

# Cyclohexanecarboxylic acid, 4-methoxy-, heptyl ester

Inchi:	InChI=1S/C15H28O3/c1-3-4-5-6-7-12-18-15(16)13-8-10-14(17-2)11-9-13/h13-14H,3-12H
InchiKey:	MHTOVMNNTKKLEZ-UHFFFAOYSA-N
Formula:	C15H28O3
SMILES:	CCCCCCCOC(=O)C1CCC(OC)CC1
Mol. weight [g/mol]:	256.38

## Physical Properties

Property code	Value	Unit	Source
gf	-246.76	kJ/mol	Joback Method
hf	-695.97	kJ/mol	Joback Method
hfus	31.49	kJ/mol	Joback Method
hvap	60.67	kJ/mol	Joback Method
log10ws	-3.82		Crippen Method
logp	3.705		Crippen Method
mvol	224.660	ml/mol	McGowan Method
pc	1656.49	kPa	Joback Method
rinpol	1843.00		NIST Webbook
rinpol	1843.00		NIST Webbook
tb	656.19	K	Joback Method
tc	846.89	K	Joback Method
tf	356.34	K	Joback Method
vc	0.850	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	646.96	J/molxK	656.19	Joback Method
cpg	667.14	J/molxK	687.97	Joback Method
cpg	686.28	J/molxK	719.76	Joback Method
cpg	704.39	J/molxK	751.54	Joback Method
cpg	721.47	J/molxK	783.32	Joback Method
cpg	737.53	J/molxK	815.11	Joback Method
cpg	752.57	J/molxK	846.89	Joback Method
dvisc	0.0019602	Paxs	356.34	Joback Method

dvisc	0.0009529	Paxs	406.31	Joback Method
dvisc	0.0005425	Paxs	456.29	Joback Method
dvisc	0.0003452	Paxs	506.26	Joback Method
dvisc	0.0002382	Paxs	556.24	Joback Method
dvisc	0.0001748	Paxs	606.21	Joback Method
dvisc	0.0001344	Paxs	656.19	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=U406195&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406195&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/82-713-9/Cyclohexanecarboxylic-acid-4-methoxy-heptyl-ester.pdf>

Generated by Cheméo on 2024-04-30 18:57:29.584311188 +0000 UTC m=+16792698.504888503.

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