

# 1,2-Cyclohexanedicarboxylic acid, 2-chloroethyl ethyl ester

Inchi:	InChI=1S/C12H19ClO4/c1-2-16-11(14)9-5-3-4-6-10(9)12(15)17-8-7-13/h9-10H,2-8H2,1H
InchiKey:	RARRJWGBOLTBKO-UHFFFAOYSA-N
Formula:	C12H19ClO4
SMILES:	CCOC(=O)C1CCCCC1C(=O)OCCCl
Mol. weight [g/mol]:	262.73

## Physical Properties

Property code	Value	Unit	Source
gf	-412.87	kJ/mol	Joback Method
hf	-762.37	kJ/mol	Joback Method
hfus	29.51	kJ/mol	Joback Method
hvap	65.12	kJ/mol	Joback Method
log10ws	-2.14		Crippen Method
logp	2.138		Crippen Method
mcvol	196.200	ml/mol	McGowan Method
pc	2177.49	kPa	Joback Method
rinpol	1770.00		NIST Webbook
tb	678.85	K	Joback Method
tc	887.17	K	Joback Method
tf	402.38	K	Joback Method
vc	0.737	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	539.80	J/molxK	678.85	Joback Method
cpg	556.35	J/molxK	713.57	Joback Method
cpg	571.88	J/molxK	748.29	Joback Method
cpg	586.37	J/molxK	783.01	Joback Method
cpg	599.83	J/molxK	817.73	Joback Method
cpg	612.25	J/molxK	852.45	Joback Method
cpg	623.64	J/molxK	887.17	Joback Method
dvisc	0.0016720	Paxs	402.38	Joback Method
dvisc	0.0009474	Paxs	448.46	Joback Method

dvisc	0.0005967	Paxs	494.54	Joback Method
dvisc	0.0004067	Paxs	540.62	Joback Method
dvisc	0.0002944	Paxs	586.69	Joback Method
dvisc	0.0002233	Paxs	632.77	Joback Method
dvisc	0.0001759	Paxs	678.85	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U340040&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U340040&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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