

# 1,2-Cyclohexanedicarboxylic acid, 3-chlorophenyl hexyl ester

Inchi:	InChI=1S/C20H27ClO4/c1-2-3-4-7-13-24-19(22)17-11-5-6-12-18(17)20(23)25-16-10-8-9
InchiKey:	XZHVCOYELAABKO-UHFFFAOYSA-N
Formula:	C20H27ClO4
SMILES:	CCCCCOC(=O)C1CCCCC1C(=O)Oc1cccc(Cl)c1
Mol. weight [g/mol]:	366.88

## Physical Properties

Property code	Value	Unit	Source
gf	-242.73	kJ/mol	Joback Method
hf	-702.43	kJ/mol	Joback Method
hfus	43.88	kJ/mol	Joback Method
hvap	85.87	kJ/mol	Joback Method
log10ws	-5.77		Crippen Method
logp	5.175		Crippen Method
mvol	285.160	ml/mol	McGowan Method
pc	1485.00	kPa	Joback Method
rinpol	2611.00		NIST Webbook
rinpol	2611.00		NIST Webbook
tb	893.55	K	Joback Method
tc	1116.35	K	Joback Method
tf	531.48	K	Joback Method
vc	1.077	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	903.66	J/molxK	893.55	Joback Method
cpg	919.39	J/molxK	930.68	Joback Method
cpg	933.57	J/molxK	967.82	Joback Method
cpg	946.22	J/molxK	1004.95	Joback Method
cpg	957.38	J/molxK	1042.08	Joback Method
cpg	967.07	J/molxK	1079.22	Joback Method
cpg	975.31	J/molxK	1116.35	Joback Method
dvisc	0.0006106	Paxs	531.48	Joback Method

dvisc	0.0003460	Paxs	591.83	Joback Method
dvisc	0.0002178	Paxs	652.17	Joback Method
dvisc	0.0001483	Paxs	712.51	Joback Method
dvisc	0.0001072	Paxs	772.86	Joback Method
dvisc	0.0000812	Paxs	833.20	Joback Method
dvisc	0.0000639	Paxs	893.55	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U339694&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339694&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>
<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>

## 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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