

# 3-Cyclopentylpropionic acid, heptyl ester

<b>Inchi:</b>	InChI=1S/C15H28O2/c1-2-3-4-5-8-13-17-15(16)12-11-14-9-6-7-10-14/h14H,2-13H2,1H3
<b>InchiKey:</b>	OBXCQEYVYLJGJK-UHFFFAOYSA-N
<b>Formula:</b>	C15H28O2
<b>SMILES:</b>	CCCCCCCOC(=O)CCC1CCCC1
<b>Mol. weight [g/mol]:</b>	240.38

## Physical Properties

Property code	Value	Unit	Source
gf	-121.95	kJ/mol	Joback Method
hf	-537.25	kJ/mol	Joback Method
hfus	31.33	kJ/mol	Joback Method
hvap	58.40	kJ/mol	Joback Method
log10ws	-4.62		Crippen Method
logp	4.470		Crippen Method
mcvol	218.790	ml/mol	McGowan Method
pc	1690.72	kPa	Joback Method
rinqol	1754.80		NIST Webbook
tb	634.17	K	Joback Method
tc	820.80	K	Joback Method
tf	341.87	K	Joback Method
vc	0.841	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	612.21	J/molxK	634.17	Joback Method
cpg	699.75	J/molxK	789.70	Joback Method
cpg	684.09	J/molxK	758.59	Joback Method
cpg	667.54	J/molxK	727.49	Joback Method
cpg	650.05	J/molxK	696.38	Joback Method
cpg	631.62	J/molxK	665.28	Joback Method
cpg	714.54	J/molxK	820.80	Joback Method
dvisc	0.0001934	Paxs	634.17	Joback Method
dvisc	0.0002515	Paxs	585.45	Joback Method

dvisc	0.0003430	Paxs	536.74	Joback Method
dvisc	0.0004977	Paxs	488.02	Joback Method
dvisc	0.0007845	Paxs	439.30	Joback Method
dvisc	0.0013850	Paxs	390.59	Joback Method
dvisc	0.0028751	Paxs	341.87	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=U292333&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U292333&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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