In Carius method of estimation of halogen, 0.15 g of an organic compound gave 0.12 g of AgBr. Find out the percentage of bromine in the compound. Solution

Molar mass of AgBr = 108 + 80 $= 188 \text{ g mol}^{-1}$ 

188 g AgBr contains 80 g bromine

0.12 g AgBr contains  $\frac{80 \times 0.12}{}$  g bromine

Percentage of bromine=  $\frac{80 \times 0.12 \times 100}{100}$  $188 \times 0.15$ = 34.04%