

# 3,4-Dimethylphenol, pentafluorobenzoyl ester

<b>Inchi:</b>	InChI=1S/C15H9F5O2/c1-6-3-4-8(5-7(6)2)22-15(21)9-10(16)12(18)14(20)13(19)11(9)17
<b>InchiKey:</b>	BSTAMMRKQQEVQJ-UHFFFAOYSA-N
<b>Formula:</b>	C15H9F5O2
<b>SMILES:</b>	Cc1ccc(OC(=O)c2c(F)c(F)c(F)c(F)c2F)cc1C
<b>Mol. weight [g/mol]:</b>	316.22

## Physical Properties

Property code	Value	Unit	Source
gf	-975.14	kJ/mol	Joback Method
hf	-1185.51	kJ/mol	Joback Method
hfus	38.15	kJ/mol	Joback Method
hvap	63.24	kJ/mol	Joback Method
log10ws	-6.17		Crippen Method
logp	4.218		Crippen Method
mcvol	190.980	ml/mol	McGowan Method
pc	1923.67	kPa	Joback Method
rinpol	1714.40		NIST Webbook
rinpol	1708.00		NIST Webbook
rinpol	1710.90		NIST Webbook
rinpol	1708.00		NIST Webbook
tb	703.46	K	Joback Method
tc	901.36	K	Joback Method
tf	474.40	K	Joback Method
vc	0.773	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	499.10	J/molxK	703.46	Joback Method
cpg	510.61	J/molxK	736.44	Joback Method
cpg	521.42	J/molxK	769.43	Joback Method
cpg	531.54	J/molxK	802.41	Joback Method
cpg	540.97	J/molxK	835.40	Joback Method
cpg	549.70	J/molxK	868.38	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=R433159&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R433159&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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