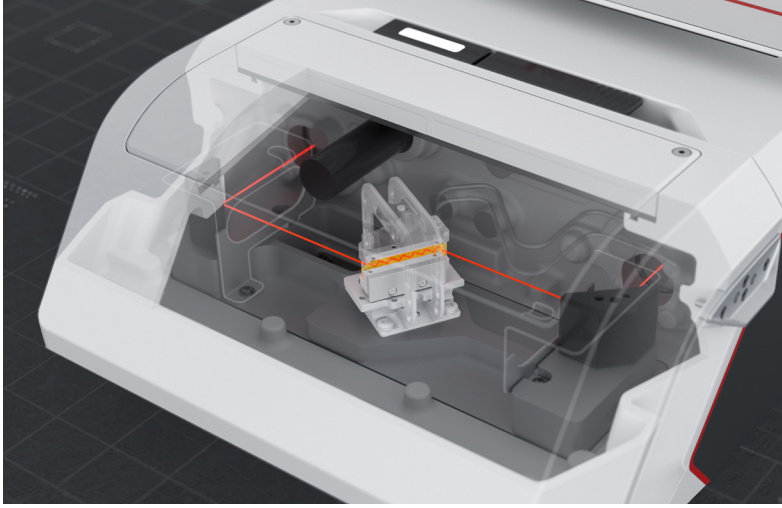
Anton Paar

Biodiesel Quantification with FTIR

Lyza 7000

Fast FAME testing of diesel according to ASTM and DIN standards

Find out more



One simple workflow for routine FAME analysis

Fatty acid methyl ester (FAME) analysis determines the content of biodiesel in diesel fuel. Used routinely throughout the fuel industry, it plays a key role in product classification, release testing, and compliance with fuel specifications.

With Anton Paar's Lyza 7000, FTIR-based FAME analysis can be performed in one streamlined workflow: Select the appropriate Flow Cell Module for your standard, start your measurement, and receive the quantified FAME result directly on the spectrometer.

- → **Standards-compliant workflows** for ASTM D7371, ASTM D7806, and DIN EN 14078
- → **Dedicated flow cell options** matched to ATR and transmission FTIR methods
- → **Pre-installed application presets** minimize time from setup to result
- → **Embedded quantification** with direct reporting in % v/v FAME on the instrument
- → **Ready for automation:** Scale routine diesel fuel analysis with automated filling, cleaning, and drying – Xsample 3200 for single-position sampling or Xsample 5200 for up to 32 samples in a single run

Choose the right Flow Cell Module for your standard

ASTM D7371: Flow Cell Module V-ATR ZnSe

The unique vertical ATR configuration of the Flow Cell Module V-ATR ZnSe combines efficient flow operation with a 12-bounce ZnSe crystal to deliver an optimized measurement geometry for liquid samples.

Pre-installed chemometric models cover 0 % to 100 % FAME content. In the key 0 % to 20 % range, the 12-bounce design eliminates the need for initial calibration, enabling routine measurements straight out of the box.

ASTM D7806: Flow Cell Module TRA ZnSe 100 µm

The ASTM D7806 workflow keeps the focus on the result: Standards-compliant FAME and triglyceride values are calculated directly in the instrument, with evaluation handled automatically in the background.

DIN EN 14078: Flow Cell Module TRA CaF_2 50 µm

The Flow Cell Module TRA CaF_2 50 µm measures samples from 3 % to 20 % FAME content without dilution (covering the DIN EN 14078 B range) and provides a clear workflow for routine diesel blend analysis.