

Materials List for:

Original Experimental Approach for Assessing Transport Fuel Stability

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Materials

Name	Company	Catalog Number	Comments
Rancimat	Metrohm	Rancimat 843	Standard test apparatus for diesel and biodiesel oxidation stability
PetroOxy	Petrotest	13-3000	Standard test apparatus for diesel and biodiesel oxidation stability
FTIR spectrometer	Brucker	Brucker IFS66	Apparatus for chemical composition analysis through chemical functions identification
Total acid number titrator	Metrohm	Titrimo Plus 848	Test apparatus for diesel and biodiesel oxidation stability
Gas Chromatograph	Agilent	6890 Agilent GC/MS	Analytical chemistry technique used to separate the compounds present in a sample
Gas Chromatography column	Agilent	DB-FFAP column	Component of Gas Chromatogram that separates the molecules
Mass Spectrometer	Agilent	5973 inert mass spectrometer	Analytical chemistry technique used to identify the compounds present in a sample
Methyl Oleate 99%	SIGMA ALDRICH	311111 ALDRICH	Pure reagent
EMAG-free ultra-low sulfur diesel	Total ACS	CEC RF-06-03	Commercial Diesel fuel
Rapeseed methyl Ester	ASG	Biodiesel 3826 00 10	Commercial Biodiesel
Isopropanol>99.9%	VWR	84881.290	Solvent for Total Acid Number determination
KOH 0.1 M in isopropanol	VWR	1.05544.1000	Titration agent for Total Acid Number determination