

# 2-Chlorobenzoic acid, 2,4-dichlorophenyl ester

<b>Inchi:</b>	InChI=1S/C13H7Cl3O2/c14-8-5-6-12(11(16)7-8)18-13(17)9-3-1-2-4-10(9)15/h1-7H
<b>InchiKey:</b>	PMRFDDONDWDTFW-UHFFFAOYSA-N
<b>Formula:</b>	C13H7Cl3O2
<b>SMILES:</b>	O=C(Oc1ccc(Cl)cc1Cl)c1ccccc1Cl
<b>Mol. weight [g/mol]:</b>	301.55
<b>CAS:</b>	58979-27-4

## Physical Properties

Property code	Value	Unit	Source
gf	-15.20	kJ/mol	Joback Method
hf	-165.02	kJ/mol	Joback Method
hfus	31.72	kJ/mol	Joback Method
hvap	73.38	kJ/mol	Joback Method
log10ws	-5.61		Crippen Method
logp	4.866		Crippen Method
mcvol	190.670	ml/mol	McGowan Method
pc	2729.71	kPa	Joback Method
tb	753.72	K	Joback Method
tc	1011.22	K	Joback Method
tf	488.59	K	Joback Method
vc	0.719	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	429.57	J/molxK	753.72	Joback Method
cpg	471.87	J/molxK	968.30	Joback Method
cpg	465.30	J/molxK	925.39	Joback Method
cpg	457.83	J/molxK	882.47	Joback Method
cpg	449.40	J/molxK	839.55	Joback Method
cpg	440.00	J/molxK	796.64	Joback Method
cpg	477.58	J/molxK	1011.22	Joback Method
dvisc	0.0001318	Paxs	753.72	Joback Method
dvisc	0.0001598	Paxs	709.53	Joback Method

dvisc	0.0001988	Paxs	665.34	Joback Method
dvisc	0.0002550	Paxs	621.15	Joback Method
dvisc	0.0003399	Paxs	576.97	Joback Method
dvisc	0.0004751	Paxs	532.78	Joback Method
dvisc	0.0007055	Paxs	488.59	Joback Method

## Sources

<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C58979274&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C58979274&amp;Units=SI</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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