# 1,2-DIMETHOXY-3,5-DICHLORO-BENZENE

**Other names:** Benzene, 3,5-dichloro-1,2-dimethoxy
**Inchi:** InChI=1S/C8H8Cl2O2/c1-11-7-4-5(9)3-6(10)8(7)12-2/h3-4H,1-2H3
**InchiKey:** BCWABYVHGXOWHB-UHFFFAOYSA-N
**Formula:** C8H8Cl2O2
**SMILES:** COc1cc(Cl)cc(Cl)c1OC
**Mol. weight [g/mol]:** 207.06

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hfus | 20.12 | kJ/mol | Joback Method |
| log10ws | -3.28 | | Cheméo Relay (1.0) |
| logp | 3.011 | | Crippen Method |
| mcvol | 136.040 | ml/mol | McGowan Method |
| rinpol | 1419.00 | | NIST Webbook |
| rinpol | 1412.00 | | NIST Webbook |
| rinpol | 1414.00 | | NIST Webbook |
| rinpol | 1436.00 | | NIST Webbook |
| rinpol | 1410.00 | | NIST Webbook |
| rinpol | 1410.00 | | NIST Webbook |
| ripol | 2009.00 | | NIST Webbook |
| ripol | 2025.00 | | NIST Webbook |
| ripol | 2045.00 | | NIST Webbook |
| ripol | 2067.00 | | NIST Webbook |
| ripol | 2023.00 | | NIST Webbook |
| tf | 329.20 | K | Cheméo Relay (1.0) |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 268.48 | J/mol×K | 543.76 | Joback Method |
| cpg | 278.53 | J/mol×K | 580.69 | Joback Method |
| cpg | 288.14 | J/mol×K | 617.63 | Joback Method |
| cpg | 297.29 | J/mol×K | 654.56 | Joback Method |
| cpg | 305.98 | J/mol×K | 691.49 | Joback Method |

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|---|---|---|---|---|
| cpg | 314.19 | J/mol×K | 728.42 | Joback Method |
| cpg | 321.89 | J/mol×K | 765.36 | Joback Method |
| dvisc | 0.0008515 | Pa×s | 348.20 | Joback Method |
| dvisc | 0.0005846 | Pa×s | 380.79 | Joback Method |
| dvisc | 0.0004258 | Pa×s | 413.39 | Joback Method |
| dvisc | 0.0003249 | Pa×s | 445.98 | Joback Method |
| dvisc | 0.0002572 | Pa×s | 478.57 | Joback Method |
| dvisc | 0.0002098 | Pa×s | 511.17 | Joback Method |
| dvisc | 0.0001753 | Pa×s | 543.76 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C90283015&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 |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **Cheméo Relay (1.0):** | |
| **Cheméo Relay (1.0, beta):** | |

# Legend

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|---|---|
| **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 |
| **rinpol:** | Non-polar retention indices |
| **ripol:** | Polar retention indices |
| **tf:** | Normal melting (fusion) point |