

# CH3CH2NNN

**Inchi:** InChI=1S/C2H5N3/c1-2-4-5-3/h2H2,1H3  
**InchiKey:** UCSVJZQSZZAKLD-UHFFFAOYSA-N  
**Formula:** C2H5N3  
**SMILES:** CCN=[N+]=[N-]  
**Mol. weight [g/mol]:** 71.08  
**CAS:** 871-31-8

## Physical Properties

Property code	Value	Unit	Source
affp	878.00	kJ/mol	NIST Webbook
basg	845.50	kJ/mol	NIST Webbook
log10ws	-5.75		Crippen Method
logp	1.317		Crippen Method
mcvol	60.380	ml/mol	McGowan Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	31.50	kJ/mol	308.00	NIST Webbook
hvapt	28.90	kJ/mol	275.50	NIST Webbook

## Sources

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)  
**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C871318&Units=SI>

# Legend

<b>affp:</b>	Proton affinity
<b>basg:</b>	Gas basicity
<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

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