

ABSTRACT

[Problem] The present invention is to provide a catalyst used for a process for preparing methanol from carbon dioxide and hydrogen and the catalyst has high activity and excellent stability with the passage of time in reactivity.

[Solution] The catalyst comprises copper, zinc, aluminum and silicon, and has a molar ratio of zinc to copper of 0.5 to 0.7, a molar ratio of silicon to copper of 0.015 to 0.05, a maximum intensity ratio of a peak derived from zinc to a peak derived from copper of not more than 0.25 and a half-value width (2 θ) of the peak derived from copper of 0.75 to 2.5. The process for producing methanol comprises using the catalyst.