

# 3-Cyclopentylpropionic acid, 8-chlorooctyl ester

Inchi:	InChI=1S/C16H29ClO2/c17-13-7-3-1-2-4-8-14-19-16(18)12-11-15-9-5-6-10-15/h15H,1-14
InchiKey:	LSPFYISYDAUGPA-UHFFFAOYSA-N
Formula:	C16H29ClO2
SMILES:	O=C(CCC1CCCC1)OCCCCCCCCl
Mol. weight [g/mol]:	288.85

## Physical Properties

Property code	Value	Unit	Source
gf	-125.46	kJ/mol	Joback Method
hf	-573.63	kJ/mol	Joback Method
hfus	38.12	kJ/mol	Joback Method
hvap	65.01	kJ/mol	Joback Method
log10ws	-5.19		Crippen Method
logp	5.079		Crippen Method
mvol	245.120	ml/mol	McGowan Method
pc	1519.94	kPa	Joback Method
rinpol	2198.00		NIST Webbook
rinpol	2198.00		NIST Webbook
tb	694.48	K	Joback Method
tc	883.75	K	Joback Method
tf	383.06	K	Joback Method
vc	0.946	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	702.55	J/molxK	694.48	Joback Method
cpg	721.18	J/molxK	726.03	Joback Method
cpg	738.81	J/molxK	757.57	Joback Method
cpg	755.46	J/molxK	789.12	Joback Method
cpg	771.15	J/molxK	820.66	Joback Method
cpg	785.93	J/molxK	852.21	Joback Method
cpg	799.83	J/molxK	883.75	Joback Method
dvisc	0.0022482	Paxs	383.06	Joback Method

dvisc	0.0011094	Paxs	434.96	Joback Method
dvisc	0.0006364	Paxs	486.87	Joback Method
dvisc	0.0004063	Paxs	538.77	Joback Method
dvisc	0.0002807	Paxs	590.67	Joback Method
dvisc	0.0002059	Paxs	642.58	Joback Method
dvisc	0.0001581	Paxs	694.48	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=U354058&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354058&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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