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(54) Title: INTEGRATED PROCESS FOR SIMULTANEOUSLY PREPARING ALKALI METAL METHOXIDES

(57) Abstract: The present invention relates in a first aspect to an integrated process for simultaneously preparing n mixtures P(i) comprising alkali metal methoxide and methanol, comprising preparing one or more alkali metal methoxides in n reactive distillation column K(i) under reactive distillation conditions from n streams H(i) and n streams G(i) comprising methanol, thereby obtaining n vapor top streams W(i) comprising methanol and water, and obtaining n bottoms streams P(i) comprising alkali metal methoxide A(i)OMe and methanol; the process further comprising feeding at least a part of a first vapor stream W(1) into the lower part of the rectification column D at a position I(1); and at least partially condensing at least a part of a second vapor stream W(2), obtaining an at least partially condensed stream WC(2), and feeding at least a part of the stream WC(2) into the rectification column at a position I(2). A second aspect of the invention is directed to a chemical production unit for carrying out the process according to the first aspect; and a third aspect of the invention is related to the use of a chemical production unit according to the second aspect or of a process according to the first aspect for simultaneously producing n mixtures P(i) comprising alkali metal methoxide and methanol.

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