

# 1,2-Cyclohexanedicarboxylic acid, allyl isobutyl ester

Inchi:	InChI=1S/C15H24O4/c1-4-9-18-14(16)12-7-5-6-8-13(12)15(17)19-10-11(2)3/h4,11-13H,1
InchiKey:	VEXMRTBLPHFSDY-UHFFFAOYSA-N
Formula:	C15H24O4
SMILES:	C=CCOC(=O)C1CCCCC1C(=O)OCC(C)C
Mol. weight [g/mol]:	268.35

## Physical Properties

Property code	Value	Unit	Source
gf	-290.28	kJ/mol	Joback Method
hf	-688.40	kJ/mol	Joback Method
hfus	28.28	kJ/mol	Joback Method
hvap	66.36	kJ/mol	Joback Method
log10ws	-2.85		Crippen Method
logp	2.721		Crippen Method
mcvol	221.930	ml/mol	McGowan Method
pc	1820.06	kPa	Joback Method
rinpol	1782.00		NIST Webbook
rinpol	1782.00		NIST Webbook
tb	706.30	K	Joback Method
tc	910.13	K	Joback Method
tf	389.51	K	Joback Method
vc	0.831	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	650.33	J/molxK	706.30	Joback Method
cpg	668.74	J/molxK	740.27	Joback Method
cpg	686.00	J/molxK	774.24	Joback Method
cpg	702.11	J/molxK	808.22	Joback Method
cpg	717.08	J/molxK	842.19	Joback Method
cpg	730.93	J/molxK	876.16	Joback Method
cpg	743.66	J/molxK	910.13	Joback Method
dvisc	0.0018834	Paxs	389.51	Joback Method

dvisc	0.0009283	Paxs	442.31	Joback Method
dvisc	0.0005320	Paxs	495.11	Joback Method
dvisc	0.0003395	Paxs	547.90	Joback Method
dvisc	0.0002344	Paxs	600.70	Joback Method
dvisc	0.0001718	Paxs	653.50	Joback Method
dvisc	0.0001320	Paxs	706.30	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=U339480&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339480&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

Latest version available from:

<https://www.chemeo.com/cid/93-398-8/1-2-Cyclohexanedicarboxylic-acid-allyl-isobutyl-ester.pdf>

Generated by Cheméo on 2024-04-30 18:25:09.470684409 +0000 UTC m=+16790758.391261720.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.