| Teenuste hinnad alates 20.12.2024 / Price list 20.12.2024 | | | |
|---|---|---|---|
| **No** | **Test** | **Method** | **Price (EUR)** |
| 1 | Tiheduse mõõtmine laboratorselt areomeetrilise meetodiga<br>*Crude petroleum and liquid petroleum products – Laboratory determination of density – Hydrometer method* | EN ISO 3675 | 22 |
| 2 | *Standard Test Method for Density, Relative Density (Specific Gravity), or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method* | ASTM D1298 / IP160, API MPMS Ch 9.1 | 22 |
| 3 | Tiheduse määramine. Ostsilleeruva U-toru meetodil<br>*Crude petroleum and petroleum products – Determination of density – Oscillating U-tube Method* | EN ISO 12185 | 22 |
| 4 | *Standard Test Method for Density, Relative Density, and API Gravity of Liquids by Digital Density Meter* | ASTM D4052 | 22 |
| 5 | Oktaaniarvu määramine mootorimeetodil (MON)<br>*Petroleum products – Determination of knok characteristics of motor and aviation fuels – Motor method* | EN ISO 5163 | 215 |
| 6 | *Standard Test Method for Motor Octane Number of Spark-Ignition Engine Fuel* | ASTM D2700 / IP236 | 215 |
| 7 | Oktaaniarvu määramine uurimismeetodil (RON)<br>*Petroleum products – Determination of knok characteristics of motor fuels – Research method* | EN ISO 5164 | 215 |
| 8 | *Standard Test Method for Research Octane Number of Spark-Ignition Engine Fuel* | ASTM D2699 / IP237 | 215 |
| 9 | Tsetaanmootori meetod<br>*Petroleum products – Determination of the ignition quality of diesel fuels - Cetane engine method* | EN ISO 5165 | 225 |
| 10 | *Standard Test Method for Cetane Number of Diesel Fuel Oil* | ASTM D613/ IP41 | 225 |
| 11 | Väävlisisalduse määramine energiajahutusega röntgenfluorestsentsspektomeetria meetodil<br>*Petroleum products -Determination of sulfur content - Energydispersive X-ray fluorescence spectrometry* | EN ISO 8754 | 65 |
| 12 | *Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy Dispersive X-ray Fluorescence Spectrometry* | ASTM D4294 | 65 |
| 13 | Tioolide ja teiste aktiivsete väävliühendite määramine - Doktortest<br>*Petroleum products and hydrocarbon solvents – Detection of thiols and other sulfur species – Doctor test* | EN ISO 5275 | 50 |
| 14 | *Standard Test Method for Qualitative Analysis for Active Sulfur Species in Fuels and Solvents (Doctor Test)* | ASTM D4952 | 50 |
| 15 | Üldväävli määramine UV fluorestsentsmeetodil<br>*Petroleum product s- Determination of sulfur content of automotive fuels - Ultraviolet fluorescence method* | EN ISO 20846 | 75 |
| 16 | *Standard Test Method for Determination of Total Sulfur in Light Hydrocarbons, Spark Ignition Engine Fuel, Diesel Engine Fuel, and Engine Oil by Ultraviolet Fluorescence* | ASTM D5453 | 75 |
| 17 | *Ethanol as a blending component for petrol – Determination of sulphur content - Ultraviolet fluorescence method* | EN 15486 | 75 |
| 18 | Mootorkütuste väävlisisalduse määramine energiajahutusega röntgenfluoressentsspktromeetriliselt<br>*Petroleum products - Determination of sulfur content of automotive fuels - Energy-dispersive X-ray fluorescence spectrometry* | EN ISO 20847 | 65 |
| 19 | Korrosiivsus vaskplaadikatsel<br>*Petroleum products – Corrosiveness to copper – Copper strip test* | EN ISO 2160 | 55 |
| 20 | *Standard Test Method for Corrosiveness to Copper from Petroleum Products by Copper Strip Test* | ASTM D130 / IP 154 | 55 |

| | | | |
|---|---|---|---|
| 21 | Naftasaaduste fraktsioonikoostise määramine normaalrõhul<br>*Petroleum products. Determination of distillation characteristics at atmospheric pressure* | EN ISO 3405 | 70 |
| 22 | *Standard Test Method for Distillation of Petroleum Products at Atmospheric Pressure* | ASTM D86 | 70 |
| 23 | *Standard Test Method for Distillation of Petroleum Products at Atmospheric Pressure (Mini Method)* | ASTM D7344 | 60 |
| 24 | Küllastunud aururõhu määramine minimeetodil<br>*Liquid petroleum products – Vapour pressure – Part 1: Determination of air saturated vapour pressure (ASVP) and calculated dry vapour pressure equivalent (DVPE)* | EN 13016-1 | 75 |
| 25 | *Standard Test Method for Vapor Pressure of Petroleum Products (Mini Method)* | ASTM D5191 | 75 |
| 26 | Kergete ja keskmiste destillaatkütuste vaigusisalduse määramine jugaaurutusmeetodil.<br>*Petroleum products - Gum content of light and middle distillate fuels - Jet evaporation method* | EN ISO 6246 | 90 |
| 27 | *Standard Test Method for Gum Content in Fuels by Jet Evaporation* | ASTM D381 | 90 |
| 28 | Bensiini oksüdatsioonikindluse määramine induktsiooniperioodi meetodil<br>*Petroleum products – Determination of oxidation stability of gasoline – Induction period method* | EN ISO 7536 | 90 |
| 29 | *Standard Test Method for Oxidation Stability of Gasoline (Induction Period Method)* | ASTM D525 / IP 40 | 90 |
| 30 | *Standard Test Method for Free Water and Particulate Contamination in Distillate Fuels (Visual Inspection Procedures)* | ASTM D4176 | 35 |
| 31 | Süsivesinike tüüpide määramine fluorestntsindikaatoriga adsorptsioonmeetodil<br>*Petroleum products and related materials - Determination of hydrocarbon types - Fluorescent indicator adsorption method* | EN 15553 | 155 |
| 32 | *Standard Test Method for Hydrocarbon Types in Liquid Petroleum Products by Fluorescent Indicator Absorption.* | ASTM D1319 / IP156 | 155 |
| 33 | *Standard Test Method for Determination of MTBE,ETBE, TAME, DIPE, Methanol, Ethanol and tert-Butanol in Gasoline by Infrared Spectroscopy* | ASTM D5845 | 120 |
| 34 | Tsetaaniindeksi määramine.<br>*Petroleum products – Calculation of Cetane Index of Middle-distillate Fuels by the Four-variable equation* | EN ISO 4264<br>Calculation | 35 |
| 35 | *Standard Test Method for Calculated Cetane Index by Four Variable Equation* | ASTM D4737<br>Calculation | 35 |
| 36 | *Standard Test Method for Calculated Cetane Index of Distillate Fuels* | ASTM D976<br>Calculation | 35 |
| 37 | Oksüdatsioonistabiilsuse määramine<br>*Petroleum products – Determination of the oxidation stability of middle-distillate fuels* | EN ISO 12205 | 125 |
| 38 | *Standard Test Method for Oxidation Stability of Distillate Fuel Oil (Accelerated Method)* | ASTM D2274 / IP388 | 125 |
| 39 | Leekpunkti ja süttimistempera- tuuri määramine. Clevelandi avatud tiigli meetod<br>*Petroleum products – Determination of flash and fire point – Cleveland open cup method* | EN ISO 2592 / ISO 2592 | Flash Point - 90<br>Fire Point - 90 |
| 40 | *Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester* | ASTM D92 / IP 36 | 90 |
| 41 | Aurulukuindeks (VLI) , arvutusmeetod<br>*Vapour Lock Index (VLI), calculation method*<br>(VLI = 10VP + 7E70) | EN 228<br>Calculation | 35 |

