

Product Data Sheet

Product Name: Ferrocenium hexafluorophosphate

Cat. No.: GD13760

Chemical Properties

Cas. No. 11077-24-0

Formula

M.Wt

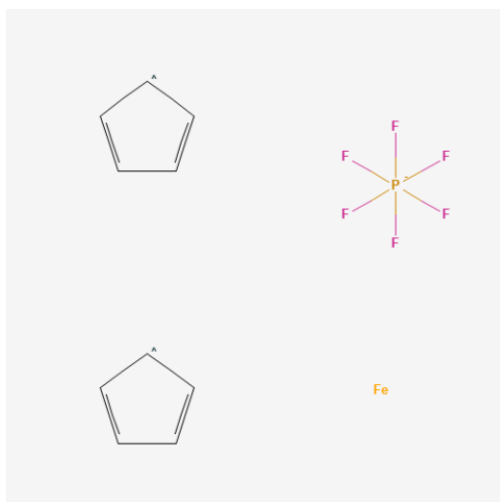
Solubility

Storage Store at RT

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Ferrocenium hexafluorophosphate is an efficient catalyst for the etherification of terminal, tertiary propargylic alcohols with primary and secondary alcohols [1]. Ferrocenium hexafluorophosphate can

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be reacted with P-OR nucleophile, which can give a cyclic C-H functionized product or a cyclic substituted product^[2]. Ferrocenium hexafluorophosphate has been widely used to facilitate chemically selective oxidation of benzylamines to yield corresponding imines^[3].

References:

- [1] Queensen M J, Rabus J M, Bauer E B. Ferrocenium hexafluorophosphate as an inexpensive, mild catalyst for the etherification of propargylic alcohols[J]. Journal of Molecular Catalysis A: Chemical, 2015, 407: 221-229.
- [2] Chamkin A A, Krivykh V V, Kreindlin A Z, et al. Reactions of Ferrocenium Hexafluorophosphate with P- OR Nucleophiles Give Ring C- H Functionalization or Ring Replacement Products Depending on the Phosphorus Reagent[J]. European Journal of Inorganic Chemistry, 2021, 2021(16): 1601-1610.
- [3] Bauer E B. Recent catalytic applications of ferrocene and ferrocenium cations in the syntheses of organic compounds[J]. Molecules, 2024, 29(23): 5544.

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