# Carbazol-1(2H)-one, 3,4-dihydro-6-methyl-

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|---|---|
| **Other names:** | 1-keto-1,2,3,4-tetrahydro-6-methylcarbazole |
| | 6-methyl-2,3,4,9-tetrahydro-1H-carbazol-1-one |
| **Inchi:** | InChI=1S/C13H13NO/c1-8-5-6-11-10(7-8)9-3-2-4-12(15)13(9)14-11/h5-7,14H,2-4H2,1H3 |
| **InchiKey:** | ITWUGZSJDMBOPH-UHFFFAOYSA-N |
| **Formula:** | C13H13NO |
| **SMILES:** | Cc1ccc2[nH]c3c(c2c1)CCCC3=O |
| **Mol. weight [g/mol]:** | 199.25 |
| **CAS:** | 3449-48-7 |

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| log10ws | -4.33 | | Crippen Method |
| logp | 2.513 | | Crippen Method |
| mcvol | 155.800 | ml/mol | McGowan Method |
| tf | 468.45 | K | Solubility and Metastable Zone Width of 1-Keto-1,2,3,4-tetrahydro-6-methylcarbazo in Acetone |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| hfust | 26.90 | kJ/mol | 468.50 | NIST Webbook |

## Sources

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|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C3449487&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **Solubility and Metastable Zone Width of 1-Keto-1,2,3,4-tetrahydro-6-methylcarbazole in Acetone:** | https://www.doi.org/10.1021/je0600552 |

# Legend

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|---|---|
| **hfust:** | Enthalpy of fusion at a given temperature |
| **log10ws:** | Log10 of Water solubility in mol/l |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **tf:** | Normal melting (fusion) point |