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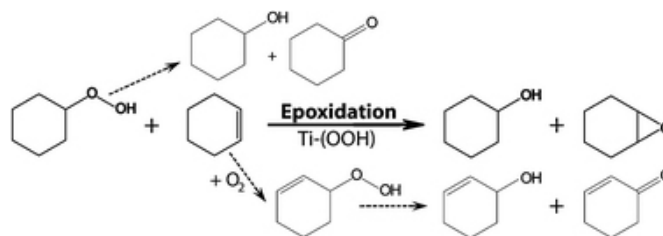
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Hot Article: The active catalytic site in direct epoxidation

13 Feb 2012

By [Matthew Cude, Development Editor](#).

Epoxides are used in the production of a wide range of compounds including resins, perfumes and polyethers among many others. The commercial synthesis of epoxides uses olefins, either through the chlorohydrin process or the hydroperoxide process. This [Hot Article](#) from Professor Bert Weckhuysen *et al.* details a mechanistic study on cyclohexene epoxidation with cyclohexyl hydroperoxide, the team performed the reaction over titanium grafted mesoporous silica.



Two competing reactions appear to occur, one producing the epoxide and the other yielding cyclohexanone. As all articles are free to access in [Catalysis Science & Technology](#) for the duration of 2012 you can download this article now to see the proposed mechanistic pathways.

[Mechanistic insights in the olefin epoxidation with cyclohexyl hydroperoxide](#)

Bart P. C. Herejijgers, Rudy F. Parton and Bert M. Weckhuysen

Catal. Sci. Technol., 2012, Advance Article

DOI: 10.1039/C2CY00455K, Paper

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