# 4-cyclopropyl-2-methoxyphenol

**Inchi:** InChI=1S/C10H12O2/c1-12-10-6-8(7-2-3-7)4-5-9(10)11/h4-7,11H,2-3H2,1H3
**InchiKey:** ULMMKNHAYBDFPN-UHFFFAOYSA-N
**Formula:** C10H12O2
**SMILES:** COc1cc(C2CC2)ccc1O
**Mol. weight [g/mol]:** 164.20

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -62.77 | kJ/mol | Joback Method |
| hf | -261.40 | kJ/mol | Joback Method |
| hfus | 20.41 | kJ/mol | Joback Method |
| hvap | 56.13 | kJ/mol | Joback Method |
| log10ws | -2.22 | | Crippen Method |
| logp | 2.278 | | Crippen Method |
| mcvol | 128.880 | ml/mol | McGowan Method |
| pc | 3906.25 | kPa | Joback Method |
| ripol | 2225.00 | | NIST Webbook |
| ripol | 2228.00 | | NIST Webbook |
| tb | 569.64 | K | Joback Method |
| tc | 803.12 | K | Joback Method |
| tf | 393.29 | K | Joback Method |
| vc | 0.428 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 320.12 | J/mol×K | 569.64 | Joback Method |
| cpg | 380.13 | J/mol×K | 764.20 | Joback Method |
| cpg | 369.71 | J/mol×K | 725.29 | Joback Method |
| cpg | 358.60 | J/mol×K | 686.38 | Joback Method |
| cpg | 346.70 | J/mol×K | 647.47 | Joback Method |
| cpg | 333.91 | J/mol×K | 608.55 | Joback Method |
| cpg | 389.96 | J/mol×K | 803.12 | Joback Method |
| dvisc | 0.0000871 | Pa×s | 569.64 | Joback Method |

| | | | | |
|---|---|---|---|---|
| dvisc | 0.0001200 | Pa×s | 540.25 | Joback Method |
| dvisc | 0.0001715 | Pa×s | 510.86 | Joback Method |
| dvisc | 0.0002560 | Pa×s | 481.47 | Joback Method |
| dvisc | 0.0004026 | Pa×s | 452.07 | Joback Method |
| dvisc | 0.0006744 | Pa×s | 422.68 | Joback Method |
| dvisc | 0.0012201 | Pa×s | 393.29 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=R308315&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 |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |

# 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 |
| **ripol:** | Polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |