



REAGENT LIST for ASTM D664

Whether you are analyzing crude oil or finished lubricants, GFS Chemicals offers a wide range of laboratory chemicals to meet your testing needs. Designed to save you time and money, choose GFS premixed solvents for various ASTM methods such as D664, D2896, D4739, D3227, D8045 and D1159.

Test Method A for Determination of Acidic Constituents in Petroleum Products & Lubricants.

CATEGORY	DESCRIPTION	ITEM	PART NO.	SIZE
Premixed Solvent (Toluene/IPA/H ₂ O)	ASTM D664 SOLVENT	1281	74911	4 L
	Suitable for D974 & D3339 too.	1281	74913	20 L
Titrant	0.1M Potassium Hydroxide in Isopropyl Alcohol	1972	60883	1 L
Titrant Standardization	KHP (Potassium Acid Phthalate)	554	60000	100 g
CO ₂ absorber	Soda Lime, Indicating, 4-8 mesh	3021	66356	500 g
Electrode filling solution	1M Lithium Chloride in Ethanol	5805	26751	100 mL
Buffers	pH 4	1634	18411	500 mL
	pH 7	1639	18511	500 mL
	pH 10	1645	18571	500 mL
	4/7/10 Kit. Two 500 mL bottles of each pH.	2549	18331	3 L
OPTIONS	DESCRIPTION	ITEM	PART NO.	SIZE
KOH	Potassium Hydroxide, pellets	629	60801	500 g
2-propanol	Isopropyl Alcohol, [H ₂ O]<0.1%	2489	46133	4 L
		2489	46134	4 x 4 L
Toluene	Toluene, ACS	1052	74952	4 L
		1052	74953	4 x 4 L
Electrode cleaning	Xylenes, ACS	1059	76771	500 mL
Electrode cleaning	Heptane, Reagent grade	1682	41723	500 mL
Electrode cleaning	Chloroform, alcohol stabilized	3777	10671	500 mL
Electrode regeneration	0.1M HCl	722	43904	1 L

ASTM D664-18e2, Standard Test Method for Acid Number of Petroleum Products by Potentiometric Titration, ASTM International, West Conshohocken, PA, 2018, www.astm.org



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TESTING TO ASTM E203, D4928, D6304, D1533 OR E1064?

A small selection of our offering for petrochemical/lubricant KF moisture analysis

VOLUMETRIC			
1-Component Reagents			
1601	2 mg/mL Titrant		
1884	1 mg/mL Titrant		
2978	Solvent for Oils, 1-Component		
2-Component Reagents			
1603	2 mg/mL Titrant, 2-Component Solvent Required		
1602	1 mg/mL Titrant, 2-Component Solvent Required		
2991	Solvent for Oils, 2-Component		
Water Standards			
2303	10.0 mg/g	1.00%	10,000 ppm
2302	1.0 mg/g	0.1%	1000 ppm
2301	0.1 mg/g	0.01%	100 ppm
2311	0.05 mg/g	0.005%	50 ppm
Desiccants			
963	Molecular Sieves, 3Å, 8-12 Mesh Beads		
1986	Silica Gel w/30% Indicating Beads		

COULOMETRIC	
For Generators with a Diaphragm	
1612	General Purpose. Chloroform Based. Analyte*
1607	Biodiesel, Non-Polar Materials, Oils. Analyte
5202	Universal Crude Oil Analyte
1613	Generator Solution, Catholyte
2321	Generator Solution, Catholyte
5605	Crude Oil Kit. 8x100mL 5202 and 8x5mL 2321
For Generators without a Diaphragm	
1612	General Purpose. Chloroform Based. Analyte*
1671	General Purpose. Chloroform Free. Analyte
1889	Reagent for use with KF Oven
Co-Solvents	
3777	Chloroform
1059	Xylene
1052	Toluene
3482	1-Decanol
*1612 is suitable for both types of generators.	