaldehyde

<b>Other names:</b>	Benzaldehyde, 2,6-dimethoxy-
<b>Inchi:</b>	InChI=1S/C9H10O3/c1-11-8-4-3-5-9(12-2)7(8)6-10/h3-6H,1-2H3
<b>InchiKey:</b>	WXSGQHKHUYTJNB-UHFFFAOYSA-N
<b>Formula:</b>	C9H10O3
<b>SMILES:</b>	<chem>COc1cccc(OC)c1C=O</chem>
<b>Mol. weight [g/mol]:</b>	166.17
<b>CAS:</b>	3392-97-0

## Physical Properties

Property code	Value	Unit	Source
gf	-191.47	kJ/mol	Joback Method
hf	-365.52	kJ/mol	Joback Method
hfus	16.99	kJ/mol	Joback Method
hvap	50.77	kJ/mol	Joback Method
log10ws	-1.95		Crippen Method
logp	1.516		Crippen Method
mcvol	127.220	ml/mol	McGowan Method
pc	3299.15	kPa	Joback Method
tb	558.20	K	NIST Webbook
tc	746.40	K	Joback Method
tf	329.11	K	Joback Method
vc	0.484	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	279.82	J/mol×K	535.46	Joback Method
cpg	331.68	J/mol×K	711.24	Joback Method
cpg	322.35	J/mol×K	676.09	Joback Method
cpg	312.49	J/mol×K	640.93	Joback Method
cpg	302.11	J/mol×K	605.77	Joback Method
cpg	291.21	J/mol×K	570.62	Joback Method
cpg	340.46	J/mol×K	746.40	Joback Method
dvisc	0.0001969	Paxs	535.46	Joback Method

dvisc	0.0002394	Paxs	501.07	Joback Method
dvisc	0.0002996	Paxs	466.68	Joback Method
dvisc	0.0003887	Paxs	432.29	Joback Method
dvisc	0.0005273	Paxs	397.89	Joback Method
dvisc	0.0007578	Paxs	363.50	Joback Method
dvisc	0.0011750	Paxs	329.11	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C3392970&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3392970&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>
<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>

## 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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