CLAIMS

1. A catalyst for methanol production using carbon oxides as a raw material, which comprises copper, zinc, aluminum and silicon and has the following properties:

(A) the molar ratio of zinc to copper is 0.5 to 0.7,

(B) the molar ratio of silicon to copper is 0.015 to 0.05,

(C) the maximum intensity ratio of a peak derived from zinc to a peak derived from copper, as measured by XRD, is not more than 0.25 and

(D) the half-value width (2θ) of a peak derived from copper, as measured by XRD, is 0.75 to 2.5.

2. The catalyst for methanol production according to claim 1 wherein the catalyst has a property that (E) the content of zirconium is 0 to 0.1 mol%.

3. The catalyst for methanol production according to claim 1 wherein the content of copper is 45 to 65 mol% provided that the total amount of copper, zinc, aluminum and silicon is 100 mol%.

4. The catalyst for methanol production according to claim 1 wherein the content of an alkali metal is 0 to 0.2 mol%.

5. The catalyst for methanol production according to claim 1 which is obtainable through a step of calcination at a temperature of 300°C to 450°C.

~~6. A method for producing a catalyst for methanol production which comprises a step of calcination of a catalyst~~

~~comprising copper, zinc, aluminum and silicon, and having (A) a molar ratio of zinc to copper being 0.5 to 0.7, and (B) a molar ratio of silicon to copper being 0.015 to 0.05, at a temperature of 300°C to 450°C.~~

67. A process for producing methanol in the presence of the catalyst for methanol production as claimed in claim 1, carbon oxides and hydrogen.