

# PL-BnSH Resin



## Description

4-Mercaptomethylpolystyrene

## Synonyms

Polymer supported benzyl mercaptan;  
polymer supported  $\alpha$ -toluenethiol

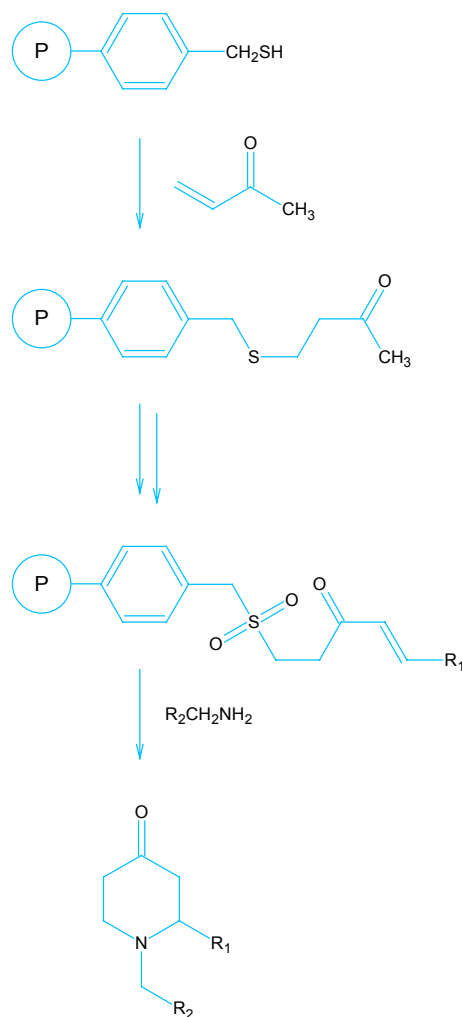
## Applications

PL-BnSH Resin is a nucleophilic polymer, which can be used for Michael addition.

Kobayashi has exploited this feature to immobilize a number of silyl enol ethers for use in Aldol reactions and Mannich 3 component reactions. The resultant esters have been cleaved by saponification or reduction to yield acids or aldehydes.

Barco has used a polymer supported mercaptomethyl resin to immobilize butanone. This is then converted to a sulfone and used to produce polymer-bound unsaturated ketones for preparing substituted heterocyclic compounds.

PL-BnSH MP is a macroporous material suitable for use with protic, polar and apolar solvents. This reagent can be used to effectively scavenge a range of metals from solution such as Platinum, Palladium and Ruthenium.



## References

- Arcus, C L & Salomons, N S (1963), J Chem Soc, 1175  
Gozdz, A S (1981), Makromol Chem, Rapid Commun, **2**, 595  
Yamashita, K et al. (1989), J Macromol Sci, Chem, **A26**, 1291.  
Kobayashi, S et al. (1996), Tetrahedron Lett, **37**, 5569  
Kobayashi, S et al. (1996), Tetrahedron Lett, **37**, 7783  
Kobayashi, S et al. (1998), J Org Chem, **63**, 4868  
Barco, A et al. (1998), Tetrahedron Lett, **39**, 7591

## Products Information

Microporous

### PL-BnSH Resin

1.8mmol/g 150-300 $\mu$ m (50-100 mesh)

Macroporous

### PL-BnSH MP-Resin

2.2mmol/g 100 $\text{\AA}$  150-300 $\mu$ m (50-100 mesh)