

Abstract

A manufacturing method for 1,1,1,3,3-pentafluoropropane, wherein 1,1,1,3,3-pentafluoropropane (HFC-245fa) is obtained by reacting halogenated propane, for example, 1,1,1,3,3-pentachloropropane and so on, which is represented by the general formula :



[In the general formula, X is fluorine atom (F) or chlorine atom (Cl), and all of X can not be fluorine atoms at the same time], with anhydrous hydrofluoric acid (HF) under the presence of antimony catalyst. HFC-245fa can be obtained with high yield and economical advantages through simple process.