

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

<b>Inchi:</b>	InChI=1S/C15H26O5/c1-11(2)10-20-15(17)13-7-5-4-6-12(13)14(16)19-9-8-18-3/h11-13H
<b>InchiKey:</b>	RJQDUFPAHZVVG-G-UHFFFAOYSA-N
<b>Formula:</b>	C15H26O5
<b>SMILES:</b>	COCCOC(=O)C1CCCCC1C(=O)OCC(C)C
<b>Mol. weight [g/mol]:</b>	286.36

## Physical Properties

Property code	Value	Unit	Source
gf	-483.12	kJ/mol	Joback Method
hf	-946.05	kJ/mol	Joback Method
hfus	30.75	kJ/mol	Joback Method
hvap	69.44	kJ/mol	Joback Method
log10ws	-2.08		Crippen Method
logp	2.182		Crippen Method
mcvol	232.100	ml/mol	McGowan Method
pc	1731.78	kPa	Joback Method
tb	732.04	K	Joback Method
tc	931.68	K	Joback Method
tf	413.50	K	Joback Method
vc	0.868	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	704.70	J/molxK	732.04	Joback Method
cpg	723.08	J/molxK	765.31	Joback Method
cpg	740.29	J/molxK	798.59	Joback Method
cpg	756.32	J/molxK	831.86	Joback Method
cpg	771.16	J/molxK	865.13	Joback Method
cpg	784.81	J/molxK	898.40	Joback Method
cpg	797.25	J/molxK	931.68	Joback Method
dvisc	0.0013285	Paxs	413.50	Joback Method
dvisc	0.0006685	Paxs	466.59	Joback Method
dvisc	0.0003870	Paxs	519.68	Joback Method

dvisc	0.0002480	Paxs	572.77	Joback Method
dvisc	0.0001714	Paxs	625.86	Joback Method
dvisc	0.0001254	Paxs	678.95	Joback Method
dvisc	0.0000961	Paxs	732.04	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=U340024&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U340024&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>hvac:</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>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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