

VAPOUR PRESSURE OSMOMETER

The KNAUER Semi-Micro Osmometer is suitable for determining molecular weights in aqueous or organic solvents as well as for determining total osmolality of biological solutions. It also has the advantage of allowing measurements with solutions of high viscosity and high osmolal concentration. Molecular weights in organic solutions in a range of 40 to 35,000 g/mol can be determined. In addition, dissociation constants or activity coefficient can also be measured.

The KNAUER vapor pressure osmometer measures the number of osmotically active particles. The average molecular weight of the substance being measured can be determined with known sample portions. In dissociation substances, however, only the osmolal concentration can be determined.

The instrument is equipped with automatic measurement value storage. Its use enables a high reproducibility of measurement values, since the current value is always detected and stored at the same time.



OSMOMETER

Specifications

Sample volume:	0.5 ml
Calibration:	2 – point: 0 mOsmol / kg and 400 mOsmol / kg.
Measuring ranges:	400, 800, 1600 mOsmol / kg
Temperature reduction in cooling cavity:	0°C to – 18°C up to a max. Room temperature of 40°C
Measuring time:	approx. 2 minutes per sample
Reproducibility:	± 1% of measurement value
Line voltage:	110/220 V, 50/60 Hz, 80 VA
Dimensions and weight:	24 x 27 x 13 cm Net weight approx.: 6kg
Fuses:	2 x 1A slow. DIN 41571