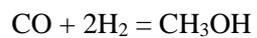


**Answer on Question#37270 - Chemistry - Other**



The equilibrium constant:

$$K_{\text{eq}} = \frac{[\text{CH}_3\text{OH}]}{[\text{CO}] \cdot [\text{H}_2]^2} = 14.5 \text{ at } 483 \text{ K.}$$

$$[\text{CH}_3\text{OH}] = 14.5 \cdot 0.04 \cdot (0.08)^2 = 3.7 \cdot 10^{-3} \text{ M}$$

Answer:  $3.7 \cdot 10^{-3} \text{ M}$