

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

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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## 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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