CLAIMS

1. A process for producing a catalyst composition consisting of:

(a) mixing, in a non-polar solvent including aromatic hydrocarbon, a catalyst compound having a transition metal atom, a support, and optionally an activator, to form a supported catalyst mixture;

(b) drying the supported catalyst mixture at a pressure of 10 kPa or less and a temperature of 60 °C or greater for a period of 6 hours or less, wherein aliphatic hydrocarbon is not introduced to the supported catalyst mixture after drying; and

(c) obtaining the catalyst composition having 1.5 wt% or less aromatic hydrocarbon based on the total weight of the catalyst composition.