

# m-(3,4-Dichlorophenoxy)benzaldehyde

<b>Other names:</b>	Benzaldehyde, 3-(3,4-dichlorophenoxy)- 3-(3,4-Dichlorophenoxy)benzaldehyde
<b>Inchi:</b>	InChI=1S/C13H8Cl2O2/c14-12-5-4-11(7-13(12)15)17-10-3-1-2-9(6-10)8-16/h1-8H
<b>InchiKey:</b>	ABQHJSHFFLAGHF-UHFFFAOYSA-N
<b>Formula:</b>	C13H8Cl2O2
<b>SMILES:</b>	O=Cc1cccc(Oc2ccc(Cl)c(Cl)c2)c1
<b>Mol. weight [g/mol]:</b>	267.11
<b>CAS:</b>	79124-76-8

## Physical Properties

Property code	Value	Unit	Source
gf	26.13	kJ/mol	Joback Method
hf	-122.28	kJ/mol	Joback Method
hfus	28.21	kJ/mol	Joback Method
hvap	68.97	kJ/mol	Joback Method
log10ws	-4.72		Crippen Method
logp	4.598		Crippen Method
mcvol	178.430	ml/mol	McGowan Method
pc	2871.95	kPa	Joback Method
tb	711.08	K	Joback Method
tc	961.47	K	Joback Method
tf	450.74	K	Joback Method
vc	0.680	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	409.90	J/molxK	711.08	Joback Method
cpg	421.30	J/molxK	752.81	Joback Method
cpg	431.70	J/molxK	794.54	Joback Method
cpg	441.15	J/molxK	836.27	Joback Method
cpg	449.68	J/molxK	878.00	Joback Method
cpg	457.32	J/molxK	919.74	Joback Method
cpg	464.11	J/molxK	961.47	Joback Method

dvisc	0.0008890	Paxs	450.74	Joback Method
dvisc	0.0005900	Paxs	494.13	Joback Method
dvisc	0.0004183	Paxs	537.52	Joback Method
dvisc	0.0003122	Paxs	580.91	Joback Method
dvisc	0.0002427	Paxs	624.30	Joback Method
dvisc	0.0001950	Paxs	667.69	Joback Method
dvisc	0.0001608	Paxs	711.08	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C79124768&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C79124768&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>

## 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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