

# 2,3,4,5,6-Pentafluorobenzhydrol

<b>Inchi:</b>	InChI=1S/C13H7F5O/c14-8-7(9(15)11(17)12(18)10(8)16)13(19)6-4-2-1-3-5-6/h1-5,13,19
<b>InchiKey:</b>	PMIIFKURPQGSMI-UHFFFAOYSA-N
<b>Formula:</b>	C13H7F5O
<b>SMILES:</b>	OC(c1ccccc1)c1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	274.19
<b>CAS:</b>	27599-16-2

## Physical Properties

Property code	Value	Unit	Source
gf	-878.06	kJ/mol	Joback Method
hf	-1034.00	kJ/mol	Joback Method
hfus	31.53	kJ/mol	Joback Method
hvap	64.60	kJ/mol	Joback Method
log10ws	-4.95		Crippen Method
logp	3.464		Crippen Method
mcvol	161.230	ml/mol	McGowan Method
pc	2490.03	kPa	Joback Method
tb	663.19	K	Joback Method
tc	851.74	K	Joback Method
tf	400.48	K	Joback Method
vc	0.650	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	413.88	J/molxK	663.19	Joback Method
cpg	423.82	J/molxK	694.62	Joback Method
cpg	433.17	J/molxK	726.04	Joback Method
cpg	441.93	J/molxK	757.47	Joback Method
cpg	450.14	J/molxK	788.89	Joback Method
cpg	457.81	J/molxK	820.32	Joback Method
cpg	464.96	J/molxK	851.74	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=C27599162&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C27599162&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.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>

# 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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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