

# N,N-Dimethyl-N'-octyl-isobutyramidine

**Inchi:** InChI=1S/C14H30N2/c1-6-7-8-9-10-11-12-15-14(13(2)3)16(4)5/h13H,6-12H2,1-5H3  
**InchiKey:** LIASDRFAWHBXTM-UHFFFAOYSA-N  
**Formula:** C14H30N2  
**SMILES:** CCCCCCCN=C(C(C)C)N(C)C  
**Mol. weight [g/mol]:** 226.40

## Physical Properties

Property code	Value	Unit	Source
hf	-197.61	kJ/mol	Joback Method
hvap	51.81	kJ/mol	Joback Method
log10ws	-3.67		Crippen Method
logp	3.963		Crippen Method
mcvol	223.780	ml/mol	McGowan Method
pc	1417.57	kPa	Joback Method
tb	608.28	K	Joback Method
tc	786.87	K	Joback Method

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=R162733&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  
**logp:** Octanol/Water partition coefficient

**mcvol:** McGowan's characteristic volume  
**pc:** Critical Pressure  
**tb:** Normal Boiling Point Temperature  
**tc:** Critical Temperature

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