

# 2-Chlorobenzoic acid, pentyl ester

<b>Other names:</b>	Benzoic acid, 2-chloro, pentyl ester
<b>Inchi:</b>	InChI=1S/C12H15ClO2/c1-2-3-6-9-15-12(14)10-7-4-5-8-11(10)13/h4-5,7-8H,2-3,6,9H2,1
<b>InchiKey:</b>	SUCIUJIXAHNYGX-UHFFFAOYSA-N
<b>Formula:</b>	C12H15ClO2
<b>SMILES:</b>	CCCCCOC(=O)c1ccccc1Cl
<b>Mol. weight [g/mol]:</b>	226.70
<b>CAS:</b>	70086-68-9

## Physical Properties

Property code	Value	Unit	Source
gf	-92.91	kJ/mol	Joback Method
hf	-326.49	kJ/mol	Joback Method
hfus	27.47	kJ/mol	Joback Method
hvap	58.79	kJ/mol	Joback Method
log10ws	-4.07		Crippen Method
logp	3.687		Crippen Method
mcvol	175.860	ml/mol	McGowan Method
pc	2391.19	kPa	Joback Method
ripol	1630.00		NIST Webbook
ripol	1637.00		NIST Webbook
ripol	1627.00		NIST Webbook
ripol	1617.00		NIST Webbook
ripol	1611.00		NIST Webbook
ripol	1622.00		NIST Webbook
ripol	1630.00		NIST Webbook
ripol	1644.30		NIST Webbook
ripol	1644.30		NIST Webbook
ripol	1617.00		NIST Webbook
ripol	2248.00		NIST Webbook
ripol	2248.00		NIST Webbook
ripol	2240.00		NIST Webbook
ripol	2240.00		NIST Webbook
ripol	2249.00		NIST Webbook
ripol	2283.00		NIST Webbook
ripol	2211.00		NIST Webbook
ripol	2229.00		NIST Webbook
tb	619.34	K	Joback Method

tc	830.22	K	Joback Method
tf	366.02	K	Joback Method
vc	0.672	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	421.33	J/mol×K	619.34	Joback Method
cpg	435.34	J/mol×K	654.49	Joback Method
cpg	448.54	J/mol×K	689.63	Joback Method
cpg	460.94	J/mol×K	724.78	Joback Method
cpg	472.56	J/mol×K	759.93	Joback Method
cpg	483.41	J/mol×K	795.07	Joback Method
cpg	493.53	J/mol×K	830.22	Joback Method
dvisc	0.0015544	Paxs	366.02	Joback Method
dvisc	0.0008929	Paxs	408.24	Joback Method
dvisc	0.0005690	Paxs	450.46	Joback Method
dvisc	0.0003918	Paxs	492.68	Joback Method
dvisc	0.0002861	Paxs	534.90	Joback Method
dvisc	0.0002188	Paxs	577.12	Joback Method
dvisc	0.0001735	Paxs	619.34	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=C70086689&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C70086689&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>

## 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>ripol:</b>	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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