| | | | |
|---|---|---|---|
| 42 | Leekpunkti määramine Pensky-Martensi suletud tiiglis<br>*Determination of flash point – Pensky-Martens closed cup method* | EN ISO 2719 | 90 |
| 43 | *Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester* | ASTM D93 / IP34 | 90 |
| 44 | Leekpunkti määramine Pensky-Martensi suletud tiiglis<br>*Animal and vegetable fats and oils – Flash point limit test using Pensky-Martens closed cup flash tester* | ISO 15267 | 90 |
| 45 | Filtreeritavuspunkti määramine<br>*Diesel and domestic heating fuels – Determination of cold filter plugging point (CFPP)* | EN 116 | 100 |
| 46 | *Standard Test Method for Cold Filter Plugging Point of Diesel and Heating Fuels* | ASTM D6371 | 100 |
| 47 | Hangumispunkti määramine<br>*Petroleum products – Determination of pour point* | EN ISO 3016 / ISO 3016 | 70 |
| 48 | *Standard Test Method for Pour Point of Petroleum Products* | ASTM D97 / IP 15 | 70 |
| 49 | Hägustumispunkti määramine<br>*Petroleum products - Determination of cloud point* | EN ISO 3015 / ISO 3015 | 60 |
| 50 | *Standard Test Method for Cloud Point of Petroleum Products* | ASTM D2500 / IP219 | 60 |
| 51 | Kinemaatilise viskoossuse määramine<br>*Petroleum products – Transparent and opaque liguids – Determination of kinematic viscosity and calculation of dynamic viscosity* | EN ISO 3104 | 75 |
| 52 | *Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dinamic Viscosity)* | ASTM D445 / IP71 | 75 |
| 53 | Vee määramine naftasaadustes ja bituminoossetes materjalides destilleerimismeetodil<br>*Petroleum products and bituminous materials – Determination of water – Distillation method* | ISO 3733 | 65 |
| 54 | *Standard Test Method for Water in Petroleum Products and Bituminous Materials by Distillation* | ASTM D95 / IP74 | 65 |
| 55 | *Standard Test Method for Water in Crude Oil by Distillation* | ASTM D4006 / IP358 | 70 |
| 56 | Alumine ja ülemine eripõlemissoojus<br>*Standard Test Method for Estimation of Net and Gross Heat of Combustion of Burner and Diesel Fuels* | ASTM D4868<br>Calculation | 35 |
| 57 | Tuhasuse määramine<br>*Petroleum products – Determination of ash* | EN ISO 6245 | 75 |
| 58 | *Standard Test Method for Ash from Petroleum Products* | ASTM D482 / IP 4 | 90 |
| 59 | Sulfaattuha määramine määrdeõlides ja manustes.<br>*Petroleum products - Lubricating oils and additives - Determination of sulfated ash* | ISO 3987 | 100 |
| 60 | *Standard Test Method for Sulfated Ash from Lubricating Oils and Additives* | ASTM D874 / IP163 | 100 |
| 61 | Benseeni määramine, infrapunase spektroskoopia meetod<br>*Liquid petroleum products – Petrol - Determination of the benzene content by Infrared spectrometry* | EN 238 | 110 |
| 62 | *Standard Test Method for Benzene in Motor and Aviation Gasoline by Infrared Spectroscopy* | ASTM D4053 | 110 |
| 63 | *Standard Test Method for Determination of Benzene in Spark-Ignition Engine Fuels Using Mid Infrared Spectroscopy* | ASTM D6277 | 110 |
| 64 | Naftasaaduste koksiarvu määramine Conradson'i meetodil<br>*Petroleum Products – Determination of carbon residue – Conradson method* | ISO 6615 | 75 |

| | | | |
|---|---|---|---|
| 65 | *Standard Test Method for Conradson Carbon Residue of Petroleum Products* | ASTM D189 / IP 13 | 75 |
| 66 | Naftasaaduste koksiarvu määramine mikromeetodil.<br>*Petroleum products – Determination of carbon residue – Micro method* | EN ISO 10370 | 100 |
| 67 | *Standard Test Method for Determination of Carbon Residue (Micro Method)* | ASTM D4530 | 100 |
| 68 | *Standard Test Method for Distillation of Petroleum Products at Reduced Pressure* | ASTM D1160 | 185 |
| 69 | Happe- ja leelisarvu määramine värvusindikaatoriga tiitrimisel<br>*Petroleum products and libricants – Determination of acid or base number – Colour-indicator titration method* | ISO 6618 | 90 |
| 70 | *Standard Test Method for Acid and Base Number by Color-Indicator Titration* | ASTM D974/ IP139 | 90 |
| 71 | *Standard Test Method for Base Number Determination by Potentiometric Hydrochloric Acid Titration* | ASTM D4739 | 90 |
| 72 | Neutralisatsiooniarvu määramine potensiomeetrilisel tiitrimisel<br>*Petroleum products and lubricants – Neutralization number – Potentiometric titration method* | ISO 6619 | 90 |
| 73 | *Standard Test Method for Acid Number of Petroleum Products by Potentiometric Titration* | ASTM D664 / IP177 | 90 |
| 74 | Üldise leelisarvu määramine potentsiomeetrilisel tiitrimisel<br>*Petroleum products - Determination of base number - Perchloric acid potentiometric titration method* | ISO 3771 | 100 |
| 75 | *Standard Test Method for Base Number of Petroleum Products by Potentiometric Perchloric Acid Titration* | ASTM D2896 / IP276 | 100 |
| 76 | *Standard Test Method for Acidity in Aviation Turbine Fuels* | ASTM D3242 / IP354 | 90 |
| 77 | *Standard Test Method for Acidity of Hydrocarbon Liquids and Their Distillation Residues* | ASTM D1093 | 90 |
| 78 | *Standard Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer, and Related Products* | ASTM D1613 | 90 |
| 79 | Etanool bensiini komponendina. Üldhappesuse määramine. Värvusindikaatoriga tiitrimise meetod<br>*Ethanol as a blending component for petrol – Determination of total acidity – Colour indicator titration method* | EN 15491 | 90 |
| 80 | *Standard Test Method for Estimation of Net Heat of Combustion of Aviation Fuels* | ASTM D3338/ D3338M<br>Calculation | 35 |
| 81 | Naftasaadustes seotud vee määramine kulonomeetriliselt Karl Fischer titratsioonil<br>*Petroleum products – Determination of water – Coulometric Karl Fischer titration method* | EN ISO 12937 | 65 |
| 82 | *Standard Test Method for Determination of Water In Petroleum Products, Lubricating Oils, and Additives by Coulometric Karl Fischer Titration* | ASTM D6304 | 65 |
| 83 | *Standard Test Method for Water in Crude Oils by Coulometric Karl Fischer Titration* | ASTM D4928/IP 386 MPMS Ch.10.9 | 65 |
| 84 | *Standard Test Method for Water in Organic Liquids by Coulometric Karl Fischer Titration* | ASTM E1064 | 65 |
| 85 | Veesisalduse määramine kulonomeetriliselt Karl Fischer titratsioonil<br>*Ethanol as a blending component for petrol – Determination of water content – Karl Fischer coulometric titration method* | EN 15489 | 65 |
| 86 | *Standard Test Method for Density and Relative Density of Crude Oil by Digital Density Analyzer* | ASTM D5002 | 35 |
| 87 | *Standard Test Method for Pour Point of Crude Oils* | ASTM D5853 / IP 441 | 70 |

