

Title (en)
INTEGRATED METHOD FOR PRODUCING TRIOXANE FROM FORMALDEHYDE

Title (de)
INTEGRIERTES VERFAHREN ZUR HERSTELLUNG VON TRIOXAN AUS FORMALDEHYD

Title (fr)
PROCEDE INTEGRE DE PRODUCTION DE TRIOXANE A PARTIR DE FORMALDEHYDE

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Application
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Abstract (en)
[origin: WO2007017479A1] The invention relates to an integrated method for producing trioxane from formaldehyde. According to said method, a flow A1 containing water and formaldehyde and a return flow B2 consisting essentially of water and formaldehyde are introduced into a trioxane synthesis reactor in which the formaldehyde is converted into trioxane, forming a product flow A2 containing trioxane, water and formaldehyde; the flow A2 is introduced into a first distillation column and distilled at a pressure of between 0.1 and 2.5 bar, forming a trioxane-enriched flow B1 and the flow B2 consisting essentially of water and formaldehyde; the flow B1 and a return flow D1 containing trioxane, water and formaldehyde are introduced into a second distillation column and distilled at a pressure of between 0.2 and 17.5 bar, forming a product flow C2 consisting essentially of trioxane and a flow C1 containing trioxane, water and formaldehyde; and the flow C1 is introduced into a third distillation column and distilled at a pressure of between 0.1 and 2.5 bar, forming the return flow D1 containing trioxane, water and formaldehyde and a flow D2 consisting essentially of water and formaldehyde.

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