

## Xantphos

## Chemical Properties

|                   |                                                                        |
|-------------------|------------------------------------------------------------------------|
| CAS No.:          | 161265-03-8                                                            |
| Formula:          | C <sub>39</sub> H <sub>32</sub> OP <sub>2</sub>                        |
| Molecular Weight: | 578.63                                                                 |
| Appearance:       | N/A                                                                    |
| Storage:          | 0-4°C for short term (days to weeks), or -20°C for long term (months). |

## Biological Description

|             |                                                                                 |
|-------------|---------------------------------------------------------------------------------|
| Description | Xantphos is an organophosphorus compound derived from the heterocycle xanthene. |
|-------------|---------------------------------------------------------------------------------|

## 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  | 1.728 mL | 8.641 mL | 17.282 mL |
| 5 mM  | 0.346 mL | 1.728 mL | 3.456 mL  |
| 10 mM | 0.173 mL | 0.864 mL | 1.728 mL  |
| 50 mM | 0.035 mL | 0.173 mL | 0.346 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

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2. Satishkumar S, Poudapally S, Vuram PK, Gurram V, Pottabathini N, Sebastian D, Yang L, Pradhan P, Lakshman MK. Pd-catalyzed versus uncatalyzed, PhI(OAc)(2)-mediated cyclization reactions of N(6)-([1,1'-biaryl]-2-yl)adenine nucleosides. *ChemCatChem*. 2017 Nov 9;9(21):4058-4069. doi: 10.1002/cctc.201700918. Epub 2017 Oct 24. PubMed PMID: 29503672; PubMed Central PMCID: PMC5830157.
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4. Keaveney ST, Schoenebeck F. Palladium-Catalyzed Decarbonylative Trifluoromethylation of Acid Fluorides. *Angew Chem Int Ed Engl*. 2018 Apr 3;57(15):4073-4077. doi: 10.1002/anie.201800644. Epub 2018 Mar 13. PubMed PMID: 29479784.

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