

# Methanamine, 1,1,1-trifluoro-N-[2,2,2-trifluoro-1-(trifluoromethyl)]

<b>Other names:</b>	Methylamine, 1,1,1-trifluoro-N-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]- Methylamine, trifluoro-N-[trifluoro-1-(trifluoromethyl)ethylidene]- 1,1,1-Trifluoro-N-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]-methanamine
<b>Inchi:</b>	InChI=1S/C4F9N/c5-2(6,7)1(3(8,9)10)14-4(11,12)13
<b>InchiKey:</b>	NPHAEKPPAZLGTQ-UHFFFAOYSA-N
<b>Formula:</b>	C4F9N
<b>SMILES:</b>	FC(F)(F)N=C(C(F)(F)F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	233.04
<b>CAS:</b>	453-22-5

## Physical Properties

Property code	Value	Unit	Source
hf	-1844.70	kJ/mol	Joback Method
hvap	16.65	kJ/mol	Joback Method
log10ws	-3.14		Crippen Method
logp	3.072		Crippen Method
mcvol	88.830	ml/mol	McGowan Method
pc	2379.54	kPa	Joback Method
tb	351.22	K	Joback Method
tc	493.99	K	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	22.20	kJ/mol	288.00	NIST Webbook

## 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=C453225&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C453225&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>

**Crippen Method:**

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

**Joback Method:**

[https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

## Legend

<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

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