

# 4'-Hydroxy-3'-methoxyacetophenone, heptafluorobutyrate

<b>Inchi:</b>	InChI=1S/C13H9F7O4/c1-6(21)7-3-4-8(9(5-7)23-2)24-10(22)11(14,15)12(16,17)13(18,19)
<b>InchiKey:</b>	OZXPCJJAUGSZNL-UHFFFAOYSA-N
<b>Formula:</b>	C13H9F7O4
<b>SMILES:</b>	COc1cc(C(C)=O)ccc1OC(=O)C(F)(F)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	362.20

## Physical Properties

Property code	Value	Unit	Source
gf	-1671.26	kJ/mol	Joback Method
hf	-1986.68	kJ/mol	Joback Method
hfus	27.58	kJ/mol	Joback Method
hvap	56.84	kJ/mol	Joback Method
log10ws	-4.69		Crippen Method
logp	3.636		Crippen Method
mcvol	197.540	ml/mol	McGowan Method
pc	1840.41	kPa	Joback Method
rinpol	1465.00		NIST Webbook
tb	671.26	K	Joback Method
tc	855.52	K	Joback Method
tf	443.44	K	Joback Method
vc	0.796	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	551.66	J/molxK	671.26	Joback Method
cpg	562.74	J/molxK	701.97	Joback Method
cpg	573.00	J/molxK	732.68	Joback Method
cpg	582.49	J/molxK	763.39	Joback Method
cpg	591.25	J/molxK	794.10	Joback Method
cpg	599.32	J/molxK	824.81	Joback Method
cpg	606.75	J/molxK	855.52	Joback Method

# Sources

<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=U375932&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U375932&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>

# 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>hvac:</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>mccol:</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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