

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

Inchi:	InChI=1S/C13H22O5/c1-3-17-12(14)10-6-4-5-7-11(10)13(15)18-9-8-16-2/h10-11H,3-9H2
InchiKey:	XPMUGQKGWZTHBO-UHFFFAOYSA-N
Formula:	C13H22O5
SMILES:	CCOC(=O)C1CCCCC1C(=O)OCCOC
Mol. weight [g/mol]:	258.31

## Physical Properties

Property code	Value	Unit	Source
gf	-497.52	kJ/mol	Joback Method
hf	-899.49	kJ/mol	Joback Method
hfus	29.09	kJ/mol	Joback Method
hvap	65.37	kJ/mol	Joback Method
log10ws	-1.49		Crippen Method
logp	1.545		Crippen Method
mcvol	203.920	ml/mol	McGowan Method
pc	2030.89	kPa	Joback Method
rinpola	1750.00		NIST Webbook
rinpola	1750.00		NIST Webbook
tb	686.72	K	Joback Method
tc	887.19	K	Joback Method
tf	405.96	K	Joback Method
vc	0.761	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	592.03	J/molxK	686.72	Joback Method
cpg	609.63	J/molxK	720.13	Joback Method
cpg	626.21	J/molxK	753.54	Joback Method
cpg	641.73	J/molxK	786.95	Joback Method
cpg	656.20	J/molxK	820.37	Joback Method
cpg	669.60	J/molxK	853.78	Joback Method
cpg	681.91	J/molxK	887.19	Joback Method
dvisc	0.0013073	Paxs	405.96	Joback Method

dvisc	0.0007336	Paxs	452.75	Joback Method
dvisc	0.0004587	Paxs	499.55	Joback Method
dvisc	0.0003108	Paxs	546.34	Joback Method
dvisc	0.0002239	Paxs	593.13	Joback Method
dvisc	0.0001693	Paxs	639.93	Joback Method
dvisc	0.0001329	Paxs	686.72	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=U340023&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U340023&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>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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