# 6H-Purin-6-one, 2-amino-1,7-dihydro-7-methyl-

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|---|---|
| **Other names:** | 2-Amino-1,7-dihydro-7-methyl-6H-purin-6-one |
| | 2-Amino-7-methyl-1,7-dihydro-6H-purin-6-one |
| | 2-Amino-7-methylhypoxanthine |
| | 6H-Purin-6-one, 2-amino-1,7-dihydro-7-methyl- |
| | Guanine, 7-methyl- |
| | N7-Methylguanine |
| | NSC 193444 |
| **Inchi:** | InChI=1S/C6H7N5O/c1-11-2-8-4-3(11)5(12)10-6(7)9-4/h2H,1H3,(H3,7,9,10,12) |
| **InchiKey:** | FZWGECJQACGGTI-UHFFFAOYSA-N |
| **Formula:** | C6H7N5O |
| **SMILES:** | Cn1cnc2nc(N)[nH]c(=O)c21 |
| **Mol. weight [g/mol]:** | 165.16 |

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| ie | 8.41 | eV | Cheméo Relay (1.0) |
| log10ws | -2.13 | | Cheméo Relay (1.0) |
| logp | -1.243 | | Crippen Method |
| mcvol | 112.250 | ml/mol | McGowan Method |
| tf | 609.58 | K | Cheméo Relay (1.0) |

## Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C578767&Units=SI |
| **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):** | |

# Legend

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|---|---|
| **ie:** | Ionization energy |
| **log10ws:** | Log10 of Water solubility in mol/l |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **tf:** | Normal melting (fusion) point |