# O-Methyl-DL-serine, N-dimethylaminomethylene-, butyl ester

**Inchi:** InChI=1S/C11H22N2O3/c1-5-6-7-16-11(14)10(8-15-4)12-9-13(2)3/h9-10H,5-8H2,1-4H3

**InchiKey:** DLLMAHZEJYGNDW-UHFFFAOYSA-N

**Formula:** C11H22N2O3

**SMILES:** CCCCOC(=O)C(COC)N=CN(C)C

**Mol. weight [g/mol]:** 230.30

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hf | -502.92 | kJ/mol | Joback Method |
| hvap | 56.62 | kJ/mol | Joback Method |
| log10ws | -0.72 | | Crippen Method |
| logp | 0.935 | | Crippen Method |
| mcvol | 194.820 | ml/mol | McGowan Method |
| pc | 1820.06 | kPa | Joback Method |
| rinpol | 1588.00 | | NIST Webbook |
| rinpol | 1588.00 | | NIST Webbook |
| tb | 638.47 | K | Joback Method |
| tc | 825.03 | K | Joback Method |

## Sources

**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=U375995&Units=SI

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

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

## 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 |
| **rinpol:** | Non-polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |