

Phosphonic acid, P-decyl-

Chemical Properties

CAS No. : 6874-60-8

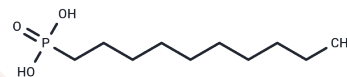
Formula: C₁₀H₂₃O₃P

Molecular Weight: 222.26

Keep away from direct sunlight

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

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|---------------|--|
| Description | Phosphonic acid, P-decyl- is used as an important raw material and intermediate in organic synthesis, agrochemicals, dyestuff, and pharmaceuticals. It is also used in stabilizing dye-sensitized solar cells. |
| Targets(IC50) | Others |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 4.4992 mL | 22.4962 mL | 44.9924 mL |
| 5 mM | 0.8998 mL | 4.4992 mL | 8.9985 mL |
| 10 mM | 0.4499 mL | 2.2496 mL | 4.4992 mL |
| 50 mM | 0.090 mL | 0.4499 mL | 0.8998 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Liu B, Liu JC, Shen Y, Feng JS, Bao SS, Zheng LM. Polymorphic layered copper phosphonates: exfoliation and proton conductivity studies. Dalton Trans. 2019 Apr 23. doi: 10.1039/c9dt00970a. [Epub ahead of print] PubMed PMID: 31011721.

Chen LC, Chen KX, Zhang SY, Deng SP. Vesicle formation by ultrashort alkyl-phosphonic acids and serine in aqueous solutions. Colloids Surf B Biointerfaces. 2019 Mar 27;179:488-494. doi: 10.1016/j.colsurfb.2019.03.055. [Epub ahead of print] PubMed PMID: 31005744.

Warnan J, Willkomm J, Farré Y, Pellegrin Y, Boujtita M, Odobel F, Reisner E. Solar electricity and fuel production with perylene monoimide dye-sensitised TiO₂ in water. Chem Sci. 2018 Dec 21;10(9):2758-2766. doi: 10.1039/c8sc05693e. eCollection 2019 Mar 7. PubMed PMID: 30996994; PubMed Central PMCID: PMC6419928.

Hashemian SMR, Farhadi Z, Farhadi T. Fosfomycin: the characteristics, activity, and use in critical care. Ther Clin Risk Manag. 2019 Mar 27;15:525-530. doi: 10.2147/TCRM.S199119. eCollection 2019. Review. PubMed PMID: 30988619; PubMed Central PMCID: PMC6441553.

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