

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

**Inchi:** InChI=1S/C25H46O5/c1-3-4-5-6-7-8-9-10-11-12-13-16-19-29-24(26)22-17-14-15-18-23(2)  
**InchiKey:** KBUFKXWHGUVVAAA-UHFFFAOYSA-N  
**Formula:** C25H46O5  
**SMILES:** CCCCCCCCCCCCCOC(=O)C1CCCCC1C(=O)OCCOC  
**Mol. weight [g/mol]:** 426.63

## Physical Properties

Property code	Value	Unit	Source
gf	-396.48	kJ/mol	Joback Method
hf	-1147.17	kJ/mol	Joback Method
hfus	60.17	kJ/mol	Joback Method
hvap	92.09	kJ/mol	Joback Method
log10ws	-6.51		Crippen Method
logp	6.227		Crippen Method
mvol	373.000	ml/mol	McGowan Method
pc	880.00	kPa	Joback Method
rinpol	2948.00		NIST Webbook
rinpol	2948.00		NIST Webbook
tb	961.28	K	Joback Method
tc	1177.45	K	Joback Method
tf	541.20	K	Joback Method
vc	1.433	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1313.84	J/molxK	961.28	Joback Method
cpg	1333.02	J/molxK	997.31	Joback Method
cpg	1350.29	J/molxK	1033.34	Joback Method
cpg	1365.66	J/molxK	1069.37	Joback Method
cpg	1379.18	J/molxK	1105.40	Joback Method
cpg	1390.85	J/molxK	1141.42	Joback Method
cpg	1400.71	J/molxK	1177.45	Joback Method
dvisc	0.0003955	Paxs	541.20	Joback Method

dvisc	0.0001926	Paxs	611.21	Joback Method
dvisc	0.0001087	Paxs	681.23	Joback Method
dvisc	0.0000683	Paxs	751.24	Joback Method
dvisc	0.0000464	Paxs	821.25	Joback Method
dvisc	0.0000335	Paxs	891.27	Joback Method
dvisc	0.0000254	Paxs	961.28	Joback Method

## Sources

<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=U340035&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U340035&amp;Units=SI</a>
<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>

## 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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