

# N-(4-Methylphenyl)-N'-(4-chlorophenyl)formamidi

**Inchi:** InChI=1S/C14H13ClN2/c1-11-2-6-13(7-3-11)16-10-17-14-8-4-12(15)5-9-14/h2-10H,1H3,  
**InchiKey:** MZOWVIMSPDCHOU-UHFFFAOYSA-N  
**Formula:** C14H13ClN2  
**SMILES:** Cc1ccc(NC=Nc2ccc(Cl)cc2)cc1  
**Mol. weight [g/mol]:** 244.72

## Physical Properties

| Property code | Value   | Unit   | Source         |
|---------------|---------|--------|----------------|
| hf            | 237.78  | kJ/mol | Joback Method  |
| hvap          | 66.77   | kJ/mol | Joback Method  |
| log10ws       | -4.52   |        | Crippen Method |
| logp          | 4.420   |        | Crippen Method |
| mcvol         | 188.500 | ml/mol | McGowan Method |
| pc            | 2358.78 | kPa    | Joback Method  |
| rinpol        | 2304.00 |        | NIST Webbook   |
| rinpol        | 2304.00 |        | NIST Webbook   |
| tb            | 747.32  | K      | Joback Method  |
| tc            | 1002.56 | K      | Joback Method  |

## Sources

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=R161656&Units=SI>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307I>  
**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

|                 |                                     |
|-----------------|-------------------------------------|
| <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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