

FT infrared spectrometer

Description/Parameters

Infrared spectrometer with Fourier transformation (Thermo Scientific™ Antaris™ IGS Gas Analyzer) simultaneously analyses more gases (more than 100). It is equipped with heated gas cell with 10 m optical length, measuring and controlling gas pressure and temperature, containing gold mirrors and ZnSe cuvette window. It allows measurement in wavelength region $4000 - 660 \text{ cm}^{-1}$ and gives real-time component quantitative results.

Utilization/Services

On-line analysis of gases during tests of catalysts and adsorbents. Study of the mechanisms of catalytic reactions and solid materials.

- N_2O , NO decomposition
- VOC catalytic oxidation
- selective catalytic oxidation of NH_3 , selective catalytic reduction of NH_3
- combustion processes

