

# 1,2-Cyclohexanedicarboxylic acid, 4-chloro-2-methylphenyl isobutyl ester

Inchi:	InChI=1S/C19H25ClO4/c1-12(2)11-23-18(21)15-6-4-5-7-16(15)19(22)24-17-9-8-14(20)10
InchiKey:	AMYACOFSTTWJAY-UHFFFAOYSA-N
Formula:	C19H25ClO4
SMILES:	<chem>Cc1cc(Cl)ccc1OC(=O)C1CCCCC1C(=O)OCC(C)C</chem>
Mol. weight [g/mol]:	352.85

## Physical Properties

Property code	Value	Unit	Source
gf	-263.22	kJ/mol	Joback Method
hf	-698.54	kJ/mol	Joback Method
hfus	37.38	kJ/mol	Joback Method
hvap	83.92	kJ/mol	Joback Method
log10ws	-5.16		Crippen Method
logp	4.559		Crippen Method
mvol	271.070	ml/mol	McGowan Method
pc	1592.35	kPa	Joback Method
rinpol	2462.00		NIST Webbook
rinpol	2462.00		NIST Webbook
tb	875.21	K	Joback Method
tc	1103.07	K	Joback Method
tf	517.73	K	Joback Method
vc	1.014	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	844.37	J/molxK	875.21	Joback Method
cpg	860.23	J/molxK	913.19	Joback Method
cpg	874.50	J/molxK	951.16	Joback Method
cpg	887.19	J/molxK	989.14	Joback Method
cpg	898.32	J/molxK	1027.12	Joback Method
cpg	907.92	J/molxK	1065.10	Joback Method
cpg	915.99	J/molxK	1103.07	Joback Method
dvisc	0.0006484	Paxs	517.73	Joback Method

dvisc	0.0003672	Paxs	577.31	Joback Method
dvisc	0.0002313	Paxs	636.89	Joback Method
dvisc	0.0001577	Paxs	696.47	Joback Method
dvisc	0.0001142	Paxs	756.05	Joback Method
dvisc	0.0000867	Paxs	815.63	Joback Method
dvisc	0.0000683	Paxs	875.21	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U339791&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339791&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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