

Phosphine, tris(4-methoxyphenyl)-

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|-----------------------------|---|
| Other names: | NSC 136458 Phosphine, tris(p-methoxyphenyl)- Phosphorus tri-(p-methoxyphenyl) Tri(p-methoxyphenyl)phosphine Tri-p-anisylphosphine Trianisylphosphine Tris(4-anisyl)phosphine Tris(p-anisyl)phosphine tri-(4-Methoxyphenyl)phosphine tris(4-methoxyphenyl)phosphane tris(4-methoxyphenyl)phosphine tris(p-methoxyphenyl)phosphine |
| Inchi: | InChI=1S/C21H21O3P/c1-22-16-4-10-19(11-5-16)25(20-12-6-17(23-2)7-13-20)21-14-8-1 |
| InchiKey: | UYUUAUOYLFIRJG-UHFFFAOYSA-N |
| Formula: | C21H21O3P |
| SMILES: | COc1ccc(P(c2ccc(OC)cc2)c2ccc(OC)cc2)cc1 |
| Mol. weight [g/mol]: | 352.36 |
| CAS: | 855-38-9 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|--------|---|
| hfus | 25.67 | kJ/mol | Solubilities of Phosphorus-Containing Compounds in Selected Solvents |
| ie | 7.48 | eV | NIST Webbook |
| log10ws | -14.04 | | Crippen Method |
| logp | 3.471 | | Crippen Method |
| mvol | 273.540 | ml/mol | McGowan Method |
| tf | 403.65 | K | Solubilities of Phenylphosphinic Acid, Hydroxymethylphenylphosphinic Acid, p-Methoxyphenylphosphinic Acid, p-Methoxyphenylhydroxymethylphosphinic Acid, Triphenylphosphine, Tri(p-methoxyphenyl)phosphine, and Tri(p-methoxyphenyl)phosphine Oxide in Selected Solvents |

Sources

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|---|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |
| Solubilities of Phenylphosphinic Acid, Hydroxymethylphenylphosphinic Acid, and Methylphenylphosphinic Acid in Selected Solvents | https://www.doi.org/10.1021/je050377q |
| Solubilities of Phenylphosphinic Acid, Hydroxymethylphenylphosphinic Acid, and Methylphenylphosphinic Acid in Selected Solvents | https://www.doi.org/10.1021/je100341q |
| McGowan Method | http://link.springer.com/article/10.1007/BF02311772 |
| Tris(<i>n</i> -methoxyphenyl)phosphine, and Tris(<i>p</i> -methoxyphenyl)phosphine Oxide in Selected Solvents: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C855389&Units=SI |

Legend

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|-----------------|---|
| hfus: | Enthalpy of fusion at standard conditions |
| ie: | Ionization energy |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| tf: | Normal melting (fusion) point |

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