

2-Methoxy-6-methylphenol

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| Other names: | Phenol, 2-methoxy-6-methyl- 3-Methoxy-4-hydroxytoluene |
| Inchi: | InChI=1S/C8H10O2/c1-6-4-3-5-7(10-2)8(6)9/h3-5,9H,1-2H3 |
| InchiKey: | WBHAUHHMPXBZCQ-UHFFFAOYSA-N |
| Formula: | C8H10O2 |
| SMILES: | COc1cccc(C)c1O |
| Mol. weight [g/mol]: | 138.16 |
| CAS: | 2896-67-5 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -140.36 | kJ/mol | Joback Method |
| hf | -292.92 | kJ/mol | Joback Method |
| hfus | 17.10 | kJ/mol | Joback Method |
| hvap | 51.76 | kJ/mol | Joback Method |
| log10ws | -1.62 | | Crippen Method |
| logp | 1.709 | | Crippen Method |
| mcvol | 111.560 | ml/mol | McGowan Method |
| pc | 4227.54 | kPa | Joback Method |
| tb | 517.14 | K | Joback Method |
| tc | 741.86 | K | Joback Method |
| tf | 352.81 | K | Joback Method |
| vc | 0.359 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 246.51 | J/molxK | 517.14 | Joback Method |
| cpg | 257.71 | J/molxK | 554.59 | Joback Method |
| cpg | 268.21 | J/molxK | 592.05 | Joback Method |
| cpg | 278.05 | J/molxK | 629.50 | Joback Method |
| cpg | 287.30 | J/molxK | 666.95 | Joback Method |
| cpg | 296.00 | J/molxK | 704.40 | Joback Method |
| cpg | 304.20 | J/molxK | 741.86 | Joback Method |

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|-------|-----------|--------|--------|---------------|
| dvisc | 0.0017487 | Paxs | 352.81 | Joback Method |
| dvisc | 0.0008248 | Paxs | 380.20 | Joback Method |
| dvisc | 0.0004303 | Paxs | 407.59 | Joback Method |
| dvisc | 0.0002437 | Paxs | 434.98 | Joback Method |
| dvisc | 0.0001476 | Paxs | 462.36 | Joback Method |
| dvisc | 0.0000946 | Paxs | 489.75 | Joback Method |
| dvisc | 0.0000635 | Paxs | 517.14 | Joback Method |
| hvapt | 53.20 | kJ/mol | 425.50 | NIST Webbook |

Sources

| | |
|------------------------|---|
| 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=C2896675&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |

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 |
| hvapt: | Enthalpy of vaporization at a given temperature |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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