

# N,N-Dimethyl-N'-phenyl-isobutyramidine

**Inchi:** InChI=1S/C12H18N2/c1-10(2)12(14(3)4)13-11-8-6-5-7-9-11/h5-10H,1-4H3/b13-12+  
**InchiKey:** CNYLPZSZRIDPTD-OUKQBFOZSA-N  
**Formula:** C12H18N2  
**SMILES:** CC(C)C(=Nc1ccccc1)N(C)C  
**Mol. weight [g/mol]:** 190.28

## Physical Properties

Property code	Value	Unit	Source
hf	80.20	kJ/mol	Joback Method
hvap	49.63	kJ/mol	Joback Method
log10ws	-2.54		Crippen Method
logp	2.934		Crippen Method
mcvol	171.840	ml/mol	McGowan Method
pc	2197.95	kPa	Joback Method
rinpol	1541.00		NIST Webbook
tb	589.20	K	Joback Method
tc	810.87	K	Joback Method

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=R162773&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

Latest version available from:

<https://www.cheméo.com/cid/62-147-0/N-N-Dimethyl-N-phenyl-isobutyramidine.pdf>

Generated by Cheméo on 2024-04-23 16:48:55.718370939 +0000 UTC m=+16180184.638948255.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.