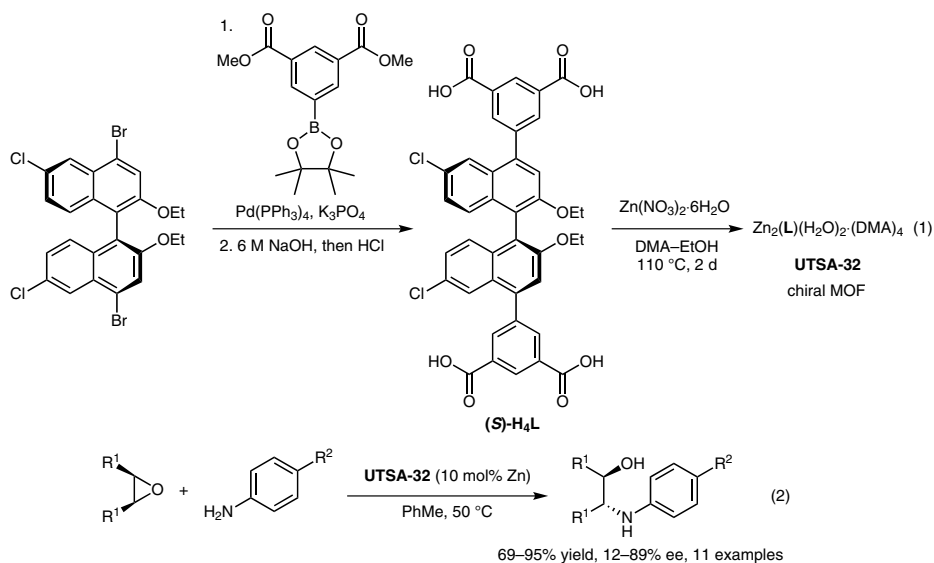


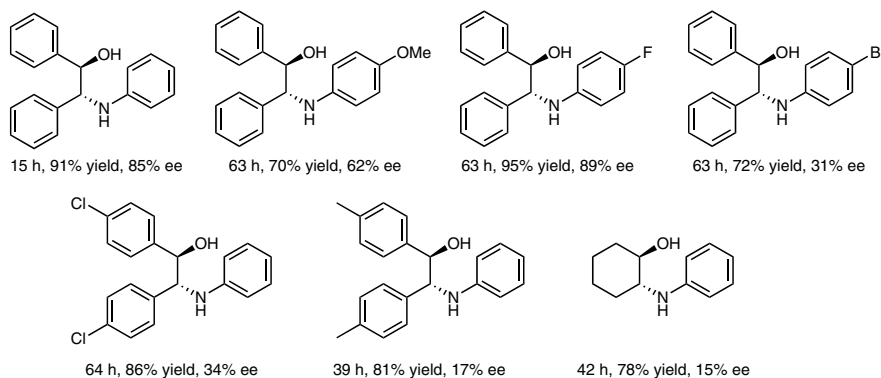
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 Enantioselective Ring-Opening of *meso*-Epoxides by Aromatic Amines Catalyzed by a Homochiral Metal-Organic Framework  
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# Asymmetric Ring-Opening of *meso*-Epoxides with a Chiral Metal-Organic Framework



69–95% yield, 12–89% ee, 11 examples

## Typical results:



**Significance:** A chiral MOF (**UTSA-32**) was prepared from (*S*)-4,4'-dibromo-6,6'-dichloro-2,2'-diethoxy-1,1'-binaphthyl in three steps (eq. 1). **UTSA-32** catalyzed the enantioselective ring opening of *meso*-epoxides with anilines to give the corresponding  $\alpha$ -hydroxyamines in 69–95% yield with 12–89% ee (11 examples, eq. 2).

**Comment:** **UTSA-32** was characterized by single-crystal X-ray diffraction, PXRD, TGA, and BET analyses. Single-crystal X-ray diffraction analysis of **UTSA-32** revealed that the binuclear zinc clusters are bridged by the carboxylic groups of organic linker **L** to form a three-dimensional framework.

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