# 5,6-DIAMINO-1,3-DIMETHYLURACIL

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|---|---|
| **Other names:** | 2,4(1H,3H)-Pyrimidinedione, 5,6-diamino-1,3-dimethyl-<br>Uracil, 5,6-diamino-1,3-dimethyl-<br>4,5-Diamino-1,3-dimethyluracil<br>5,6-diamino-1,3-dimethylpyrimidine-2,4(1H,3H)-dione |
| **Inchi:** | InChI=1S/C6H10N4O2/c1-9-4(8)3(7)5(11)10(2)6(9)12/h7-8H2,1-2H3 |
| **InchiKey:** | BGQNOPFTJROKJE-UHFFFAOYSA-N |
| **Formula:** | C6H10N4O2 |
| **SMILES:** | Cn1c(N)c(N)c(=O)n(C)c1=O |
| **Mol. weight [g/mol]:** | 170.17 |

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hf | -278.27 | kJ/mol | Cheméo Relay (1.0) |
| ie | 7.77 | eV | Cheméo Relay (1.0) |
| logp | -1.752 | | Crippen Method |
| mcvol | 123.300 | ml/mol | McGowan Method |
| tb | 604.66 | K | Cheméo Relay (1.0) |

## Sources

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|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **Cheméo Relay (1.0):** | |
| **Cheméo Relay (1.0, beta):** | |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C5440006&Units=SI |

## Legend

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|---|---|
| **hf:** | Enthalpy of formation at standard conditions |
| **ie:** | Ionization energy |

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|---|---|
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **tb:** | Normal Boiling Point Temperature |