organic compound gave 0.4813 g of barium sulphate. What is the percentage of sulphur in the compound?

In sulphur estimation, 0.157 g of an

## Solution

Molecular mass of  $BaSO_4 = 137+32+64$ = 233 g

 $0.4813 \text{ g BaSO}_4 \text{ contains } \frac{32 \times 0.4813}{233} \text{ g}$ 

$$0.4813 \text{ g BaSO}_4 \text{ contains } \frac{62\times6.1616}{233} \text{ g}$$
 sulphur

Percentage of sulphur= $\frac{32\times0.4813\times100}{233\times0.157}$ = 42.10%