The Michelson Laboratory at Inyokern

(See page 700)
Mueller Bridge for Measuring Temperature During Precise Vapor Pressure Studies

Apparatus for precise measurement of vapor pressures, photographed above and diagrammed at right, shows use of manometer, cathetometer, and G-2 Mueller Bridge at Bureau of Mines, Bartlesville, Okla. Manometer and sample container are immersed in the constant temperature bath. Before the compound to be studied is introduced into the container, the system is evacuated, using the Pirani gage to indicate pressure down to one micron and the ionization gage for lower pressures.

During measurements, the cathetometer is used to read the vapor pressure as indicated by the mercury manometer. The thermostat automatically regulates the bath temperature, and the Mueller Bridge precisely indicates temperature of the sample.

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