

# 10-Chlorodecyl 3-chlorobenzoate

<b>Inchi:</b>	InChI=1S/C17H24Cl2O2/c18-12-7-5-3-1-2-4-6-8-13-21-17(20)15-10-9-11-16(19)14-15/h
<b>InchiKey:</b>	OFBFSHCSGLYCEN-UHFFFAOYSA-N
<b>Formula:</b>	C17H24Cl2O2
<b>SMILES:</b>	O=C(OCCCCCCCCCl)c1cccc(Cl)c1
<b>Mol. weight [g/mol]:</b>	331.28

## Physical Properties

Property code	Value	Unit	Source
gf	-62.74	kJ/mol	Joback Method
hf	-445.43	kJ/mol	Joback Method
hfus	44.62	kJ/mol	Joback Method
hvap	74.30	kJ/mol	Joback Method
log10ws	-6.32		Crippen Method
logp	5.856		Crippen Method
mcvol	258.550	ml/mol	McGowan Method
pc	1523.50	kPa	Joback Method
rinpol	2500.00		NIST Webbook
tb	771.17	K	Joback Method
tc	973.24	K	Joback Method
tf	452.29	K	Joback Method
vc	1.002	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	713.52	J/molxK	771.17	Joback Method
cpg	728.71	J/molxK	804.85	Joback Method
cpg	742.94	J/molxK	838.53	Joback Method
cpg	756.25	J/molxK	872.20	Joback Method
cpg	768.66	J/molxK	905.88	Joback Method
cpg	780.20	J/molxK	939.56	Joback Method
cpg	790.92	J/molxK	973.24	Joback Method
dvisc	0.0009311	Paxs	452.29	Joback Method
dvisc	0.0005082	Paxs	505.44	Joback Method

dvisc	0.0003113	Paxs	558.58	Joback Method
dvisc	0.0002076	Paxs	611.73	Joback Method
dvisc	0.0001477	Paxs	664.88	Joback Method
dvisc	0.0001105	Paxs	718.02	Joback Method
dvisc	0.0000861	Paxs	771.17	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=U373564&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373564&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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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