# Formic acid, 2,6-dimethoxyphenyl ester

**Inchi:** InChI=1S/C9H10O4/c1-11-7-4-3-5-8(12-2)9(7)13-6-10/h3-6H,1-2H3
**InchiKey:** JVJVENQWWSMNNJ-UHFFFAOYSA-N
**Formula:** C9H10O4
**SMILES:** COc1cccc(OC)c1OC=O
**Mol. weight [g/mol]:** 182.17

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -296.47 | kJ/mol | Joback Method |
| hf | -497.74 | kJ/mol | Joback Method |
| hfus | 18.18 | kJ/mol | Joback Method |
| hvap | 53.18 | kJ/mol | Joback Method |
| log10ws | -1.61 | | Crippen Method |
| logp | 1.239 | | Crippen Method |
| mcvol | 133.090 | ml/mol | McGowan Method |
| pc | 3235.66 | kPa | Joback Method |
| rinpol | 1460.00 | | NIST Webbook |
| tb | 557.88 | K | Joback Method |
| tc | 766.63 | K | Joback Method |
| tf | 351.34 | K | Joback Method |
| vc | 0.502 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 302.41 | J/mol×K | 557.88 | Joback Method |
| cpg | 313.73 | J/mol×K | 592.67 | Joback Method |
| cpg | 324.58 | J/mol×K | 627.46 | Joback Method |
| cpg | 334.94 | J/mol×K | 662.26 | Joback Method |
| cpg | 344.79 | J/mol×K | 697.05 | Joback Method |
| cpg | 354.11 | J/mol×K | 731.84 | Joback Method |
| cpg | 362.87 | J/mol×K | 766.63 | Joback Method |
| dvisc | 0.0009244 | Pa×s | 351.34 | Joback Method |
| dvisc | 0.0006083 | Pa×s | 385.76 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0004287 | Pa×s | 420.19 | Joback Method |
| dvisc | 0.0003186 | Pa×s | 454.61 | Joback Method |
| dvisc | 0.0002468 | Pa×s | 489.03 | Joback Method |
| dvisc | 0.0001978 | Pa×s | 523.46 | Joback Method |
| dvisc | 0.0001629 | Pa×s | 557.88 | 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=U368910&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 |