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(54) Title: A PROCESS FOR THE PREPARATION OF PROPYLENE OXIDE

(57) Abstract: A continuous process for the preparation of propylene oxide, comprising (i) providing a liquid feed stream comprising propene, hydrogen peroxide, acetonitrile, water, dissolved potassium dihydrogen phosphate, and optionally propane; (ii) passing the liquid feed stream provided in (i) into an epoxidation reactor comprising a catalyst comprising a titanium zeolite of structure type MWW, and subjecting the liquid feed stream to epoxidation reaction conditions; (iii) removing an effluent stream from the epoxidation reactor; wherein the concentration of the dissolved potassium dihydrogen phosphate in the liquid feed stream is at least 10 % of the solubility limit of the potassium dihydrogen phosphate in the liquid feed stream.



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