Question #82495, Chemistry / General Chemistry | for completion

Suppose that the molar concentrations for CO and H2 at equilibrium are [CO] = 0.03 M and [H2] = 0.04 M.

 $[CH3OH]=(2.3\times104)(0.03)(0.04)2$

Answer:

K=2.3×104 is not correct, maybe 2.3×10⁻⁴

[CO] = 0.03 M

[H2] = 0.04 M[CH3OH]=?

 $CO + 2H_2 = CH_3OH$ [CH3OH]=K x [CO] x [H2]²

 $[CH3OH]=(2.3\times10^{-4})x(0.03)x(0.04)^{2}$

[CH3OH]= 0,00000001104 or 1.104×10^{-8} M

Answer provided by www.AssignmentExpert.com