

# Pentafluorobenzoic acid, 2,3,4,6-tetrachlorophenyl ester

<b>Inchi:</b>	InChI=1S/C13HCl4F5O2/c14-2-1-3(15)12(6(17)5(2)16)24-13(23)4-7(18)9(20)11(22)10(2
<b>InchiKey:</b>	CDGADYJJBKICNY-UHFFFAOYSA-N
<b>Formula:</b>	C13HCl4F5O2
<b>SMILES:</b>	O=C(Oc1c(Cl)cc(Cl)c(Cl)c1Cl)c1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	425.95

## Physical Properties

Property code	Value	Unit	Source
gf	-1058.96	kJ/mol	Joback Method
hf	-1230.13	kJ/mol	Joback Method
hfus	48.98	kJ/mol	Joback Method
hvap	77.65	kJ/mol	Joback Method
log10ws	-7.96		Crippen Method
logp	6.215		Crippen Method
mcvol	211.760	ml/mol	McGowan Method
pc	1947.51	kPa	Joback Method
rinsol	2110.00		NIST Webbook
tb	817.38	K	Joback Method
tc	1035.08	K	Joback Method
tf	596.58	K	Joback Method
vc	0.858	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	474.73	J/mol×K	817.38	Joback Method
cpg	481.41	J/mol×K	853.66	Joback Method
cpg	487.43	J/mol×K	889.95	Joback Method
cpg	492.78	J/mol×K	926.23	Joback Method
cpg	497.45	J/mol×K	962.51	Joback Method
cpg	501.43	J/mol×K	998.79	Joback Method
cpg	504.71	J/mol×K	1035.08	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U360632&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360632&amp;Units=SI</a>
<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>

# 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>mccvol:</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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