



climalife®

Ref. : MO.45 /11.14/V4/ EN

REFRACTOMETER

DESCRIPTION



Non-contractual photo.

The portable **REFRACTOMETER** is a precision optical instrument intended for checking the freezing point of propylene-glycol and ethylene glycol solutions. It is supplied in a protective case with a screwdriver, pipette and soft cloth.

Reading scale : - 50 to 0 °C
Graduation : 1 °C,

Length : 160mm
Weight: 300g

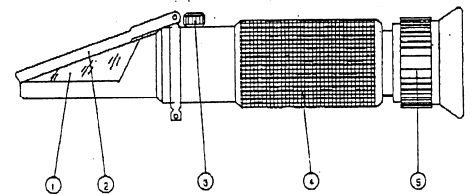
USE

Point the front end of the refractometer towards a light source and adjust the focus ring (5) until graduation appears clearly.

Adjust to zero: open the covering slide (2) and place one or two drops of distilled water on the surface of the prism, then close the slide and press it slightly. Adjust using the correction screw (3) to join the demarcation line clear/obscure with the level line at the bottom.

Measure: open the covering slide (2) and remove the surface water from the prism and the slide with a soft cloth then place one or two drops of liquid to be tested with the pipette on the surface of the prism. Close the covering slide and press it slightly.

The reading of the freezing point of the liquid can be seen on the boundary line clear/obscure of the dial.



1. Prism
2. Covering Slide
3. Correction Screw
4. Mirror Tube
5. Eyepiece with focussing ring

PRECAUTIONS AND MAINTENANCE

Calibration of the apparatus must be precise: the adjustment to zero with distilled water and measuring of the sample must be made at the same temperature so that the measurement is accurate.

After each measurement, clean the prism and the plastic lid with a soft rag. The refractometer must be perfectly clean and dry before being put away as any residual impurity could cause measurement errors.

Do not touch or mark the optical surfaces, keep the instrument in its protective case, in a clean, dry and non-corrosive environment.

The information contained in this product sheet is the result of our studies and experience. It is provided in good faith, but should not, under any circumstance, be taken to constitute a guarantee on our part or an assumption of our responsibility. This is particularly the case when third party rights are at stake or in situations where a user of one of our products fails to observe applicable regulations.

For more information, visit our website :
http://www.climalife.dehon.com/contact_us