| | | | |
|---|---|---|---|
| 88 | Tahkete osiste määramine keskmistes destillaatides<br>*Liquid petroleum products – Determination of contamination in middle distillates* | EN 12662 | 75 |
| 89 | *Standard Test Method for Particulate Contamination in Middle Distillate Fuels by Laboratory Filtration* | ASTM D6217 / IP415 | 75 |
| 90 | *Sediment in Crude Oil by Membrane Filtration* | ASTM D4807, MPMS Ch.10.8 | 80 |
| 91 | Sette määramine toornaftas ja kütteõlides ekstraktsioonmeetodil<br>*Crude petroleum and fuel oils – Determination of sediment – Extraction method* | EN ISO 3735 | 75 |
| 92 | *Sediment in Crude Oils and Fuel Oils by the Extraction Method* | ASTM D473 / IP 53, MPMS Ch.10.1 | 75 |
| 93 | *Particulate Contamination in Aviation Fuels by Laboratory Filtration* | ASTM D5452 / IP423 | 115 |
| 94 | Vee ja sette määramine jääk-kütteõlides. Tsentrifuugi meetodis (laboratoorne menetlus)<br>*Petroleum products – Determination of water and sediment in residual fuel oils – Centrifuge method* | ISO 3734 | 70 |
| 95 | *Standard test method for Water and Sediment in Fuel Oils by the Centrifuge Method (Laboratory Procedure)* | ASTM D1796, MPMS Ch.10.6 | 70 |
| 96 | *Standard test method for Water and Sediment in Middle Distillate fuels by Centrifuge* | ASTM D2709 | 70 |
| 97 | *Standard test method for Water and Sediment in Crude Oils by the Centrifuge Method (Laboratory Procedure)* | ASTM D4007, MPMS Ch.10.3 | 70 |
| 98 | Benseeni ja tolueeni sisalduse määramine pliivabas bensiinis, gaaskromatograafiliselt<br>*Liquid petroleum products. Unleaded petrol. Determination of benzene content by gas chromatography* | EN ISO 12177 | 170 |
| 99 | *Standard Test Method for Determination of Benzene and Toluene in Finished Motor and Aviation Gasoline by Gas Chromatography* | ASTM D3606 | 170 |
| 100 | *Standard Test Method for Cleanliness and Compatibility of Residual Fuels by Spot Test* | ASTM D4740 | 80 |
| 101 | Plii väikeste kontsentratsioonide määramine AAS meetodil<br>*Liquid petroleum products – Petrol – Determination of low lead concentration by atomic absorption spectrometry* | EN 237 | 140 |
| 102 | *Standard Test Method for Lead in Gasoline by Atomic Absorption Spectroscopy* | ASTM D3237 | 140 |
| 103 | *Standard Test Method for Electrical Conductivity of Aviation and Distillate fuels* | ASTM D2624 | 110 |
| 104 | Organilise värvaine Automate Blue 8GHF määramine<br>*Determination of marker Automate Blue 8GHF* | VV määrus 148/2014 Lisa 3 | 50 |
| 105 | Erimärgistusaine Solvent Yellow 124 määramine<br>*Determination of marker Solvent Yellow 124* | VV määrus 148/2014 Lisa 1 | 50 |
| 106 | Organilise värvaine Automate Red NR määramine<br>*Determination of marker Automate RED NR* | VV määrus 148/2014 Lisa 2 | 50 |
| 107 | Värvuse määramine ASTM skaala järgi<br>*Petroleum products – Determination of color (ASTM scale)* | ISO 2049 | 50 |
| 108 | *Standard Test Method for ASTM Color of Petroleum Products ( ASTM Color Scale)* | ASTM D1500/ IP196 | 55 |
| 109 | *Standard Test Method for Saybolt Color of Petroleum Products* | ASTM D156 | 55 |
| 110 | *Standard Test Method for Color of Petroleum Products by the Automatic Tristimulus Method* | ASTM D6045 | 65 |
| 111 | Orgaaniliste hapnikku sisaldavate ühendite ja summaarse orgaanilise hapnikusisalduse gaasikromatograafiline määramine<br>*Liquid petroleum products. Unleaded petrol. Determination of organic oxygenate compounds and total organically bound oxygen content by gas chromatography using column switching* | EN 13132 | 170 |

| | | | |
|---|---|---|---|
| 112 | *Standard Test Method for Determination of MTBE, ETBE, TAME, DIPE, tertiary-Amyl Alcohol and $C_1$ to $C_4$ Alcohols in Gasoline by Gas Chromatography* | ASTM D4815 | 185 |
| 113 | *Standard Test Method for Mercaptan Sulfur in Gasoline, Kerosine, Aviation Tyrbine and Distillate Fuel ( Potentiometric Method)* | ASTM D3227 / IP342 | 110 |
| 114 | Orgaanilist hapnikku sisaldavate ühendite ja summaarse orgaanilise hapnikusisalduse gaasikromatograafiline määramine (O.FID) *Liquid petroleum products – Unleaded petrol – Determination of organic oxygenate compound and total organically bound oxygen content by gas chromatography (O-FID)* | EN 1601 | 185 |
| 115 | *Standard Test Method for Determination of Oxygenates in Gasoline by Gas Chromatography and Oxygen Selective Flame Ionization Detection* | ASTM D5599 | 185 |
| 116 | Viskoossusindeksi arvutamine kinemaatilisest viskoossusest 40 °C ja 100 °C juures *Petroleum products – Calculation of viscosity index from kinematic viscosity* | ISO 2909 Calculation | 35 |
| 117 | *Standard Practice for Calculating Viscosity Index from Kinematic Viscosity at 40 °C and 100 °C* | ASTM D 2270 / IP226 | 35 |
| 118 | Aromaatsete süsivesinike klasside määramine keskmiste destillaatides kõrgsurvevedelikkromatograafiliselt *Petroleum produkcts – Determination of aromatic Hydrocarbon types in middle distillates – High performance liquid chromatography method with refractive index detection* | EN 12916, IP 391 | 175 |
| 119 | *Determination of Aromatic Hydrocarbon Types in Middle Distillates – High Performance Liquid Chromatography Method with Refractive Index Detection* | ASTM D6591 / IP548 | 175 |
| 120 | *Determination of Aromatic Hydrocarbon Types in Aviation Fuels and Petroleum Distillates - High Performance Liquid Chromatography Method with Refractive Index Detection* | ASTM D6379 / IP436 | 175 |
| 121 | *Standard Test Method for Manganese in Gasoline by Atomic Absorption Spectroscop* | ASTM D3831 | 155 |
| 122 | *Standard Test Method for Analysis of Barium, Calcium, Magnesium, and Zink in Unused Lubricating Oils by Atomic Absorption Spectrometry* | ASTM D4628 | 205 |
| 123 | Naftasaaduste destillaatide ja küllastumata süsivesinike broomiarvu määramine elektromeetrilisel meetodil *Petroleum products – Determination of bromine number of distillates and aliphatic olefins – Electrometric method* | ISO 3839 | 140 |
| 124 | *Standard Test Method for Bromine Numbers of Petroleum Distillates and Commercial Aliphatic Olefins by Electrometric Titration* | ASTM D1159 / IP130 | 300 |
| 125 | *Standard Test Method for Determination of Nickel, Vanadium, Iron, and Sodium in Crude Oils and Residual Fuels by Flame Atomic Absorption Spectrometry* | ASTM D5863 | 215 |
| 126 | *Standard Test Method for Determination of Aluminium and Silicon in Fuel Oils by Ashing, Fusion, Inductively Coupled Plasma Atomic Emission Spectrometry, and Atomic Absorption Spectrometry* | ASTM D5184 | 220 |
| 127 | Alumiiniumi ja räni määramiseks kütteõlides tuhastamisjärgselt ICP-AAS-iga *Petroleum products – Determination of aluminium and silicon in fuel oils – Inductively coupled plasma emission and atomic absorption spectroscopy method* | ISO 10478 | 215 |
| 128 | Määrimisvõime määramine. *Diesel fuel - Assessment of lubricity using the High-frequency reciprocating rig (HFRR) - Part 1 : Test method* | EN ISO 12156-1 | 175 |

