

PERCENTAGE ERROR

Standard value of coefficient of viscosity of the given liquid = Nsm^{-2}

Observed value of coefficient of viscosity of the given liquid = Nsm^{-2} .

$$Percentage\ Error = \left| \frac{Standard\ Value - Observed\ value}{Standard\ value} \times 100\% \right|$$

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= %

RESULT:

The coefficient of viscosity of the given liquid (.....) has been found to be with % error.

CONCLUSIONS:

Thus, the coefficient of viscosity of given liquid has been found experimentally in laboratory using stokes' method.

SOURCES OF ERROR

1. The ball used may not be perfectly spherical.
2. The time may not be measured correctly.
3. Temperature may vary.
4. The point from where taking the terminal velocity may not be found out.

PRECAUTIONS

1. The steel balls should be perfectly spherical and small.
2. The jar should be perfectly vertical.
3. The liquid should be highly viscous.
4. The balls should be dropped gently and carefully.
5. The ball should not touch the wall of the jar during its motion.
6. The liquid should be of uniform density.