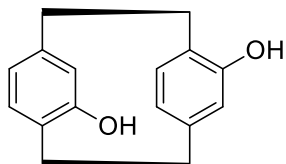
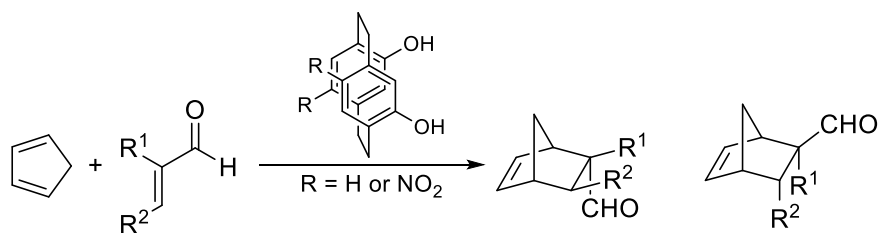


Catalog # 08-0712 (S)-4,12-Dihydroxy[2.2]paracyclophane (S)-PHANOL

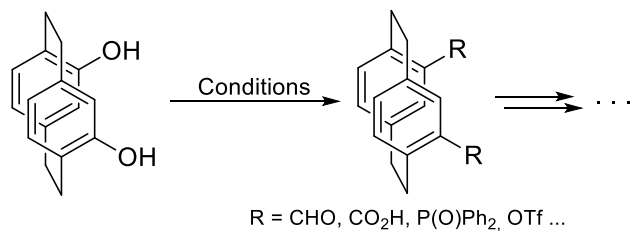


Technical Notes

1. Organocatalysts for the Diels-Alder reaction via double hydrogen-bonding to a carbonyl group.
2. Used for synthesis of various functionalized [2.2]paracyclophanes.



Tech. Note (1); Ref. (1, 2)



Tech. Note (2); Ref. (3-5)

References:

1. *Synlett* **2003**, 8, 1121.
2. *Adv. Synth. Catal.* **2004**, 346, 1117.
3. *Eur. J. Org. Chem.* **2013**, 4523.
4. *Chem. Asian J.* **2016**, 11, 2524.
5. *Chem. Asian J.* **2019**, 14, 1681.