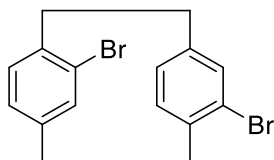


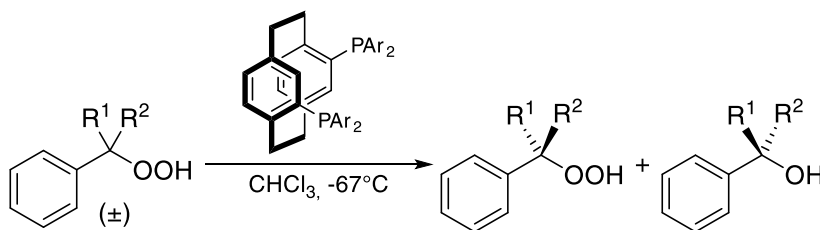
Catalog # 06-0712 4,12-Dibromo[2.2]paracyclophane



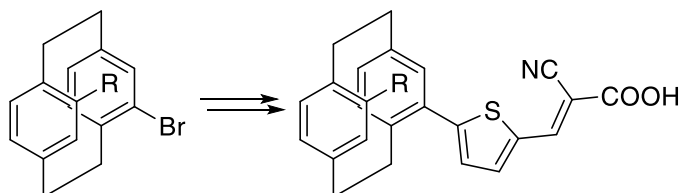
Used for synthesis of wide range of [2.2]paracyclophanes derivatives

**Technical Notes**

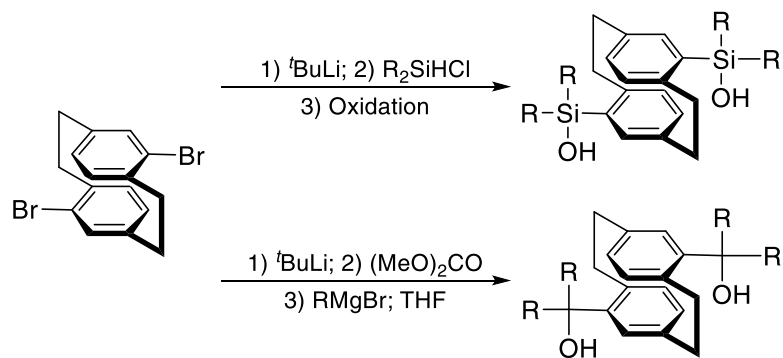
1. Precursor for cyclophane-derived enantiopure phosphines used for kinetic resolution of hydroperoxides.
2. Used as a bridging unit in the design of organic dyes for sensitized solar cells.
3. Used for syntheses of [2.2]paracyclophane-based bis-silanols and diols.
4. Used for syntheses of a series of ZnP-pCp-oPPV-C60 conjugates covalently connected through [2,2]-paracyclophane-oligophenylenevinylene (pCpoPPV) bridges containing one, two, and three [2,2]-paracyclophanes via Horner-Wadsworth-Emmons olefination reactions and/or Heck type Pd-catalyzed reactions.
5. Used in synthesis of nitrogen-containing microporous conjugated polymers via carbazole-based oxidative coupling polymerization.
6. Used in synthesis of bis-pyridyl[2.2]paracyclophane.
7. Used in the amination of pseudo-ortho dibromo[2.2]paracyclophane.



