

# N,N-Dimethyl-N'-decyl-propionamide

**Inchi:** InChI=1S/C15H32N2/c1-5-7-8-9-10-11-12-13-14-16-15(6-2)17(3)4/h5-14H2,1-4H3  
**InchiKey:** TWWHORUVBIISQU-UHFFFAOYSA-N  
**Formula:** C15H32N2  
**SMILES:** CCCCCCCCCN=C(CC)N(C)C  
**Mol. weight [g/mol]:** 240.43

## Physical Properties

Property code	Value	Unit	Source
hf	-212.97	kJ/mol	Joback Method
hvap	54.42	kJ/mol	Joback Method
log10ws	-4.33		Crippen Method
logp	4.497		Crippen Method
mcvol	237.870	ml/mol	McGowan Method
pc	1312.75	kPa	Joback Method
rinpol	1752.00		NIST Webbook
tb	631.60	K	Joback Method
tc	806.31	K	Joback Method

## Sources

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=R162035&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)

## 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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