

# 4-Chlorobutyric acid, cyclohexylmethyl ester

<b>Inchi:</b>	InChI=1S/C11H19ClO2/c12-8-4-7-11(13)14-9-10-5-2-1-3-6-10/h10H,1-9H2
<b>InchiKey:</b>	RHJHMXCSXWBNAI-UHFFFAOYSA-N
<b>Formula:</b>	C11H19ClO2
<b>SMILES:</b>	O=C(CCCCl)OCC1CCCCC1
<b>Mol. weight [g/mol]:</b>	218.72

## Physical Properties

Property code	Value	Unit	Source
gf	-179.66	kJ/mol	Joback Method
hf	-476.59	kJ/mol	Joback Method
hfus	23.07	kJ/mol	Joback Method
hvap	54.05	kJ/mol	Joback Method
log10ws	-3.10		Crippen Method
logp	3.129		Crippen Method
mvol	174.670	ml/mol	McGowan Method
pc	2356.49	kPa	Joback Method
rinpol	1597.00		NIST Webbook
rinpol	1597.00		NIST Webbook
tb	584.35	K	Joback Method
tc	791.01	K	Joback Method
tf	323.19	K	Joback Method
vc	0.657	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	436.25	J/molxK	584.35	Joback Method
cpg	514.59	J/molxK	756.56	Joback Method
cpg	500.78	J/molxK	722.12	Joback Method
cpg	486.07	J/molxK	687.68	Joback Method
cpg	470.41	J/molxK	653.24	Joback Method
cpg	453.81	J/molxK	618.79	Joback Method
cpg	527.50	J/molxK	791.01	Joback Method
dvisc	0.0002119	Paxs	584.35	Joback Method

dvisc	0.0002795	Paxs	540.82	Joback Method
dvisc	0.0003870	Paxs	497.30	Joback Method
dvisc	0.0005702	Paxs	453.77	Joback Method
dvisc	0.0009123	Paxs	410.24	Joback Method
dvisc	0.0016320	Paxs	366.72	Joback Method
dvisc	0.0034145	Paxs	323.19	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U357770&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357770&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>

## 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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