

# 3-Methylpentan-3-yl 3-chlorobenzoate

<b>Inchi:</b>	InChI=1S/C13H17ClO2/c1-4-13(3,5-2)16-12(15)10-7-6-8-11(14)9-10/h6-9H,4-5H2,1-3H3
<b>InchiKey:</b>	SJNSMUALWJBEGP-UHFFFAOYSA-N
<b>Formula:</b>	C13H17ClO2
<b>SMILES:</b>	CCC(C)(CC)OC(=O)c1cccc(Cl)c1
<b>Mol. weight [g/mol]:</b>	240.73

## Physical Properties

Property code	Value	Unit	Source
gf	-81.65	kJ/mol	Joback Method
hf	-355.88	kJ/mol	Joback Method
hfus	22.65	kJ/mol	Joback Method
hvap	59.72	kJ/mol	Joback Method
log10ws	-4.60		Crippen Method
logp	4.075		Crippen Method
mcvol	189.950	ml/mol	McGowan Method
pc	2220.80	kPa	Joback Method
rinpol	1637.00		NIST Webbook
rinpol	1637.00		NIST Webbook
tb	638.99	K	Joback Method
tc	858.34	K	Joback Method
tf	379.71	K	Joback Method
vc	0.718	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	474.50	J/mol×K	638.99	Joback Method
cpg	489.76	J/mol×K	675.55	Joback Method
cpg	504.00	J/mol×K	712.11	Joback Method
cpg	517.25	J/mol×K	748.67	Joback Method
cpg	529.58	J/mol×K	785.23	Joback Method
cpg	541.02	J/mol×K	821.78	Joback Method
cpg	551.63	J/mol×K	858.34	Joback Method
dvisc	0.0015782	Paxs	379.71	Joback Method

dvisc	0.0008507	Paxs	422.92	Joback Method
dvisc	0.0005142	Paxs	466.14	Joback Method
dvisc	0.0003385	Paxs	509.35	Joback Method
dvisc	0.0002379	Paxs	552.56	Joback Method
dvisc	0.0001760	Paxs	595.78	Joback Method
dvisc	0.0001356	Paxs	638.99	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=U373571&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373571&amp;Units=SI</a>
<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>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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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