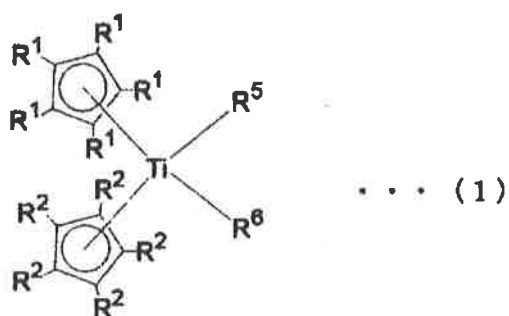


Abstract

CATALYST COMPOSITION FOR HYDROGENATION AND METHOD FOR
HYDROGENATION USING THE SAME

A catalyst composition for hydrogenation including
(A) to (D), in which a mass ratio ((C)/(A)) is 0.1 to 4.0
and a mass ratio ((D)/(A)) is 0.01 to 1.00,
(A): a titanocene compound represented by formula (1),



(wherein R^5 and R^6 are any group selected from hydrogen, a hydrocarbon group having 1 to 12 carbon atoms, an aryloxy group, an alkoxy group, a halogen group, and a carbonyl group. R^1 and R^2 are any group selected from the group consisting of hydrogen and a hydrocarbon group having 1 to 12 carbon atoms, and R^1 and R^2 are not all hydrogen atoms or all a hydrocarbon group having 1 to 12 carbon atoms),

(B): a reductant formed from a compound containing an element selected from the elements Li, Na, K, Mg, Zn, Al, and Ca,

(C): an unsaturated compound having a molecular weight of 400 or less, and

(D): a polar compound.