## Answer on Question\#48968 - Chemistry - Inorganic Chemistry

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

## Solution:

$A+B \rightleftharpoons C+D$
$K_{C}=\frac{[C]^{\mathrm{C}}[\mathrm{D}]^{\mathrm{d}}}{[\mathrm{A}]^{\mathrm{a}}[\mathrm{B}]^{\mathrm{b}}}=$ const
$a=v A ; b=v B ; c=v C ; d=v D ;$
$a A+b B \rightleftharpoons c C+d D ; a=b=c=d=1 ;$
$[\mathrm{C}]=[\mathrm{D}]=0.8 \mathrm{~mol} / \mathrm{L} ;$


## Answer: 1

