# 2,5-Cyclohexadiene-1,4-dione, 2,5-bis(4-methoxyphenyl)-

**Other names:** 2,5-Di-p-anisyl-1,4-benzoquinone
**Inchi:** InChI=1S/C20H16O4/c1-23-15-7-3-13(4-8-15)17-11-20(22)18(12-19(17)21)14-5-9-16(24
**InchiKey:** JZJYUHYPMJANNP-UHFFFAOYSA-N
**Formula:** C20H16O4
**SMILES:** COc1ccc(C2=CC(=O)C(c3ccc(OC)cc3)=CC2=O)cc1
**Mol. weight [g/mol]:** 320.34
**CAS:** 5333-03-9

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -59.28 | kJ/mol | Joback Method |
| hf | -378.57 | kJ/mol | Joback Method |
| hfus | 28.69 | kJ/mol | Joback Method |
| hvap | 81.95 | kJ/mol | Joback Method |
| log10ws | -4.30 | | Crippen Method |
| logp | 3.323 | | Crippen Method |
| mcvol | 240.560 | ml/mol | McGowan Method |
| pc | 2085.03 | kPa | Joback Method |
| tb | 933.30 | K | Joback Method |
| tc | 1199.07 | K | Joback Method |
| tf | 612.12 | K | Joback Method |
| vc | 0.895 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 735.11 | J/mol×K | 933.30 | Joback Method |
| cpg | 747.58 | J/mol×K | 977.60 | Joback Method |
| cpg | 757.74 | J/mol×K | 1021.89 | Joback Method |
| cpg | 765.55 | J/mol×K | 1066.19 | Joback Method |
| cpg | 770.95 | J/mol×K | 1110.48 | Joback Method |
| cpg | 773.87 | J/mol×K | 1154.78 | Joback Method |
| cpg | 774.27 | J/mol×K | 1199.07 | Joback Method |

# 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=C5333039&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# Legend

| | |
|---|---|
| **cpg:** | Ideal gas heat capacity |
| **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 |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |