

# Neopentyl 3-chlorobenzoate

<b>Other names:</b>	3-Chlorobenzoic acid, neopentyl ester
<b>Inchi:</b>	InChI=1S/C12H15ClO2/c1-12(2,3)8-15-11(14)9-5-4-6-10(13)7-9/h4-7H,8H2,1-3H3
<b>InchiKey:</b>	HKBVGVISHWBVGQ-UHFFFAOYSA-N
<b>Formula:</b>	C12H15ClO2
<b>SMILES:</b>	CC(C)(C)COC(=O)c1cccc(Cl)c1
<b>Mol. weight [g/mol]:</b>	226.70
<b>CAS:</b>	343775-31-5

## Physical Properties

Property code	Value	Unit	Source
gf	-90.07	kJ/mol	Joback Method
hf	-335.24	kJ/mol	Joback Method
hfus	20.06	kJ/mol	Joback Method
hvap	57.49	kJ/mol	Joback Method
log10ws	-3.83		Crippen Method
logp	3.543		Crippen Method
mcvol	175.860	ml/mol	McGowan Method
pc	2436.25	kPa	Joback Method
rinpol	1536.00		NIST Webbook
rinpol	1537.00		NIST Webbook
tb	616.11	K	Joback Method
tc	839.48	K	Joback Method
tf	368.44	K	Joback Method
vc	0.661	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	424.66	J/molxK	616.11	Joback Method
cpg	439.36	J/molxK	653.34	Joback Method
cpg	453.06	J/molxK	690.57	Joback Method
cpg	465.80	J/molxK	727.79	Joback Method
cpg	477.62	J/molxK	765.02	Joback Method
cpg	488.58	J/molxK	802.25	Joback Method

cpg	498.71	J/molxK	839.48	Joback Method
dvisc	0.0016900	Paxs	368.44	Joback Method
dvisc	0.0009254	Paxs	409.72	Joback Method
dvisc	0.0005657	Paxs	451.00	Joback Method
dvisc	0.0003756	Paxs	492.27	Joback Method
dvisc	0.0002657	Paxs	533.55	Joback Method
dvisc	0.0001975	Paxs	574.83	Joback Method
dvisc	0.0001528	Paxs	616.11	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=C343775315&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C343775315&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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