

# Benzamide, 3-fluoro-4-trifluoromethyl-N-butyl-

<b>Inchi:</b>	InChI=1S/C12H13F4NO/c1-2-3-6-17-11(18)8-4-5-9(10(13)7-8)12(14,15)16/h4-5,7H,2-3,6
<b>InchiKey:</b>	GNXFAERYUXEUEZ-UHFFFAOYSA-N
<b>Formula:</b>	C12H13F4NO
<b>SMILES:</b>	CCCCNC(=O)c1ccc(C(F)(F)F)c(F)c1
<b>Mol. weight [g/mol]:</b>	263.23

## Physical Properties

Property code	Value	Unit	Source
gf	-672.62	kJ/mol	Joback Method
hf	-929.72	kJ/mol	Joback Method
hfus	31.70	kJ/mol	Joback Method
hvap	54.52	kJ/mol	Joback Method
log10ws	-4.51		Crippen Method
logp	3.374		Crippen Method
mvol	174.810	ml/mol	McGowan Method
pc	2155.30	kPa	Joback Method
rinpol	1612.00		NIST Webbook
rinpol	1612.00		NIST Webbook
tb	608.49	K	Joback Method
tc	794.47	K	Joback Method
tf	383.83	K	Joback Method
vc	0.702	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	454.87	J/molxK	608.49	Joback Method
cpg	467.71	J/molxK	639.49	Joback Method
cpg	479.77	J/molxK	670.48	Joback Method
cpg	491.09	J/molxK	701.48	Joback Method
cpg	501.71	J/molxK	732.47	Joback Method
cpg	511.67	J/molxK	763.47	Joback Method
cpg	520.99	J/molxK	794.47	Joback Method

# Sources

<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U407886&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407886&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>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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