

# trans-di-2-butyl-diazene

**Inchi:** InChI=1S/C8H18N2/c1-5-7(3)9-10-8(4)6-2/h7-8H,5-6H2,1-4H3/b10-9+  
**InchiKey:** GRXNCUZPWWDKG-MDZDMXLPSA-N  
**Formula:** C8H18N2  
**SMILES:** CCC(C)N=NC(C)CC  
**Mol. weight [g/mol]:** 142.24

## Physical Properties

Property code	Value	Unit	Source
hf	-171.79	kJ/mol	Joback Method
hvap	39.30	kJ/mol	Joback Method
log10ws	-2.65		Crippen Method
logp	3.036		Crippen Method
mcvol	139.240	ml/mol	McGowan Method
pc	2007.30	kPa	Joback Method
rinpol	868.40		NIST Webbook
tb	530.76	K	Joback Method
tc	733.01	K	Joback Method

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=R166488&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  
**log10ws:** 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>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

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