

Abstract

A process for preparing cyclohexanol from benzene by

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a) preparing cyclohexene by hydrogenating benzene in the presence of a catalyst and

10 b) preparing cyclohexanol by hydrating the cyclohexene in the presence of a catalyst,

comprises

15 carrying out steps a) and b) in a reaction facility which has

a bottom region at the lower end,

a top region at the upper end and

20 a reaction zone between the top region and the bottom region which contains the catalyst according to steps a) and b),

25 evaporating a portion of the benzene using the heat of reaction in the reaction zone, condensing it in the top region and returning it to the reaction zone,

and

30 withdrawing a reaction mixture containing cyclohexanol in the bottom region.

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