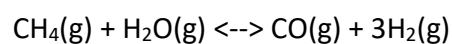


## Answer on Question #71681, Chemistry / General Chemistry

### Question:

What is the value of  $K_c$  for the reaction below if at equilibrium  $[CH_4] = 0.20$  M,  $[H_2O] = 0.20$  M,  $[CO] = 0.50$  M and  $[H_2] = 1.50$  M?



### Solution:

For this reaction:

$$K_c = \frac{[H_2]^3 [CO]}{[CH_4][H_2O]} = \frac{1.50^3 \times 0.50}{0.20 \times 0.20} = 42.1875$$

### Answer:

$$K_c = 42.1875$$

Answer provided by AssignmentExpert.com