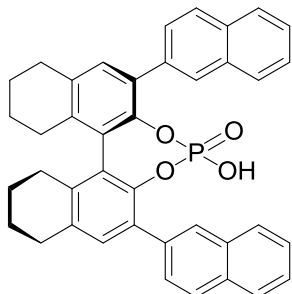


Catalog # 15-1378 (11bR)-8,9,10,11,12,13,14,15-Octahydro-4-hydroxy-2,6-di-2-naphthalenyl-4-oxide-dinaphtho[2,1-d':1',2'-f][1,3,2]dioxaphosphepin, 98%, (99% ee)



Technical Notes:

1. The preparation of binaphthol monophosphoric acid derivatives.
2. Organocatalyst developed for the diastereo- and enantioselective 1,4-conjugate addn. of a variety of  $\beta$ -ketoesters to nitroolefins, employed in the addn. reaction, providing the corresponding nitroalkanes in high yield (up to 97%) with moderate diastereoselectivities (up to 2.6:1 dr) and enantioselectivities (up to 58% ee).

References:

1. JP 4725757, EP 1038877, US 6274745, 2000-3-21.
2. Lett. in Org. Chem., 2010, 7, 219-225.