

# Cyclohexanecarboxylic acid, 4-methoxy-, tetradecyl ester

Inchi:	InChI=1S/C22H42O3/c1-3-4-5-6-7-8-9-10-11-12-13-14-19-25-22(23)20-15-17-21(24-2)18
InchiKey:	REXRAODEVPBROT-UHFFFAOYSA-N
Formula:	C22H42O3
SMILES:	CCCCCCCCCCCCCOC(=O)C1CCC(OC)CC1
Mol. weight [g/mol]:	354.57

## Physical Properties

Property code	Value	Unit	Source
gf	-187.82	kJ/mol	Joback Method
hf	-840.45	kJ/mol	Joback Method
hfus	49.62	kJ/mol	Joback Method
hvap	76.25	kJ/mol	Joback Method
log10ws	-6.75		Crippen Method
logp	6.436		Crippen Method
mvol	323.290	ml/mol	McGowan Method
pc	1021.38	kPa	Joback Method
rinpol	2571.00		NIST Webbook
rinpol	2571.00		NIST Webbook
tb	816.35	K	Joback Method
tc	1005.93	K	Joback Method
tf	435.23	K	Joback Method
vc	1.242	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1066.19	J/molxK	816.35	Joback Method
cpg	1087.56	J/molxK	847.95	Joback Method
cpg	1107.59	J/molxK	879.54	Joback Method
cpg	1126.31	J/molxK	911.14	Joback Method
cpg	1143.73	J/molxK	942.74	Joback Method
cpg	1159.89	J/molxK	974.34	Joback Method
cpg	1174.79	J/molxK	1005.93	Joback Method
dvisc	0.0010572	Paxs	435.23	Joback Method

dvisc	0.0004730	Paxs	498.75	Joback Method
dvisc	0.0002538	Paxs	562.27	Joback Method
dvisc	0.0001545	Paxs	625.79	Joback Method
dvisc	0.0001031	Paxs	689.31	Joback Method
dvisc	0.0000736	Paxs	752.83	Joback Method
dvisc	0.0000554	Paxs	816.35	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=U406202&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406202&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/86-891-8/Cyclohexanecarboxylic-acid-4-methoxy-tetradecyl-ester.pdf>

Generated by Cheméo on 2024-05-01 18:55:37.110979207 +0000 UTC m=+16878986.031556523.

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