

# 1,2-Cyclohexanedicarboxylic acid, allyl ethyl ester

Inchi:	InChI=1S/C13H20O4/c1-3-9-17-13(15)11-8-6-5-7-10(11)12(14)16-4-2/h3,10-11H,1,4-9H
InchiKey:	ZBIHKDSKBYSVLG-UHFFFAOYSA-N
Formula:	C13H20O4
SMILES:	C=CCOC(=O)C1CCCCC1C(=O)OCC
Mol. weight [g/mol]:	240.30

## Physical Properties

Property code	Value	Unit	Source
gf	-304.68	kJ/mol	Joback Method
hf	-641.84	kJ/mol	Joback Method
hfus	26.63	kJ/mol	Joback Method
hvap	62.29	kJ/mol	Joback Method
log10ws	-2.25		Crippen Method
logp	2.085		Crippen Method
mcvol	193.750	ml/mol	McGowan Method
pc	2143.35	kPa	Joback Method
rinpol	1630.00		NIST Webbook
rinpol	1630.00		NIST Webbook
tb	660.98	K	Joback Method
tc	866.52	K	Joback Method
tf	381.97	K	Joback Method
vc	0.725	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	540.16	J/molxK	660.98	Joback Method
cpg	617.42	J/molxK	832.27	Joback Method
cpg	604.03	J/molxK	798.01	Joback Method
cpg	589.61	J/molxK	763.75	Joback Method
cpg	574.16	J/molxK	729.49	Joback Method
cpg	557.68	J/molxK	695.24	Joback Method
cpg	629.78	J/molxK	866.52	Joback Method
dvisc	0.0001788	Paxs	660.98	Joback Method

dvisc	0.0002269	Paxs	614.48	Joback Method
dvisc	0.0002994	Paxs	567.98	Joback Method
dvisc	0.0004152	Paxs	521.48	Joback Method
dvisc	0.0006139	Paxs	474.97	Joback Method
dvisc	0.0009880	Paxs	428.47	Joback Method
dvisc	0.0017854	Paxs	381.97	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U339478&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339478&amp;Units=SI</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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