



GC FOR ANALYSIS OF NATURAL GAS

GC for Analysis of Natural Gas TT-1945

GC for Analysis of Natural Gas TT-1945 conforms to ASTM D1945, the Standard Test Method for Analysis of Natural Gas by Gas Chromatography. It is capable of analyzing the chemical composition of natural gases and similar gaseous mixtures.

In this method, components in a representative sample are physically separated by gas chromatography (GC) and compared to calibration data obtained under identical operating conditions from a reference standard mixture of known composition. Numerous heavy-end components of a sample can be grouped into irregular peaks by reversing the direction of the carrier gas through the column at specific times, grouping the heavy ends as C5 and heavier, C6 and heavier, or C7 and heavier. The composition of the sample is calculated by comparing the peak heights, peak areas, or both with the corresponding values obtained from the reference standard.

APPLICATIONS

The primary application of this Gas Chromatograph (GC) is to analyze the chemical composition of natural gases and similar gaseous mixtures, in compliance with the ASTM D1945 standard.

It is used to separate and measure the following components:

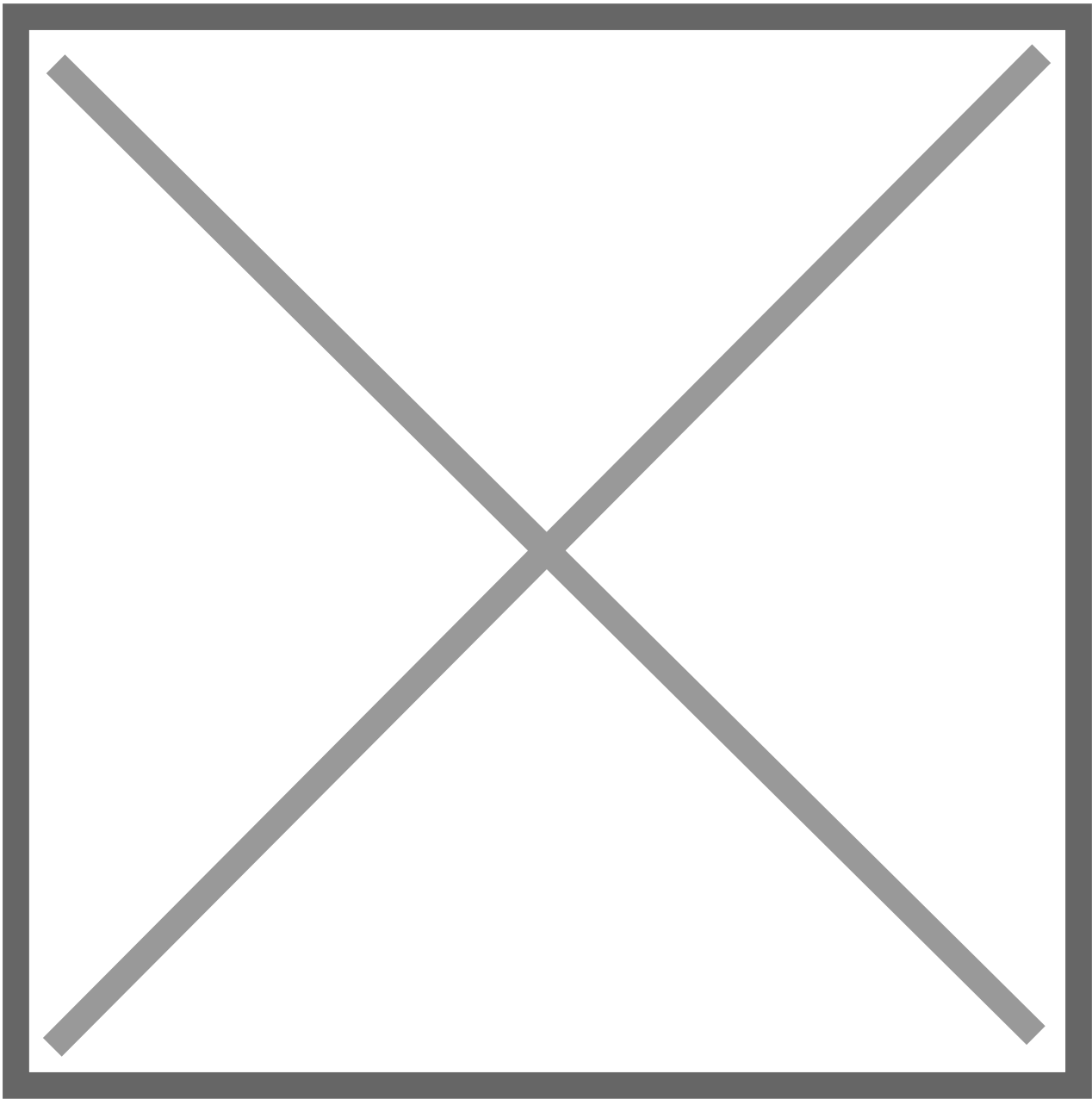
- Isobutane
- n-Butane
- Isopentane
- n-Pentane
- Carbon dioxide
- Ethane
- Hydrogen sulfide
- n-Propane

- Argon/oxygen composite
- Nitrogen
- Methane

Additionally, the apparatus can group heavier components into categories such as C5 and heavier, C6 and heavier, or C7 and heavier.

THEORY & METHOD

Chromatogram



TECHNICAL SPECIFICATIONS

Configuration:

- 6-valve, 2-column (packed), TCD

Sample Type:

- Natural gas

Components Separated:

- Isobutane
- n-Butane
- Isopentane
- n-Pentane
- Carbon dioxide
- Ethane
- Hydrogen sulfide
- n-Propane
- Argon/oxygen composite
- Nitrogen
- Methane

Lower Detection Limits:

- 100 ppm for most components
- 400 ppm for propane
- 500 ppm for hydrogen sulfide



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