# Formic acid, (2,3-dichlorophenyl)methyl ester

**Inchi:** InChI=1S/C8H6Cl2O2/c9-7-3-1-2-6(8(7)10)4-12-5-11/h1-3,5H,4H2
**InchiKey:** JFUQPZUDGKIIMF-UHFFFAOYSA-N
**Formula:** C8H6Cl2O2
**SMILES:** O=COCc1cccc(Cl)c1Cl
**Mol. weight [g/mol]:** 205.04

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -118.75 | kJ/mol | Joback Method |
| hf | -244.14 | kJ/mol | Joback Method |
| hfus | 21.61 | kJ/mol | Joback Method |
| hvap | 54.90 | kJ/mol | Joback Method |
| log10ws | -3.00 | | Crippen Method |
| logp | 2.666 | | Crippen Method |
| mcvol | 131.740 | ml/mol | McGowan Method |
| pc | 3452.08 | kPa | Joback Method |
| rinpol | 1482.00 | | NIST Webbook |
| tb | 565.02 | K | Joback Method |
| tc | 791.18 | K | Joback Method |
| tf | 355.45 | K | Joback Method |
| vc | 0.508 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 260.21 | J/mol×K | 565.02 | Joback Method |
| cpg | 269.33 | J/mol×K | 602.71 | Joback Method |
| cpg | 277.90 | J/mol×K | 640.41 | Joback Method |
| cpg | 285.92 | J/mol×K | 678.10 | Joback Method |
| cpg | 293.41 | J/mol×K | 715.79 | Joback Method |
| cpg | 300.37 | J/mol×K | 753.49 | Joback Method |
| cpg | 306.80 | J/mol×K | 791.18 | Joback Method |
| dvisc | 0.0014631 | Pa×s | 355.45 | Joback Method |
| dvisc | 0.0009653 | Pa×s | 390.38 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0006819 | Pa×s | 425.31 | Joback Method |
| dvisc | 0.0005078 | Pa×s | 460.24 | Joback Method |
| dvisc | 0.0003942 | Pa×s | 495.16 | Joback Method |
| dvisc | 0.0003164 | Pa×s | 530.09 | Joback Method |
| dvisc | 0.0002610 | Pa×s | 565.02 | Joback Method |

# Sources

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|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U368890&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |

# Legend

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|---|---|
| **cpg:** | Ideal gas heat capacity |
| **dvisc:** | Dynamic viscosity |
| **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 |