

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

Inchi:	InChI=1S/C21H35ClO4/c1-15(2)8-7-13-25-20(23)17-10-4-5-11-18(17)21(24)26-14-16-9-3
InchiKey:	BCRIHSBUEDJNGV-UHFFFAOYSA-N
Formula:	C21H35ClO4
SMILES:	CC(C)CCCOC(=O)C1CCCCC1C(=O)OCC1CCCCC1Cl
Mol. weight [g/mol]:	386.95

## Physical Properties

Property code	Value	Unit	Source
gf	-322.79	kJ/mol	Joback Method
hf	-919.43	kJ/mol	Joback Method
hfus	42.21	kJ/mol	Joback Method
hvap	84.89	kJ/mol	Joback Method
log10ws	-5.43		Crippen Method
logp	5.113		Crippen Method
mcvol	312.150	ml/mol	McGowan Method
pc	1251.26	kPa	Joback Method
rinpol	2658.00		NIST Webbook
rinpol	2658.00		NIST Webbook
tb	899.21	K	Joback Method
tc	1118.49	K	Joback Method
tf	491.95	K	Joback Method
vc	1.167	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1062.74	J/molxK	899.21	Joback Method
cpg	1081.54	J/molxK	935.76	Joback Method
cpg	1098.47	J/molxK	972.30	Joback Method
cpg	1113.53	J/molxK	1008.85	Joback Method
cpg	1126.77	J/molxK	1045.40	Joback Method
cpg	1138.21	J/molxK	1081.95	Joback Method
cpg	1147.86	J/molxK	1118.49	Joback Method
dvisc	0.0010224	Paxs	491.95	Joback Method

dvisc	0.0004897	Paxs	559.83	Joback Method
dvisc	0.0002750	Paxs	627.70	Joback Method
dvisc	0.0001729	Paxs	695.58	Joback Method
dvisc	0.0001180	Paxs	763.46	Joback Method
dvisc	0.0000858	Paxs	831.33	Joback Method
dvisc	0.0000654	Paxs	899.21	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U339862&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339862&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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