

## Title (en)

Titanium trichloride compositions, preparation thereof, catalyst system containing them, and polymerisation of olefins using this system.

## Title (de)

Titantrichloridpräparate und deren Herstellung, Katalysatorsysteme die dieses Präparat enthalten und deren Anwendung zur Polymerisation von Olefinen.

## Title (fr)

Compositions à base de trichlorure de titane, préparation de celles-ci, système catalytique les contenant et polymérisation des oléfines à l'aide de ce système.

## Publication

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## Application

**EP 78300285 A 19780814**

## Priority

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## Abstract (en)

A titanium trichloride composition has the formula:  $\text{TiCl}_3(\text{AlR}_x\text{X}_{3-x})_n\text{EaLb}$  where E is an ether or thioether; L is a defined ester, an amine or a ketone; and a and b are each greater than 0.001 and not more than 0.50. The composition has a low surface area, typically less than  $50 \text{ m}^2/\text{g}$ . The composition can be prepared by reacting titanium tetrachloride with an organo-aluminium compound, optionally heating the reaction product, contacting the reaction product at an elevated temperature with at least one of E and L and washing the product subsequent to the treatment with E. In the composition, E is conveniently di-n-butyl ether or diisoamyl ether and L can be tetramethylethylenediamine; ethyl benzoate; benzophenone; glycerol monostearate; glycerol triacetate; glycerol tripalmitate; glycerol trimethacrylate; pentaerythritol tetra-acrylate or ethyl phenyl acetate. The composition can be used as a component of a catalyst for the polymerisation of olefine monomers such as propylene. Copolymers having a useful combination of properties can be obtained.

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- [A] FR 2320308 A1 19770304 - MONTEDISON SPA [IT]
- [A] FR 2314924 A1 19770114 - ICI LTD [GB]
- [A] FR 2099150 A5 19720310 - MITSUI TOATSU CHEMICALS

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