

# Benzamide, N-(2-fluorophenyl)-2,3,4-trifluoro-

<b>Inchi:</b>	InChI=1S/C13H7F4NO/c14-8-3-1-2-4-10(8)18-13(19)7-5-6-9(15)12(17)11(7)16/h1-6H,(H
<b>InchiKey:</b>	SATVVQKUUXWOMI-UHFFFAOYSA-N
<b>Formula:</b>	C13H7F4NO
<b>SMILES:</b>	O=C(Nc1ccccc1F)c1ccc(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	269.19

## Physical Properties

Property code	Value	Unit	Source
gf	-573.89	kJ/mol	Joback Method
hf	-728.02	kJ/mol	Joback Method
hfus	34.97	kJ/mol	Joback Method
hvap	61.65	kJ/mol	Joback Method
log10ws	-4.77		Crippen Method
logp	3.495		Crippen Method
mcvol	165.140	ml/mol	McGowan Method
pc	2581.96	kPa	Joback Method
rinpol	1715.00		NIST Webbook
rinpol	1715.00		NIST Webbook
tb	671.24	K	Joback Method
tc	881.70	K	Joback Method
tf	444.14	K	Joback Method
vc	0.660	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	418.54	J/molxK	671.24	Joback Method
cpg	429.70	J/molxK	706.32	Joback Method
cpg	440.06	J/molxK	741.39	Joback Method
cpg	449.66	J/molxK	776.47	Joback Method
cpg	458.53	J/molxK	811.55	Joback Method
cpg	466.70	J/molxK	846.63	Joback Method
cpg	474.20	J/molxK	881.70	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=U308417&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308417&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>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rin<sub>pol</sub>:</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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