

# 1,2-Cyclohexanedicarboxylic acid, isobutyl propyl ester

<b>Inchi:</b>	InChI=1S/C15H26O4/c1-4-9-18-14(16)12-7-5-6-8-13(12)15(17)19-10-11(2)3/h11-13H,4-
<b>InchiKey:</b>	SZAJLQTUDWVUSQ-UHFFFAOYSA-N
<b>Formula:</b>	C15H26O4
<b>SMILES:</b>	CCCOC(=O)C1CCCCC1C(=O)OCC(C)C
<b>Mol. weight [g/mol]:</b>	270.36

## Physical Properties

Property code	Value	Unit	Source
gf	-378.12	kJ/mol	Joback Method
hf	-813.83	kJ/mol	Joback Method
hfus	29.56	kJ/mol	Joback Method
hvap	67.03	kJ/mol	Joback Method
log10ws	-3.00		Crippen Method
logp	2.945		Crippen Method
mvol	226.230	ml/mol	McGowan Method
pc	1756.54	kPa	Joback Method
rinpol	1790.00		NIST Webbook
rinpol	1790.00		NIST Webbook
tb	709.62	K	Joback Method
tc	910.33	K	Joback Method
tf	391.27	K	Joback Method
vc	0.850	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	674.70	J/molxK	709.62	Joback Method
cpg	757.63	J/molxK	876.88	Joback Method
cpg	743.34	J/molxK	843.43	Joback Method
cpg	727.90	J/molxK	809.98	Joback Method
cpg	711.32	J/molxK	776.52	Joback Method
cpg	693.58	J/molxK	743.07	Joback Method
cpg	770.79	J/molxK	910.33	Joback Method
dvisc	0.0001251	Paxs	709.62	Joback Method

dvisc	0.0001640	Paxs	656.56	Joback Method
dvisc	0.0002254	Paxs	603.50	Joback Method
dvisc	0.0003292	Paxs	550.44	Joback Method
dvisc	0.0005216	Paxs	497.39	Joback Method
dvisc	0.0009222	Paxs	444.33	Joback Method
dvisc	0.0019030	Paxs	391.27	Joback Method

## Sources

<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=U339423&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339423&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</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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