



# Is the electrocatalytic epoxidation of stilbene isomers using manganese (III) tetradentate Schiff bases complexes stereoselective?

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Titre	Is the electrocatalytic epoxidation of stilbene isomers using manganese (III) tetradentate Schiff bases complexes stereoselective?
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Auteur	Ourari, Ali [1], Baameur, Lotfi [2], Khan, Mustayeen Ahmed [3], Bouet, Gilles [4]
Type	Article scientifique dans une revue à comité de lecture
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Résumé en anglais	Three manganese (III) complexes were obtained with H <sub>2</sub> Salen derivatives and used as catalysts in the epoxidation reactions of E- and Z-stilbene isomers. The preparative electrolyses were carried out at 25 °C in acetonitrile solution containing 0.1 M TBAP, 10 <sup>-3</sup> M complex, 10 <sup>-2</sup> M 2-methylimidazole and 0.1 M benzoic anhydride plus stilbene as substrate. Our results showed clearly that E-stilbene was totally converted to Z-stilbene oxide whereas Z-stilbene leads to a mixture in which the benzaldehyde was the major by-product. In our experimental conditions, the turnovers recorded for different experiments were located in the 3.7-6.6 range.
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## Liens

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