

Gas Chromatograph Shimadzu GC - 2010

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Principle of Measuring

- separating mixtures based on their properties

Possibilities

- concentration analysis of liquid samples

Equipment

- Macherey-Nagel Optima-delta 3 – 0.25 μm
length x inner diameter: 30 m x 0.25 mm
filmthickness: 0.25 μm
outer diameter: 0.40 mm
max. temperature: 320°C/340°C-program
- Macherey-Nagel Optima-delta 3 – 1.00 μm
length x inner diameter: 30 m x 0.32 mm
filmthickness: 1.00 μm
outer diameter: 0,50 mm
max. temperature: 320°C/340°C-program
- Autosampler AOC-20i
sample injection volume 1 μl

Measuring Range

- Column oven:
Temperature range: RT +4°C - 450°C
Temperature accuracy: +/-1% (K) (calibration at 0.01°C)
- Temperature program:
Temperature steps: 20 steps, heating an cooling
Program-Rate: -250°C - 250°C/min, Step size 0.01°C/min
Over all step time: up to 9999.99 minutes
- Injection Unit:
Temperature range: up to 450°C
Operation modes: Split/Splitless injection, direct injection
Autosampler AOC-20i
- Detector:
Hydrogen flame-ionization detector (FID)
Teperature range: up to 450°C, step size 0.1°C

Experiences

- Concentration analysis for rectification
- Reactive distillation

