# Phloroglucinol, tris(pentafluoropropionate)

**Inchi:** InChI=1S/C15H3F15O6/c16-10(17,13(22,23)24)7(31)34-4-1-5(35-8(32)11(18,19)14(25,2
**InchiKey:** SFUNGGZHAOPZID-UHFFFAOYSA-N
**Formula:** C15H3F15O6
**SMILES:** O=C(Oc1cc(OC(=O)C(F)(F)C(F)(F)F)cc(OC(=O)C(F)(F)C(F)(F)F)c1)C(F)(F)C(F)(F)F
**Mol. weight [g/mol]:** 564.16

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -3438.30 | kJ/mol | Joback Method |
| hf | -3867.89 | kJ/mol | Joback Method |
| hfus | 37.95 | kJ/mol | Joback Method |
| hvap | 60.02 | kJ/mol | Joback Method |
| log10ws | -6.60 | | Crippen Method |
| logp | 4.996 | | Crippen Method |
| mcvol | 247.320 | ml/mol | McGowan Method |
| pc | 1293.93 | kPa | Joback Method |
| rinpol | 1087.00 | | NIST Webbook |
| tb | 777.78 | K | Joback Method |
| tc | 954.47 | K | Joback Method |
| tf | 550.12 | K | Joback Method |
| vc | 1.044 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 762.02 | J/mol×K | 777.78 | Joback Method |
| cpg | 769.95 | J/mol×K | 807.23 | Joback Method |
| cpg | 777.11 | J/mol×K | 836.68 | Joback Method |
| cpg | 783.56 | J/mol×K | 866.13 | Joback Method |
| cpg | 789.38 | J/mol×K | 895.58 | Joback Method |
| cpg | 794.65 | J/mol×K | 925.02 | Joback Method |
| cpg | 799.42 | J/mol×K | 954.47 | Joback Method |

# Sources

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|---|---|
| **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=U375765&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# Legend

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|---|---|
| **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 |
| **rinpol:** | Non-polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |