

PERKIN ELMER TGA4000



Overview

The TGA4000 is referred to as a thermogravimetric analyser and can be used to carry out Thermogravimetric Analysis (TGA) measurements on both liquid and solid samples.

A thermogravimetric analyser continuously measures mass as a function of temperature or time.

These measurements provide information about physical phenomena, such as phase transitions, absorption, adsorption and desorption, as well as chemical phenomena including chemisorptions, thermal decomposition, and solid-gas reactions (eg. oxidation or reduction).

Capability profile

Specifications

Balance: Top loading with a capacity of 1500mg using 180uL sample pans, accuracy of $\pm 0.02\%$, precision $\pm 0.01\%$.

Temperature range: Ambient to 1000°C . Scanning rates 0.1 to $200^{\circ}\text{C}/\text{min}$, temp accuracy $\pm 1^{\circ}\text{C}$ precision $\pm 0.8^{\circ}\text{C}$.

Temperature calibration: Curie point.

Atmosphere: Nitrogen, (others available on request) controlled by integrated mass flow controller.