# Urea, 1,1'-p-phenylenebis[3-(2-hydroxyethyl)-3-nitroso-

**Inchi:** InChI=1S/C12H16N6O6/c19-7-5-17(15-23)11(21)13-9-1-2-10(4-3-9)14-12(22)18(16-24)6

**InchiKey:** HMOWQMJSDDXBLW-UHFFFAOYSA-N

**Formula:** C12H16N6O6

**SMILES:** O=NN(CCO)C(=O)Nc1ccc(NC(=O)N(CCO)N=O)cc1

**Mol. weight [g/mol]:** 340.29

**CAS:** 116401-09-3

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hf | -689.95 | kJ/mol | Joback Method |
| hvap | 127.25 | kJ/mol | Joback Method |
| log10ws | -2.70 | | Crippen Method |
| logp | 0.702 | | Crippen Method |
| mcvol | 234.080 | ml/mol | McGowan Method |
| pc | 3235.66 | kPa | Joback Method |
| tb | 1049.74 | K | Joback Method |
| tc | 1289.30 | K | Joback Method |

## Sources

**Crippen Method:** https://www.chemeo.com/doc/models/crippen_log10ws

**Joback Method:** https://en.wikipedia.org/wiki/Joback_method

**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772

**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=C116401093&Units=SI

**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l

## 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 |