

Separation of (meth)acrylic acid from the reaction mixture formed in the catalytic gas phase oxidation of C_3/C_4 compounds

Abstract of the disclosure:

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A process for the separation of (meth)acrylic acid from the reaction gas mixture formed in the catalytic gas phase oxidation of propylene and/or acrolein by countercurrent absorption using a high-boiling inert hydrophobic organic liquid, in which the reaction gas mixture is passed through an absorption column
10 countercurrently to the descending high-boiling inert hydrophobic organic liquid and (meth)acrylic acid is subsequently fractionally separated from the liquid effluent leaving the absorption column and containing (meth)acrylic acid, wherein a rectifying process is superimposed on the absorption process occurring naturally in the absorption column by removing a quantity of energy from the absorption
15 column which exceeds its natural energy loss resulting from contact with the ambient atmosphere.

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