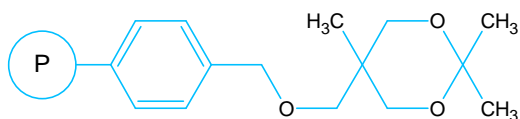


PL-Carboni Resin



PL-Carboni Resin

Description

Polymer supported 1,1,1-tris(hydroxymethyl)ethane (acetal form)

Synonyms

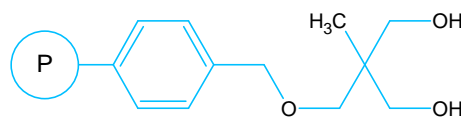
Polymer supported 2-methyl-2-(hydroxymethyl)-1,3-propanediol acetonide

Applications

PL-Carboni Resin is a diol resin in the protected acetonide form; PL-Carboni-Diol Resin is the same material in the free diol form. The acetonide is converted to the free 1,3-diol by acidolysis.

The ability of the resin to form a stable six membered ring with boronic acids allows the resin to be used in two modes: firstly to immobilize the boronic acid to allow modification of the aryl side chain or secondly to act as a scavenger for residual boronic acid species.

There are a limited number of commercially available phenylboronic acid derivatives and by immobilizing this type of compound onto the support it is possible to effect certain chemical transformations. The resin bound species can then be used directly in a Suzuki-Miyaura cross coupling reaction, for example, to create novel biaryl compounds.



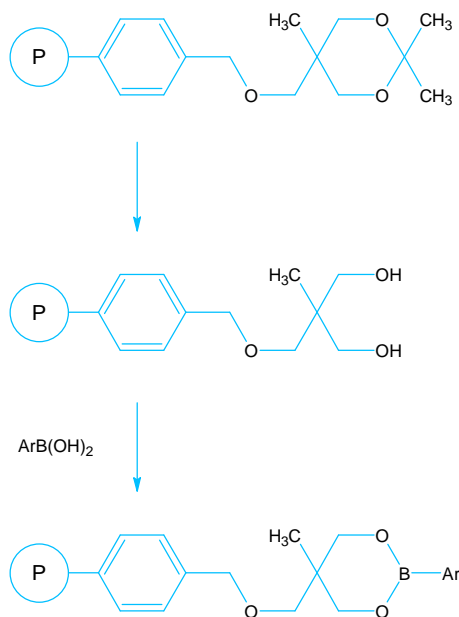
PL-Carboni-Diol Resin

Description

Polymer supported 1,1,1-tris(hydroxymethyl)ethane (free diol form)

Synonyms

Polymer supported 2-methyl-2-(hydroxymethyl)-1,3-propanediol



References

- Carboni, B et al (1999), Tetrahedron Lett, **40**, 7979
Pourbaix, C et al (2000), Chem Commun, 1275
Pourbaix, C et al (2001), Org Lett, **3**, 803

Products Information

Microporous

PL-Carboni Resin

1.6mmol/g 150-300µm (50-100 mesh)

PL-Carboni-Diol Resin

1.7mmol/g 150-300µm (50-100 mesh)