# 4-O-ACETYL-2,5-DI-O-METHYL-3,6-DIDEOXY-D-G

**Other names:** 4-O-Acetyl-2,5-di-O-methyl-3,6-dideoxygluconitrile
**Inchi:** InChI=1S/C10H17NO4/c1-7(13-3)10(15-8(2)12)5-9(6-11)14-4/h7,9-10H,5H2,1-4H3
**InchiKey:** UIOZESJFWPMERW-UHFFFAOYSA-N
**Formula:** C10H17NO4
**SMILES:** COC(C#N)CC(OC(C)=O)C(C)OC
**Mol. weight [g/mol]:** 215.25

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hfus | 17.76 | kJ/mol | Joback Method |
| logp | 0.882 | | Crippen Method |
| mcvol | 172.320 | ml/mol | McGowan Method |
| ripol | 1335.00 | | NIST Webbook |
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## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 455.04 | J/mol×K | 650.09 | Joback Method |
| cpg | 467.93 | J/mol×K | 682.75 | Joback Method |
| cpg | 480.19 | J/mol×K | 715.40 | Joback Method |
| cpg | 491.80 | J/mol×K | 748.06 | Joback Method |
| cpg | 502.74 | J/mol×K | 780.71 | Joback Method |
| cpg | 513.01 | J/mol×K | 813.37 | Joback Method |
| cpg | 522.58 | J/mol×K | 846.02 | Joback Method |

## Sources

**Crippen Method:** https://www.chemeo.com/doc/models/crippen_log10ws
**Cheméo Relay (1.0):**
**Cheméo Relay (1.0, beta):**

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U101803&Units=SI |
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# Legend

| | |
|---|---|
| **cpg:** | Ideal gas heat capacity |
| **hfus:** | Enthalpy of fusion at standard conditions |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **ripol:** | Polar retention indices |