

Energy analysis of prospects for the use of supercritical technologies in the ethylene oxide production

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Abstract

The paper presents an analysis of the prospects for the use of supercritical technologies in the purification of ethylene oxide after preparation thereof in a reactor and single water absorption. Comparison of the proposed technology with the technology developed by the firm *Scientific Design* has been considered. It is shown that the use of the new technology can reduce both energy and capital costs for the implementation of the process.