

Hexadecylbis(trifluoromethyl)phosphine sulfide

| | |
|-----------------------------|--|
| Other names: | Hexadecyl bis(trifluoromethyl)thiophosphine |
| Inchi: | InChI=1S/C18H33F6PS/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-25(26,17(19,20)21)18 |
| InchiKey: | PLXWROWOCMAODX-UHFFFAOYSA-N |
| Formula: | C18H33F6PS |
| SMILES: | CCCCCCCCCCCCCCCCCCP(=S)(C(F)(F)F)C(F)(F)F |
| Mol. weight [g/mol]: | 426.48 |
| CAS: | 136338-53-9 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|--------|----------------|
| log10ws | -4.96 | | Crippen Method |
| logp | 8.987 | | Crippen Method |
| mcvol | 311.910 | 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=C136338539&Units=SI |

Legend

| | |
|-----------------|-------------------------------------|
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |

Latest version available from:

<https://www.chemeo.com/cid/16-423-4/Hexadecylbis-trifluoromethyl-phosphine-sulfide.pdf>

Generated by Cheméo on 2024-04-27 06:12:46.239605292 +0000 UTC m=+16487615.160182604.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.