

# 2,4,6-Trimethoxybenzaldehyde

<b>Other names:</b>	Benzaldehyde, 2,4,6-trimethoxy-
<b>Inchi:</b>	InChI=1S/C10H12O4/c1-12-7-4-9(13-2)8(6-11)10(5-7)14-3/h4-6H,1-3H3
<b>InchiKey:</b>	CRBZVDLXAIFERF-UHFFFAOYSA-N
<b>Formula:</b>	C10H12O4
<b>SMILES:</b>	<chem>COc1cc(OC)c(C=O)c(OC)c1</chem>
<b>Mol. weight [g/mol]:</b>	196.20
<b>CAS:</b>	830-79-5

## Physical Properties

Property code	Value	Unit	Source
gf	-297.68	kJ/mol	Joback Method
hf	-529.85	kJ/mol	Joback Method
hfus	20.38	kJ/mol	Joback Method
hvap	56.07	kJ/mol	Joback Method
log10ws	-2.07		Crippen Method
logp	1.525		Crippen Method
mcvol	147.180	ml/mol	McGowan Method
pc	2862.74	kPa	Joback Method
tb	585.74	K	Joback Method
tc	792.23	K	Joback Method
tf	375.13	K	Joback Method
vc	0.558	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	347.43	J/molxK	585.74	Joback Method
cpg	359.52	J/molxK	620.16	Joback Method
cpg	371.11	J/molxK	654.57	Joback Method
cpg	382.17	J/molxK	688.99	Joback Method
cpg	392.68	J/molxK	723.40	Joback Method
cpg	402.61	J/molxK	757.82	Joback Method
cpg	411.94	J/molxK	792.23	Joback Method
dvisc	0.0007464	Paxs	375.13	Joback Method

dvisc	0.0005076	Paxs	410.23	Joback Method
dvisc	0.0003668	Paxs	445.33	Joback Method
dvisc	0.0002780	Paxs	480.44	Joback Method
dvisc	0.0002187	Paxs	515.54	Joback Method
dvisc	0.0001775	Paxs	550.64	Joback Method
dvisc	0.0001477	Paxs	585.74	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=C830795&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C830795&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>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</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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