# 2,3-DIMETHYL-PARA-ANISALDEHYDE

**Other names:** Benzaldehyde, 4-methoxy-2,3-dimethyl-
2,3-dimethyl-p-anisaldehyde
**Inchi:** InChI=1S/C10H12O2/c1-7-8(2)10(12-3)5-4-9(7)6-11/h4-6H,1-3H3
**InchiKey:** MAFDJCNDRCNZFM-UHFFFAOYSA-N
**Formula:** C10H12O2
**SMILES:** COc1ccc(C=O)c(C)c1C
**Mol. weight [g/mol]:** 164.20

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hfus | 18.01 | kJ/mol | Joback Method |
| log10ws | -2.29 | | Cheméo Relay (1.0) |
| logp | 2.125 | | Crippen Method |
| mcvol | 135.440 | ml/mol | McGowan Method |
| tb | 542.50 | K | Cheméo Relay (1.0) |
| tf | 347.22 | K | Cheméo Relay (1.0) |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 300.74 | J/mol×K | 540.90 | Joback Method |
| cpg | 313.03 | J/mol×K | 576.04 | Joback Method |
| cpg | 324.76 | J/mol×K | 611.18 | Joback Method |
| cpg | 335.93 | J/mol×K | 646.32 | Joback Method |
| cpg | 346.53 | J/mol×K | 681.46 | Joback Method |
| cpg | 356.56 | J/mol×K | 716.61 | Joback Method |
| cpg | 366.03 | J/mol×K | 751.75 | Joback Method |
| dvisc | 0.0011841 | Pa×s | 330.67 | Joback Method |
| dvisc | 0.0007787 | Pa×s | 365.71 | Joback Method |
| dvisc | 0.0005511 | Pa×s | 400.75 | Joback Method |
| dvisc | 0.0004123 | Pa×s | 435.78 | Joback Method |
| dvisc | 0.0003220 | Pa×s | 470.82 | Joback Method |
| dvisc | 0.0002603 | Pa×s | 505.86 | Joback Method |
| dvisc | 0.0002163 | Pa×s | 540.90 | 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=C38998173&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 |
| **dvisc:** | Dynamic viscosity |
| **hfus:** | Enthalpy of fusion at standard conditions |
| **log10ws:** | Log10 of Water solubility in mol/l |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **tb:** | Normal Boiling Point Temperature |
| **tf:** | Normal melting (fusion) point |