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(54) **METHOD FOR PRODUCING 1,1,1,5,5,5-HEXAFLUOROACETYLACETONE**

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See application file for complete search history.

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(57) **ABSTRACT**

A production method of a 1,1,1,5,5,5-hexafluoroacetylacetone hydrate according to the present invention includes: step 1: step 1: obtaining a reaction mixture that contains at least 1,1,1,5,5,5-hexafluoro-3-pentyn-2-one or an equivalent thereof by reaction of a 3,3,3-trifluoropropynyl metal with a trifluoroacetate; and step 2: forming the 1,1,1,5,5,5-hexafluoroacetylacetone hydrate by contact of the reaction mixture obtained in the step 1 with water in the presence of an acid. It is possible to produce 1,1,1,5,5,5-hexafluoroacetylacetone by dehydration of the thus-formed hydrate. Thus, the production method according to the present invention is industrially applicable.

14 Claims, No Drawings