

# Benzoic acid, 3-(heptafluorobutrylamino)-

<b>Inchi:</b>	InChI=1S/C11H6F7NO3/c12-9(13,10(14,15)11(16,17)18)8(22)19-6-3-1-2-5(4-6)7(20)21/H
<b>InchiKey:</b>	RIEFKYYVBXCIQO-UHFFFAOYSA-N
<b>Formula:</b>	C11H6F7NO3
<b>SMILES:</b>	O=C(O)c1cccc(NC(=O)C(F)(F)C(F)(F)C(F)(F)F)c1
<b>Mol. weight [g/mol]:</b>	333.16

## Physical Properties

Property code	Value	Unit	Source
gf	-1515.90	kJ/mol	Joback Method
hf	-1768.25	kJ/mol	Joback Method
hfus	29.60	kJ/mol	Joback Method
hvap	70.02	kJ/mol	Joback Method
log10ws	-3.86		Crippen Method
logp	3.156		Crippen Method
mvol	173.470	ml/mol	McGowan Method
pc	2537.93	kPa	Joback Method
rinpol	1652.00		NIST Webbook
tb	718.03	K	Joback Method
tc	901.87	K	Joback Method
tf	477.40	K	Joback Method
vc	0.703	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	499.80	J/mol×K	718.03	Joback Method
cpg	507.71	J/mol×K	748.67	Joback Method
cpg	514.93	J/mol×K	779.31	Joback Method
cpg	521.54	J/mol×K	809.95	Joback Method
cpg	527.60	J/mol×K	840.59	Joback Method
cpg	533.18	J/mol×K	871.23	Joback Method
cpg	538.33	J/mol×K	901.87	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=U375106&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U375106&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</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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