

# Diethyldiazene

**Inchi:** InChI=1S/C4H10N2/c1-3-5-6-4-2/h3-4H2,1-2H3  
**InchiKey:** INTMMHZKGCQGT-UHFFFAOYSA-N  
**Formula:** C4H10N2  
**SMILES:** CCN=NCC  
**Mol. weight [g/mol]:** 86.14  
**CAS:** 821-14-7

## Physical Properties

Property code	Value	Unit	Source
hf	-78.67	kJ/mol	Joback Method
hvap	31.17	kJ/mol	Joback Method
ie	8.70 ± 0.10	eV	NIST Webbook
log10ws	-0.76		Crippen Method
logp	1.478		Crippen Method
mvol	82.880	ml/mol	McGowan Method
pc	2878.12	kPa	Joback Method
tb	331.50 ± 0.50	K	NIST Webbook
tc	644.19	K	Joback Method

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C821147&Units=SI>  
**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)  
**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)  
**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

## Legend

**hf:** Enthalpy of formation at standard conditions  
**hvap:** Enthalpy of vaporization at standard conditions

<b>ie:</b>	Ionization energy
<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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