

# Benzamide, 3-fluoro-5-trifluoromethyl-N-nonyl-

<b>Inchi:</b>	InChI=1S/C17H23F4NO/c1-2-3-4-5-6-7-8-9-22-16(23)13-10-14(17(19,20)21)12-15(18)11
<b>InchiKey:</b>	JNBAUMHSUFSUIB-UHFFFAOYSA-N
<b>Formula:</b>	C17H23F4NO
<b>SMILES:</b>	CCCCCCCCNC(=O)c1cc(F)cc(C(F)(F)F)c1
<b>Mol. weight [g/mol]:</b>	333.36

## Physical Properties

Property code	Value	Unit	Source
gf	-630.52	kJ/mol	Joback Method
hf	-1032.92	kJ/mol	Joback Method
hfus	44.65	kJ/mol	Joback Method
hvap	65.65	kJ/mol	Joback Method
log10ws	-6.60		Crippen Method
logp	5.325		Crippen Method
mvol	245.260	ml/mol	McGowan Method
pc	1441.35	kPa	Joback Method
rinpol	2012.00		NIST Webbook
rinpol	2012.00		NIST Webbook
tb	722.89	K	Joback Method
tc	904.04	K	Joback Method
tf	440.18	K	Joback Method
vc	0.982	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	717.67	J/molxK	722.89	Joback Method
cpg	732.72	J/molxK	753.08	Joback Method
cpg	746.92	J/molxK	783.27	Joback Method
cpg	760.29	J/molxK	813.47	Joback Method
cpg	772.90	J/molxK	843.66	Joback Method
cpg	784.77	J/molxK	873.85	Joback Method
cpg	795.95	J/molxK	904.04	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U407859&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407859&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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