

Instrument Type	AC Refinery Gas Analyzers	AC Natural Gas Analyzers	AC Petrochemical Analyzers	AC Customized Gas Analyzers	AC PIONA / Reformulyzer® M3	AC Olefins Analyzer	AC DHA Analyzer	AC Oxygenates Analyzer	AC Aromatics Analyzer	AC 8612™ Analyzer	AC 8634™ Analyzer	AC SIMDIS Analyzer	AC Aromatics Analyzer	AC HT SIMDIS Analyzer	AC DHA Front End Analyzer
Standard Method	- Fast RGA (UOP 539) - Hi-Speed RGA (D 2163 / ISO 7941/ DIN 51666) - Micro GC - Sulfur in LPG	- D 1945 - ISO 6974 - GPA 2261 - GPA 2261/2177 - GPA 2286 - GPA 2186 - Sulphur in NGA	- D 2504 - D 2505 - D 2712 - D 5303 - D 6159 - Sulfur traces in ethylene and propylene - Oxygenates traces in Gas	- Hydrogen - Oxygen / Nitrogen - Hydrogen / Sulfide / Carbon Dioxide	- D 5443 - D 6839 - D 6293 - DIN 51448-1 - EN 14517 - IP 526 - ISO/DIS 22854	- D 6296 - D 6550 (SFC)	- D 6729 - D 6730 - D 6733 - Fast DHA - DHA Front End combi: • D 6729 • D 6730 • D 6733 • Fast DHA	- D 4815 - D 5599 - EN 13132 - EN 1601 - IP 408	- D 5580 - D 3606 - EN 12177	ASTM D 86 equivalent for group 0,1 and 2	ASTM D 86 equivalent for group 3 and 4	- D 7096 - D 3710 - D 2887 - D 6417 - D 5442 (wax) - IP 406 - ISO 3924 - DIN 51435 - D 7213	MDA - IP 391 - EN 12916 (HPLC) - D 6591 - SFC - D 5186	- D 6352 - D 5307 - D 7169 - IP 545 (crude oils) - IP 480 - IP 507 - DIN 51581-2 (MOV) - EN 15199-1 - EN 15199-2	- IP PM-DL based on ASTM D 5134 merged with HT SIMDIS - Crude Oil Analyzer based on DHA merged with HT SIMDIS D 7169 and prEN15199-3
Analyze	Individual Components	Individual Components	Impurities	Individual Components	Hydrocarbon Types and Oxygenates	Olefin Content	Individual Components*	Oxygenates Content	Aromatic Content	Boiling Range Data	Boiling Range Data	TBP	Aromatic Content	TBP	FE of Crude Characterization
Refinery Gas	✓														
Natural Gas		✓													
LPG	✓														
Gas in Petrochemical			✓												
Light straight run / Naphtha					✓		✓					✓			
Straight run / Naphtha					✓		✓			✓		✓			
Heavy straight run / Naphtha					✓		✓			✓		✓			
Depentanized bottom					✓		✓			✓		✓			
Reformate					✓		✓		✓	✓		✓			
FCC-light					✓	✓	✓			✓		✓			
Fcc-middle					✓	✓	✓			✓		✓			
FCC-heavy					✓	✓	✓			✓		✓			
Visbreaker					✓	✓	✓			✓		✓			
Alkylate					✓		✓			✓		✓			
Isomate					✓		✓			✓		✓			
Gasoline blend					✓	✓	✓		✓	✓		✓			
Gasoline with oxygenates					✓	✓	✓	✓	✓	✓		✓			
Jet fuel											✓	✓			
Diesel											✓	✓	✓		
Lubricant (stock base)														✓	
Thermo crack feed														✓	
Crude oil														✓	✓
Residue														✓	
Customized	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓



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* not for group analysis

Table of AC Natural Gas Analyzers main application range

Sample Type	Gas			Liquid		Gas / Liquid			
Methods	ISO 6974	GPA 2261 (one-valve)	GPA 2261 (three-valve)	GPA 2286 Extended	GPA 2177	GPA 2186 Extended	GPA 2261 (five-valve)	GPA 2261 / 2177	ASTM D 1945
Analyze	Individual Components								
Application Range	C1 - C8 CO2*, O2, N2 H2 He	C1-C6+ Air CO2 H2S	C1-C6+ O2, N2 CO2, CO* H2S	C1-C14 C14+ O2, N2 CO2 H2S	C1-C7+ CO2 Air H2S	C1-C14+ CO2 Air H2S*	C1-C5, C6+ O2, H2 CO2 H2S	C1-C7+ Air CO2 H2S	C1-C6+ O2, N2 He, H2 CO2 H2S

* Not in scope of method

Table of AC Refinery Gas / Petrochemical Analyzers main application range

Analyzer	Fast RGA (1058)	Hi-Speed RGA	Micro GC RGA
Application Range	H2, He, O2, N2, CO, CO2, H2S, C1-C5, C5+	H2, He, O2, N2, CO, CO2, H2S, C1-C6+	H2, He, O2, N2, CO, CO2, H2S, C1-C6
Atmospheric Overhead / LPG	✓	✓	✓
FCC Overhead	✓	✓	✓
Desulfurizer Off Gas	✓	✓	✓
Fuel Gas	✓	✓	✓
Recycle Gas	✓	✓	✓

Sulfur Trace Analysis

		Components *					
		H2S	COS	SO2	THT	C1-C4 Mercaptans	Sulfides **
NGA	D 6228 D 5504 ISO 19739 ISO 6326-4	✓	✓	✓	✓	✓	✓
LPG & Light Hydrocarbon streams	D 6228 D 5504 UOP 791	✓	✓	✓	✓	✓	✓
Ethylene & Propylene	D 5303	✓	✓	✓	✓	✓	✓
Diesel	Boiling range distributon (Sulfur Simdis)						

* Components that can be analyzed depend on the selected method

** Volatile sulfides only

Table of AC All In One Biodiesel main application range

Analysis Method	Analysis	Inlet	Analysis Time
ASTM D 6584	Free & Total Glycerin	On-column (TPI)	35 minutes
EN 14103	Ester and Linolenic Acid Methyl Ester Content	Split/splitless	25 minutes
EN 14105	Free & Total Glycerol, Mono-, Di- and Triglyceride Content	On-column (TPI)	35 minutes
EN 14106	Free Glycerol	Split/splitless	10 minutes
EN 14110	Methanol Content	Split/splitless	10 minutes

Table of AC / OI Analytical Analyzers

Total Organic Carbon (TOC) Water Analyzers - Heated Persulfate Model 1030W
Total Organic Carbon (TOC) Water Analyzers - Combustion Model 1030C
Win TOC-Solids
Volatile Organic Compund (VOC) Analyzer
Benzene, Toluene, Ethylbenzene & Xylenes (BTEX) Analyzer
Fluorinated By-Products (FBA) Analyzers

Crude Analysis

Combining HT Simdis with DHA Front End or DHA Combi					
	DHA-FE IP PM-DC	Fast DHA Combi with DHA FE	DHA D 6729 Combi with DHA FE	DHA D 6730 Combi with DHA FE	DHA D 6733 Combi with DHA FE
HT Simdis prEN 15199-3 IP 545 D 7169	✓	✓	✓	✓	✓

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