

NCERT/CBSE CHEMISTRY CLASS 11 textbook

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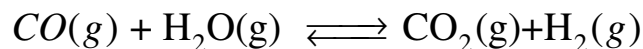
Solutions/Answers to NCERT/CBSE CHEMISTRY Class 11(Class XI)textbook

CHAPTER SEVEN

EQUILIBRIUM

31. Solution:

Given reaction is:



Initial conc.: 4 4

At Eqbm.: 4-p 4-p p p

$$\text{Equilibrium constant for reaction, } K_p = \frac{P_{CO_2} \times P_{H_2}}{P_{CO(g)} P_{H_2O(g)}} = \frac{p \times p}{(4-p)^2} = 10.1$$

Solving for p, we get p=3.04 bar