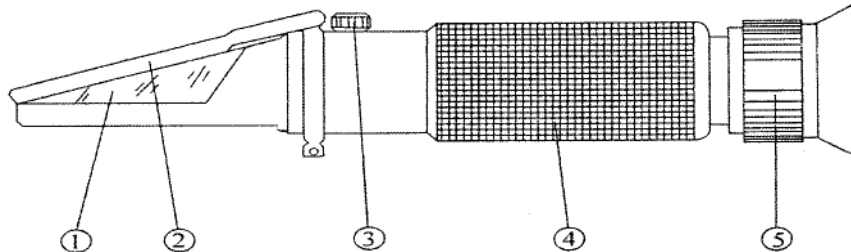


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OPERATING INSTRUCTIONS FOR THE REFRACT 104, PORTABLE REFRACTOMETER

NAME OF COMPONENTS:



1. Prism
2. Cover Plate
3. Calibration
4. Mirror Tube
5. Eyepiece (Adjusting ring of diopter)

METHOD OF OPERATION:

1. **Prepare:** Aim the front end of the refractometer in the direction of a bright light, and adjust the adjusting ring of the diopter (5) until the recticle can be seen clearly.
2. **Calibration:** Open the cover plate(2), clean the surface of the prism and cover plate with a piece of soft cotton flannel. Drop 1-2 drops of the standard solution on the surface of the prism. Close the cover plate, and press lightly with your hand, so that it cannot slide down. Rotate and adjust the calibration screw (3) to make the light/blue boundary coincide with the reference line.
3. **Measurement:** Open the cover plate(2), clean the surface with a piece of soft cotton flannel. Drop 1-2 drops of the solution to be measured on the surface of the prism. Close the cover plate, and press lightly, then read the corresponding scale of the light and dark boundary.
4. **Storage:** Clean the surface of the prism and cover plate with moist gauze, and store carefully.

CARE AND MAINTENANCE:

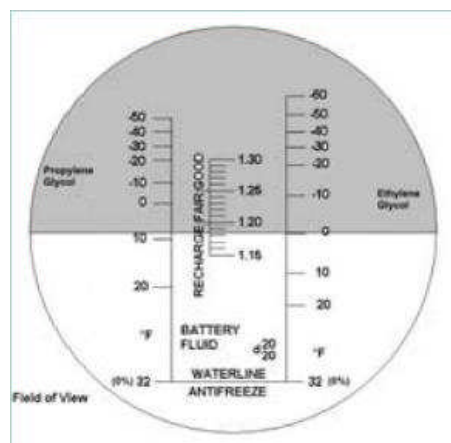
1. Adjustment for the standard solution and the specimen should be at the same temperature. If the temperature moves greatly, a new calibration should be performed at the new temperature.
2. Avoid using water to wash the instrument to avoid the possibility of water entering the instrument.
3. As with any precision instrument, handle gently and take good care of it. Do not scratch the optical surface. Store in a dry, clean, non-corrosive environment to prevent the optical surfaces from turning cloudy. Avoid strong shock during transport.

TEMPERATURE COMPENSATION:

Instruments labeled ATC have Automatic Temperature Compensation. This enables the user to concentrate on measurements without being overly concerned about the temperature. Compensation range is 10-30⁰C (18-54⁰F)

ACCESSORIES:

1. Suction Tube
2. Screw Driver
3. Cotton Flannel Cloth
4. Standard Solution



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