# 5-Amino-2-methyl-2H-tetrazole

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|---|---|
| **Other names:** | 2-Methyl-5-aminotetrazole<br>2H-Tetrazol-5-amine, 2-methyl-<br>2H-Tetrazole, 5-amino-2-methyl-<br>5-Amino-2-methyltetrazole<br>2-Methyl-5-tetrazolamine |
| **Inchi:** | InChI=1S/C2H5N5/c1-7-5-2(3)4-6-7/h1H3,(H2,3,5) |
| **InchiKey:** | AZUKLCJYWVMPML-UHFFFAOYSA-N |
| **Formula:** | C2H5N5 |
| **SMILES:** | Cn1nnc(N)n1 |
| **Mol. weight [g/mol]:** | 99.09 |
| **CAS:** | 6154-04-7 |

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| chs | -1708.40 ± 2.50 | kJ/mol | NIST Webbook |
| chs | -1712.50 ± 2.10 | kJ/mol | NIST Webbook |
| hf | 302.90 | kJ/mol | NIST Webbook |
| hf | 298.80 ± 2.80 | kJ/mol | NIST Webbook |
| hfs | 206.80 ± 2.60 | kJ/mol | NIST Webbook |
| hfs | 210.90 | kJ/mol | NIST Webbook |
| hsub | 92.00 ± 1.10 | kJ/mol | NIST Webbook |
| hsub | 92.00 | kJ/mol | NIST Webbook |
| log10ws | -1.69 | | Crippen Method |
| logp | -1.208 | | Crippen Method |
| mcvol | 69.480 | ml/mol | McGowan Method |
| tt | 382.00 ± 1.00 | K | NIST Webbook |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| hsubt | 90.60 ± 1.10 | kJ/mol | 341.50 | NIST Webbook |

# Sources

| | |
|---|---|
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C6154047&Units=SI |

# Legend

| | |
|---|---|
| **chs:** | Standard solid enthalpy of combustion |
| **hf:** | Enthalpy of formation at standard conditions |
| **hfs:** | Solid phase enthalpy of formation at standard conditions |
| **hsub:** | Enthalpy of sublimation at standard conditions |
| **hsubt:** | Enthalpy of sublimation at a given temperature |
| **log10ws:** | Log10 of Water solubility in mol/l |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **tt:** | Triple Point Temperature |

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