

3,4-Dihydroxyphenylacetic acid, acetyl, DTFMBz

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| Inchi: | InChI=1S/C21H16F6O6/c1-11(28)32-17-4-3-13(7-18(17)33-12(2)29)8-19(30)31-10-14-5- |
| InchiKey: | AEYIANKXAZIKOI-UHFFFAOYSA-N |
| Formula: | C21H16F6O6 |
| SMILES: | CC(=O)Oc1ccc(CC(=O)OCc2cc(C(F)(F)F)cc(C(F)(F)F)c2)cc1OC(C)=O |
| Mol. weight [g/mol]: | 478.34 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -1552.70 | kJ/mol | Joback Method |
| hf | -1978.15 | kJ/mol | Joback Method |
| hfus | 48.68 | kJ/mol | Joback Method |
| hvap | 89.51 | kJ/mol | Joback Method |
| log10ws | -6.50 | | Crippen Method |
| logp | 4.861 | | Crippen Method |
| mcvol | 292.170 | ml/mol | McGowan Method |
| pc | 1345.70 | kPa | Joback Method |
| rinpol | 2203.00 | | NIST Webbook |
| rinpol | 2203.00 | | NIST Webbook |
| tb | 971.19 | K | Joback Method |
| tc | 1191.02 | K | Joback Method |
| tf | 654.21 | K | Joback Method |
| vc | 1.153 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 913.92 | J/mol×K | 971.19 | Joback Method |
| cpg | 923.36 | J/mol×K | 1007.83 | Joback Method |
| cpg | 931.63 | J/mol×K | 1044.47 | Joback Method |
| cpg | 938.79 | J/mol×K | 1081.10 | Joback Method |
| cpg | 944.90 | J/mol×K | 1117.74 | Joback Method |
| cpg | 949.99 | J/mol×K | 1154.38 | Joback Method |
| cpg | 954.12 | J/mol×K | 1191.02 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R538942&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.cheméo.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 |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| hvp: | 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 |
| rinp: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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