

# Cyclohexanecarboxylic acid, pentafluorophenyl ester

Inchi:	InChI=1S/C13H11F5O2/c14-7-8(15)10(17)12(11(18)9(7)16)20-13(19)6-4-2-1-3-5-6/h6H,
InchiKey:	YTMNGMCPLMPVPK-UHFFFAOYSA-N
Formula:	C13H11F5O2
SMILES:	O=C(Oc1c(F)c(F)c(F)c(F)c1F)C1CCCCC1
Mol. weight [g/mol]:	294.22

## Physical Properties

Property code	Value	Unit	Source
gf	-1060.68	kJ/mol	Joback Method
hf	-1303.50	kJ/mol	Joback Method
hfus	31.54	kJ/mol	Joback Method
hvap	55.62	kJ/mol	Joback Method
log10ws	-5.19		Crippen Method
logp	3.868		Crippen Method
mcvol	175.700	ml/mol	McGowan Method
pc	2096.50	kPa	Joback Method
rinsol	1487.00		NIST Webbook
tb	640.61	K	Joback Method
tc	835.72	K	Joback Method
tf	407.78	K	Joback Method
vc	0.703	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	471.86	J/mol×K	640.61	Joback Method
cpg	485.96	J/mol×K	673.13	Joback Method
cpg	499.27	J/mol×K	705.65	Joback Method
cpg	511.79	J/mol×K	738.16	Joback Method
cpg	523.52	J/mol×K	770.68	Joback Method
cpg	534.47	J/mol×K	803.20	Joback Method
cpg	544.64	J/mol×K	835.72	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=U354648&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354648&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>

# 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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