| | | | |
|---|---|---|---|
| 129 | *Standard Test Method for Evaluating Lubricity of Diesel Fuels by the High-Frequency Reciprocating Rig (HFRR)* | ASTM D6079 | 175 |
| 130 | *Standard Test Method for Determination of Ethanol Content of Denatured Fuel Ethanol by Gas Chromatography* | ASTM D5501 | 200 |
| 131 | Rasvhapete metüülestrite (FAME) sisalduse määramine vedelate naftasaaduste keskmistes destillaatides infrapunaspektroskoopia meetod<br>*Liquid petroleum products - Determination of fatty acid methyl esters (FAME) content in middle distillates - Infrared spectroscopy method* | EN 14078 | 115 |
| 132 | Rasvhapete metüülestrite (FAME) happearvu määramine<br>*Oil and fat derivatives - Fatty Acid Methyl Esters (FAME) - Determination of acid value* | EN 14104 | 105 |
| 133 | Rasvhapete metüülestrite (FAME) joodiarvu määramine.<br>*Oil and fat derivatives - Fatty Acid Methyl Esters (FAME ) - Determination iodine value* | EN 14111 | 110 |
| 134 | Rasvhapte metüülesterite (FAME) naatriumisisalduse määramine AAS meetodil<br>*Fat and oil derivatives - Fatty Acid Methyl Esters (FAME) - Determination of sodium content by atomic absorption spectrometry* | EN 14108 | 150 |
| 135 | Rasvhapete metüülestridte (FAME) kaaliumisisalduse määramine AAS meetodil<br>*Fat and Oil derivatives - Fatty Acid Methyl Esters (FAME) - Determination of potassium content by atomic absorption spectrometry* | EN 14109 | 150 |
| 136 | Rasvhapete metüülestrite (FAME) metanoolisisalduse määramine .<br>*Fat and oil derivatives - Fatty Acid Methyl Esters (FAME) - Determination of methanol content* | EN 14110 | 180 |
| 137 | Rasvhapete metüülestrite (FAME) - Oksüdatsioonilise stabiilsuse määramine<br>*Fat and oil derivatives - Fatty Acid Methyl Esters (FAME) - Determination of oxidation stability (accelerated oxidation test)* | EN 14112 | 110 |
| 138 | Rasvhapete metüülestrid (FAME) - Estri ja linoleenhappe metüülestri sisalduse määramine<br>*Fat and oil derivatives – Fatty Acid Methyl Esters (FAME) – Determination of ester and linolenic acid methyl ester content* | EN 14103 | 190 |
| 139 | Loomsed ja taimsed rasvad ja õlid. Rasvhapete metüülestrite gaasikromatograafiline analüüs<br>*Animal and vegetable fats and oils – Analysis by gas chromatography of methyl esters of fatty acid* | EN ISO 12966-4<br>(EN ISO 5508) | 215 |
| 140 | Rasvhapete metüülestrid (FAME) kui mootorikütused diiselmootorite jaoks. Vaba ja kogu glütserooli ning mono-, di-ja triglütseriidide sisalduse määramine<br>*Automotive fuels Fatty Acid Methyl Esters (FAME) for diesel engines. Determination of free and total glycerol and mono, di-, and triglyceride content* | EN 14105 | 210 |
| 141 | *Test Method for Determination of Free and Total Glycerin in B-100 Biodiesel Methyl Esters by Gas Chromatography* | ASTM D6584 | 210 |
| 142 | Rasva ja õli derivaadid. Rasvhapete metüülestrid (FAME) - Vaba glütserooli määramine<br>*Fat and oil derivatives – Fatty Acid Methyl Esters (FAME) – Determination of free glycerol content* | EN 14106 | 190 |
| 143 | Rasva ja-õli derivaadid. Rasvhapete metüülestrid (FAME) diiselmootorite jaoks. Polüküllastumata ( ≥ 4 kaksiksidemete) rasvhapete metüülestrite (PUFA) määramine gaasikromatograafiliselt | EN 15779 | 190 |

| | | | |
|---|---|---|---|
| | *Petroleum products and fat and oil derivatives – Fatty acid methyl esters (FAME) for diesel engines - Determination of polyunsaturated (≥ 4 double bonds) fatty acid methyl esters (PUFA) by gas chromatography* | | |
| 144 | Vedelad naftasaadused. Kütuste keskmistest destillaatidest rasvhapete metüülestrite (FAME) eraldamine ja iseloomustamine. Vedelikkromatograafia (LC) / gaaskromatograafia (GC) meetod<br>*Liquid petroleum products - Separation and characterisation of fatty acid methyl esters (FAME) by liguid chromatography/gas chromatography (LC/GC)* | EN 14331 | 200 |
| 145 | Happearvu ja happesuse määramine rasvades ja õlides<br>*Animal and vegetable fats and oils - Determination of acid value and acidity* | EN ISO 660 | 80 |
| 146 | Niiskuse ja lenduvate ühendite sisaldus määramine rasvades ja õlides<br>*Animal and vegetable fats and oils - Determination of moisture and volatile matter content* | EN ISO 662 | 105 |
| 147 | Lahustumatute lisandite sisalduse määramine rasvades ja õlides<br>*Animal and vegetable fats and oils - Determination of insoluble impurities content* | EN ISO 663 | 100 |
| 148 | Loomsed ja taimsed rasvad ja õlid. Seebistumisarvu määramine<br>*Animal and vegetable fats and oils - Determination of saponification value* | EN ISO 3657 | 105 |
| 149 | Loomsed ja taimsed rasvad ning õlid - Joodiarvu määramine<br>*Animal and vegetable fats and oils - Determination of iodine value* | EN ISO 3961 | 115 |
| 150 | Mitteseebistuvate ainete määramine dietüüleetriga ekstraktsiooni meetodil<br>*Animal and vegetable fats and oils - Determination of unsaponifiable matter - Method using diethyl ether extraction* | EN ISO 3596 | 105 |
| 151 | *Animal and vegetable fats and oils - Determination of unsaponifiable matter - Method using hexane extractio* | EN ISO 18609 | 105 |
| 152 | Alküülnitraatide määramine diislikütustes<br>*Petroleum products - Determination of alkyl nitrate in diesel fuels - Spectrometric method* | EN ISO 13759 | 155 |
| 153 | *Standard Test Method for Alkyl Nitrate in Diesel Fuels by Spectrophotometry* | ASTM D4046 | 155 |
| 154 | *Standard Test Method for Amyl Nitrate in Diesel Fuels* | ASTM D1839 | 155 |
| 155 | Keskmiselt destilleeritud kütuste oksüdatsioonistabiilsuse määramine<br>*Automotive fuels - Fatty acid methyl ester (FAME) fuel and blends with diesel fuel - Determination of oxidation stability by accelerated oxidation method* | EN 15751 | 105 |
| 156 | Leekpunkti määramine suletud tiigli meetodil<br>*Determination of flash point - Rapid equilibrium closed cup method* | EN ISO 3679 | 90 |
| 157 | *Standard Test Methods for Flash Point by Small Scale Closed Cup Tester* | ASTM D3828 | 90 |
| 158 | Peroksiidarvu määramine<br>*Animal and vegetable fats and oils - Determination of peroxide value* | EN ISO 3960 | 115 |
| 159 | Peroksiidarvu määramine<br>*Animal and vegetable fats and oils - Determination of peroxide value - Potentiometric end-point determination* | EN ISO 27107 | 115 |
| 160 | Fosfori sisalduse määramine kolorimeetriliselt<br>*Animal and vegetable fats and oils - Determination of phosphorus content - Part 1: Colorimetric method* | EN ISO 10540-1 | 120 |
| 161 | *Freezing point of Aviation Fuels* | ASTM D2386 | 110 |

