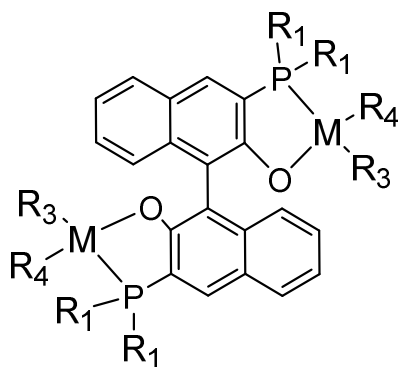


Abstract

The present invention relates to the technical field of olefin polymerization catalysts, and discloses a phosphine-phenol late transition metal complex and preparation method therefor and use thereof. The structural formula of the phosphine-phenol late transition metal complex is shown in formula (I), wherein, R_1 is selected from substituted or unsubstituted C1-C20 hydrocarbyl, R_3 and R_4 are each independently selected from halogen, C1-C10 hydrocarbyl, $-P(R_5)_3$, $-NR_6R_7$ and $-OR_8R_9$, wherein R_5 is substituted or unsubstituted C1-C10 alkyl or aryl, R_6 , R_7 , R_8 and R_9 are each independently selected from C1-C10 hydrocarbyl, and R_6 and R_7 , as well as R_8 and R_9 , are optionally interconnected to form a five- or six-membered ring. Under similar polymerization conditions, by using the metal complex of the present invention as a catalyst for olefin polymerization, a higher homopolymerization/copolymerization activity can be achieved, and the obtained polymer has an obviously higher molecular weight and a narrower molecular weight distribution.



(I)