

Gas Chromatographic Analysis

1

Gas Chromatographic Analysis of Oil-Contaminated Samples

1. Includes liquid sample pretreatment – liquid extraction for the determination of n-alkanes nC10–nC40 and EPA priority PAHs
2. Includes soil sample pretreatment – solid/liquid extraction using shaking or ultrasonication for the determination of n-alkanes nC10–nC40 and EPA priority PAHs)
3. Includes soil sample pretreatment – solid/liquid extraction using Soxhlet for the determination of n-alkanes nC10–nC40 and EPA priority PAHs

Sample Type: Liquid and Solid samples

2

Determination of TPH

Analysis of Total Petroleum Hydrocarbons (TPH) in Oil-Contaminated Samples, (the sample pretreatment procedure including)

Sample Type: Liquid and Solid samples

3

Gas Chromatographic Analysis of Gaseous Samples

1. Analysis using GC
2. Analysis using GC-MS – High-Accuracy Compositional Analysis

Sample Type: Gas mixtures, H₂, CO₂, CH₄, CO, C₂–C₄



**** For further information and a detailed price list, please contact us.**

Isotopic Analysis (of Stable Isotopes)

1

¹³C & ¹⁵N

Dual measurement of ¹³C (organic ¹³C) and ¹⁵N
(Includes the complete sample pretreatment procedure)

Sample Type: Solid sample

2

Isotopic Analysis of Gaseous Samples GC-Isolink-IRMS

1. ¹³C measurement in CO₂/CH₄/DIC samples
2. ¹³C analysis of Natural Gas samples (C₁–C₅ & CO₂), including determination of the concentration of the components in the sample

Sample Type: Gas mixtures

3

Compound-Specific Isotopic Analysis (CSIA GC-Isolink-IRMS)

1. ¹³C measurement of n-alkanes (nC₁₀–nC₄₀, without sample pretreatment)
2. ¹³C measurement of EPA 16 priority PAHs (without sample pretreatment)

Sample Type: Liquid sample



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Physicochemical Characterization

1

FTIR (ATR)

Qualitative surface chemistry analysis (functional groups)

Sample Type: Solids, Powders, Films

2

XRD

Phase identification & crystalline structure analysis

Sample Type: Solids, Powders, Films

3

N₂ adsorption/desorption @77K – BET surface area

Sample Type: Solids, Powders

4

Advanced gas sorption data analysis

DFT pore volume & size distribution

Sample Type: Gas sorption data

5

H₂ chemisorption

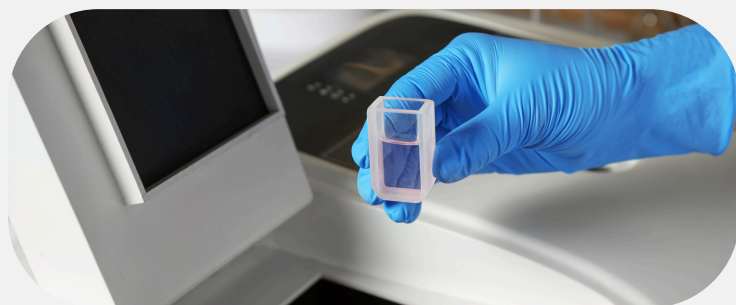
Metal dispersion & active sites

Sample Type: Catalysts, Oxides

6

H₂-TPR – Temperature Programmed Reduction

Sample Type: Catalysts, Oxides



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Lithological Description (Microscopy Analysis)

1

Lithological description

Main minerals identification, general characterisation (rock type, varieties)

Sample Type: *Free rock sample, Plug*

2

Biostratigraphy

Micro- & macrofossils, mostly Foraminifera identification
Calcareous nanofossils, Diatoms, Silicoflagellates (identification)

Sample Type: *Thin section, Smear slide*

3

Sedimentary Facies

Applying various international classification schemes (covers both petro- and bio- characteristics)

Sample Type: *Thin section*

4

Microphotographs

Depends on the quantity and magnification required.

Sample Type: *Thin section, Smear slide*



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