

# AC Analytical Controls

## Overview Chromatographic Applications

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# AC ANALYTICAL CONTROLS

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- Global provider of specialty gas chromatography solutions.
- AC covers a wide spectrum of standard applications
- Customized and tailor-made Chromatography solutions
- Sustained analytical performance





**Full coverage of petroleum, petrochemical, refinery  
&  
(natural) gas analysis.**

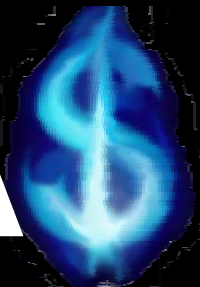
**Innovative applications  
Approved solutions ASTM, DIN, EI, CEN, ISO etc.**



# Chromatography Products Portfolio

## Scope of Applications

**GAS**



**Mid & Heavy  
Distillates and  
Lubricants**



**Biofuel**



**LPG**



**Naphtha**



**Crudes/Residuals**



## Scope of Applications



Refinery Gas Analysis



Natural Gas Analysis



Trace/Petrochemical Analysis



# Refinery Gas Analyzers



## Gas Analysis

HI-Speed RGA

Fast RGA

LPG

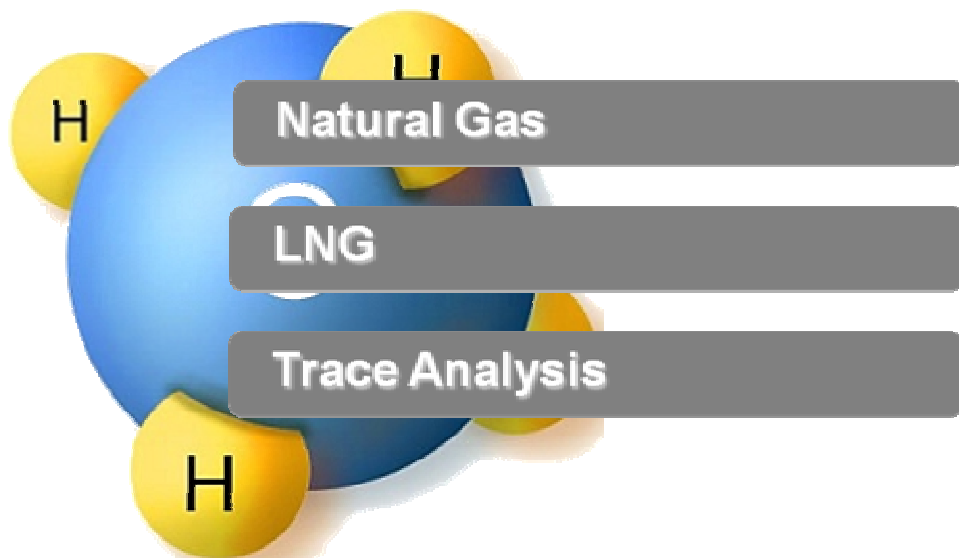


UOP 539, D2163, ISO 7941, DIN 51666, D2712

!! New method:  
prEN15984 !!



# Natural Gas Analyzers



ISO 6974, ISO6975, D1945, GPA 2261, GPA 2286, GPA 2186, D6228



# Trace/Petrochemical Analyzers

Trace Oxygenates

Trace Sulfur

Trace Inerts

Trace Hydrocarbons

Special Constituents



**ANTEK**

D2504, D2505, D2712, D5303, D6159, D5504, D6228





# Chromatography Products Portfolio



Full Gasoline Analysis



Component Analysis



Impurity Analysis



## Gasoline Analysis

Reformulyzer<sup>®</sup> M3

AC DHA

AC 8612<sup>™</sup>

SFC



D5443, D6839, D6293, D6729, D6730, D6733, EN14517,  
ISOEN22854, D6550, D6296



## Component Analysis



AC Aromatics

AC Oxygenates

AC Olefins



D5580, D3606, D4815, D5599, EN12177, EN13132



# Naphtha

## Impurity Analysis

**AC Oxytracer**



UOP 960



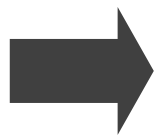
# Chromatography Products Portfolio



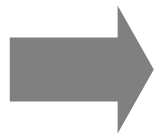
**Mid & Heavy  
Distillates and  
Lubricants**



