

# 2,3,6-Trimethylphenol, pentafluorobenzoyl ester

Inchi:	InChI=1S/C16H11F5O2/c1-6-4-5-7(2)15(8(6)3)23-16(22)9-10(17)12(19)14(21)13(20)11(9)
InchiKey:	UPZDETHWGKIHJR-UHFFFAOYSA-N
Formula:	C16H11F5O2
SMILES:	Cc1ccc(C)c(OC(=O)c2c(F)c(F)c(F)c(F)c2F)c1C
Mol. weight [g/mol]:	330.25

## Physical Properties

Property code	Value	Unit	Source
gf	-976.35	kJ/mol	Joback Method
hf	-1217.62	kJ/mol	Joback Method
hfus	40.35	kJ/mol	Joback Method
hvap	66.13	kJ/mol	Joback Method
log10ws	-6.64		Crippen Method
logp	4.527		Crippen Method
mcvol	205.070	ml/mol	McGowan Method
pc	1749.21	kPa	Joback Method
rinpol	1756.90		NIST Webbook
rinpol	1761.10		NIST Webbook
rinpol	1766.70		NIST Webbook
rinpol	1756.90		NIST Webbook
tb	731.32	K	Joback Method
tc	928.38	K	Joback Method
tf	498.19	K	Joback Method
vc	0.830	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	549.91	J/molxK	731.32	Joback Method
cpg	561.85	J/molxK	764.16	Joback Method
cpg	573.08	J/molxK	797.01	Joback Method
cpg	583.57	J/molxK	829.85	Joback Method
cpg	593.34	J/molxK	862.69	Joback Method
cpg	602.38	J/molxK	895.54	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=R433000&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R433000&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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