

# p-Hydroxyphenylacetic acid, acetyl, DTFMBz

<b>Inchi:</b>	InChI=1S/C19H14F6O4/c1-11(26)29-16-4-2-12(3-5-16)8-17(27)28-10-13-6-14(18(20,21)
<b>InchiKey:</b>	MPHHUIBCLHIUDZ-UHFFFAOYSA-N
<b>Formula:</b>	C19H14F6O4
<b>SMILES:</b>	CC(=O)Oc1ccc(CC(=O)OCc2cc(C(F)(F)F)cc(C(F)(F)F)c2)cc1
<b>Mol. weight [g/mol]:</b>	420.30

## Physical Properties

Property code	Value	Unit	Source
gf	-1325.99	kJ/mol	Joback Method
hf	-1680.60	kJ/mol	Joback Method
hfus	41.11	kJ/mol	Joback Method
hvap	75.24	kJ/mol	Joback Method
log10ws	-6.19		Crippen Method
logp	4.935		Crippen Method
mcvol	256.550	ml/mol	McGowan Method
pc	1519.94	kPa	Joback Method
rinpola	1961.00		NIST Webbook
rinpola	1961.00		NIST Webbook
tb	844.16	K	Joback Method
tc	1049.64	K	Joback Method
tf	546.99	K	Joback Method
vc	1.018	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	769.31	J/molxK	844.16	Joback Method
cpg	780.74	J/molxK	878.41	Joback Method
cpg	791.19	J/molxK	912.65	Joback Method
cpg	800.71	J/molxK	946.90	Joback Method
cpg	809.37	J/molxK	981.14	Joback Method
cpg	817.21	J/molxK	1015.39	Joback Method
cpg	824.31	J/molxK	1049.64	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=R539014&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R539014&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>

# Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rin<sub>pol</sub>:</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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