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(54) Title: METHOD FOR THE SEPARATION OF ACETONITRILE FROM WATER

(57) Abstract: A method for separating acetonitrile from water, comprising (i) providing a stream S1 containing at least 95 wt.-%, based on the total weight of S1, acetonitrile and water, wherein the weight ratio of acetonitrile : water is greater than 1; (ii) adding a stream P, comprising at least 95 wt.-% C3, based on the total weight of stream P, to S1 to obtain a mixed stream S2, C3 being propene optionally admixed with propane with a minimum weight ratio of propene : propane of 7:3; (iii) subjecting S2 to a temperature of 92 °C at most and a pressure of at least 10 bar, obtaining a first liquid phase L1 essentially consisting of C3, acetonitrile, and water, and a second liquid phase L2 essentially consisting of water and acetonitrile wherein the weight ratio of acetonitrile : water in L2 is less than 1; (iv) separating L1 from L2.



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