

# 2-(3-Chlorophenoxy)propionic acid

<b>Other names:</b>	(dl) 2-(m-chlorophenoxy)propanoic acid 2-(3-Chlorophenoxy)propanoic acid 2-(m-Chlorophenoxy)propionic acid 3-CPA 3CP Cloprop Fruitone CPA Metachlorphenprop Propanoic acid, 2-(3-chlorophenoxy)- Propionic acid, 2-(m-chlorophenoxy)- dl-2-(3-Chlorophenoxy)propionic acid dl-2-(m-Chlorophenoxy)propionic acid «alpha»-(3-Chlorophenoxy)propionic acid Â«alphaÂ»-(3-Chlorophenoxy)propionic acid
<b>Inchi:</b>	InChI=1S/C9H9ClO3/c1-6(9(11)12)13-8-4-2-3-7(10)5-8/h2-6H,1H3,(H,11,12)
<b>InchiKey:</b>	YNTJKQDWYXUTLZ-UHFFFAOYSA-N
<b>Formula:</b>	C9H9ClO3
<b>SMILES:</b>	CC(Oc1cccc(Cl)c1)C(=O)O
<b>Mol. weight [g/mol]:</b>	200.62
<b>CAS:</b>	101-10-0

## Physical Properties

Property code	Value	Unit	Source
gf	-257.43	kJ/mol	Joback Method
hf	-422.08	kJ/mol	Joback Method
hfus	20.27	kJ/mol	Joback Method
hvap	68.40	kJ/mol	Joback Method
log10ws	-2.22		Aqueous Solubility Prediction Method
logp	2.192		Crippen Method
mcvol	139.460	ml/mol	McGowan Method
pc	3642.13	kPa	Joback Method
tb	642.44	K	Joback Method
tc	852.38	K	Joback Method
tf	378.03	K	Joback Method
vc	0.517	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	326.00	J/molxK	642.44	Joback Method
cpg	335.62	J/molxK	677.43	Joback Method
cpg	344.62	J/molxK	712.42	Joback Method
cpg	353.03	J/molxK	747.41	Joback Method
cpg	360.85	J/molxK	782.40	Joback Method
cpg	368.09	J/molxK	817.39	Joback Method
cpg	374.77	J/molxK	852.38	Joback Method
dvisc	0.0026543	Paxs	378.03	Joback Method
dvisc	0.0010273	Paxs	422.10	Joback Method
dvisc	0.0004758	Paxs	466.17	Joback Method
dvisc	0.0002517	Paxs	510.24	Joback Method
dvisc	0.0001473	Paxs	554.30	Joback Method
dvisc	0.0000933	Paxs	598.37	Joback Method
dvisc	0.0000629	Paxs	642.44	Joback Method

## Sources

**Joback Method:**

[https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

**Aqueous Solubility Prediction Method:**

<http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

**McGowan Method:**

<http://link.springer.com/article/10.1007/BF02311772>

**NIST Webbook:**

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C101100&Units=SI>

**Crippen Method:**

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

## Legend

**cpg:** Ideal gas heat capacity

**dvisc:** Dynamic viscosity

**gf:** Standard Gibbs free energy of formation

**hf:** Enthalpy of formation at standard conditions

**hfus:** Enthalpy of fusion at standard conditions

**hvap:** 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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