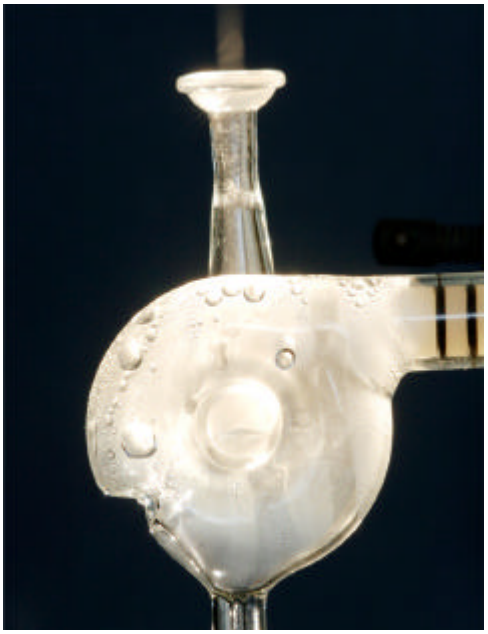
Advanced Chromatography Systems

DTEKT LTD

CSi

Liquid Chromatography - Flame Ionisation Detector

The LC-FID is an innovative instrument featuring a novel interface from DTEKT Ltd, which enables the advantages of flame ionisation detection to be successfully used with liquid chromatography.



The LC-FID features:-

- A novel interface from DTEKT Ltd (patent pending) to provide universal detection at eluent flow rates of up to 2 ml min^{-1}
- A temperature programmable column oven developed by Cambridge Scientific Instruments to give increased versatility in separations, as well as separately controlled temperature zones for the detector, interface chamber and eluent

VERSATILITY

- Ability to use conventional columns (up to 4.6mm I.D.)
- Can be used with eluent flow rates up to 2 ml min^{-1}
- Compatible with high temperature LC columns
- Selectivity controllable by temperature between 30 and 250 °C
- Good reproducibility

ENVIRONMENTALLY FRIENDLY

Uses water as the mobile phase
Savings in solvent costs and solvent disposal costs

UNIVERSAL RESPONSE

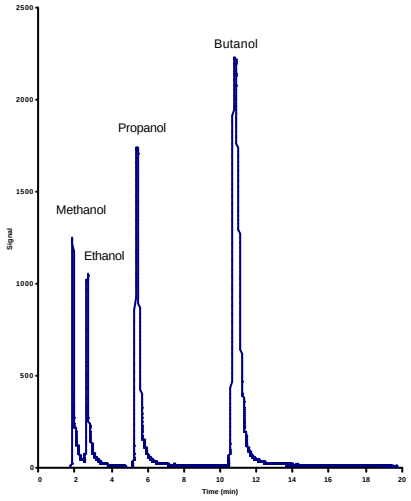
- No chromophore required
- No sample losses because of volatility
- Can analyse high and low molecular mass analytes
- Sample does not need to be volatile, allowing a broader usage than GC

Typical applications include :-

- amino acids
- aliphatic compounds, such as aliphatic acids, esters, amides and alkanols
- aromatic compounds
- oligosaccharides and carbohydrates

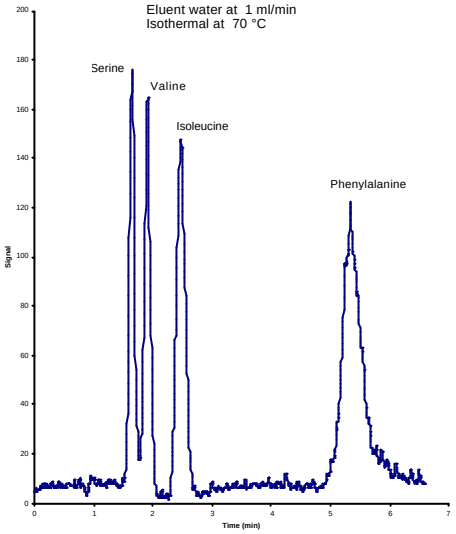
Flame ionisation detection of n-Alkanols separated on PS-DVB (150 x 4.6 mm) column

Eluent: water at 1 ml.min
Temperature programme: 120 for 1 min then 7 °C / min to 180 C



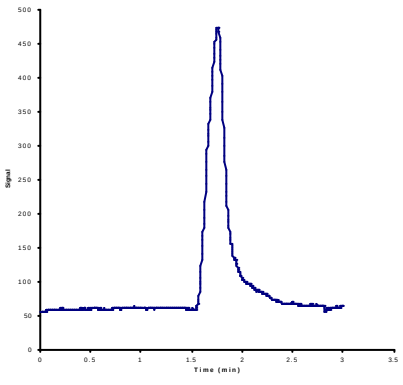
Flame ionisation detection of amino acids separated on PS-DVB (150 x 4.6 mm) column

Eluent water at 1 ml/min
Isothermal at 70 °C



Maltose

Approximately 2.5 µg injected on column



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