

# 2,3,6-Trimethylbenzaldehyde

<b>Other names:</b>	2,3,6-trimethylbenzadehyde
<b>Inchi:</b>	InChI=1S/C10H12O/c1-7-4-5-8(2)10(6-11)9(7)3/h4-6H,1-3H3
<b>InchiKey:</b>	NHMDCMLCZRILTI-UHFFFAOYSA-N
<b>Formula:</b>	C10H12O
<b>SMILES:</b>	<chem>Cc1ccc(C)c(C=O)c1C</chem>
<b>Mol. weight [g/mol]:</b>	148.20
<b>CAS:</b>	34341-29-2

## Physical Properties

Property code	Value	Unit	Source
gf	17.32	kJ/mol	Joback Method
hf	-133.19	kJ/mol	Joback Method
hfus	16.82	kJ/mol	Joback Method
hvap	48.84	kJ/mol	Joback Method
log10ws	-3.14		Crippen Method
logp	2.424		Crippen Method
mcvol	129.570	ml/mol	McGowan Method
pc	3025.61	kPa	Joback Method
tb	518.48	K	Joback Method
tc	731.53	K	Joback Method
tf	308.44	K	Joback Method
vc	0.504	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	277.66	J/molxK	518.48	Joback Method
cpg	290.15	J/molxK	553.99	Joback Method
cpg	302.00	J/molxK	589.50	Joback Method
cpg	313.24	J/molxK	625.00	Joback Method
cpg	323.88	J/molxK	660.51	Joback Method
cpg	333.94	J/molxK	696.02	Joback Method
cpg	343.43	J/molxK	731.53	Joback Method
dvisc	0.0014505	Paxs	308.44	Joback Method

dvisc	0.0009364	Paxs	343.45	Joback Method
dvisc	0.0006555	Paxs	378.45	Joback Method
dvisc	0.0004874	Paxs	413.46	Joback Method
dvisc	0.0003796	Paxs	448.47	Joback Method
dvisc	0.0003065	Paxs	483.47	Joback Method
dvisc	0.0002548	Paxs	518.48	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C34341292&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C34341292&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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