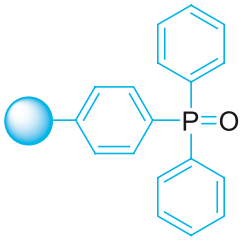
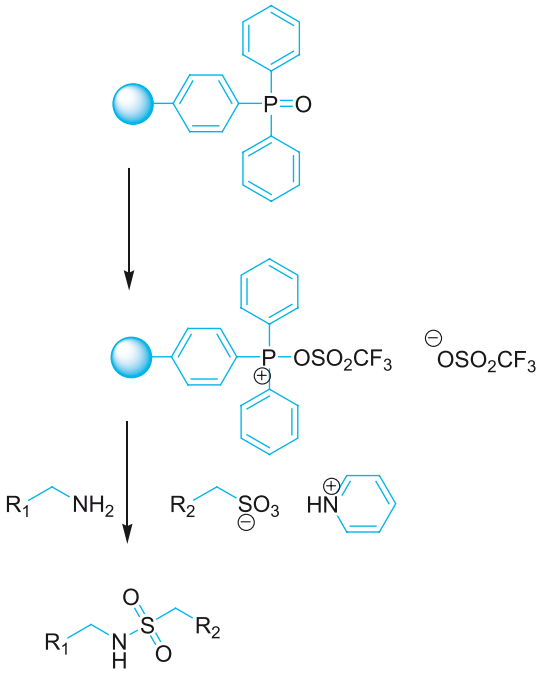


Description: Polymer supported triphenylphosphine oxide
Application: Dehydrating Reagent
See Also: PL-TPP, PL-Mukaiyama

PL-TPPO can be easily converted to a polymer supported triphenylphosphine ditriflate species upon treatment with triflic anhydride. This species can then be used as a dehydrating reagent in a variety of organic transformations, such as amide and ester bond formation, and aza-Mitsunobu chemistry.

Another very powerful application of this polymeric ditriflate species is its ability to synthesize sulfonamide compounds from the direct coupling of sulfonic acids and amines. PL-TPPO is manufactured from the PL-TPP triphenylphosphine base resin. This is manufactured by proprietary copolymerization techniques, which result in an ultra pure resin, free of organic and inorganic impurities and leachables.



References

(1) Caddick, S.; Wilden, J. D.; Judd, D. B. *J. Am. Chem. Soc*. **2004**, *126*, 1024-1025.
(2) Elson, K. E.; Jenkins, I. D.; Loughlin, W. A. *Tetrahedron Lett*. **2004**, *45*, 2491-2493.
(3) Fairfull-Smith, K. E.; Jenkins, I. D.; Loughlin, W. A. *Org. Biomol. Chem.* **2004,** *2*, 1979-1986.

Ordering Information

PL-TPPO Resin (1% DVB)	Part No
1.4mmol/g 150-300μm	PL3424-1689, 5g PL3424-3689, 25g PL3424-4689, 100g PL3424-6689, 1kg

Additional Information

Varian Polymer Laboratories manufactures in multi kg quantities. Please enquire for details.