

## Preparation of perfluoroalkyl iodide by telomerization process

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Telomerization is the formation of an addition oligomer, having uniform groups, by a chain reaction in which a chain transfer limits the length of the telomer obtained. The telomerization process of the perfluoroalkyl iodide with tetrafluoroethylene is the reaction which the recovery of the used catalyst is possible. The perfluoroalkyl iodide telomers produced by the telomerization reaction is the useful chemical substance which is the intermediate material of the surfactant, or water-repellent, oil-repellent. In this study, it is focused on investigating the most suitable metallic catalyst and catalyst characterization to produce the perfluoroalkyl iodide, containing the carbons less than 12, which is worth manufacturing economically.