

# N,N-Dimethyl-N'-cyclohexyl-isobutyramidine

**Inchi:** InChI=1S/C12H24N2/c1-10(2)12(14(3)4)13-11-8-6-5-7-9-11/h10-11H,5-9H2,1-4H3/b13-1  
**InchiKey:** FQCWHPFXQLLMGS-OUKQBFOZSA-N  
**Formula:** C12H24N2  
**SMILES:** CC(C)C(=NC1CCCCC1)N(C)C  
**Mol. weight [g/mol]:** 196.33

## Physical Properties

| Property code | Value   | Unit   | Source         |
|---------------|---------|--------|----------------|
| hf            | -102.01 | kJ/mol | Joback Method  |
| hvap          | 47.78   | kJ/mol | Joback Method  |
| log10ws       | -2.84   |        | Crippen Method |
| logp          | 2.935   |        | Crippen Method |
| mcvol         | 184.740 | ml/mol | McGowan Method |
| pc            | 1959.60 | kPa    | Joback Method  |
| rinpol        | 1473.00 |        | NIST Webbook   |
| rinpol        | 1473.00 |        | NIST Webbook   |
| tb            | 582.07  | K      | Joback Method  |
| tc            | 796.57  | K      | Joback Method  |

## Sources

**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>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=R162639&Units=SI>

## Legend

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

|                 |                                     |
|-----------------|-------------------------------------|
| <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>rinpol:</b>  | Non-polar retention indices         |
| <b>tb:</b>      | Normal Boiling Point Temperature    |
| <b>tc:</b>      | Critical Temperature                |

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