

# 4-Chlorophenyl-«beta»-phenylpropionate

<b>Other names:</b>	4-Chlorophenyl 3-phenylpropanoate 3-Phenylpropionic acid, 4-chlorophenyl ester
<b>Inchi:</b>	InChI=1S/C15H13ClO2/c16-13-7-9-14(10-8-13)18-15(17)11-6-12-4-2-1-3-5-12/h1-5,7-10
<b>InchiKey:</b>	KYCIZZNPNUORSI-UHFFFAOYSA-N
<b>Formula:</b>	C15H13ClO2
<b>SMILES:</b>	O=C(CCc1ccccc1)Oc1ccc(Cl)cc1
<b>Mol. weight [g/mol]:</b>	260.72
<b>CAS:</b>	23522-73-8

## Physical Properties

Property code	Value	Unit	Source
gf	44.76	kJ/mol	Joback Method
hf	-151.88	kJ/mol	Joback Method
hfus	29.28	kJ/mol	Joback Method
hvap	67.74	kJ/mol	Joback Method
log10ws	-4.50		Crippen Method
logp	3.878		Crippen Method
mvol	194.370	ml/mol	McGowan Method
pc	2495.01	kPa	Joback Method
rinpol	1996.00		NIST Webbook
tb	714.66	K	Joback Method
tc	955.69	K	Joback Method
tf	426.25	K	Joback Method
vc	0.733	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	491.15	J/molxK	714.66	Joback Method
cpg	505.40	J/molxK	754.83	Joback Method
cpg	518.48	J/molxK	795.00	Joback Method
cpg	530.44	J/molxK	835.17	Joback Method
cpg	541.33	J/molxK	875.35	Joback Method
cpg	551.20	J/molxK	915.52	Joback Method

cpg	560.11	J/molxK	955.69	Joback Method
dvisc	0.0010871	Paxs	426.25	Joback Method
dvisc	0.0006325	Paxs	474.32	Joback Method
dvisc	0.0004066	Paxs	522.39	Joback Method
dvisc	0.0002815	Paxs	570.45	Joback Method
dvisc	0.0002064	Paxs	618.52	Joback Method
dvisc	0.0001583	Paxs	666.59	Joback Method
dvisc	0.0001258	Paxs	714.66	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=C23522738&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C23522738&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>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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