

ABSTRACT OF THE DISCLOSURE

A process for producing perfluorocarbons which comprises a step of contacting a hydrofluorocarbon with fluorine gas in a vapor phase at an elevated reaction temperature in a first reaction zone to obtain a gaseous reaction mixture; and a step of introducing the gaseous reaction mixture as a diluent gas into a second reaction zone and contacting the same therein at an elevated reaction temperature with a hydrofluorocarbon fed to the second reaction zone if necessary together with fluorine gas, the hydrofluorocarbon fed to the second reaction zone being different from the hydrofluorocarbon reacted in the first reaction zone.

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