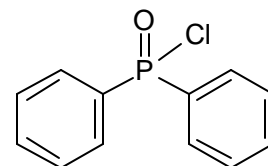


## DPPC AS A REAGENT FOR ACID ACTIVATION IN THE FORMATION OF AMIDES, $\beta$ -LACTAMS AND PEPTIDES FROM SUITABLY PROTECTED AMINO ACIDS.

### PRODUCT DETAIL:

**CHEMICAL NAME:** Diphenylphosphinic Chloride (DPPC)

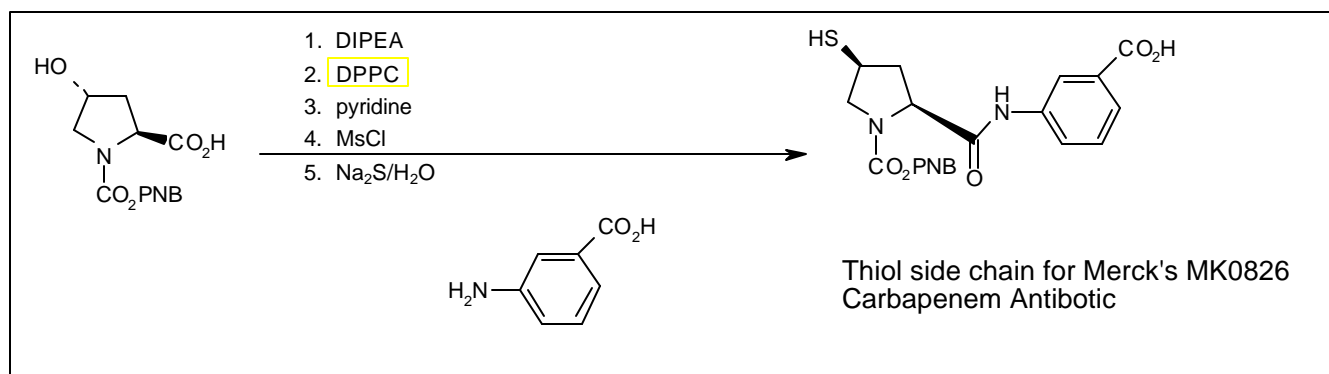
**STRUCTURE:**



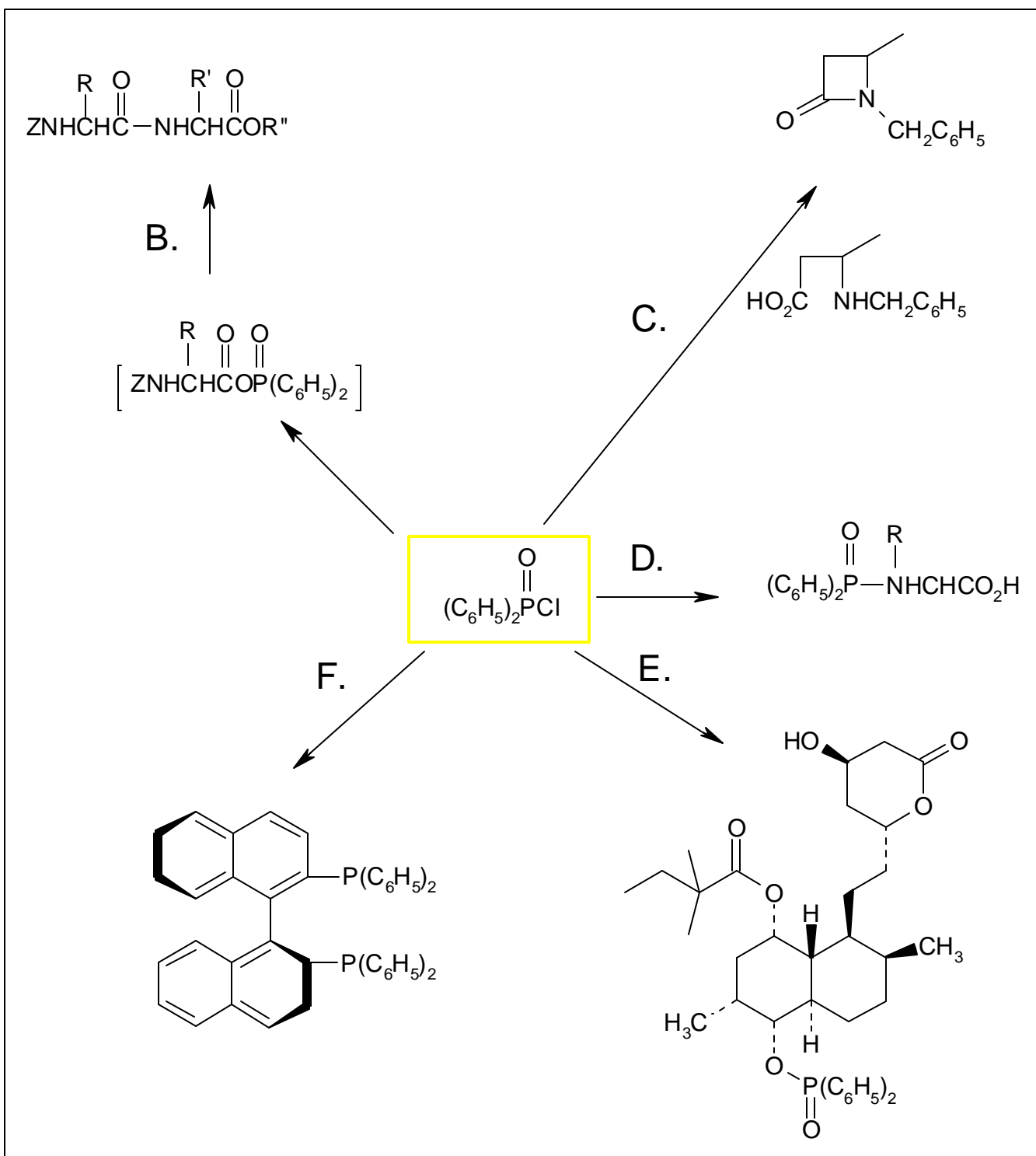
**CAS REGISTRY NUMBER:** 1499-21-4

### EXAMPLES / USE:

A. DPPC as a reagent for acid activation in amide formation.



- B. DPPC as an acid protecting group in peptide formation.
- C. DPPC as an acid activating group in lactam synthesis.
- D. DPPC as an amino protecting group in peptide formation.
- E. DPPC as a reagent for phosphorylation at oxygen.
- F. DPPC as a reagent in BINAP synthesis



## SUMMARY:

**THERAPEUTIC AREA:** Use not associated with any specific therapeutic area.

**FUNCTIONALITY:** Transformation Reagent:

- Reagent for acid activation in the formation of amides,  $\beta$ -lactams and peptides from suitably protected amino acids.
- Amine protecting agent in peptide synthesis.
- Intermediate for formation of diphenyl alkyl and aryl phosphine oxides.

## REFERENCES:

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- B. J. Chem. Soc. Perkin Trans. I, 461 (1985)
- C. J. Chem. Soc., Chem. Commun., 1242 (1988)
- D. J. Chem. Soc. Perkin Trans I, 1357 (1984)
- E. US 5,130,306 (1992)
- F. J. Org. Chem. 51, 629, (1986)

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