# 3',4'-Dichloro-5-ethyl-2-hydroxybenzophenone

**Inchi:** InChI=1S/C15H12Cl2O2/c1-2-9-3-6-14(18)11(7-9)15(19)10-4-5-12(16)13(17)8-10/h3-8,1
**InchiKey:** GEZIUOUTPVCCAA-UHFFFAOYSA-N
**Formula:** C15H12Cl2O2
**SMILES:** CCc1ccc(O)c(C(=O)c2ccc(Cl)c(Cl)c2)c1
**Mol. weight [g/mol]:** 295.16
**CAS:** 61466-87-3

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -36.05 | kJ/mol | Joback Method |
| hf | -235.65 | kJ/mol | Joback Method |
| hfus | 37.30 | kJ/mol | Joback Method |
| hvap | 84.05 | kJ/mol | Joback Method |
| log10ws | -5.15 | | Crippen Method |
| logp | 4.492 | | Crippen Method |
| mcvol | 206.610 | ml/mol | McGowan Method |
| pc | 2761.36 | kPa | Joback Method |
| tb | 820.25 | K | Joback Method |
| tc | 1074.73 | K | Joback Method |
| tf | 570.70 | K | Joback Method |
| vc | 0.730 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 530.33 | J/mol×K | 820.25 | Joback Method |
| cpg | 582.23 | J/mol×K | 1032.32 | Joback Method |
| cpg | 572.71 | J/mol×K | 989.90 | Joback Method |
| cpg | 562.90 | J/mol×K | 947.49 | Joback Method |
| cpg | 552.65 | J/mol×K | 905.08 | Joback Method |
| cpg | 541.83 | J/mol×K | 862.66 | Joback Method |
| cpg | 591.58 | J/mol×K | 1074.73 | Joback Method |
| dvisc | 0.0000084 | Pa×s | 820.25 | Joback Method |
| dvisc | 0.0000114 | Pa×s | 778.66 | Joback Method |

| | | | | |
|---|---|---|---|---|
| dvisc | 0.0000161 | Pa×s | 737.07 | Joback Method |
| dvisc | 0.0000236 | Pa×s | 695.48 | Joback Method |
| dvisc | 0.0000365 | Pa×s | 653.88 | Joback Method |
| dvisc | 0.0000596 | Pa×s | 612.29 | Joback Method |
| dvisc | 0.0001048 | Pa×s | 570.70 | Joback Method |

# Sources

| | |
|---|---|
| **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 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C61466873&Units=SI |

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