

Continuous method for obtaining 2-ethylhexyl acrylate

Abstract

- 5 The present invention relates to a continuous process for obtaining 2-ethylhexyl acrylate (2-EHA) from a mixture (1) that is liquid under an absolute pressure in the range from 0.5 to 100 bar and has a temperature in the range from 0 to 300°C, comprising 2-EHA, at least one high boiler, at least one homogeneous catalyst, and at least one low boiler, wherein the mixture (1) is depressurized by a pressure-maintenance device (3) to an absolute pressure level in the
- 10 range from 0.1 to 10 bar, wherein the resulting two-phase gas/liquid mixture (16) is continuously supplied to a helical-tube evaporator (4) in which, at a temperature in the range from 50 to 300°C, the 2-EHA content of the liquid phase of the two-phase gas/liquid mixture is reduced by partial evaporation, this being accompanied by a parallel increase in the 2-EHA content of the gas phase of the two-phase gas/liquid mixture, and the two phases are discharged in the form
- 15 of a resulting two-phase gas/liquid output stream (17).

Fig. 2