

## Diphenyl cresyl phosphate

## Chemical Properties

|                   |                                                                        |
|-------------------|------------------------------------------------------------------------|
| CAS No.:          | 26444-49-5                                                             |
| Formula:          | C <sub>19</sub> H <sub>19</sub> O <sub>5</sub> P                       |
| Molecular Weight: | 358.33                                                                 |
| Appearance:       | N/A                                                                    |
| Storage:          | 0-4°C for short term (days to weeks), or -20°C for long term (months). |

## Biological Description

|             |                                                                                                     |
|-------------|-----------------------------------------------------------------------------------------------------|
| Description | Diphenyl cresyl phosphate is a flame retardant, plasticizers, additives of gasoline, and lubricant. |
|-------------|-----------------------------------------------------------------------------------------------------|

## Solubility Information

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

## Preparing Stock Solutions

|       | 1mg      | 5mg       | 10mg      |
|-------|----------|-----------|-----------|
| 1 mM  | 2.791 mL | 13.954 mL | 27.907 mL |
| 5 mM  | 0.558 mL | 2.791 mL  | 5.581 mL  |
| 10 mM | 0.279 mL | 1.395 mL  | 2.791 mL  |
| 50 mM | 0.056 mL | 0.279 mL  | 0.558 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Tan H, Chen D, Peng C, Liu X, Wu Y, Li X, Du R, Wang B, Guo Y, Zeng EY. Novel and Traditional Organophosphate Esters in House Dust from South China: Association with Hand Wipes and Exposure Estimation. *Environ Sci Technol*. 2018 Sep 21. doi: 10.1021/acs.est.8b02933. [Epub ahead of print] PubMed PMID: 30199231.
2. Tao Y, Shang Y, Li J, Feng J, He Z, Covaci A, Wang P, Luo J, Mao X, Shi B, Hu L, Luo D, Mei S. Exposure to organophosphate flame retardants of hotel room attendants in Wuhan City, China. *Environ Pollut*. 2018 May;236:626-633. doi: 10.1016/j.envpol.2018.01.079. PubMed PMID: 29433103.
3. Chen Y, Fang J, Ren L, Fan R, Zhang J, Liu G, Zhou L, Chen D, Yu Y, Lu S. Urinary metabolites of organophosphate esters in children in South China: Concentrations, profiles and estimated daily intake. *Environ Pollut*. 2018 Apr;235:358-364. doi: 10.1016/j.envpol.2017.12.092. Epub 2018 Jan 4. PubMed PMID: 29306213.
4. Christia C, Poma G, Besis A, Samara C, Covaci A. Legacy and emerging organophosphorus flame retardants in car dust from Greece: Implications for human exposure. *Chemosphere*. 2018 Apr;196:231-239. doi: 10.1016/j.chemosphere.2017.12.132. Epub 2017 Dec 23. PubMed PMID: 29304461.

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