

# 4-sec-Butylphenol, pentafluorobenzoyl ester

<b>Inchi:</b>	InChI=1S/C17H13F5O2/c1-3-8(2)9-4-6-10(7-5-9)24-17(23)11-12(18)14(20)16(22)15(21)
<b>InchiKey:</b>	HZOMKCOPLFCGAT-UHFFFAOYSA-N
<b>Formula:</b>	C17H13F5O2
<b>SMILES:</b>	CCC(C)c1ccc(OC(=O)c2c(F)c(F)c(F)c(F)c2F)cc1
<b>Mol. weight [g/mol]:</b>	344.28

## Physical Properties

Property code	Value	Unit	Source
gf	-951.11	kJ/mol	Joback Method
hf	-1220.60	kJ/mol	Joback Method
hfus	40.20	kJ/mol	Joback Method
hvap	66.64	kJ/mol	Joback Method
log10ws	-6.82		Crippen Method
logp	5.115		Crippen Method
mcvol	219.160	ml/mol	McGowan Method
pc	1667.33	kPa	Joback Method
rinpol	1830.50		NIST Webbook
rinpol	1823.60		NIST Webbook
rinpol	1823.60		NIST Webbook
rinpol	1826.70		NIST Webbook
tb	743.80	K	Joback Method
tc	940.66	K	Joback Method
tf	469.42	K	Joback Method
vc	0.879	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	606.03	J/molxK	743.80	Joback Method
cpg	618.82	J/molxK	776.61	Joback Method
cpg	630.79	J/molxK	809.42	Joback Method
cpg	641.93	J/molxK	842.23	Joback Method
cpg	652.27	J/molxK	875.04	Joback Method
cpg	661.82	J/molxK	907.85	Joback Method

## Sources

<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>
<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=R433337&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R433337&amp;Units=SI</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>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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