

عنوان مقاله:

Technical feasibility study of applying methanol instead of acetic acid in light ends recovery system of acetic acid production unit

محل انتشار:

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خلاصه مقاله:

Acid corrosion causes many problems in industrial operations of acetic acid production. The possibility of applying methanol absorbent instead of acetic acid absorbent in light end recovery system of acetic acid unit of Fanavaran petrochemical complex was investigated. The simulation was carried out using Aspen plus software. Simulation results of applying methanol showed an absorption efficiency of 99.6% in high pressure absorption tower and 99.3% in low pressure absorption tower. The corresponding values for acetic acid absorbent were 99.7% in high pressure absorption tower and 99.6% in low pressure absorption tower. Results obtained of applying methanol were comparable with acetic acid, moreover the decreasing the equipments corrosion and removal of stripper tower are the advantages of methanol absorbent.

کلمات کلیدی:

Acetic acid; Methanol; Simulation; Absorption

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