# Formic acid, 2-methoxyphenyl ester

**Inchi:** InChI=1S/C8H8O3/c1-10-7-4-2-3-5-8(7)11-6-9/h2-6H,1H3
**InchiKey:** XPIIEKAVIFXMCN-UHFFFAOYSA-N
**Formula:** C8H8O3
**SMILES:** COc1ccccc1OC=O
**Mol. weight [g/mol]:** 152.15

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -190.26 | kJ/mol | Joback Method |
| hf | -333.41 | kJ/mol | Joback Method |
| hfus | 14.79 | kJ/mol | Joback Method |
| hvap | 47.88 | kJ/mol | Joback Method |
| log10ws | -1.49 | | Crippen Method |
| logp | 1.230 | | Crippen Method |
| mcvol | 113.130 | ml/mol | McGowan Method |
| pc | 3763.78 | kPa | Joback Method |
| rinpol | 1233.00 | | NIST Webbook |
| rinpol | 1233.00 | | NIST Webbook |
| tb | 507.60 | K | Joback Method |
| tc | 720.77 | K | Joback Method |
| tf | 305.32 | K | Joback Method |
| vc | 0.428 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 237.46 | J/mol×K | 507.60 | Joback Method |
| cpg | 248.02 | J/mol×K | 543.13 | Joback Method |
| cpg | 258.09 | J/mol×K | 578.66 | Joback Method |
| cpg | 267.67 | J/mol×K | 614.19 | Joback Method |
| cpg | 276.76 | J/mol×K | 649.71 | Joback Method |
| cpg | 285.35 | J/mol×K | 685.24 | Joback Method |
| cpg | 293.42 | J/mol×K | 720.77 | Joback Method |
| dvisc | 0.0014900 | Pa×s | 305.32 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0009193 | Pa×s | 339.03 | Joback Method |
| dvisc | 0.0006190 | Pa×s | 372.75 | Joback Method |
| dvisc | 0.0004450 | Pa×s | 406.46 | Joback Method |
| dvisc | 0.0003366 | Pa×s | 440.17 | Joback Method |
| dvisc | 0.0002648 | Pa×s | 473.89 | Joback Method |
| dvisc | 0.0002152 | Pa×s | 507.60 | Joback Method |

# Sources

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|---|---|
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U368707&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# Legend

| | |
|---|---|
| **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 |