

# 4-n-Hexylphenol, pentafluorobenzoyl ester

<b>Inchi:</b>	InChI=1S/C19H17F5O2/c1-2-3-4-5-6-11-7-9-12(10-8-11)26-19(25)13-14(20)16(22)18(24)
<b>InchiKey:</b>	KHSBSUDOQXFKNZ-UHFFFAOYSA-N
<b>Formula:</b>	C19H17F5O2
<b>SMILES:</b>	CCCCCc1ccc(OC(=O)c2c(F)c(F)c(F)c(F)c2F)cc1
<b>Mol. weight [g/mol]:</b>	372.33

## Physical Properties

Property code	Value	Unit	Source
gf	-931.83	kJ/mol	Joback Method
hf	-1256.60	kJ/mol	Joback Method
hfus	48.90	kJ/mol	Joback Method
hvap	71.48	kJ/mol	Joback Method
log10ws	-7.69		Crippen Method
logp	5.724		Crippen Method
mcvol	247.340	ml/mol	McGowan Method
pc	1425.07	kPa	Joback Method
rinpol	2082.40		NIST Webbook
rinpol	2075.20		NIST Webbook
rinpol	2078.60		NIST Webbook
rinpol	2075.20		NIST Webbook
tb	790.00	K	Joback Method
tc	983.50	K	Joback Method
tf	506.96	K	Joback Method
vc	0.998	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	715.17	J/molxK	790.00	Joback Method
cpg	728.58	J/molxK	822.25	Joback Method
cpg	741.11	J/molxK	854.50	Joback Method
cpg	752.78	J/molxK	886.75	Joback Method
cpg	763.59	J/molxK	919.00	Joback Method
cpg	773.58	J/molxK	951.25	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=R434474&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R434474&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>

## 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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