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(54) Title: DIRECT EPOXIDATION PROCESS

(57) Abstract: The invention is a process for epoxidizing an olefin with hydrogen and oxygen in the presence of a catalyst comprising a noble metal and a titanium or vanadium zeolite in a solvent mixture comprising water, methanol, and a C₃-C₆ aliphatic ketone. This process surprisingly gives significantly reduced by-product glycol and glycol ethers formed by the unwanted ring-opening of epoxides.



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