

# Cyclohexanecarboxylic acid, 4-methoxy-, pentyl ester

Inchi:	InChI=1S/C13H24O3/c1-3-4-5-10-16-13(14)11-6-8-12(15-2)9-7-11/h11-12H,3-10H2,1-2H
InchiKey:	SOQUDWGSKKWGSW-UHFFFAOYSA-N
Formula:	C13H24O3
SMILES:	CCCCCOC(=O)C1CCC(OC)CC1
Mol. weight [g/mol]:	228.33

## Physical Properties

Property code	Value	Unit	Source
gf	-263.60	kJ/mol	Joback Method
hf	-654.69	kJ/mol	Joback Method
hfus	26.31	kJ/mol	Joback Method
hvap	56.22	kJ/mol	Joback Method
log10ws	-2.98		Crippen Method
logp	2.925		Crippen Method
mvol	196.480	ml/mol	McGowan Method
pc	1949.23	kPa	Joback Method
rinpol	1598.00		NIST Webbook
rinpol	1598.00		NIST Webbook
tb	610.43	K	Joback Method
tc	805.42	K	Joback Method
tf	333.80	K	Joback Method
vc	0.738	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	537.02	J/molxK	610.43	Joback Method
cpg	556.53	J/molxK	642.93	Joback Method
cpg	575.08	J/molxK	675.43	Joback Method
cpg	592.67	J/molxK	707.92	Joback Method
cpg	609.30	J/molxK	740.42	Joback Method
cpg	624.97	J/molxK	772.92	Joback Method
cpg	639.68	J/molxK	805.42	Joback Method
dvisc	0.0021968	Paxs	333.80	Joback Method

dvisc	0.0011004	Paxs	379.90	Joback Method
dvisc	0.0006402	Paxs	426.01	Joback Method
dvisc	0.0004140	Paxs	472.12	Joback Method
dvisc	0.0002893	Paxs	518.22	Joback Method
dvisc	0.0002144	Paxs	564.32	Joback Method
dvisc	0.0001662	Paxs	610.43	Joback Method

## Sources

<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=U406192&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406192&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> 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/83-274-6/Cyclohexanecarboxylic-acid-4-methoxy-pentyl-ester.pdf>

Generated by Cheméo on 2024-05-01 06:07:13.269717192 +0000 UTC m=+16832882.190294507.

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