

# 2,6-Dimethylbenzaldehyde

Inchi:	InChI=1S/C9H10O/c1-7-4-3-5-8(2)9(7)6-10/h3-6H,1-2H3
InchiKey:	QOJQBWSZHCKOLL-UHFFFAOYSA-N
Formula:	C9H10O
SMILES:	Cc1cccc(C)c1C=O
Mol. weight [g/mol]:	134.18
CAS:	1123-56-4

## Physical Properties

Property code	Value	Unit	Source
gf	18.53	kJ/mol	Joback Method
hf	-101.08	kJ/mol	Joback Method
hfus	14.62	kJ/mol	Joback Method
hvap	45.95	kJ/mol	Joback Method
log10ws	-2.66		Crippen Method
logp	2.116		Crippen Method
mcvol	115.480	ml/mol	McGowan Method
pc	3431.89	kPa	Joback Method
ripol	1640.00		NIST Webbook
ripol	1640.00		NIST Webbook
ripol	1640.00		NIST Webbook
tb	490.62	K	Joback Method
tc	705.85	K	Joback Method
tf	284.65	K	Joback Method
vc	0.449	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	235.09	J/mol×K	490.62	Joback Method
cpg	246.84	J/mol×K	526.49	Joback Method
cpg	257.95	J/mol×K	562.36	Joback Method
cpg	268.44	J/mol×K	598.24	Joback Method
cpg	278.35	J/mol×K	634.11	Joback Method
cpg	287.67	J/mol×K	669.98	Joback Method

cpg	296.44	J/mol×K	705.85	Joback Method
dvisc	0.0017961	Paxs	284.65	Joback Method
dvisc	0.0011064	Paxs	318.98	Joback Method
dvisc	0.0007489	Paxs	353.31	Joback Method
dvisc	0.0005432	Paxs	387.63	Joback Method
dvisc	0.0004151	Paxs	421.96	Joback Method
dvisc	0.0003303	Paxs	456.29	Joback Method
dvisc	0.0002714	Paxs	490.62	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=C1123564&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1123564&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>

## 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>ripol:</b>	Polar retention indices
<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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