| | | | |
|---|---|---|---|
| 162 | Mittetahmava leegi kõrguse määramine<br>*Determination of the smoke point of kerosine* | ISO 3014 | 110 |
| 163 | *Smoke Point of Kerosine and Aviation Turbine Fuel* | ASTM D1322 / IP57 | 110 |
| 164 | *Color of Dyed Aviation Gasolines* | ASTM D2392 | 70 |
| 165 | *Water Reaction of Aviation Fuels* | ASTM D1094 | 60 |
| 166 | *Standard Test Method for Lead in Gasoline – Iodine Monochloride Method* | ASTM D3341 | 120 |
| 167 | *Standard Test Method for Oxidation Stability of Aviation Fuels (Potential Residue Method )* | ASTM D873 / IP 138 | 105 |
| 168 | *Standard Test Method for Chloride Ion In Water* | ASTM D512 | 120 |
| 169 | Anorgaaniliste kloriidide – potentsiomeetriline meetod<br>*Ethanol as a blending component for petrol – Determination of inorganic chloride – Potentiometric method* | EN 15484 | 120 |
| 170 | Klooriiooni määramine tööstuskemikaalides potentsiomeetrilise meetodiga<br>*Chemical products for industrial use. Determination of chloride ions - Potentiometric method* | ISO 6227 | 120 |
| 171 | Vesinikusisalduse määramine lennukikütustes.<br>*Estimation of Hydrogen Content of Aviation Fuels* | ASTM D3343<br>Calculation | 35 |
| 172 | Etanooli, denatureeritud kütuseetanooli ja kütuseetanooli (Ed75-Ed85) pH määramine<br>*Standard Test Method for Determination of pHe of Ethanol, Denatured Fuel Ethanol, and Fuel Ethanol (Ed75-Ed85)* | ASTM D6423 | 70 |
| 173 | *Ethanol as a blending component for petrol – Determination of pHe* | EN 15490 | 70 |
| 174 | Fosforisisalduse määramine ammooniummolübdaat spektromeetriliselt<br>*Ethanol as a blending component for petrol – Determination of phosphorus content – Ammonium molybdate spectrometric method* | EN 15487 | 115 |
| 175 | Fosforisisalduse määramine bensiinis<br>*Determination of Phosphorus in Gasoline* | ASTM D3231 | 115 |
| 176 | Etanool bensiini komponendina. Välimuse määramine visuaalselt.<br>*Ethanol as a blending component of petrol - Determination of appearance – Visual method* | EN 15769 | 35 |
| 177 | Etanool bensiini komponendina. – kuivjäägi määramiene gravimeetriliselt<br>*Ethanol as a blending component for petrol – Determination of total dry residue (involatile material) – Gravimetric method* | EN 15691 | 80 |
| 178 | *Hydrogen Sulfide and Mercaptan Sulfur in Liquid Hydrocarbons by Potentiometric Titration* | UOP 163-10 | 185 |
| 179 | Etanool bensiini komponendina ja etanool kütusena (E85). Elektrijuhtivuse määramine<br>*Ethanol blending component and ethanol fuel. Determination of electrical conductivity* | EN 15938 | 105 |
| 180 | *Dynamic Viscosity and Density of Liquid by Stabinger Viscometer (and the Calculation of Kinematic Viscosity)* | ASTM D7042 | 90 |
| 181 | *Determination of kinematic viscosity - Method by Stabinger type viscosimete* | EN 16896 | 90 |
| 182 | *Determination of kinematic viscosity - Method by Stabinger type viscometer* | EN ISO 23581 /<br>ISO 23581 | 90 |
| 183 | *Oxidation Stability of Spark Ignition Fuel – Rapid Small Scale Oxidation Test* | ASTM D7525 | 105 |
| 184 | *Oxidation Stability of Middle Distillate Fuels* | ASTM D7545 | 105 |
| 185 | *Liquid petroleum products – Middle distillates and fatty acid methyl ester (FAME) fuels and blends – Determination of oxidation stability by rapid small scale oxidation method* | EN 16091 | 90 |

| | | | |
|---|---|---|---|
| 186 | Naftasaaduste seebistusarvu määramine potentsiomeetrilisel tiitrimisel<br>*Petroleum Products - Determination of saponification number Part 1: Colour- indicator titration method* | ISO 6293-1 | 90 |
| 187 | Naftasaaduste seebistusarvu määramine potentsiomeetrilisel tiitrimisel<br>*Petroleum Products - Determination of saponification number Part 2: Potentiometric titration method* | ISO 6293-2 | 105 |
| 188 | *Saponification number of petroleum products by potentiometric titration* | ASTM D939 | 105 |
| 189 | *Standard Test Methods for Saponification Number of Petroleum Products* | ASTM D94 | 105 |
| 190 | Naftasaadused. Summaarse sette määramine jääkkütteõlides<br>*Petroleum products - Total sediment in residual fuel oil –*<br>*Part 1 : Determination by hot filtration*<br>*Part 2 : Determination using standard procedures for aging* | <br><br>ISO 10307-1<br>ISO 10307-2 / IP 390 | 160 |
| 191 | *Standard Test Method for Determination of Total Sediment in Residual Fuels* | ASTM D4870 /<br>IP 375 | 105 |
| 192 | Oksüdatsioonistabiilsuse määramine<br>*Animal and vegetable fats and oils - Determination of oxidative stability (accelerated oxidation test)* | EN ISO 6886 | 115 |
| 193 | *Standard Test Method for Naphthalene Hydrocarbons in Aviation Turbine Fuels by Ultraviolet Spectrophotometry* | ASTM D1840 | 120 |
| 194 | Ca, Mg ja Na, K määramine<br>*Fat and oil derivatives – Fatty acid methyl ester (FAME) – Determination of Ca, K, Mg and Na content by optical emission spectral analysis with inductively coupled plasma (ICP OES)* | EN 14538 | 165 |
| 195 | Fosfori määramine<br>*Fat and oil derivatives - Fatty Acid Methyl Esters (FAME) - Determination of phosphorus content by inductivity coupled plasma (ICP) emission spectrometry* | EN 14107 | 155 |
| 196 | Loomsed ja taimsed rasvad ja õlid. Veesisalduse määramine. Karl Fischeri meetod (püridiinivaba)<br>*Animal and vegetable fats and oils – Determination of water content – Karl Fischer method (pyridine free)* | EN ISO 8534 | 100 |
| 197 | *Standard Test Method for Determination Water Separation Characteristics of Aviation Turbine by Portable Separometer* | ASTM D3948 | 120 |
| 198 | Loomsed ja taimsed rasvad ja õlid. Fosfori määramine ICP<br>*Animal and vegetable fats and oils -- Determination of phosphorus content -- Part 3: Method using inductively coupled plasma (ICP) optical emission spectroscopy* | ISO 10540-3 | 165 |
| 199 | Leekpunkti määramine - Abeli suletud tiigli meetod<br>*Determination of flash point – Abel closed cup method* | EN ISO 13736/<br>IP 170 | 90 |
| 200 | *Determination of Aluminium, silicon, vanadium, nickel, iron, sodium, calcium, zinc and phosphorus in residual fuel oil by ashing, fusion and inductively coupled plasma emission spectrometry* | IP 501 | 310 |
| 201 | Süsiniku aromaatindeksi määramine<br>*Petroleum products — Fuels (class F) — Specifications of marine fuels - Ignition characteristics of residual marine fuels Calculated Carbon Aromaticity Index (CCAI)* | ISO 8217 Annex F<br>Calculation | 35 |
| 202 | Alumine ja ülemine eripõlemissoojus<br>*Petroleum products — Fuels (class F) — Specifications of marine fuels - Specific energy (Net/Gross)* | ISO 8217 Annex E<br>Calculation | 35 |
| 203 | *Ethanol as a blending component for petrol – Determination of higher alcohols, methanol and volatile impurities – Gas chromatographic method* | EN 15721 | 185 |

