

# Benzamide, 3,4-difluoro-N-butyl-

<b>Inchi:</b>	InChI=1S/C11H13F2NO/c1-2-3-6-14-11(15)8-4-5-9(12)10(13)7-8/h4-5,7H,2-3,6H2,1H3,(
<b>InchiKey:</b>	FFRNJJOBQELT-UHFFFAOYSA-N
<b>Formula:</b>	C11H13F2NO
<b>SMILES:</b>	CCCCNC(=O)c1ccc(F)c(F)c1
<b>Mol. weight [g/mol]:</b>	213.22

## Physical Properties

Property code	Value	Unit	Source
gf	-294.26	kJ/mol	Joback Method
hf	-508.11	kJ/mol	Joback Method
hfus	30.37	kJ/mol	Joback Method
hvap	55.23	kJ/mol	Joback Method
log10ws	-3.74		Crippen Method
logp	2.495		Crippen Method
mvol	157.180	ml/mol	McGowan Method
pc	2532.82	kPa	Joback Method
rinpol	1633.00		NIST Webbook
tb	590.30	K	Joback Method
tc	784.94	K	Joback Method
tf	368.96	K	Joback Method
vc	0.621	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	386.60	J/mol×K	590.30	Joback Method
cpg	399.37	J/mol×K	622.74	Joback Method
cpg	411.45	J/mol×K	655.18	Joback Method
cpg	422.84	J/mol×K	687.62	Joback Method
cpg	433.58	J/mol×K	720.06	Joback Method
cpg	443.69	J/mol×K	752.50	Joback Method
cpg	453.18	J/mol×K	784.94	Joback Method

# Sources

<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>
<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=U407790&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407790&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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