

# 1,2-Cyclohexanedicarboxylic acid, 2-methylbutyl undecyl ester

Inchi:	InChI=1S/C24H44O4/c1-4-6-7-8-9-10-11-12-15-18-27-23(25)21-16-13-14-17-22(21)24(2
InchiKey:	LOLIHPPQIQCYRT-UHFFFAOYSA-N
Formula:	C24H44O4
SMILES:	CCCCCCCCCOC(=O)C1CCCCC1C(=O)OCC(C)CC
Mol. weight [g/mol]:	396.60

## Physical Properties

Property code	Value	Unit	Source
gf	-302.34	kJ/mol	Joback Method
hf	-999.59	kJ/mol	Joback Method
hfus	52.87	kJ/mol	Joback Method
hvap	87.06	kJ/mol	Joback Method
log10ws	-6.76		Crippen Method
logp	6.456		Crippen Method
mvol	353.040	ml/mol	McGowan Method
pc	946.75	kPa	Joback Method
rinpol	2687.00		NIST Webbook
rinpol	2687.00		NIST Webbook
tb	915.54	K	Joback Method
tc	1121.60	K	Joback Method
tf	492.70	K	Joback Method
vc	1.353	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1219.15	J/molxK	915.54	Joback Method
cpg	1238.90	J/molxK	949.88	Joback Method
cpg	1257.03	J/molxK	984.23	Joback Method
cpg	1273.57	J/molxK	1018.57	Joback Method
cpg	1288.55	J/molxK	1052.92	Joback Method
cpg	1302.00	J/molxK	1087.26	Joback Method
cpg	1313.95	J/molxK	1121.60	Joback Method
dvisc	0.0007458	Paxs	492.70	Joback Method

dvisc	0.0003291	Paxs	563.17	Joback Method
dvisc	0.0001742	Paxs	633.65	Joback Method
dvisc	0.0001047	Paxs	704.12	Joback Method
dvisc	0.0000691	Paxs	774.59	Joback Method
dvisc	0.0000488	Paxs	845.07	Joback Method
dvisc	0.0000364	Paxs	915.54	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=U339550&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339550&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/86-840-4/1-2-Cyclohexanedicarboxylic-acid-2-methylbutyl-undecyl-ester.pdf>

Generated by Cheméo on 2024-04-26 07:54:14.96692217 +0000 UTC m=+16407303.887499486.

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