

Analysis of Natural Gas Products by GC / TCD / FID

The complex mixture of condensable hydrocarbons and permanent gases in a natural gas product has historically been separated on gas chromatographs equipped with dual columns and a switching valve. The light gases are separated from heavier compounds on a molecular sieve column, which is then backflushed onto a suitable column to separating the rest of the mixture.

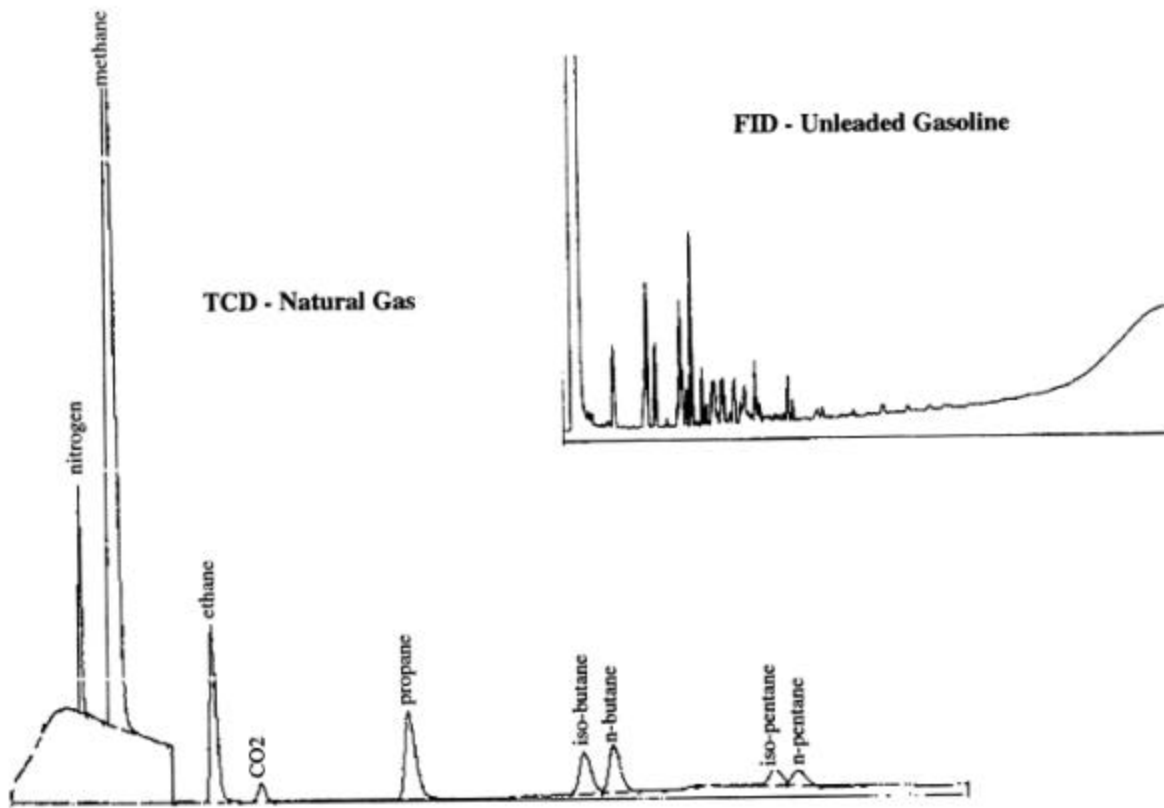
The Buck Scientific Model 910 Natural Gas Analyzer performs repeatable, high quality analyses of permanent gases, and light hydrocarbons at ambient or controlled higher temperatures. Among the compounds detected are hydrogen, oxygen, nitrogen, carbon monoxide, carbon dioxide, hydrogen sulfide, sulfur dioxide, nitrogen dioxide, methane, ethane, propane, butane, pentane and hexane homologues, to levels as low as 0.1% (v/v).

The Natural Gas Analyzer is equipped with an automatic gas sampling valve for reproduceable injections every time. In addition, the Flame Ionization Detector (FID) utilizes a nickel catalyst bed to convert oxides of carbon to methane for extremely low level detection, down to 1 ppm carbon monoxide.

The combination TCD / FID make our instrument a powerful tool in the analysis of many compounds when used with alternative columns. Temperature programmable to 400°C, with automatic re-start features, internal and external calibration functions, and reporting, the Buck Natural Gas Analyzer is a chromatographer's dream.

SIC: 131, 132, 2892, 2895, 291, 351, 492, 517, 8734

Analysis of Natural Gas Products by Single Column GC / TCD / FID



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