

Identification

Tetrabenzylpyrophosphate
 Tetrabenzylidiphosphate
 Pyrophosphoric acid tetrabenzylester
 CAS no. 990-91-0
 BRN 2068292

Specifications

Assaymin. 98%

Properties

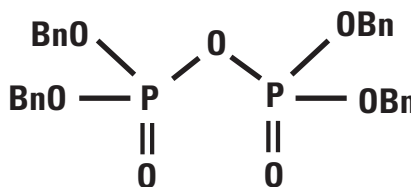
Crystalline solid
 Molecular weight.....538.5
 Melting point61 - 62°C

Safety & Handling

R 34
 S 26, 36/37/39, 45
 UN 3261
 Corrosive
 Moisture sensitive
 Keep refrigerated at 0°C or below
 (for stability data see Reference 12)

Phosphorylations

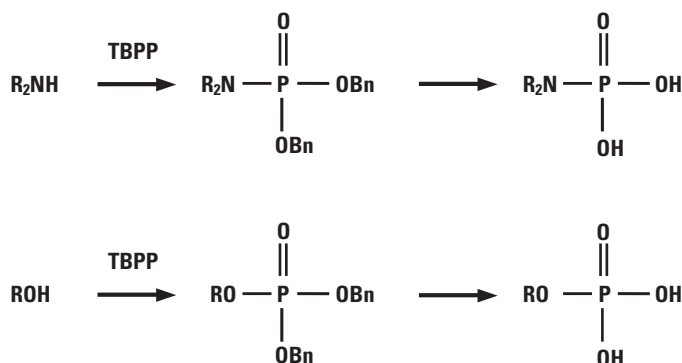
Tetrabenzylpyrophosphate (TBPP)



TBPP has become increasingly popular for N- and O-phosphorylations in the syntheses of many phosphate containing drugs and prodrugs¹⁻¹¹. Phosphorylation and subsequent debenylation of respective precursors provides facile and clean access to the phosphate containing target molecules. Generally, phosphorylation conditions are very mild, thus suitable for a wide variety of complex and sensitive molecules. Compared to other typical phosphorylation reagents, TBPP is a solid and a stable compound.

For the first time, this product is now made available on commercial scale by Archimica.

Applications



References

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4. J.L. Montchamps et al., J. Org. Chem. 59 (1994), 6999
5. M.R. Marzabadi et al., Bioorg. Med. Chem. Lett. 2 (1992), 1435
6. G.F. Parcofsky et al. J. Med. Chem. 41 (1998), 1894
7. J.M. Balkovec et al., J. Med. Chem. 35 (1992), 35
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