| | | | |
|---|---|---|---|
| 204 | *Ethanol as a blending component for petrol - Determination of phosphorus, copper and sulfur content – Direct method by inductively coupled plasma optical emission spectrometric (ICP-OES)* | EN 15837 | 215 |
| 205 | *Automotive fuels - Determination of manganese and iron content in unleaded petrol - Inductively coupled plasma optical emission spectrometry (ICP OES) method* | EN 16136 | 200 |
| 206 | *Petroleum products – Determination of low concentration of sulfur in automotive fuels – Energy dispersive X-ray fluorescence spectrometric method* | EN ISO 13032, ISO 13032 | 80 |
| 207 | *Automotive fuels – Determination of manganese content in unleaded petrol – Flame atomic absorption spectrometric method (FAAS)* | EN 16135 | 160 |
| 208 | *Ethanol as a blending component for petrol - Determination of inorganic chloride and sulfate content – Ion chromatographic method* | EN 15492 | 140 |
| 209 | *Automotive fuels – Determination of iodine value in fatty acid methyl ester (FAME) – Calculation method from gas chromatographic data* | EN 16300 | 185 |
| 210 | *Liquid petroleum products – Determination of hydrocarbon types and oxygenates in automotive – motor gasoline – Multidimensional gas chromatography method* | EN ISO 22854 (supersedes EN 14517) | 225 |
| 211 | *Standard Test Method for Hydrocarbon Types, Oxygenated Compounds and Benzene in Spark Ignition Engine Fuels by Gas Chromatography* | ASTM D6839 | 225 |
| 212 | *Determination of Asphaltenes (Heptane Insolubles) in Crude Petroleum and Petroleum Products* | ASTM D6560 / IP 143 | 160 |
| 213 | *Determination of Additive Elements, Wear Metals, and Contaminants in Used Lubricating Oils and Determination of Selected Elements in Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES)* | ASTM D5185 | 545 |
| 214 | *Standard Test Method for Total Nitrogen In Lubricating Oils and Fuel Oils By Modified Kjeldahl Method* | ASTM D3228 | 165 |
| 215 | *Determination of cold filter plugging point - Linear cooling bath method* | EN ISO 16329 | 90 |
| 216 | *Methods for Cone Penetration of Lubricating Grease* | ISO 2137, ASTM D937, ASTM D217 / IP 50 | 155 |
| 217 | *Determination of manganese and iron content in diesel - Inductively coupled plasma optical emission spectrometry (ICP OES) method* | EN 16576 | 190 |
| 218 | *Method for salts in crude oil (electrometric method)* | ASTM D3230,IP 265 | 115 |
| 219 | *Determination of colour - Lovibond tintometer method* | IP 17 | 105 |
| 220 | *Determination of colour in Lovibond units – Automatic method* | IP 569 | 105 |
| 221 | *Determination of vapour pressure by Reid method* | ASTM D323 | 150 |
| 222 | *Determination of aluminium, silicon, vanadium, nickel, iron, calcium, zinc and sodium in residual fuel oil by ashing, fusion and atomic absorption spectrometry* | IP 470 | 310 |
| 223 | *Method for Characteristic Groups in Rubber Extender and Processing Oil and Other Petroleum-Derived Oils by the Clay-Gel Adsorption Chromatographic Method*<br>*- Procedure Removal of Asphaltenes* | ASTM D2007 | 280<br>120 |
| 224 | *Method for Separation of Representative Aromatics and Nonaromatics Fractions of High-Boiling Oils by Elution Chromatography* | ASTM D2549 | 175 |
| 225 | *Animal and vegetable fats and oils – Determination of polyethylene polymers* | ISO 6656 | 175 |

| | | | |
|---|---|---|---|
| 226 | *Diesel engines – NOx reduction agent AUS 32*<br>*Test methods :*<br>*- Urea content*<br>*- Refractive index at 20°C*<br>*- Alkalinity as $NH_3$*<br>*- Biuret content*<br>*- Aldehyde content*<br>*- Insoluble matter content*<br>*- Phosphate content*<br>*- Trace element content by ICP-OES :*<br>*Aluminium; Calcium; Iron; Copper; Zinc; Chromium; Nickel; Magnesium; Sodium; Potassium; Phosphorus*<br>*- Determination of identity by FTIR spectrometry method* | ISO 22241-2 | <br><br>295<br>90<br>80<br>130<br>140<br>65<br>140<br>455<br><br><br>90 |
| 227 | *Standard Test Method for Refractive Index and Refractive Dispersion of Hydrocarbon Liquids* | ASTM D1218 | 80 |
| 228 | *Standard Test Method for Freezing Point of Aqueous Engine Coolants* | ASTM D1177 | 100 |
| 229 | *Standard Test Methods for Detecting Glycol-Base Antifreeze in Used Lubricating Oils* | ASTM D2982 | 115 |
| 230 | *Standard Test Method for Density or Relative Density of Engine Coolant Concentrates and Engine Coolants By The Hydrometer* | ASTM D1122 | 35 |
| 231 | *Standard Test Method for Boiling Point of Engine Coolants* | ASTM D1120 | 90 |
| 232 | *Standard Test Method for Percent Ash Content of Engine Coolants* | ASTM D1119 | 105 |
| 233 | *Standard Test Methods for pH of Water* | ASTM D1293 | 65 |
| 234 | *Standard Test Method for pH of Engine Coolants and Antirusts* | ASTM D1287 | 65 |
| 235 | *Standard Test Method for Analysis of Engine Coolant for Chloride (Sulfate) and Other Anions by Ion Chromatography* | ASTM D5827 | 165 |
| 236 | *Standard Test Methods for Water in Engine Coolant Concentrate by the Karl Fischer Reagent Method* | ASTM D1123 | 80 |
| 237 | *Standard Test Method for Reserve Alkalinity of Engine Coolants and Antirusts* | ASTM D1121 | 90 |
| 238 | *Standard Test Method for Trace Chloride Ion in Engine Coolants* | ASTM D3634 | 155 |
| 239 | *Standard Test Method for Silicon in Engine Coolant Concentrates by Atomic Absorption Spectroscopy* | ASTM D6129 | 175 |
| 240 | *Standard Test Method for Foaming Tendencies of Engine Coolants in Glassware* | ASTM D1881 | 125 |
| 241 | *Standard Test Method for Determination of Silicon and Other Elements in Engine Coolant by Inductively Coupled Plasma-Atomic Emission Spectroscopy* | ASTM D6130 | 320 |
| 242 | *Standard Test Method for Corrosion Test for Engine Coolants in Glassware* | ASTM D1384 | 340 |
| 243 | Etanooli ja vee lahuse tiheduse mõõtmine /<br>*Determination of density of ethanol - water Solution* | EC määrus 2870/2000 /<br>*EC regulation No 2870/2000* | 35 |
| 244 | *Method of determination the content of aromatic constituents in products with a distillation end point exceeding 315°C*<br>Procedure 1<br>Procedure 2 | EC 2019/C 0/01<br>Ch 27 Annex A<br>*Explanatory notes to the Combined Nomenclature of the European Union* | <br><br>485<br>240 |
| 245 | *Standard Test Methods for Electrical Conductivity and Resistivity of Water* | ASTM D1125 | 100 |

