

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

**Inchi:** InChI=1S/C23H42O5/c1-3-5-6-7-8-9-10-11-14-17-27-22(24)20-15-12-13-16-21(20)23(25)  
**InchiKey:** JQIXMXPOTVXORM-UHFFFAOYSA-N  
**Formula:** C23H42O5  
**SMILES:** CCCCCCCCCCOC(=O)C1CCCCC1C(=O)OCCOCC  
**Mol. weight [g/mol]:** 398.58

## Physical Properties

Property code	Value	Unit	Source
gf	-413.32	kJ/mol	Joback Method
hf	-1105.89	kJ/mol	Joback Method
hfus	54.99	kJ/mol	Joback Method
hvap	87.63	kJ/mol	Joback Method
log10ws	-5.67		Crippen Method
logp	5.447		Crippen Method
mvol	344.820	ml/mol	McGowan Method
pc	989.51	kPa	Joback Method
rinpol	2695.00		NIST Webbook
rinpol	2695.00		NIST Webbook
tb	915.52	K	Joback Method
tc	1121.29	K	Joback Method
tf	518.66	K	Joback Method
vc	1.321	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1187.49	J/molxK	915.52	Joback Method
cpg	1206.45	J/molxK	949.81	Joback Method
cpg	1223.74	J/molxK	984.11	Joback Method
cpg	1239.38	J/molxK	1018.40	Joback Method
cpg	1253.39	J/molxK	1052.70	Joback Method
cpg	1265.78	J/molxK	1086.99	Joback Method
cpg	1276.57	J/molxK	1121.29	Joback Method
dvisc	0.0005027	Paxs	518.66	Joback Method

dvisc	0.0002496	Paxs	584.80	Joback Method
dvisc	0.0001428	Paxs	650.95	Joback Method
dvisc	0.0000906	Paxs	717.09	Joback Method
dvisc	0.0000621	Paxs	783.23	Joback Method
dvisc	0.0000451	Paxs	849.38	Joback Method
dvisc	0.0000343	Paxs	915.52	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=U339913&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339913&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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