# 1,6-Anhydro-2,3-O-isopropylidene-«beta»-D-mann

**Inchi:** InChI=1S/C9H14O5/c1-9(2)13-6-5(10)4-3-11-8(12-4)7(6)14-9/h4-8,10H,3H2,1-2H3
**InchiKey:** VEESJHGZLRXGHP-UHFFFAOYSA-N
**Formula:** C9H14O5
**SMILES:** CC1(C)OC2C3OCC(O3)C(O)C2O1
**Mol. weight [g/mol]:** 202.20
**CAS:** 14440-51-8

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -326.97 | kJ/mol | Joback Method |
| hf | -749.02 | kJ/mol | Joback Method |
| hfus | 42.19 | kJ/mol | Joback Method |
| hvap | 68.35 | kJ/mol | Joback Method |
| log10ws | -0.55 | | Crippen Method |
| logp | -0.378 | | Crippen Method |
| mcvol | 134.440 | ml/mol | McGowan Method |
| pc | 3718.02 | kPa | Joback Method |
| rinpol | 1436.60 | | NIST Webbook |
| tb | 620.29 | K | Joback Method |
| tc | 831.31 | K | Joback Method |
| tf | 416.25 | K | Joback Method |
| vc | 0.492 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 418.87 | J/mol×K | 620.29 | Joback Method |
| cpg | 433.31 | J/mol×K | 655.46 | Joback Method |
| cpg | 446.90 | J/mol×K | 690.63 | Joback Method |
| cpg | 459.76 | J/mol×K | 725.80 | Joback Method |
| cpg | 472.03 | J/mol×K | 760.97 | Joback Method |
| cpg | 483.85 | J/mol×K | 796.14 | Joback Method |
| cpg | 495.36 | J/mol×K | 831.31 | 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=C14440518&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# Legend

| | |
|---|---|
| **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 |
| **rinpol:** | Non-polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |