

# Benzamide, 2,3,4-trifluoro-N-butyl-N-isobutyl-

<b>Inchi:</b>	InChI=1S/C15H20F3NO/c1-4-5-8-19(9-10(2)3)15(20)11-6-7-12(16)14(18)13(11)17/h6-7,
<b>InchiKey:</b>	BFPYAAAYNCQNQJK-UHFFFAOYSA-N
<b>Formula:</b>	C15H20F3NO
<b>SMILES:</b>	CCCCN(CC(C)C)C(=O)c1ccc(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	287.32

## Physical Properties

Property code	Value	Unit	Source
gf	-446.07	kJ/mol	Joback Method
hf	-789.47	kJ/mol	Joback Method
hfus	37.82	kJ/mol	Joback Method
hvap	59.20	kJ/mol	Joback Method
log10ws	-4.88		Crippen Method
logp	4.002		Crippen Method
mcvol	215.310	ml/mol	McGowan Method
pc	1682.41	kPa	Joback Method
rinpol	1920.00		NIST Webbook
rinpol	1920.00		NIST Webbook
tb	647.90	K	Joback Method
tc	828.45	K	Joback Method
tf	391.96	K	Joback Method
vc	0.840	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	581.02	J/mol×K	647.90	Joback Method
cpg	596.19	J/mol×K	677.99	Joback Method
cpg	610.58	J/mol×K	708.08	Joback Method
cpg	624.19	J/mol×K	738.18	Joback Method
cpg	637.07	J/mol×K	768.27	Joback Method
cpg	649.23	J/mol×K	798.36	Joback Method
cpg	660.71	J/mol×K	828.45	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U415679&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415679&amp;Units=SI</a>
<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.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>

# 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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