

# 4-Chlorobutyric acid, pentafluorophenyl ester

<b>Inchi:</b>	InChI=1S/C10H6ClF5O2/c11-3-1-2-4(17)18-10-8(15)6(13)5(12)7(14)9(10)16/h1-3H2
<b>InchiKey:</b>	OASWZKFZGUCTGJ-UHFFFAOYSA-N
<b>Formula:</b>	C10H6ClF5O2
<b>SMILES:</b>	O=C(CCCCl)Oc1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	288.60

## Physical Properties

Property code	Value	Unit	Source
gf	-1122.32	kJ/mol	Joback Method
hf	-1311.64	kJ/mol	Joback Method
hfus	36.14	kJ/mol	Joback Method
hvap	52.90	kJ/mol	Joback Method
log10ws	-4.43		Crippen Method
logp	3.306		Crippen Method
mcvol	156.530	ml/mol	McGowan Method
pc	2187.68	kPa	Joback Method
rinpol	1366.00		NIST Webbook
rinpol	1369.00		NIST Webbook
rinpol	1366.00		NIST Webbook
tb	589.85	K	Joback Method
tc	767.28	K	Joback Method
tf	396.51	K	Joback Method
vc	0.650	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	363.77	J/molxK	589.85	Joback Method
cpg	372.75	J/molxK	619.42	Joback Method
cpg	381.34	J/molxK	648.99	Joback Method
cpg	389.54	J/molxK	678.56	Joback Method
cpg	397.35	J/molxK	708.13	Joback Method
cpg	404.76	J/molxK	737.71	Joback Method
cpg	411.77	J/molxK	767.28	Joback Method

# Sources

<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=U360638&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360638&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>

# 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>h vap:</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>r in pol:</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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