

# Cyclohexanecarboxylic acid, 4-methoxy-, hexadecyl ester

Inchi:	InChI=1S/C24H46O3/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-21-27-24(25)22-17-19-23(2)
InchiKey:	GCCYIZQARKLHMY-UHFFFAOYSA-N
Formula:	C24H46O3
SMILES:	CCCCCCCCCCCCCCCCOC(=O)C1CCC(OC)CC1
Mol. weight [g/mol]:	382.62

## Physical Properties

Property code	Value	Unit	Source
gf	-170.98	kJ/mol	Joback Method
hf	-881.73	kJ/mol	Joback Method
hfus	54.80	kJ/mol	Joback Method
hvap	80.70	kJ/mol	Joback Method
log10ws	-7.58		Crippen Method
logp	7.216		Crippen Method
mvol	351.470	ml/mol	McGowan Method
pc	906.70	kPa	Joback Method
rinpol	2776.00		NIST Webbook
rinpol	2776.00		NIST Webbook
tb	862.11	K	Joback Method
tc	1057.03	K	Joback Method
tf	457.77	K	Joback Method
vc	1.353	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1193.07	J/molxK	862.11	Joback Method
cpg	1287.22	J/molxK	1024.54	Joback Method
cpg	1271.23	J/molxK	992.06	Joback Method
cpg	1253.84	J/molxK	959.57	Joback Method
cpg	1235.04	J/molxK	927.08	Joback Method
cpg	1214.79	J/molxK	894.60	Joback Method
cpg	1301.85	J/molxK	1057.03	Joback Method
dvisc	0.0000418	Paxs	862.11	Joback Method

dvisc	0.0000558	Paxs	794.72	Joback Method
dvisc	0.0000786	Paxs	727.33	Joback Method
dvisc	0.0001187	Paxs	659.94	Joback Method
dvisc	0.0001969	Paxs	592.55	Joback Method
dvisc	0.0003719	Paxs	525.16	Joback Method
dvisc	0.0008472	Paxs	457.77	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=U406204&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406204&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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