

4-Chloro-(2-hydroxyhexafluoroisopropyl)benzene

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|-----------------------------|--|
| Inchi: | InChI=1S/C9H5ClF6O/c10-6-3-1-5(2-4-6)7(17,8(11,12)13)9(14,15)16/h1-4,17H |
| InchiKey: | BDVVJTPJVCAQGG-UHFFFAOYSA-N |
| Formula: | C9H5ClF6O |
| SMILES: | OC(c1ccc(Cl)cc1)(C(F)(F)F)C(F)(F)F |
| Mol. weight [g/mol]: | 278.58 |
| CAS: | 2010-63-1 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|---------|----------------|
| gf | -1181.41 | kJ/mol | Joback Method |
| hf | -1374.91 | kJ/mol | Joback Method |
| hfus | 17.24 | kJ/mol | Joback Method |
| hvap | 50.84 | kJ/mol | Joback Method |
| log10ws | -4.14 | | Crippen Method |
| logp | 3.652 | | Crippen Method |
| mcvol | 142.640 | ml/mol | McGowan Method |
| pc | 2701.41 | kPa | Joback Method |
| tb | 552.52 | K | Joback Method |
| tc | 732.39 | K | Joback Method |
| tf | 331.67 | K | Joback Method |
| vc | 0.575 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 351.98 | J/molxK | 552.52 | Joback Method |
| cpg | 361.56 | J/molxK | 582.50 | Joback Method |
| cpg | 370.31 | J/molxK | 612.48 | Joback Method |
| cpg | 378.30 | J/molxK | 642.46 | Joback Method |
| cpg | 385.58 | J/molxK | 672.43 | Joback Method |
| cpg | 392.23 | J/molxK | 702.41 | Joback Method |
| cpg | 398.28 | J/molxK | 732.39 | 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=C2010631&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |

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 |

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