

# 2-Chlorobenzoic acid, 4-cyanophenyl ester

<b>Inchi:</b>	InChI=1S/C14H8ClNO2/c15-13-4-2-1-3-12(13)14(17)18-11-7-5-10(9-16)6-8-11/h1-8H
<b>InchiKey:</b>	FBJQDKRQR0MXNN-UHFFFAOYSA-N
<b>Formula:</b>	C14H8ClNO2
<b>SMILES:</b>	N#Cc1ccc(OC(=O)c2ccccc2Cl)cc1
<b>Mol. weight [g/mol]:</b>	257.67

## Physical Properties

Property code	Value	Unit	Source
gf	159.89	kJ/mol	Joback Method
hf	22.17	kJ/mol	Joback Method
hfus	27.81	kJ/mol	Joback Method
hvap	76.65	kJ/mol	Joback Method
log10ws	-4.60		Crippen Method
logp	3.431		Crippen Method
mvol	181.660	ml/mol	McGowan Method
pc	2640.67	kPa	Joback Method
rinpol	2117.00		NIST Webbook
tb	798.84	K	Joback Method
tc	1055.44	K	Joback Method
tf	492.49	K	Joback Method
vc	0.703	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	451.68	J/mol×K	798.84	Joback Method
cpg	461.84	J/mol×K	841.61	Joback Method
cpg	470.96	J/mol×K	884.37	Joback Method
cpg	479.08	J/mol×K	927.14	Joback Method
cpg	486.24	J/mol×K	969.91	Joback Method
cpg	492.50	J/mol×K	1012.67	Joback Method
cpg	497.90	J/mol×K	1055.44	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=U307818&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307818&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>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>hvac:</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-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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