

# PRODUCT INFO

# Fuel Oil Analysis



The petrochemical industry is of the utmost importance in the 21st century. In Scharlab we are aware of the importance of the analysis of the raw and refined products produced. The products obtained from this industry can be classified, in order of annual production, in Diesel, Gasoline, Kerosene and Fuel Oil.



This Product Info collects all the reagents and materials necessary for the different analyses and determinations required in the Fuel Oil production processes. They are classified by the analysis and by the international regulations.

DENSITY (ASTM D 4052)		
<b>CHEMISTRY*</b>		
AC0306	Acetone, EssentQ®	-
<b>CONSUMABLES</b>		
0005410002	Syringe 2 ml, two pieces	100 u
VISCOSITY (ASTM D 445)		
<b>CHEMISTRY*</b>		
CR0210	Chromic mixture	-
TO0072	Toluene, EssentQ®	-
AC0314	Acetone, for analysis, ExpertQ®, ACS, ISO	-
<b>GLASSWARE</b>		
073-001418	Cannon viscosimeter, Serial n° 200	1 u
0033510108	Beaker, low form, graduated, 250 ml	1 u
<b>CONSUMABLES</b>		
0005410002	Syringe 2 ml, two pieces	100 u
0005410005	Syringe 5 ml, two pieces	100 u
000FG11670	Thermometer, solid stem, B11:D22 mm, -10 to +50 °C	1 u
HYDROGEN SULFIDE CONTENT (IP 570)		
<b>CHEMISTRY*</b>		
TO0072	Toluene, EssentQ®	-
ET0100	Petroleum ether, 60-80 °C, EssentQ®	-
AC0306	Acetone, EssentQ®	-
<b>GLASSWARE</b>		
073-001521	Straight burette, conical PTFE stopcock, 25 ml	1 u
073-991715	Graduated pipette, 1 ml, Class AS	5 u
<b>CONSUMABLES</b>		
0005410005	Syringe 5 ml, two pieces	100 u
ASPHALTENES (IP 143)		
<b>CHEMISTRY*</b>		
HE0135	n-Heptane, 99%, ASTM	-
TO0083	Toluene, ASTM	-
<b>GLASSWARE</b>		
073-D65601	Apparatus for asphaltene extraction, ASTM D 6560	1 u
073-006524	Vacuum dissicator, Ø200 mm, rotative valve, porcelain plate	1 u
073-05250V	Glass rod, 250 mm, Ø5 mm	10 u
POUR POINT (ASTM D 5950)		
<b>CHEMISTRY*</b>		
ME0302	Methanol, for analysis, ExpertQ®, ACS, ISO	-
HE0227	n-Hexane, 96%, EssentQ®	-

ACID NUMBER (ASTM D 664)		
<b>CHEMISTRY*</b>		
ME0302	Methanol, for analysis, ExpertQ®, ACS, ISO	-
AL0312	2-Propanol, for analysis, ExpertQ®, ACS, ISO	-
TO0075	Toluene, for analysis, ExpertQ®, ACS, ISO	-
CL0203	Chloroform, for analysis, ExpertQ®, ACS, ISO	-
ET0005	Ethanol absolute, for analysis, ExpertQ®, ACS, ISO	-
AC0741	Hydrochloric acid, 37%, for analysis, ExpertQ®, ACS, ISO	-
AC0746	Hydrochloric acid, solution 0,1M	-
PO0289	Potassium hydroxide, solution 0,1M in 2-propanol	-
LI0110	Lithium chloride, EssentQ®	-
SO1004	Buffer solution pH = 4,00 (20 °C)	-
SO1007	Buffer solution pH = 7,00 (20 °C)	-
SO1141	Buffer solution pH = 11,00 (20 °C)	-
<b>INSTRUMENTATION</b>		
6709582010	Digital burette Opus®, titration 10 ml	1 u
<b>GLASSWARE</b>		
073-001521	Straight burette, conical PTFE stopcock, 25 ml	1 u
073-201752	Graduated cylinder, 50 ml, Class A	2 u
073-991721	Graduated pipette, 25 ml, Class AS	5 u
0033510108	Beaker, low form, graduated, 250 ml	1 u
FLASH POINT (ASTM D 93)		
<b>CHEMISTRY*</b>		
AC0306	Acetone, EssentQ®	-
<b>GLASSWARE</b>		
073-001364	Glass test for determining the freezing point	1 u
SULFUR (ASTM D 4294)		
<b>STANDARDS</b>		
NS13910100	Dibutyl sulfide	100 mg
<b>GLASSWARE</b>		
073-201633	Volumetric flask, 100 ml, H 14/23, Class A	2 u
073-991305	Graduated pipette, 0,5 ml, Class AS	5 u
073-991717	Graduated pipette, 2 ml, Class AS	5 u
073-991720	Graduated pipette, 10 ml, Class AS	5 u
073-991721	Graduated pipette, 25 ml, Class AS	5 u
<b>CONSUMABLES</b>		
425-000625	Evaporation capsule PTFE, 25 ml, Ø42 mm	1 u

→ \*Different packagings and capacities available.

