

# 4-Chlorobutyric acid, cyclohexyl ester

<b>Inchi:</b>	InChI=1S/C10H17ClO2/c11-8-4-7-10(12)13-9-5-2-1-3-6-9/h9H,1-8H2
<b>InchiKey:</b>	JFVJNSGGFOFSRK-UHFFFAOYSA-N
<b>Formula:</b>	C10H17ClO2
<b>SMILES:</b>	O=C(CCCCl)OC1CCCCC1
<b>Mol. weight [g/mol]:</b>	204.69

## Physical Properties

Property code	Value	Unit	Source
gf	-188.08	kJ/mol	Joback Method
hf	-455.95	kJ/mol	Joback Method
hfus	20.48	kJ/mol	Joback Method
hvap	51.82	kJ/mol	Joback Method
log10ws	-3.03		Crippen Method
logp	2.881		Crippen Method
mcvol	160.580	ml/mol	McGowan Method
pc	2592.49	kPa	Joback Method
rinsol	1490.00		NIST Webbook
tb	561.47	K	Joback Method
tc	771.44	K	Joback Method
tf	311.92	K	Joback Method
vc	0.602	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	386.64	J/molxK	561.47	Joback Method
cpg	403.61	J/molxK	596.46	Joback Method
cpg	419.65	J/molxK	631.46	Joback Method
cpg	434.77	J/molxK	666.45	Joback Method
cpg	448.99	J/molxK	701.45	Joback Method
cpg	462.33	J/molxK	736.44	Joback Method
cpg	474.81	J/molxK	771.44	Joback Method
dvisc	0.0036096	Paxs	311.92	Joback Method
dvisc	0.0017523	Paxs	353.51	Joback Method

dvisc	0.0009905	Paxs	395.10	Joback Method
dvisc	0.0006241	Paxs	436.70	Joback Method
dvisc	0.0004262	Paxs	478.29	Joback Method
dvisc	0.0003093	Paxs	519.88	Joback Method
dvisc	0.0002354	Paxs	561.47	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U357768&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357768&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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