

# 1-Aminocyclopentanecarboxylic acid, N-(2,2,2-trichloroethoxycarbonyl)-, pentyl ester

InChI: InChI=1S/C14H22Cl3NO4/c1-2-3-6-9-21-11(19)13(7-4-5-8-13)18-12(20)22-10-14(15,16)  
InChIKey: NYEMIIDXDRPNC-UHFFFAOYSA-N

Formula: C14H22Cl3NO4

SMILES: CCCCCOC(=O)C1(NC(=O)OCC(Cl)(Cl)Cl)CCCC1

Mol. weight [g/mol]: 374.69

## Physical Properties

Property code	Value	Unit	Source
gf	-313.34	kJ/mol	Joback Method
hf	-748.67	kJ/mol	Joback Method
hfus	35.50	kJ/mol	Joback Method
hvap	82.47	kJ/mol	Joback Method
log10ws	-5.14		Crippen Method
logp	4.129		Crippen Method
mvol	258.840	ml/mol	McGowan Method
pc	1851.52	kPa	Joback Method
rinpol	2218.00		NIST Webbook
rinpol	2218.00		NIST Webbook
tb	847.05	K	Joback Method
tc	1067.38	K	Joback Method
tf	571.50	K	Joback Method
vc	0.978	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	750.51	J/mol×K	847.05	Joback Method
cpg	765.43	J/mol×K	883.77	Joback Method
cpg	779.91	J/mol×K	920.49	Joback Method
cpg	794.09	J/mol×K	957.21	Joback Method
cpg	808.12	J/mol×K	993.94	Joback Method
cpg	822.14	J/mol×K	1030.66	Joback Method
cpg	836.29	J/mol×K	1067.38	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=U392535&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392535&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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>rinpola:</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.cheméo.com/cid/115-666-5/1-Aminocyclopentanecarboxylic-acid-N-2-2-2-trichloroethoxycarbonyl-pentyl->

Generated by Cheméo on 2024-04-29 14:19:46.704803853 +0000 UTC m=+16689635.625381168.

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