

# 1,2-Cyclohexanedicarboxylic acid, 4-chloro-3-methylphenyl propyl ester

Inchi:	InChI=1S/C18H23ClO4/c1-3-10-22-17(20)14-6-4-5-7-15(14)18(21)23-13-8-9-16(19)12(2)
InchiKey:	OFUURNUSAFHHDB-UHFFFAOYSA-N
Formula:	C18H23ClO4
SMILES:	CCCOC(=O)C1CCCCC1C(=O)Oc1ccc(Cl)c(C)c1
Mol. weight [g/mol]:	338.83

## Physical Properties

Property code	Value	Unit	Source
gf	-269.20	kJ/mol	Joback Method
hf	-672.62	kJ/mol	Joback Method
hfus	38.32	kJ/mol	Joback Method
hvap	82.08	kJ/mol	Joback Method
log10ws	-4.99		Crippen Method
logp	4.313		Crippen Method
mcvol	256.980	ml/mol	McGowan Method
pc	1710.36	kPa	Joback Method
tb	852.77	K	Joback Method
tc	1079.80	K	Joback Method
tf	521.46	K	Joback Method
vc	0.965	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	785.60	J/molxK	852.77	Joback Method
cpg	849.33	J/molxK	1041.96	Joback Method
cpg	839.56	J/molxK	1004.13	Joback Method
cpg	828.31	J/molxK	966.29	Joback Method
cpg	815.58	J/molxK	928.45	Joback Method
cpg	801.34	J/molxK	890.61	Joback Method
cpg	857.65	J/molxK	1079.80	Joback Method
dvisc	0.0000854	Paxs	852.77	Joback Method
dvisc	0.0001065	Paxs	797.55	Joback Method
dvisc	0.0001373	Paxs	742.33	Joback Method

dvisc	0.0001843	Paxs	687.12	Joback Method
dvisc	0.0002605	Paxs	631.90	Joback Method
dvisc	0.0003934	Paxs	576.68	Joback Method
dvisc	0.0006484	Paxs	521.46	Joback Method

## Sources

<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=U339684&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339684&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>

## 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>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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