

# 3-Chlorobenzoic acid, 2-(1-phenylethyl)-4-methoxyphenyl ester

<b>Inchi:</b>	InChI=1S/C22H19ClO3/c1-15(16-7-4-3-5-8-16)20-14-19(25-2)11-12-21(20)26-22(24)17-9
<b>InchiKey:</b>	IAVPSAAYWBLORH-UHFFFAOYSA-N
<b>Formula:</b>	C22H19ClO3
<b>SMILES:</b>	COc1ccc(OC(=O)c2cccc(Cl)c2)c(C(C)c2ccccc2)c1
<b>Mol. weight [g/mol]:</b>	366.84

## Physical Properties

Property code	Value	Unit	Source
gf	89.41	kJ/mol	Joback Method
hf	-220.27	kJ/mol	Joback Method
hfus	38.34	kJ/mol	Joback Method
hvap	88.94	kJ/mol	Joback Method
log10ws	-6.85		Crippen Method
logp	5.720		Crippen Method
mcvol	275.110	ml/mol	McGowan Method
pc	1762.45	kPa	Joback Method
rinpol	2794.00		NIST Webbook
rinpol	2794.00		NIST Webbook
tb	933.44	K	Joback Method
tc	1185.53	K	Joback Method
tf	563.83	K	Joback Method
vc	1.028	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	804.78	J/molxK	933.44	Joback Method
cpg	854.51	J/molxK	1143.52	Joback Method
cpg	847.36	J/molxK	1101.50	Joback Method
cpg	838.88	J/molxK	1059.49	Joback Method
cpg	829.00	J/molxK	1017.47	Joback Method
cpg	817.65	J/molxK	975.46	Joback Method
cpg	860.39	J/molxK	1185.53	Joback Method
dvisc	0.0000375	Paxs	933.44	Joback Method

dvisc	0.0000471	Paxs	871.84	Joback Method
dvisc	0.0000613	Paxs	810.24	Joback Method
dvisc	0.0000834	Paxs	748.63	Joback Method
dvisc	0.0001199	Paxs	687.03	Joback Method
dvisc	0.0001851	Paxs	625.43	Joback Method
dvisc	0.0003141	Paxs	563.83	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.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>
<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=U360146&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360146&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>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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