

Diphosphine, tetrakis(trifluoromethyl)-

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|-----------------------------|---|
| Other names: | Diphosphine, tetrakis(trifluoromethyl)-, gauche conformer Diphosphine, tetrakis(trifluoromethyl)-, trans conformer (Tetra-kis-trifluoromethyl)diphosphine |
| Inchi: | InChI=1S/C4F12P2/c5-1(6,7)17(2(8,9)10)18(3(11,12)13)4(14,15)16 |
| InchiKey: | GFWZGKUMKFSQHH-UHFFFAOYSA-N |
| Formula: | C4F12P2 |
| SMILES: | FC(F)(F)P(P(C(F)(F)F)C(F)(F)F)C(F)(F)F |
| Mol. weight [g/mol]: | 337.97 |
| CAS: | 2714-60-5 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|--------|----------------|
| ie | 10.71 | eV | NIST Webbook |
| ie | 10.71 | eV | NIST Webbook |
| ie | 11.57 | eV | NIST Webbook |
| log10ws | 1.17 | | Crippen Method |
| logp | 5.944 | | Crippen Method |
| mvol | 129.380 | ml/mol | McGowan Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C2714605&Units=SI |

Legend

| | |
|-----------------|-------------------------------------|
| ie: | Ionization energy |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |

mcvol: McGowan's characteristic volume

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