

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

<b>Inchi:</b>	InChI=1S/C14H17F4NO/c1-2-3-4-5-8-19-13(20)10-6-7-11(12(15)9-10)14(16,17)18/h6-7,9
<b>InchiKey:</b>	NEDOPJDXZJZBOE-UHFFFAOYSA-N
<b>Formula:</b>	C14H17F4NO
<b>SMILES:</b>	CCCCCCNC(=O)c1ccc(C(F)(F)F)c(F)c1
<b>Mol. weight [g/mol]:</b>	291.28

## Physical Properties

Property code	Value	Unit	Source
gf	-655.78	kJ/mol	Joback Method
hf	-971.00	kJ/mol	Joback Method
hfus	36.88	kJ/mol	Joback Method
hvap	58.98	kJ/mol	Joback Method
log10ws	-5.34		Crippen Method
logp	4.155		Crippen Method
mcvol	202.990	ml/mol	McGowan Method
pc	1816.95	kPa	Joback Method
rinpol	1798.00		NIST Webbook
rinpol	1798.00		NIST Webbook
tb	654.25	K	Joback Method
tc	837.13	K	Joback Method
tf	406.37	K	Joback Method
vc	0.814	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	556.13	J/mol×K	654.25	Joback Method
cpg	569.98	J/mol×K	684.73	Joback Method
cpg	583.01	J/mol×K	715.21	Joback Method
cpg	595.27	J/mol×K	745.69	Joback Method
cpg	606.80	J/mol×K	776.17	Joback Method
cpg	617.63	J/mol×K	806.65	Joback Method
cpg	627.81	J/mol×K	837.13	Joback Method

# Sources

<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=U407890&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407890&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.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>

# 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>h vap:</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>r in pol:</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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