| | | | |
|---|---|---|---|
| 246 | *Standard Test Method for Determination of Individual Components in Spark Ignition Engine Fuels by 100-Metre Capillary High-Resolution Gas Chromatography* | ASTM D6729,<br>ASTM D6730 | 425 |
| 247 | *Determination of components by infrared spectrometry* | AN/FTIR-ATR | 285 |
| 248 | *Determination of hydrocarbons in the waste water* | Gravimetric method | 160 |
| 249 | *Standard Test Method for Congealing Point of Petroleum Waxes, Including Petrolatum* | ASTM D938 | 120 |
| 250 | Etanooli ja vee lahuse mahu mõõtmine /<br>*Determination of volume of ethanol – water solution* | OIML R22 | 100 |
| 251 | *Determination of low level metallic elements in vacuum gas oil/waxy distillates – Flame atomic absorption spectrophotometry (AAS) or inductively coupled plasma-emission spectrophotometry (ICP-ES) method* | IP 621<br>(IP PM CW:04) | 310 |
| 252 | *Standard Test Method for Determination of Organic Chloride Content in Crude Oil* | ASTM D4929(A) | 250 |
| 253 | *Total, Inorganic, and Organic Chloride in Hydrocarbons* | UOP Method 588 | 385 |
| 254 | *Chloride in Petroleum Distillates by Microcoulometry* | UOP 779 | 140 |
| 255 | *Trace Chloride, Fluoride, and Bromide in Liquid Organics by Combustion Ion Chromatography (CIC)* | UOP 991 | 275 |
| 256 | *Standard Test Method for Melting Point of Petroleum Wax (Cooling Curve)* | ASTM D87 | 90 |
| 257 | *Standard Test Method for Oil Content of Petroleum Waxes* | ASTM D721 | 120 |
| 258 | *Petroleum waxes -- Determination of oil content* | ISO 2908 | 120 |
| 259 | *Diene Value by Maleic Anhydride Addition Reaction* | UOP 326-08 | 105 |
| | Diene Value > 1,2<br>Diene Value < 1,2 | UOP 326-17 | 220<br>725 |
| 260 | *Standard Test Methods for Aniline Point and Mixed Aniline Point of Petroleum Products and Hydrocarbon Solvents* | ASTM D611<br>ISO 2977 | 100 |
| 261 | *Standard Test Method for Peroxide Number of Aviation Turbine Fuels* | ASTM D 3703 | 120 |
| 262 | *Standard Test Methods for pH of Water* | ASTM D1293 | 60 |
| 263 | *Standard Test Method for Trace Nitrogen in Liquid Hydrocarbons by Syringe/Inlet Oxidative Combustion and Chemiluminescence Detection* | ASTM D4629 | 110 |
| 264 | *Standard Test Method for Detection of Copper Corrosion from Lubricating Grease* | ASTM D4048 | 90 |
| 265 | *Determination Xylene Equivalent* | BP-230 | 155 |
| 266 | *Determination Toluene Equivalent* | EXXON 79-004 | 165 |
| 267 | *State of Peptization of Asphaltenes in Heavy Oil Streams (P - Value)* | SMS 1600 | 140 |
| 268 | *Mineral insulating oils - Methods for the determination of 2-furfural and related compounds* | IEC 61198 | 215 |
| 269 | *Determination of mercury in burner fuels derived from waste mineral oils – Combustion, amalgamation, cold vapour atomic absorption spectrometry method* | IP 594 | 220 |
| 270 | *Phenols and Thiophenols in Petroleum Products by Spectrophotometry* | UOP262 | 170 |
| 271 | *Test Method for Drop Melting Point of Petroleum Wax, Including Petrolatum* | ASTM D127 | 115 |
| 272 | *Liquid petroleum products - Determination of the sulfur content in Ethanol (E85) automotive fuel- Wavelength dispersive X-ray fluorescence spectrometric method* | EN 16997 | 100 |
| 273 | *Determination of hydrogen sulfide in fuel oils – Rapid liquid phase extraction method* | IP 570 | 215 |

| | | | |
|---|---|---|---|
| 274 | *Animal and vegetable fats and oils - Determination of copper, iron and nickel contents - Graphite furnace atomic absorption method* | EN ISO 8294 | 330 |
| 275 | *Дизельное топливо. Метод определения коэффициента фильтруемости /*<br>*Motor fuel. Determination of the filterability factor* | ГОСТ 19006 | 90 |
| 276 | *Standard Test Method for Sodium in Water by Atomic Absorption Spectrophotometry* | ASTM D4191 | 200 |
| 277 | *Animal and vegetable fats and oils - Determination of alkalinity* | EN ISO 10539 | 105 |
| 278 | *Standard Test Method for Sulfate Ion in Water* | ASTM D516 | 130 |
| 279 | *Standard Test Method for Determination of Benzene, Toluene, Ethylbenzene, p/m-Xylene, o-Xylene, C9 and Heavier Aromatics, and Total Aromatics in Finished Gasoline by Gas Chromatography* | ASTM D5580 | 215 |
| 280 | *Animal and vegetable fats and oils — Determination of anisidine value* | ISO 6885 | 160 |
| 281 | *Standard Test Method for Nitrogen in Liquid Hydrocarbons, Petroleum and Petroleum Products by Boat-Inlet Chemiluminescence* | ASTM D5762 | 120 |
| 282 | *Standard Test Method for Measurement of Fuel System Icing Inhibitors (Ether Type) in Aviation Fuels (FSII)* | ASTM D5006 | 90 |
| 283 | *Standard Test Method for Insolubles in Used Lubricating Oils* | ASTM D893 | 110 |
| 284 | *Determination of Denatonium Benzoate in Alcoholic Products by HPLC-UV* | ILIADe code 280 \| CLEN Method | 140 |
| 285 | *Determination of Isopropyl Alcohol and Methyl Ethyl Ketone in Alcoholic Products by GC-FID* | ILIADe 453:2019 \| CLEN Method | 185 |
| 286 | *Method Determination of Ethanol in Alcoholic Products by GC-FID* | ILIADe 143:2021 \| CLEN | 185 |
| 287 | *Standard Test Method for Trace Metals in Gas Turbine Fuels by Atomic Absorption and Flame Emission Spectroscopy* | ASTM D3605 | 275 |
| 288 | *Standard Test Method for Determination of Trace Elements in Middle Distillate Fuels by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES)* | ASTM D7111 | 300 |
| 289 | *Determination of the existent gum content of aviation turbine fuel – Jet evaporation method* | IP 540 | 90 |
| 290 | *Determination of the level of cleanliness of aviation turbine fuel — Portable automatic particle counter method* | IP 565 | 140 |
| 291 | *Standard Test Method for Sizing and Counting Particles in Light and Middle Distillate Fuels, by Automatic Particle Counter* | ASTM D7619 | 140 |
| 292 | *Determination of the concentration of dispersed particles in diesel fuel – Automatic Particle Counter (APC) Light Obscuration Method* | IP630 | 140 |
| 293 | *Contamination Particles in Oil (ISO Code)* | ISO 4406 (ISO Code) | 140 |
| 294 | *Determination of denaturing additives in ethyl alcohol* | COMMISSION IMPLEMENTING REGULATION (EU) 2018/1880 of 30 November 2018 | 470 |
| 295 | Saturates, Asphaltenes, Resins and Aromatics (SARA) | Layer Chromatography | 280 |
| 296 | *Standard Test Method for Determination of Vapor Pressure (VPX) of Petroleum Products, Hydrocarbons, and Hydrocarbon-Oxygenate Mixtures (Triple Expansion Method)* | ASTM D6378 | 75 |

| | | | |
|---|---|---|---|
| 297 | *Standard Test Method for Determination of Copper in Jet Fuels by Graphite Furnace Atomic Absorption Spectrometry* | ASTM D6732 | 90 |
| 298 | *Standard Test Method for Bromine Index of Petroleum Hydrocarbons by Electrometric Titration* | ASTM D2710 | 140 |
| 299 | *Standard Test Method for Determination of the Fatty Acid Methyl Esters Content of Aviation Turbine Fuel Using Flow Analysis by Fourier Transform Infrared Spectroscopy - Rapid Screening Method* | ASTM D7797 / IP583 | 110 |
| 300 | *Determination of fatty acid methyl esters (FAME) in aviation turbine fuel – HPLC evaporative light scattering detector method* | IP 590 | 140 |
| 301 | *Aromatics in Molex Process n-Paraffin Products by Ultraviolet Spectrophotometry* | UOP 495 | 115 |
| 302 | *Standard Test Method for Estimation of Mean Relative Molecular Mass of Petroleum Oils from Viscosity Measurements* | ASTM D2502 | 90 |
| 303 | *Standard Test Method for Calculation of Carbon Distribution and Structural Group Analysis of Petroleum Oils by the n-d-M Method* | ASTM D3238 | 175 |

