

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

Inchi:	InChI=1S/C22H40O5/c1-3-4-5-6-7-8-9-10-13-16-26-21(23)19-14-11-12-15-20(19)22(24)2
InchiKey:	UHDRAJAHQQSABX-UHFFFAOYSA-N
Formula:	C22H40O5
SMILES:	CCCCCCCCCOC(=O)C1CCCCC1C(=O)OCCOC
Mol. weight [g/mol]:	384.55

## Physical Properties

Property code	Value	Unit	Source
gf	-421.74	kJ/mol	Joback Method
hf	-1085.25	kJ/mol	Joback Method
hfus	52.40	kJ/mol	Joback Method
hvap	85.41	kJ/mol	Joback Method
log10ws	-5.26		Crippen Method
logp	5.056		Crippen Method
mvol	330.730	ml/mol	McGowan Method
pc	1052.09	kPa	Joback Method
rinpol	2645.00		NIST Webbook
rinpol	2645.00		NIST Webbook
tb	892.64	K	Joback Method
tc	1094.65	K	Joback Method
tf	507.39	K	Joback Method
vc	1.266	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1124.90	J/molxK	892.64	Joback Method
cpg	1203.67	J/molxK	1060.98	Joback Method
cpg	1191.00	J/molxK	1027.31	Joback Method
cpg	1176.80	J/molxK	993.64	Joback Method
cpg	1161.06	J/molxK	959.98	Joback Method
cpg	1143.76	J/molxK	926.31	Joback Method
cpg	1214.82	J/molxK	1094.65	Joback Method
dvisc	0.0000398	Paxs	892.64	Joback Method

dvisc	0.0000522	Paxs	828.43	Joback Method
dvisc	0.0000716	Paxs	764.22	Joback Method
dvisc	0.0001040	Paxs	700.01	Joback Method
dvisc	0.0001631	Paxs	635.81	Joback Method
dvisc	0.0002829	Paxs	571.60	Joback Method
dvisc	0.0005641	Paxs	507.39	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=U340033&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U340033&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

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