Methods, Equipment and Responsibilities

<table>
<tr><td rowspan="2">IR Spectroscopy
- electronic spectroscopy -</td><td>Model:
Unit and Room:
Responsible:

Further information:</td><td>Nicolet iS 10 MIR FTIR Spectrometer
Inorganic Chemistry, 1st floor, R.133
Dr. W. Deck

in operation since 2012</td></tr>
<tr><td colspan="2">Short Description:

The Nicolet iS10 FT-IR spectrometer has been designed for the ease of use and reliability required by laboratories with heavy workloads (MIR = medium IR range).</td><td rowspan="2">Picture of the Equipment
  </td></tr>
<tr><td colspan="2">Available Experiments/Techniques:

Measure samples directly through vials, with the integrating sphere conveniently mounted in the Nicolet iS10 FT-IR module.

Achieve high throughput screening by powder and liquid auto samplers.</td></tr>
<tr><td colspan="3">Special Equipment:

Characterize materials quickly and easily by switching to TGA/IR interface installed in the Nicolet iS10 FT-IR module.

Diamond IR ATR (Attenuated Total Reflection) device</td></tr>
<tr><td colspan="2">Measurements on the equipment are currently done by:</td><td>☐ Students
☒ Students after Introduction
☒ Students after extensive training
☒ Trained scientific service personal</td></tr>
<tr><td colspan="2">Recent Publications, where this instrument was important (citation):</td><td></td></tr>
<tr><td colspan="2">Typical problems that may be solved with this instrument:</td><td>Recording of IR spectra withou extensive sample preparation.
Sectrometer allows many tasks to be completed with only one click.</td></tr>
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