Global Analyser Solutions

Biodiesel analyser

Glycerol and triglyceride content

PF610



- EN 14105 / ASTM 6584
- Optional: integration with FAME and methanol analysis

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Biodiesel analyser: Free and total glycerol and mono-, di-, triglyceride content

Biodiesel is an alternative fuel produced from renewable sources such as vegetable oils and organic waste. Specific directives from worldwide authorities have been promoting the use of biodiesel blended with petro-diesel. Biodiesel must meet a set of requirements defined by ASTM and EN standards.

System setup

The GAS biodiesel analyser is an efficient and cost-effective solution for:

- EN 14105 / ASTM 6584: Free and total glycerol and mono-, di-, triglyceride content, using PTV (programmable temperature vaporiser), MXT Biodiesel TG column (15m*0.32mm; 0.1um), FID, and liquid sample injection. See figure 2.

OPTIONAL:
EN 14103 and EN 14110 (FAME and methanol) can be added using a second gas chromatograph, efficiently using one liquid autosampler (Triplus RSH), injecting on 3 different liquid injectors. The entire workflow can be automated, from methyl ester preparation and standard dilution to injection using a single Triplus autosampler, for improved data precision, reproducibility and lab productivity. The operator has to weigh the sample and place it in the sample tray, and all necessary steps and reporting are completed fully automated (figure 3). Contact us for more information.

Specification

- Thermo Trace GC1600 with Cold-On-Column injector, FID, capillary column.
- Runtime 30 minutes

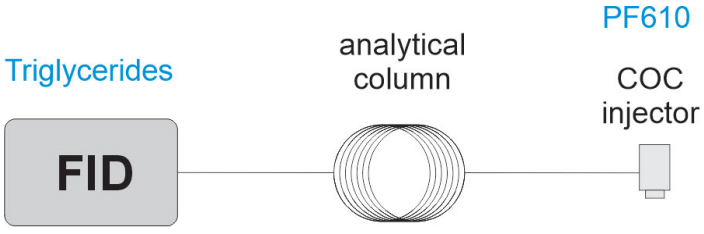


Figure 1 Diagram biodiesel analyser EN 14103 & EN 14110

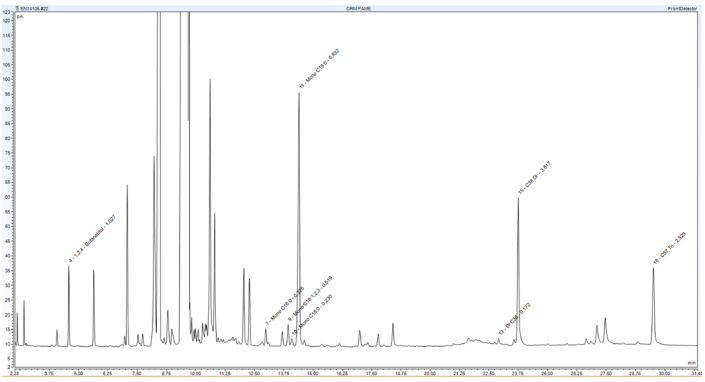


Figure 2 Chromatogram EN 14105. Mono-, di- and triglycerides

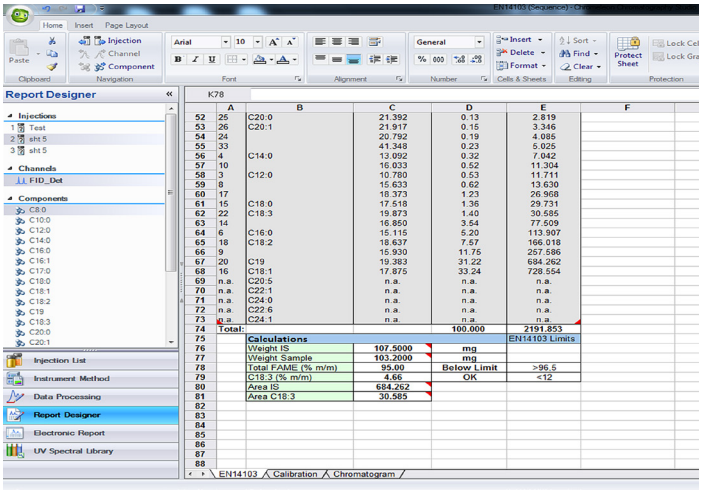


Figure 3 Automated reporting after each run by Chromeleon report designer

Ordering information PF61X - ABCDE				
code X	0	1	2	3
GC model, power	1600, 230V	1610, 230V	1600, 115V	1610, 115V

For the selection of options (e.g. GC oven cryo valves, Power plug type and more), see the options table in the order guide.

About GAS

Global Analyser Solutions provides GC & GC-MS solutions for Energy, Refinery, Chemical and Environmental markets. Our analysers address a broad spectrum of measuring requirements with high precision and reliability. Please reach out for more information on our website. www.gassite.com