

# 1,2-Cyclohexanedicarboxylic acid, (2-chlorocyclohexyl)methyl heptyl ester

Inchi:	InChI=1S/C22H37ClO4/c1-2-3-4-5-10-15-26-21(24)18-12-7-8-13-19(18)22(25)27-16-17-
InchiKey:	JDTGCOOJAVKGSY-UHFFFAOYSA-N
Formula:	C22H37ClO4
SMILES:	CCCCCCCOC(=O)C1CCCCC1C(=O)OCC1CCCCC1Cl
Mol. weight [g/mol]:	400.98

## Physical Properties

Property code	Value	Unit	Source
gf	-311.93	kJ/mol	Joback Method
hf	-934.79	kJ/mol	Joback Method
hfus	48.32	kJ/mol	Joback Method
hvap	87.50	kJ/mol	Joback Method
log10ws	-6.09		Crippen Method
logp	5.647		Crippen Method
mvol	326.240	ml/mol	McGowan Method
pc	1164.04	kPa	Joback Method
rinpol	2808.00		NIST Webbook
rinpol	2808.00		NIST Webbook
tb	922.53	K	Joback Method
tc	1140.05	K	Joback Method
tf	518.22	K	Joback Method
vc	1.228	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1124.07	J/molxK	922.53	Joback Method
cpg	1197.58	J/molxK	1103.80	Joback Method
cpg	1186.52	J/molxK	1067.54	Joback Method
cpg	1173.66	J/molxK	1031.29	Joback Method
cpg	1158.99	J/molxK	995.04	Joback Method
cpg	1142.47	J/molxK	958.78	Joback Method
cpg	1206.88	J/molxK	1140.05	Joback Method
dvisc	0.0000621	Paxs	922.53	Joback Method

dvisc	0.0000805	Paxs	855.14	Joback Method
dvisc	0.0001091	Paxs	787.76	Joback Method
dvisc	0.0001566	Paxs	720.38	Joback Method
dvisc	0.0002421	Paxs	652.99	Joback Method
dvisc	0.0004140	Paxs	585.61	Joback Method
dvisc	0.0008136	Paxs	518.22	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U339863&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339863&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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