

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, D8045, and D1159.

TEST METHOD A FOR DETERMINATION OF ACIDIC CONSTITUENTS IN PETROLEUM PRODUCTS & LUBRICANTS

CATEGORY	DESCRIPTION	SIZE	ITEM	SKU
Premixed Solvent (Toluene/IPA/H ₂ O)	ASTM D664 SOLVENT	4 L	1281	74911
	Suitable for D974 & D3339	20 L	1281	74913
Titrant	0.1M Potassium Hydroxide in Isopropyl Alcohol	1 L	1972	60883
Titrant Standardization	KHP (Potassium Acid Phthalate)	100 g	554	60000
CO ₂ Absorber	Soda Lime, Indicating, 4-8 Mesh	500 g	3021	66356
Electrode Filling Solution	1M Lithium Chloride in Ethanol	100 mL	5805	26751
Buffers	pH 4	500 mL	1634	18411
	pH 7	500 mL	1639	18511
	pH 10	500 mL	1645	18571
	4/7/10 Kit. (2) 500 mL bottles of each pH.	3 L	2549	18331
OPTIONS	DESCRIPTION	SIZE	ITEM	SKU
KOH	Potassium Hydroxide, Pellets	500 g	629	60801
2-Propanol	Isopropyl Alcohol, [H ₂ O]<0.1%	4L	2489	46133
		(4) 4 L	2489	46134
Toluene	Toluene, ACS	4L	1052	74952
		(4) 4 L	1052	74953
Electrode Cleaning	Xylenes, ACS	500 mL	1059	76771
	Heptane, Reagent Grade	500 mL	1682	41723
	Chloroform, Alcohol Stabilized	500 mL	3777	10671
Electrode Regeneration	0.1M HCL	1 L	722	43904

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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WATERMARK® Karl Fischer reagents can be found in petrochemical & lubricant laboratories around the world.

Ready to experience GFS Chemicals quality in your lab? Call 800.858.9682 and our expert sales team will arrange a sample for you to try in your lab.

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

See a sample of our offerings for petrochemical/lubricant KF Moisture analysis below!

VOLUMETRIC

ONE-COMPONENT REAGENTS

1601	2 mg/mL Titrant
1884	1 mg/mL Titrant
2978	Solvent for Oils, 1-Component

TWO-COMPONENT REAGENTS

1603	2 mg/mL Titrant, 2-Component Solvent Req.
1602	1 mg/mL Titrant, 2-Component Solvent Req.
2991	Solvent for Oils, 2-Component

WATER STANDARDS

2303	10.0 mg/g
2302	1.0 mg/g
2301	0.1 mg/g
2311	0.05 mg/g

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; 8x10mL (5202) & 8x5mL (2321)

For Generators without a Diaphragm

1671	General Purpose, Chloroform Free. Analyte
1889	Reagent for use with KF Oven

Co-Solvents

3777	Chloroform
1059	Xylene
1052	Toluene
3482	1-Decanol

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