

# Benzamide, 2,3,4-trifluoro-N-nonyl-

<b>Inchi:</b>	InChI=1S/C16H22F3NO/c1-2-3-4-5-6-7-8-11-20-16(21)12-9-10-13(17)15(19)14(12)18/h9
<b>InchiKey:</b>	PROFNFFAEGULRF-UHFFFAOYSA-N
<b>Formula:</b>	C16H22F3NO
<b>SMILES:</b>	CCCCCCCCNC(=O)c1ccc(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	301.35

## Physical Properties

Property code	Value	Unit	Source
gf	-456.60	kJ/mol	Joback Method
hf	-818.89	kJ/mol	Joback Method
hfus	46.01	kJ/mol	Joback Method
hvap	66.20	kJ/mol	Joback Method
log10ws	-6.16		Crippen Method
logp	4.584		Crippen Method
mvol	229.400	ml/mol	McGowan Method
pc	1565.99	kPa	Joback Method
rinpol	2034.00		NIST Webbook
rinpol	2034.00		NIST Webbook
tb	708.95	K	Joback Method
tc	890.18	K	Joback Method
tf	438.42	K	Joback Method
vc	0.918	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	651.82	J/mol×K	708.95	Joback Method
cpg	666.58	J/mol×K	739.15	Joback Method
cpg	680.57	J/mol×K	769.36	Joback Method
cpg	693.80	J/mol×K	799.56	Joback Method
cpg	706.30	J/mol×K	829.77	Joback Method
cpg	718.09	J/mol×K	859.97	Joback Method
cpg	729.20	J/mol×K	890.18	Joback Method

# Sources

<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=U407268&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407268&amp;Units=SI</a>
<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>

# 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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