EQUIPMENT CARD

PLAPIQUI



5603

Gas chromatograph/Flame Ionization Detector (FID) (Hewlett Packard, HP 4890D)

DESCRIPTION

Gas chromatograph with flame ionization detector, configured for one- or two-channel operation. It is a version of the HP 5890 Series II intended for routine analysis of volatile and semivolatile organic compounds.

MAIN FEATURES

- Column oven: usable volume 279 × 305 × 165 mm; range from 4 °C above ambient to 450 °C (−80 °C with cryogenic cooling)
- Temperature programming: rates from 0.1 to 70 °C/min, three ramps with initial and final holds; maximum run time 650 min
- Thermal stability: accuracy ±1 % (K); gradient below 2 °C within a 9-inch coil
- Heated zones: five (two detectors, two inlets and one auxiliary)
- Inlets: capillary split/splitless up to 400 °C with back-pressure control, and packed column inlet with septum purge
- FID detector: up to 450 °C; sensitivity above 18 mCoul/g of carbon; minimum detectable below 5 pg C/s; linear dynamic range of 10^7
- Stored methods: 2
- Dimensions and weight: 465 × 655 × 511 mm; 41 kg

MAIN APPLICATIONS

- Quantification of reactants and products in organic synthesis reactions
- Monitoring of conversion, selectivity and yield in catalytic tests
- Analysis of furfural and derivatives obtained from biomass
- Determination of hydrocarbons, alcohols, aldehydes and esters
- Composition control of process streams and distillates

ASSOCIATED TECHNOLOGIES AND CAPABILITY

1601 - 1602 - 2603

CONTACT US

Office of Technology Transfer

ott@plapiqui.edu.ar
plapiqui.edu.ar/ott
+54 291 4037200 - Int 217/214
+54 9 291 4261644