DINSTECH

Natural gas analyzers

Sample:

Natural gas, associated petroleum gas and similar gaseous mixtures

Analytes:

C1 – C6 and heavier hydrocarbons, C6+ as backflush peak, O2, N2, CO, CO2, H2, He, H2S (depending on Instrument configuration)

Test methods:

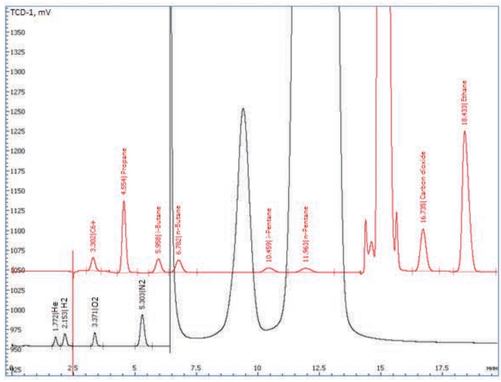
ISO 6974, ISO 6976 (calculation), ASTM D1945, GPA2261

Instrument configuration:

Typically 2 or 3 TCDs, Valves, optional FID or/and FPD(S).

Instrument:
GC C9000, 2xTCD, 3xValves, packed columns
Sample:
Natural gas test mix
Analytes:
C1 – C6+ O2, N2, CO, CO2, H2, He (depending on Instrument configuration)
Test methods:
ISO 6974-5, ISO 6976 (calculation)

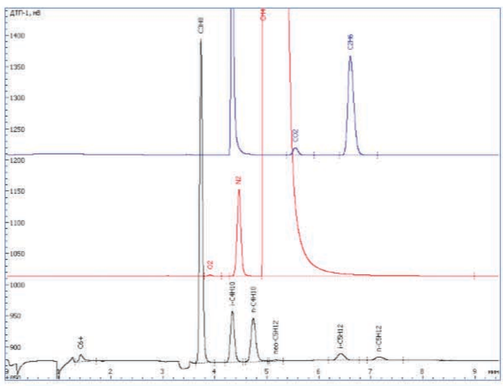
Features:
Analysis time within 20 min
Configuration with 3rd TCD is available to determine all permanent gases in maximum sensitivity
"Chromatec Gas" SW provides calculation of heating value, relative density and other properties of natural gas based on its composition



Instrument:
Process GC C7000, 3xTCD, 3xValves, micro-packed columns
Sample:
Natural gas test mix
Analytes:
C1 – C6+ O2, N2, CO, CO2, H2, He

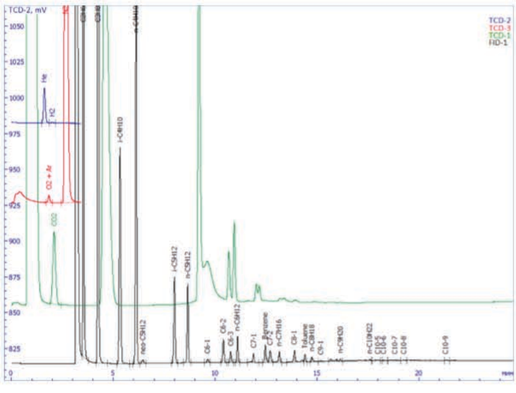
Test methods:
ISO 6974-5, ISO 6976 (calculation), GPA 2261

Features:
Analysis time within 10 min
Thanks to 3 TCDs in single instrument, permanent gases (O2, N2, H2, He) are determine at maximum sensitivity
"Chromatec Gas" SW provides calculation of heating value, relative density and other properties of natural gas based on its composition



Instrument:
GC C9000, 3xTCD/FID, 3xValves, packed and capillary columns
Sample:
Natural gas test mix
Analytes:
C1 – C10, O2, N2, CO, CO2, H2, He
Test methods:
ISO 6974, ISO 6976 (calculation)

Features:
Thanks to 3 TCDs in single instrument, permanent gases (O2, N2, H2, He) are determine at maximum sensitivity
Traces of hydrocarbons are determined using FID



Instrument:
GC C9000, FPD, Valve, capillary column. 2-channel (2xFPD) GC system for COS determination is recommended
Sample:
Natural gas test mix
Analytes:
H2S, COS*, C1-C4 mercaptans,
Test methods:
ASTM D6228, ISO 19739

Features:
Thanks to 3 TCDs in single instrument, permanent gases (O2, N2, H2, He) are determine at maximum sensitivity
Traces of hydrocarbons are determined using FID