Galaxy

LABORATORY & INDUSTRIAL SOLUTIONS

Density Determination Kit

MODEL: DK-300

DK-300 is suitable for measuring density of solids as well as liquid samples.

DK-300 is suitable for all weighing balance if pan size is less than Ø 125 mm. If your weighing balance does not have a density function, user can calculate the density using the below formula.

$$\text{Solid Density } (gm/cm^3) = \frac{(\text{Weight in Air}) \times (\text{SG of fluid})}{\text{Weight in Air - Weight in fluid}}$$

For liquid density measrement, first measure volume of crystal ball in distilled water. Then use the volume obtained here when measuring density of test liquid.

$$\text{Volume of Crystal } (cm^3) = \frac{\text{Weight in Air - Weight in Liquid}}{0.997 g/cm^3 (\text{Density of water}) - 0.001185\ g/cm^3 (\text{Buyaoncy of Air})}.$$

$$\text{Liquid Density } (gm/cm^3) = \frac{\text{Weight in Air - Weight in Liquid}}{\text{Volume of Crystal Ball}}$$

STANDARD ACCESSORIES:

- Beaker
- Stand for beaker
- Hanging Holder
- Object Holder
- Crystal Ball