

# Benzoic acid, 3-(pentafluoropropionyloxy)-

<b>Inchi:</b>	InChI=1S/C10H5F5O4/c11-9(12,10(13,14)15)8(18)19-6-3-1-2-5(4-6)7(16)17/h1-4H,(H,16)
<b>InchiKey:</b>	YMSPVHHCPYGTAH-UHFFFAOYSA-N
<b>Formula:</b>	C10H5F5O4
<b>SMILES:</b>	O=C(O)c1ccccc(OC(=O)C(F)(F)C(F)(F)F)c1
<b>Mol. weight [g/mol]:</b>	284.14

## Physical Properties

Property code	Value	Unit	Source
gf	-1331.93	kJ/mol	Joback Method
hf	-1532.33	kJ/mol	Joback Method
hfus	24.35	kJ/mol	Joback Method
hvap	66.70	kJ/mol	Joback Method
log10ws	-3.24		Crippen Method
logp	2.488		Crippen Method
mvol	151.730	ml/mol	McGowan Method
pc	2928.17	kPa	Joback Method
rinpol	1332.00		NIST Webbook
rinpol	1332.00		NIST Webbook
tb	672.09	K	Joback Method
tc	858.93	K	Joback Method
tf	432.10	K	Joback Method
vc	0.605	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	408.90	J/molxK	672.09	Joback Method
cpg	416.99	J/molxK	703.23	Joback Method
cpg	424.43	J/molxK	734.37	Joback Method
cpg	431.26	J/molxK	765.51	Joback Method
cpg	437.52	J/molxK	796.65	Joback Method
cpg	443.25	J/molxK	827.79	Joback Method
cpg	448.49	J/molxK	858.93	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U375034&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U375034&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>
<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>

# 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>hvp:</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>rinp:</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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