

```

graph TD
    A["Feed  
Organic and  
inorganic solids,  
liquids etc"] --> B["Consideration of properties of  
analyte in the feed  
• Vapour pressure  
• Boiling point (bp)  
• Solvent (H2O, ethanol or  
acetone)  
• Temperature (100-110 °C)  
• Pressure (500-1013 kPa)"]
    A --> C["Consider pressure  
• Inorganic/organic solid powder  
• Inorganic/elemental  
solid (metallic solids and  
non-metallic)"]
    B --> D["Evaporation of solvent or  
distillation of water"]
    D --> E["Hydrogen"]
    D --> F["REACTION"]
    E --> F
    F --> G["Products  
• Hydrocarbons and products  
• Solid fraction"]
    G --> H["Separation"]
    I["1. Oxide GC  
2. Gas sampling bag  
3. Nalund"] --> H
    J["3. Washing with organic solvent  
4. Combustion  
5. Detection"] --> H
    H --> K["Gases"]
    H --> L["Liquids"]
    H --> M["Solids"]
    K --> N["• GC  
• GC-MS"]
    L --> N
    M --> O["• GC/MS  
• IR  
• MS"]
    N --> P["Analysis"]
    O --> P
  
```

The flowchart illustrates the analytical procedure for identifying unknown solid and liquid samples. It begins with a 'Feed' of organic and inorganic solids and liquids. This leads to two parallel considerations: the properties of the analyte (vapor pressure, boiling point, solvent, temperature, pressure) and the sample's pressure characteristics (inorganic/organic solid powder, inorganic/elemental solid). The process then involves evaporation of solvent or distillation of water, which can be coupled with hydrogen. This is followed by a 'REACTION' step, which produces hydrocarbons and products, along with a solid fraction. The next step is 'Separation', which is influenced by three inputs: Oxide GC, Gas sampling bag, Nalund; Washing with organic solvent; and Combustion and Detection. The separation process yields Gases, Liquids, and Solids. These fractions are then analyzed using specific techniques: Gases and Liquids are analyzed by GC and GC-MS, while Solids are analyzed by GC/MS, IR, and MS. The final step is 'Analysis'.

This edition was published in 1980



The final weight of residue was also determined.

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