

# 2,3-Dimethyl-para-anisaldehyde

<b>Other names:</b>	Benzaldehyde, 4-methoxy-2,3-dimethyl-2,3-dimethyl-p-anisaldehyde
<b>Inchi:</b>	InChI=1S/C10H12O2/c1-7-8(2)10(12-3)5-4-9(7)6-11/h4-6H,1-3H3
<b>InchiKey:</b>	MAFDJCNDRCNZFM-UHFFFAOYSA-N
<b>Formula:</b>	C10H12O2
<b>SMILES:</b>	COc1ccc(C=O)c(C)c1C
<b>Mol. weight [g/mol]:</b>	164.20
<b>CAS:</b>	38998-17-3

## Physical Properties

Property code	Value	Unit	Source
gf	-87.68	kJ/mol	Joback Method
hf	-265.41	kJ/mol	Joback Method
hfus	18.01	kJ/mol	Joback Method
hvap	51.25	kJ/mol	Joback Method
log10ws	-2.78		Crippen Method
logp	2.125		Crippen Method
mvol	135.440	ml/mol	McGowan Method
pc	2969.80	kPa	Joback Method
tb	540.90	K	Joback Method
tc	751.75	K	Joback Method
tf	330.67	K	Joback Method
vc	0.522	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	300.74	J/molxK	540.90	Joback Method
cpg	313.03	J/molxK	576.04	Joback Method
cpg	324.76	J/molxK	611.18	Joback Method
cpg	335.93	J/molxK	646.32	Joback Method
cpg	346.53	J/molxK	681.46	Joback Method
cpg	356.56	J/molxK	716.61	Joback Method
cpg	366.03	J/molxK	751.75	Joback Method

dvisc	0.0011841	Paxs	330.67	Joback Method
dvisc	0.0007787	Paxs	365.71	Joback Method
dvisc	0.0005511	Paxs	400.75	Joback Method
dvisc	0.0004123	Paxs	435.78	Joback Method
dvisc	0.0003220	Paxs	470.82	Joback Method
dvisc	0.0002603	Paxs	505.86	Joback Method
dvisc	0.0002163	Paxs	540.90	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=C38998173&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C38998173&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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