# Urea, N-methyl-N-nitroso-

| | |
|---|---|
| **Other names:** | 1-Methyl-1-Nitrosourea |
| | 1-Methyl-1-nitrosomocovina |
| | 1-nitroso-1-methylurea |
| | Carbamide, N-methyl-N-nitroso- |
| | MNU |
| | Methylnitroso-harnstoff |
| | Methylnitrosourea |
| | Methylnitrosouree |
| | N-Methyl-N-nitroso-harnstoff |
| | N-Methyl-N-nitrosourea |
| | N-Nitroso-N-methyl-harnstoff |
| | N-Nitroso-N-methylcarbamide |
| | N-Nitroso-N-methylurea |
| | NMH |
| | NMU |
| | NSC 23909 |
| | Nitrosomethylurea |
| | Rcra waste number U177 |
| | SKI 24464 |
| | SRI 859 |
| | Urea, 1-methyl-1-nitroso- |
| **Inchi:** | InChI=1S/C2H5N3O2/c1-5(4-7)2(3)6/h1H3,(H2,3,6) |
| **InchiKey:** | ZRKWMRDKSOPRRS-UHFFFAOYSA-N |
| **Formula:** | C2H5N3O2 |
| **SMILES:** | CN(N=O)C(N)=O |
| **Mol. weight [g/mol]:** | 103.08 |
| **CAS:** | 684-93-5 |

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hf | -264.06 | kJ/mol | Joback Method |
| hvap | 48.57 | kJ/mol | Joback Method |
| log10ws | -0.85 | | Aqueous Solubility Prediction Method |
| logp | -0.322 | | Crippen Method |
| mcvol | 72.120 | ml/mol | McGowan Method |
| pc | 5827.17 | kPa | Joback Method |

| | | | |
|---|---|---|---|
| tb | 447.40 | K | Joback Method |
| tc | 644.00 | K | Joback Method |

# Sources

**Aqueous Solubility Prediction Method:** http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa
**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772
**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=C684935&Units=SI
**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l
**Joback Method:** https://en.wikipedia.org/wiki/Joback_method

# Legend

**hf:** Enthalpy of formation at standard conditions
**hvap:** Enthalpy of vaporization at standard conditions
**log10ws:** Log10 of Water solubility in mol/l
**logp:** Octanol/Water partition coefficient
**mcvol:** McGowan's characteristic volume
**pc:** Critical Pressure
**tb:** Normal Boiling Point Temperature
**tc:** Critical Temperature