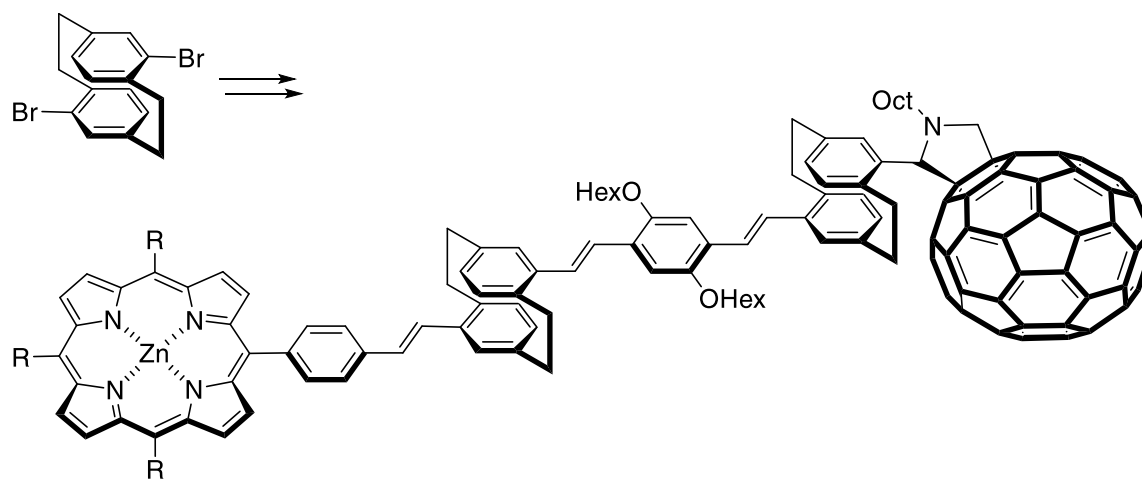
**Tech. Note (1); Ref. (1)**



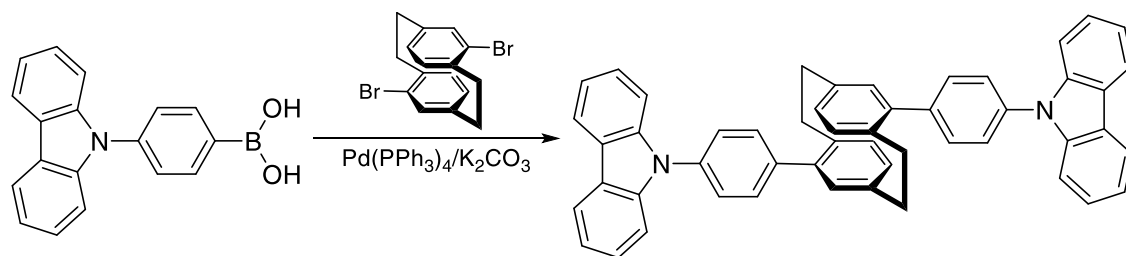
**Tech. Note (2); Ref. (2)**



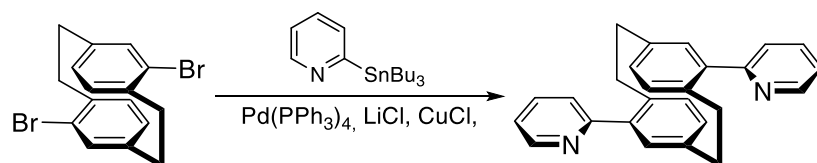
Tech. Note (3); Ref. (3)



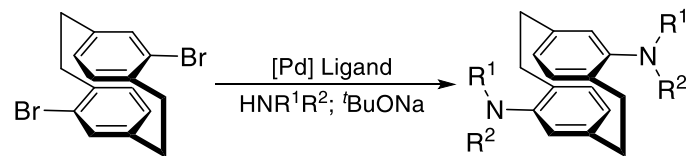
Tech. Note (4); Ref. (4)



Tech. Note (5); Ref. (5)



Tech. Note (6); Ref. (6)



Tech. Note (7); Ref. (7)

References:

1. *J. Am. Chem. Soc.*, **2007**, *129*, 3836.
2. *Chem. Commun.*, **2012**, *48*, 726.
3. *Eur. J. Org. Chem.* **2012**, 3373.
4. *J. Am. Chem. Soc.* **2013**, *135*, 10372.
5. *Small* **2014**, *10*, 308.
6. *Adv. Synth. Catal.* **2016**, *358*, 1664.
7. *Org. Biomol. Chem.*, **2017**, *15*, 8975.