# Desosamine

**Inchi:** InChI=1S/C8H17NO3/c1-5-4-6(9(2)3)7(10)8(11)12-5/h5-8,10-11H,4H2,1-3H3
**InchiKey:** ZOYWWAGVGBSJDL-UHFFFAOYSA-N
**Formula:** C8H17NO3
**SMILES:** CC1CC(N(C)C)C(O)C(O)O1
**Mol. weight [g/mol]:** 175.23

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -231.18 | kJ/mol | Joback Method |
| hf | -584.08 | kJ/mol | Joback Method |
| hfus | 30.70 | kJ/mol | Joback Method |
| hvap | 72.82 | kJ/mol | Joback Method |
| log10ws | -0.19 | | Crippen Method |
| logp | -0.595 | | Crippen Method |
| mcvol | 140.310 | ml/mol | McGowan Method |
| pc | 3431.89 | kPa | Joback Method |
| tb | 611.73 | K | Joback Method |
| tc | 790.18 | K | Joback Method |
| tf | 355.26 | K | Joback Method |
| vc | 0.490 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 405.29 | J/mol×K | 611.73 | Joback Method |
| cpg | 418.80 | J/mol×K | 641.47 | Joback Method |
| cpg | 431.65 | J/mol×K | 671.21 | Joback Method |
| cpg | 443.83 | J/mol×K | 700.96 | Joback Method |
| cpg | 455.38 | J/mol×K | 730.70 | Joback Method |
| cpg | 466.28 | J/mol×K | 760.44 | Joback Method |
| cpg | 476.56 | J/mol×K | 790.18 | 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=B6000869&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# Legend

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|---|---|
| **cpg:** | Ideal gas heat capacity |
| **gf:** | Standard Gibbs free energy of formation |
| **hf:** | Enthalpy of formation at standard conditions |
| **hfus:** | Enthalpy of fusion 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 |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |