

# Benzoic acid, 3-(heptafluorobutyryloxy)-

<b>Inchi:</b>	InChI=1S/C11H5F7O4/c12-9(13,10(14,15)11(16,17)18)8(21)22-6-3-1-2-5(4-6)7(19)20/h1
<b>InchiKey:</b>	QUDW SOPBFCWKGP-UHFFFAOYSA-N
<b>Formula:</b>	C11H5F7O4
<b>SMILES:</b>	O=C(O)c1cccc(OC(=O)C(F)(F)C(F)(F)C(F)(F)F)c1
<b>Mol. weight [g/mol]:</b>	334.14

## Physical Properties

Property code	Value	Unit	Source
gf	-1710.29	kJ/mol	Joback Method
hf	-1953.94	kJ/mol	Joback Method
hfus	25.69	kJ/mol	Joback Method
hvap	65.99	kJ/mol	Joback Method
log10ws	-3.97		Crippen Method
logp	3.123		Crippen Method
mcvol	169.360	ml/mol	McGowan Method
pc	2462.92	kPa	Joback Method
rinqol	1371.00		NIST Webbook
tb	690.28	K	Joback Method
tc	871.19	K	Joback Method
tf	446.97	K	Joback Method
vc	0.685	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	477.05	J/molxK	690.28	Joback Method
cpg	485.15	J/molxK	720.43	Joback Method
cpg	492.56	J/molxK	750.58	Joback Method
cpg	499.34	J/molxK	780.73	Joback Method
cpg	505.53	J/molxK	810.88	Joback Method
cpg	511.20	J/molxK	841.03	Joback Method
cpg	516.39	J/molxK	871.19	Joback Method

# Sources

<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.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=U375032&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U375032&amp;Units=SI</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>mccvol:</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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