

# 3-Isopropylphenol, pentafluorobenzoyl ester

**Inchi:** InChI=1S/C16H11F5O2/c1-7(2)8-4-3-5-9(6-8)23-16(22)10-11(17)13(19)15(21)14(20)12(24)16  
**InchiKey:** BOTYGERWLHEW NX-UHFFFAOYSA-N  
**Formula:** C16H11F5O2  
**SMILES:** CC(C)c1cccc(OC(=O)c2c(F)c(F)c(F)c(F)c2F)c1  
**Mol. weight [g/mol]:** 330.25

## Physical Properties

Property code	Value	Unit	Source
gf	-959.53	kJ/mol	Joback Method
hf	-1199.96	kJ/mol	Joback Method
hfus	37.61	kJ/mol	Joback Method
hvap	64.42	kJ/mol	Joback Method
log10ws	-6.40		Crippen Method
logp	4.725		Crippen Method
mcvol	205.070	ml/mol	McGowan Method
pc	1806.16	kPa	Joback Method
rinpol	1707.10		NIST Webbook
rinpol	1708.80		NIST Webbook
rinpol	1710.40		NIST Webbook
tb	720.92	K	Joback Method
tc	919.23	K	Joback Method
tf	458.15	K	Joback Method
vc	0.824	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	552.85	J/molxK	720.92	Joback Method
cpg	565.19	J/molxK	753.97	Joback Method
cpg	576.75	J/molxK	787.02	Joback Method
cpg	587.52	J/molxK	820.08	Joback Method
cpg	597.52	J/molxK	853.13	Joback Method
cpg	606.77	J/molxK	886.18	Joback Method
cpg	615.26	J/molxK	919.23	Joback Method

# Sources

<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=R433184&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R433184&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>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

# 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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