**Mid Distillates  
SIMDIS Analysis,  
Aromaticity Analysis**



**Lubricants  
SIMDIS, Wax,**



**Heavy Distillates  
SIMDIS,  
Fuel Dilution**



# Middle Distillates

**SIMDIS Solutions**

**AC 8634™ (D86 correlation)**

**CNS SIMDIS**

**FAME SIMDIS**



D2887, D7213, D7398, D7215\*

\* Calculated Flash point D3828, D93, D56



# Gasoil & Jet fuel

**TBP SIMDIS Solutions**

**Aromatics in Diesel and Jet**

**FAME in Jet fuel**

**FAME in Diesel**

**N-paraffins in Jet fuel**

**D2887 CNS SIMDIS**



D3710, D7096, D2887, D7213, D6379, D6591, IP391,  
EN12916, UOP915, D5186



# Lubricants

TBP SIMDIS

Fuel Dilution

WAX SIMDIS

HT CNS SIMDIS



D5442, D6352, D7500, D7169 , EN15199, EN12916





# Crudes and Residuals

TBP HT SIMDIS

DHA FE

Reformulyzer<sup>®</sup> M3 Prefrac

Methanol in crude



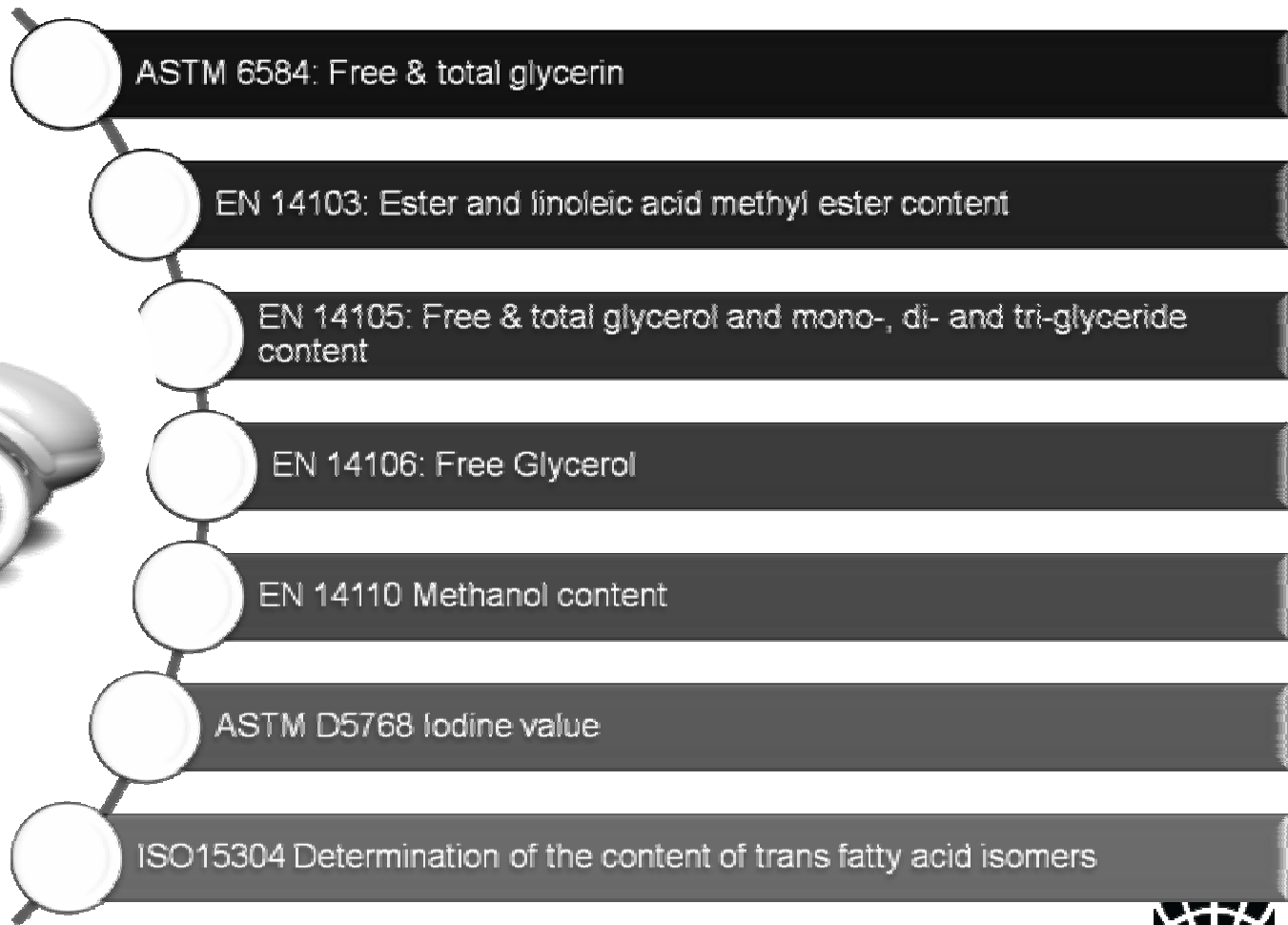
D7169 , EN15199:3, D5134, D7059



# ALL IN ONE BIODIESEL

**ac**<sup>®</sup>  
ANALYTICAL CONTROLS  
by **PAC**

**ONE GC!!**



**DL**  
PAC

**ac**  
ANALYTICAL CONTROLS  
PAC

**Alcor**  
PAC

**HERZOG**  
PAC

**PetroSpec**  
PAC

**PSPI**  
PAC

**ANTEK**  
PAC

# New products



**Carbon  
Nitrogen  
Sulfur Simdis**



**Ultra fast  
Micro wave  
GC (Radian)**



**Super Critical  
Fluid  
Chromatograph**



# Summary



Unique as global high-end solutions provider

Broad coverage of HPI requirements with standard solutions; ability to customize

Strong quality drive

Critical mass gives continuity and reliability

All elements to support sustained analytical performance

100% application and hardware guarantee

Life time free Response Center



# For more information



The screenshot shows the homepage of the PAC website. At the top right, there are links for 'Login / Register', 'My Cart', 'Contact Us', and 'Careers'. The main header features the 'PAC' logo and the tagline 'Advanced Analytical Instrumentation'. A search bar is located on the right. A large blue banner in the center displays 'www.pacip.com'. Below this, a navigation bar allows users to 'BROWSE LAB INSTRUMENTS BY' with options for 'Application', 'Method', 'Brand', 'Industry', and 'Alphabetical'. Two main content areas are visible: 'Laboratory' with the sub-header 'Advanced Analytical Solutions' and 'Process Analytics' with the sub-header 'Online Measurement with Lab Accuracy'. A row of logos for various brands (ac, Alcor, ANTEK, HERZOG, DL, PSPI, PetroSpec) is shown below. A 'NEWS & EVENTS' section includes a link to a press release. A 'Chat Support' widget is present, with a blue callout bubble pointing to it that says 'Online Line'. The widget lists services: 'Tech support - online', 'Parts ordering - offline', and 'Instrument sales - offline'.

Online Line



# Questions

