Answer on Question#48968 – Chemistry – Inorganic Chemistry

in the Reversible reaction A+B⇌C+D The concentration of each C and D at equilibrium was 0.8 mole/litre then the equilibrium constant Kc will be.

Solution:

A+B⇌C+D

$$K_{C} = \frac{[C]^{c}[D]^{d}}{[A]^{a}[B]^{b}} = const$$

a = v A; b = v B; c = v C; d = v D;

 $aA+bB \rightleftharpoons cC+dD$; a=b=c=d=1;

[C]=[D]=0.8 mol/L;

$$A + B \rightleftharpoons C + D$$

[], mol/L ? ? 0.8 0.8

 $\nu \qquad \quad 1 \quad \ 1 \quad \ 1 \quad \ 1$

[A]=[B]=[C]=[D]=0.8 mol/L;

$$K_{c} = \frac{[C]^{c}[D]^{d}}{[A]^{a}[B]^{b}} = 1$$

Answer: 1

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