Question#18504

An alloy containing 80 parts of tin and 15 parts of antimonyby weight weighs 190 gm. Find the volume of thr alloy given specific gravity of tin and antimony are 7.3 and 6.6 respectively.

Solution:

The gravity of alloy is:

$$\rho = \frac{80*7.3+15*6.6}{80+15} = 7.19 \ g/cm^3$$

Such as: $m = \rho V$,

$$V = \frac{m}{\rho} = \frac{190}{7.19} = 24.43 \ cm^3$$

Answer: 24.43 *cm*³