

3,5-Dihydroxybenzyl alcohol, tris(pentafluoropropionate)

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|----------------------|----------------------------------------------------------------------------------|
| Inchi: | InChI=1S/C16H5F15O6/c17-11(18,14(23,24)25)8(32)35-4-5-1-6(36-9(33)12(19,20)15(26 |
| InchiKey: | NXGZXCJPXLQXHW-UHFFFAOYSA-N |
| Formula: | C16H5F15O6 |
| SMILES: | O=C(OCc1cc(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]: | 578.18 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -3429.88 | kJ/mol | Joback Method |
| hf | -3888.53 | kJ/mol | Joback Method |
| hfus | 40.54 | kJ/mol | Joback Method |
| hvap | 62.25 | kJ/mol | Joback Method |
| log10ws | -6.86 | | Crippen Method |
| logp | 5.133 | | Crippen Method |
| mcvol | 261.410 | ml/mol | McGowan Method |
| pc | 1208.99 | kPa | Joback Method |
| rinpol | 1258.00 | | NIST Webbook |
| rinpol | 1258.00 | | NIST Webbook |
| tb | 800.66 | K | Joback Method |
| tc | 980.98 | K | Joback Method |
| tf | 561.39 | K | Joback Method |
| vc | 1.099 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 814.64 | J/mol×K | 800.66 | Joback Method |
| cpg | 823.01 | J/mol×K | 830.71 | Joback Method |
| cpg | 830.58 | J/mol×K | 860.77 | Joback Method |
| cpg | 837.45 | J/mol×K | 890.82 | Joback Method |
| cpg | 843.67 | J/mol×K | 920.88 | Joback Method |
| cpg | 849.34 | J/mol×K | 950.93 | Joback Method |
| cpg | 854.53 | J/mol×K | 980.98 | Joback Method |

Sources

| | |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| 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=U376163&Units=SI |

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

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