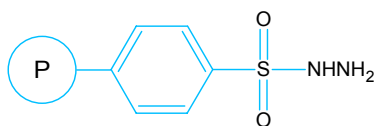


PL-SO₂NHNH₂ Resin



Description

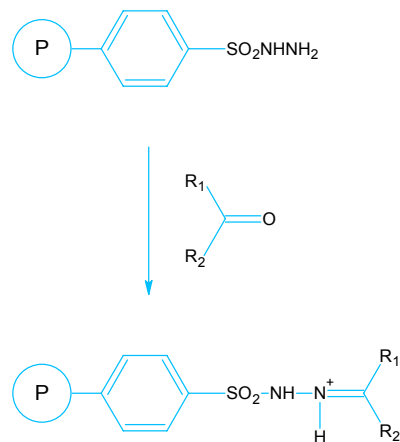
Polymer supported sulfonylhydrazide

Synonyms

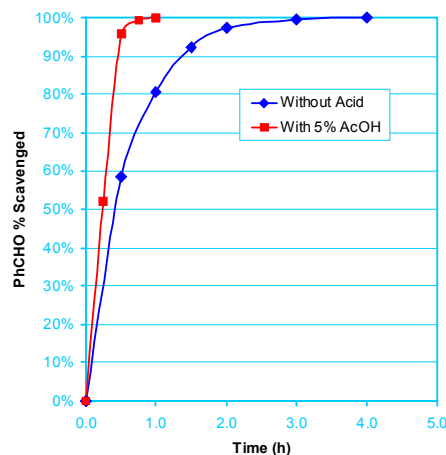
None

Applications

PL-SO₂NHNH₂ is a polymer supported equivalent of *p*-toluenesulfonyl hydrazide and is a highly effective scavenger of aldehydes and ketones. It is particularly useful for removing excess carbonyl species from reductive amination reactions. PL-SO₂NHNH₂ can also be used as a polymer-supported source of diimine, which can be used in hydrogenation and cycloaddition chemistry. PL-SO₂NHNH₂ can also be used to form immobilized sulfonyl hydrazones, which can then undergo further organic transformations.



The rate of scavenging can be increased effectively by adding 5% Acetic acid to act as a catalyst. The graph on the right shows that a solution containing benzaldehyde is fully scavenged in 1 hour when acid is added. In the absence of acid, the same reaction takes 5 hours. The addition of acid will also improve the scavenging of unreactive or sterically-hindered ketones.



References

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Products Information

Microporous

PL-SO₂NHNH₂ Resin

2.0mmol/g 150-300µm (50-100 mesh)