

# Cyclohexanecarboxylic acid, heptyl ester

<b>Other names:</b>	heptyl cyclohexanecarboxylate
<b>Inchi:</b>	InChI=1S/C14H26O2/c1-2-3-4-5-9-12-16-14(15)13-10-7-6-8-11-13/h13H,2-12H2,1H3
<b>InchiKey:</b>	NUUQQOTYKFJRDY-UHFFFAOYSA-N
<b>Formula:</b>	C14H26O2
<b>SMILES:</b>	CCCCCCCCOC(=O)C1CCCCC1
<b>Mol. weight [g/mol]:</b>	226.35
<b>CAS:</b>	92319-47-6

## Physical Properties

Property code	Value	Unit	Source
gf	-142.47	kJ/mol	Joback Method
hf	-522.77	kJ/mol	Joback Method
hfus	26.64	kJ/mol	Joback Method
hvap	56.34	kJ/mol	Joback Method
log10ws	-4.20		Crippen Method
logp	4.080		Crippen Method
mcvol	204.700	ml/mol	McGowan Method
pc	1872.41	kPa	Joback Method
rinpol	1606.09		NIST Webbook
rinpol	1609.01		NIST Webbook
rinpol	1606.09		NIST Webbook
tb	615.56	K	Joback Method
tc	809.77	K	Joback Method
tf	327.08	K	Joback Method
vc	0.776	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	559.97	J/mol×K	615.56	Joback Method
cpg	579.88	J/mol×K	647.93	Joback Method
cpg	598.76	J/mol×K	680.30	Joback Method
cpg	616.63	J/mol×K	712.67	Joback Method
cpg	633.51	J/mol×K	745.04	Joback Method

cpg	649.42	J/molxK	777.41	Joback Method
cpg	664.38	J/molxK	809.77	Joback Method
dvisc	0.0034050	Paxs	327.08	Joback Method
dvisc	0.0014830	Paxs	375.16	Joback Method
dvisc	0.0007802	Paxs	423.24	Joback Method
dvisc	0.0004679	Paxs	471.32	Joback Method
dvisc	0.0003085	Paxs	519.40	Joback Method
dvisc	0.0002182	Paxs	567.48	Joback Method
dvisc	0.0001630	Paxs	615.56	Joback Method

## Sources

<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=C92319476&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C92319476&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>
<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>

## 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/90-009-2/Cyclohexanecarboxylic-acid-heptyl-ester.pdf>

Generated by Cheméo on 2024-04-23 09:24:01.319414144 +0000 UTC m=+16153490.239991466.

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