

# Benzoic acid, 2-chloro-, 4-benzyloxyphenyl ester

<b>Other names:</b>	2-Chlorobenzoic acid, 4-benzyloxyphenyl ester
<b>Inchi:</b>	InChI=1S/C20H15ClO3/c21-19-9-5-4-8-18(19)20(22)24-17-12-10-16(11-13-17)23-14-15-
<b>InchiKey:</b>	UQSRIVDYEKEWHD-UHFFFAOYSA-N
<b>Formula:</b>	C20H15ClO3
<b>SMILES:</b>	O=C(Oc1ccc(OCc2ccccc2)cc1)c1ccccc1Cl
<b>Mol. weight [g/mol]:</b>	338.78
<b>CAS:</b>	305374-05-4

## Physical Properties

Property code	Value	Unit	Source
gf	84.64	kJ/mol	Joback Method
hf	-162.24	kJ/mol	Joback Method
hfus	37.07	kJ/mol	Joback Method
hvap	84.22	kJ/mol	Joback Method
log10ws	-6.47		Crippen Method
logp	5.138		Crippen Method
mcvol	246.930	ml/mol	McGowan Method
pc	2098.42	kPa	Joback Method
rinpol	2833.00		NIST Webbook
tb	883.14	K	Joback Method
tc	1138.90	K	Joback Method
tf	543.77	K	Joback Method
vc	0.922	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	692.15	J/molxK	883.14	Joback Method
cpg	742.15	J/molxK	1096.27	Joback Method
cpg	734.82	J/molxK	1053.64	Joback Method
cpg	726.22	J/molxK	1011.02	Joback Method
cpg	716.29	J/molxK	968.39	Joback Method
cpg	704.95	J/molxK	925.77	Joback Method
cpg	748.28	J/molxK	1138.90	Joback Method

dvisc	0.0000529	Paxs	883.14	Joback Method
dvisc	0.0000660	Paxs	826.58	Joback Method
dvisc	0.0000850	Paxs	770.02	Joback Method
dvisc	0.0001141	Paxs	713.46	Joback Method
dvisc	0.0001610	Paxs	656.89	Joback Method
dvisc	0.0002423	Paxs	600.33	Joback Method
dvisc	0.0003973	Paxs	543.77	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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=C305374054&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C305374054&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>mvol:</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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