

# 1,2-Cyclohexanedicarboxylic acid, cyclohexylmethyl ethyl ester

Inchi:	InChI=1S/C17H28O4/c1-2-20-16(18)14-10-6-7-11-15(14)17(19)21-12-13-8-4-3-5-9-13/h
InchiKey:	MNGOTHKTFMBVNF-UHFFFAOYSA-N
Formula:	C17H28O4
SMILES:	CCOC(=O)C1CCCCC1C(=O)OCC1CCCCC1
Mol. weight [g/mol]:	296.40

## Physical Properties

Property code	Value	Unit	Source
gf	-334.39	kJ/mol	Joback Method
hf	-795.51	kJ/mol	Joback Method
hfus	30.10	kJ/mol	Joback Method
hvap	72.30	kJ/mol	Joback Method
log10ws	-3.73		Crippen Method
logp	3.479		Crippen Method
mcvol	243.550	ml/mol	McGowan Method
pc	1763.93	kPa	Joback Method
rinpol	2113.00		NIST Webbook
rinpol	2113.00		NIST Webbook
tb	775.37	K	Joback Method
tc	995.32	K	Joback Method
tf	436.19	K	Joback Method
vc	0.900	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	785.99	J/molxK	775.37	Joback Method
cpg	873.95	J/molxK	958.66	Joback Method
cpg	859.60	J/molxK	922.00	Joback Method
cpg	843.65	J/molxK	885.35	Joback Method
cpg	826.07	J/molxK	848.69	Joback Method
cpg	806.86	J/molxK	812.03	Joback Method
cpg	886.71	J/molxK	995.32	Joback Method
dvisc	0.0001103	Paxs	775.37	Joback Method

dvisc	0.0001443	Paxs	718.84	Joback Method
dvisc	0.0001976	Paxs	662.31	Joback Method
dvisc	0.0002870	Paxs	605.78	Joback Method
dvisc	0.0004501	Paxs	549.25	Joback Method
dvisc	0.0007826	Paxs	492.72	Joback Method
dvisc	0.0015707	Paxs	436.19	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U339736&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339736&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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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