## TOTAL SEDIMENT (FILTRATION) (ISO 10307-1)

CHEMISTRY*		
HE0135	n-Heptane, 99%, ASTM	-
TO0083	Toluene, ASTM	-
GLASSWARE		
3016000005	Glass syringe, Luer cone, 20 ml	1 u
073-006524	Vacuum dissicator, Ø200 mm, rotative valve, porcelain plate	1 u
073-000838	Weighting bottle with internal lid, 60x40 mm	1 u
073-03200V	Glass rod, 200 mm, Ø3 mm	10 u
0033550104	Beaker, low form, graduated, 50 ml	1 u
CONSUMABLES		
073-001119	Complete simple filtrating unit, 47 mm	1 u
000FG11580	Thermometer, rod scale, 200 mm, -10 to +110 °C	1 u

## TOTAL SEDIMENT (AGEING) (ISO 10307-2)

CHEMISTRY*		
12046	n-Hexadecane, 99%	-
GLASSWARE		
073-001418	Erlenmeyer flask, narrow neck, 50 ml	1 u
0033793101	Funnel, Ø30 mm	1 u
0000G11366	Thermometer, rod scale, 200 mm, -10 to +200 °C	1 u
073-001530	Burette, 5 ml, PTFE needle stopcock, with 300 ml reservoir	1 u

## WATER BY DISTILLATION (ASTM D 95)

CHEMISTRY*		
XI0051	Xylene, mixture of isomers, EssentQ®	-
IS0153	Isooctane, EssentQ®	-
GLASSWARE		
073-000712	Apparatus for the determination of water, complete, ASTM D 95	1 u
073-D95003	Additional collector 2.5:0.05 ml	1 u
073-019418	Additional collector 5:0.05 ml	1 u
073-019419	Additional collector 10:0.1 ml, PTFE stopcock	1 u
073-D95006	Additional collector 25:0.2 ml	1 u
073-D95007	Additional collector 25:0.2 ml, PTFE stopcock	1 u

## ASH (ASTM D 482)

CHEMISTRY*		
AL0312	2-Propanol, for analysis, ExpertQ®, ACS, ISO	-
TO0075	Toluene, for analysis, ExpertQ®, ACS, ISO	-
CONSUMABLES		
000E29 IR3	Platinum crucible, Ø50 mm, 75 ml	1 u
011-79MF/4	Porcelain crucible, Ø60 mm, 90 ml	1 u
011-079D/4	Porcelain crucible lid, Ø60 mm	1 u

## CARBON RESIDUE (ASTM D 4530)

GLASSWARE		
0000290005	Glass vial, transparent, 5 ml, GL18 thread, screw cap	210 u
0000290030	Glass vial, transparent, 36 ml, GL18 thread, screw cap	153 u
073-262200	Glass dissicator, screw plastic cap, Ø200 mm	1 u

## METALS BY ICP (IP 501)

CHEMISTRY*		
PO0272	Potassium hydrogen sulfate, EssentQ®	-
AZ0040	Sulfur flower, EssentQ®	-
AL0312	2-Propanol, for analysis, ExpertQ®, ACS, ISO	-
TO0075	Toluene, for analysis, ExpertQ®, ACS, ISO	-
AC0741	Hydrochloric acid, 37%, for analysis, ExpertQ®, ACS, ISO	-
AC0760	Hydrochloric acid-water, 50:50 v/v, for analysis, ExpertQ®	-
20694	Lithium tetraborate, 98%	-
19338	Lithium fluoride, 99,98%	-
AC3001	L(+)-Tartaric acid, for analysis, ExpertQ®, ACS	-
AC1618	Nitric acid, 69%, Ultratrace®, for analysis de trazas (ppt)	-
AL0754	Aluminium, standard solution 1000 mg/l for ICP	-
SI0016	Silicon, standard solution 1000 mg/l for ICP	-
VA0076	Vanadium, standard solution 1000 mg/l for ICP	-
NI0126	Nickel, standard solution 1000 mg/l for ICP	-
HI0291	Iron, standard solution 1000 mg/l for ICP	-
SO0009	Sodium, standard solution 1000 mg/l for ICP	-
CA0181	Calcium, standard solution 1000 mg/l for ICP	-
CI0129	Zinc, standard solution 1000 mg/l for ICP	-
FO0036	Phosphorus, standard solution 1000 mg/l for ICP	-

## CONSUMABLES

CFIWAM0150	Ashless filter paper, WAM grade, Ø150 mm, retention 14-18 µm	100 u
FAB-0PI150	Plastic flask, GL45, 100 ml	20 u
FAB-TA1337	Polypropylene cap, GL45	20 u
FAB-PI1000	Plastic flask, GL60, 1 l	20 u
FAB-TAPS60	Polypropylene cap, GL60	20 u

## GLASSWARE

073-991676	Volumetric pipette, 1 mark, 1 ml, Class AS	5 u
073-991677	Volumetric pipette, 1 mark, 2 ml, Class AS	5 u
073-991678	Volumetric pipette, 1 mark, 5 ml, Class AS	5 u
073-991679	Volumetric pipette, 1 mark, 10 ml, Class AS	5 u
073-991682	Volumetric pipette, 1 mark, 25 ml, Class AS	5 u
0033510112	Beaker, low form, graduated, 600 ml	1 u

→ \*Different packagings and capacities available.

Custom-made  
multielements  
ICP standards

**Scharlab**  
The wise choice



**Consult us!**

Contact our **Petrochemical expert** to answer all your queries.  
Contact through [helpdesk@scharlab.com](mailto:helpdesk@scharlab.com)