| **Täisanalüüside hinnakiri/ Full test pricelist** | | | |
|---|---|---|---|
| **No** | **Test** | **Method** | **Price (EUR)** |
| 1 | Bensiini täisanalüüs / *Automotive fuels – Unleaded petrol (full test)* | EN 228 | 905 |
| 2 | Diislikütuse täisanalüüs / *Automotive fuels – Diesel (full test )* | EN 590 | 895 |
| 3 | Biodiislikütuse (FAME) täisanalüüs / *Fatty acid methyl esters (FAME) for use in diesel engines and heating applications (full test)* | EN 14214 | 1050 |
| 4 | Mootorikütused. Etanool mootoribensiini segukomponendina täisanalüüs / *Automotive fuels - Ethanol as a blending component for petrol (full test)* | EN 15376 | 800 |
| 5 | Mootorikütused. Etanoolkütus (E85) täisanalüüs / *Automotive fuels - Automotive ethanol (E85) fuel ( full test)* | EN 15293 | 860 |
| 6 | Kerge ja raske kütteõli täisanalüüs / *Fuel oil (full test )* | Keskkonnaministri määrus nr.45, 21.06.2013 | 725 |
| 7 | *Petroleum products - Fuels (class F) - Specifications of marine fuels (full test)* | ISO 8217 | 740 |
| 8 | Reaktiivkütus täisanalüüs / *Aviation Turbine Fuels - Jet (full test)* | DEF STAN 91-91; ASTM D1655 | 880 |
| 9 | Lennukibensiin täisanalüüs / *Aviation Gasoline (full test)* | DEF STAN 91-90; ASTM D910 | 770 |
| 10 | Automotive fuels - Paraffinic diesel fuel from synthesis or hydrotreatment (HVO) - Requirements and test methods | EN 15940 | 895 |
| 11 | Vastavushindamine ja sertifikaadi väljastamine | | 220 |

| Inspektsiooni hinnad / Inspection price list | | | |
|---|---|---|---|
| **No** | **Test** | **Method** | **Price (EUR)** |
| 1 | Koguste määramine/arvutamine / *Quantity measurement*<br>Naftasaadused / *Petroleum products*<br>Põlevkiviõli / *Shale oil*<br>Rasvhapete metüülestrid (FAME) / *Fatty acid methyl esters (FAME)*<br>Loomsed ja taimsed rasvad ja õlid / *Animal and vegetable fats and oils*<br>Vedelad tööstuslikud kemikaalid / *Liquid hydrocarbons* | API MPMS Ch.12.1.1. Calculation of Petroleum Quantites - Calculation of Static Petroleum Quantities - Upright Cylindrical Tanks and Marine Vessels.<br>API MPMS Ch.12.1.2. Calculation of Petroleum Quantities - Calculation of Static Petroleum Quantities – Calculation Procedures for Tank Cars.<br>API MPMS Chapter 11.1 ;<br>ASTM D1250; IP 200/08 Standard Guide for Use of the Petroleum Measurement Tables<br>ASTM D1555M Standard Test Method for Calculation of Volume and Weight of Industrial Aromatic Hydrocarbons and Cyclohexane [Metric] | 70 |
| 2 | Sügavuste mõõtmine mahutites / *Gauging*<br>Naftasaadused / *Petroleum Product*<br>Põlevkiviõli / *Shale oil*<br>Rasvhapete metüülestrid (FAME) / *Fatty acid methyl esters (FAME)*<br>Loomsed ja taimsed rasvad ja õlid / *Animal and vegetable fats and oils*<br>Vedelad tööstuskemikaalid / *Liquid hydrocarbons* | API MPMS Ch.3.1A - Tank Gauging. Standard Practice for the Manual Gauging of Petroleum and Petroleum Product | 60 |
| 3 | Temperatuuri mõõtmine elektroonilise termomeetriga / *Static temperature determination using portable electronic thermometers*<br>Naftasaadused / *Petroleum products*<br>Põlevkiviõli / *Shale oil*<br>Rasvhapete metüülestrid (FAME) / *Fatty acid methyl esters (FAME)*<br>Loomsed ja taimsed rasvad ja õlid / *Animal and vegetable fats and oils*<br>Vedelad tööstuskemikaalid / *Liquid hydrocarbons* | API MPMS Ch.7. Temperature Determination.<br>ISO 4268 Petroleum and liguid petroleum products - Temperature measurements – Manual method | 60 |
| 4 | Koguste mõõtmine raudtee mahutites / *Gauging in tank cars*<br>Naftasaadused / *Petroleum products*<br>Põlevkiviõli / *Shale oil*<br>Rasvhapete metüülestrid (FAME) / *Fatty acid methyl esters (FAME)*<br>Loomsed ja taimsed rasvad ja õlid / *Animal and vegetable fats and oils*<br>Vedelad tööstuskemikaalid / *Liquid hydrocarbons* | API MPMS Ch.3.2. Tank gauging. Standard Practice for Gauging Petroleum and Petroleum Products in Tank Cars.<br>Таблицы калибровки железнодорожных цистерн / *Tables of calibration tank wagons*. Утв. Департ. Вагон. Хозяйства. МПС России 2003 | 40 |
| 5 | Vedelike mahu ja massi mõõtmine autotsisternis / *Measurement of liquid mass and volume in road tanks* | OIML R80 Edition 1989 (E) Road and rail tankers. Annex 1; Measurement of liquid mass and volume in road tanks. | 40 |
| 6 | Koguste määramine laevamahutites / *Quantity measurement on Board Tank Vessels*<br>Naftasaadused / *Petroleum products*<br>Põlevkiviõli / *Shale oil*<br>Rasvhapete metüülestrid (FAME) / *Fatty acid methyl esters (FAME)* | API MPMS. Ch.17.2. Manual of Petroleum Measurement Standards. Marine Measurement. Measurement of Cargoes On Board Tank Vessels.<br>API MPMS Ch.17.4. Manual of | 1400 |

| | | | |
|---|---|---|---|
| | Loomsed ja taimsed rasvad ja õlid / *Animal and vegetable fats and oils*<br>Vedelad tööstuskemikaalid / *Liquid hydrocarbons* | Petroleum Measurement Standards. Marine Measurement.<br>Method for Quantification of Small Volumes on Marine Vessels (OBQ/ROB) | |
| 7 | Nafta ja naftasaaduste mõõtmine arvestiga ja arvutus mahule 15°C juures / *Calculation of Petroleum Quantities Using Dynamic Measurement Methods* | API MPMS : Ch. 5, Ch.12.2.1 , Ch.12.2.2 , Ch.13.2;<br>EVS-EN ISO 4267-2 | 0,05/$m^3$ |
| 8 | Kauba massi mõõtmine kaalumisega / *Mass measurement by weighing* | EVS 745 Kauba ja materjali massi mõõtmine kaalumisega. Mõõtemetoodika / *Goods and materials mass measurement by weighing. Measurement method* | 250 |
| 9 | Proovivõtmine / *Sampling*<br>Naftasaadused / *Petroleum products*<br>Vedelad tööstuskemikaalid / *Liquid hydrocarbons*<br>Rasvhapete metüülestrid (FAME) / *Fatty acid methyl esters (FAME)*<br>Põlevkiviõli / *Shale oil*<br>Loomsed ja taimsed rasvad ja õlid / *Animal and vegetable fats and oils* | API MPMS Ch.8.1. Standard Practice for Manual Sampling of Petroleum and Petroleum Products.<br>EN ISO 3170 Petroleum liquids - Manual sampling.<br>ASTM D4057 Petroleum and petroleum products. Manual sampling.<br>EN 14275 Automotive fuels – Assessment of petrool and diesel fuel quality – Sampling from retail site pumps and commersial site fuel dispensers.<br>EN ISO 5555 Animal and vegetable fats and oils – Sampling | 25 |
| 10 | Etanooli mahu ja massi koguse mõõtmine ja arvutamine / *Ethanol measurement, calculation of the volume and quantity*<br>Alkoholid, alkoholilahused, vee ja etanooli lahus, vee ja alkoholi segu / *Alcohols, alcoholic solutions, water and ethanol solution, mixture of water-alcohol* | Etanooli sisalduse määramine tiheduse kaudu kasutades OIML R22 tabelit / *Strength and density calculations based on OIML R22* | 60 |

Lisa info:
Mittekajastatud käesolevas hinnakirjas analüüside hinnad esitakse päringu alusel.
Juhul, kui objekt asub Tallinnast väljaspool, lisandub ühiku hinnale transpordikulu 0,85 euro/km.
**Käesolevas hinnakirjas toodud hinnad ei sisalda käibemaksu.**

**OÜ Analiit, Pähklimäe 8, 74114, Maardu, Eesti**
**tel: 53488837**
**e-post: mail@analiit.ee**
**www.analiit.ee**