



#3304

Infrared Spectroscopy

QUANTITATIVE AND QUALITATIVE ANALYSIS FOR ORGANIC AND INORGANIC SAMPLES

DESCRIPTION

Fourier Transform Infrared Spectroscopy (FT-IR) is an effective analytical technique for quickly identifying the "chemical family" of a substance.

AVAILABLE EQUIPMENT

- Thermo Nicolet Nexus Spectrometer with Attenuated Total Reflectance Infra-Red accessory (ATR-FTIR)
- Thermo Nicolet Nexus Spectrometer, coupled to Continuum Optical Microscopy with Attenuated Total Reflection Infra-Red accessory (μ -ATR)

ADVANTAGES

- Variable analysis area ($100 \times 100 \mu\text{m}$ - $10 \times 10 \mu\text{m}$)
- Capable of identifying organic functional groups
- Extensive spectral libraries for compound and mixture identifications
- Attenuated Total Reflectance (ATR) allows insoluble or multi-layer samples to be examined directly

APPLICATIONS

Solids | Liquids | Gases | Organic Samples | Inorganic Samples | Identification of unknown compounds | Impurities Screening | Formulation | Deformulation |

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