

# 3-Cyclopentylpropionic acid, pentafluorophenyl ester

<b>Inchi:</b>	InChI=1S/C14H13F5O2/c15-9-10(16)12(18)14(13(19)11(9)17)21-8(20)6-5-7-3-1-2-4-7/h
<b>InchiKey:</b>	UOWZPDYHJCKUMA-UHFFFAOYSA-N
<b>Formula:</b>	C14H13F5O2
<b>SMILES:</b>	O=C(CCC1CCCC1)Oc1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	308.24

## Physical Properties

Property code	Value	Unit	Source
gf	-1040.16	kJ/mol	Joback Method
hf	-1317.98	kJ/mol	Joback Method
hfus	36.23	kJ/mol	Joback Method
hvap	57.67	kJ/mol	Joback Method
log10ws	-5.61		Crippen Method
logp	4.258		Crippen Method
mcvol	189.790	ml/mol	McGowan Method
pc	1882.17	kPa	Joback Method
rinqol	1578.00		NIST Webbook
tb	659.22	K	Joback Method
tc	847.07	K	Joback Method
tf	422.57	K	Joback Method
vc	0.766	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	521.37	J/molxK	659.22	Joback Method
cpg	535.33	J/molxK	690.53	Joback Method
cpg	548.52	J/molxK	721.84	Joback Method
cpg	560.97	J/molxK	753.15	Joback Method
cpg	572.67	J/molxK	784.45	Joback Method
cpg	583.65	J/molxK	815.76	Joback Method
cpg	593.90	J/molxK	847.07	Joback Method

# Sources

<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=U354329&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354329&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvac:</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>mccol:</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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