



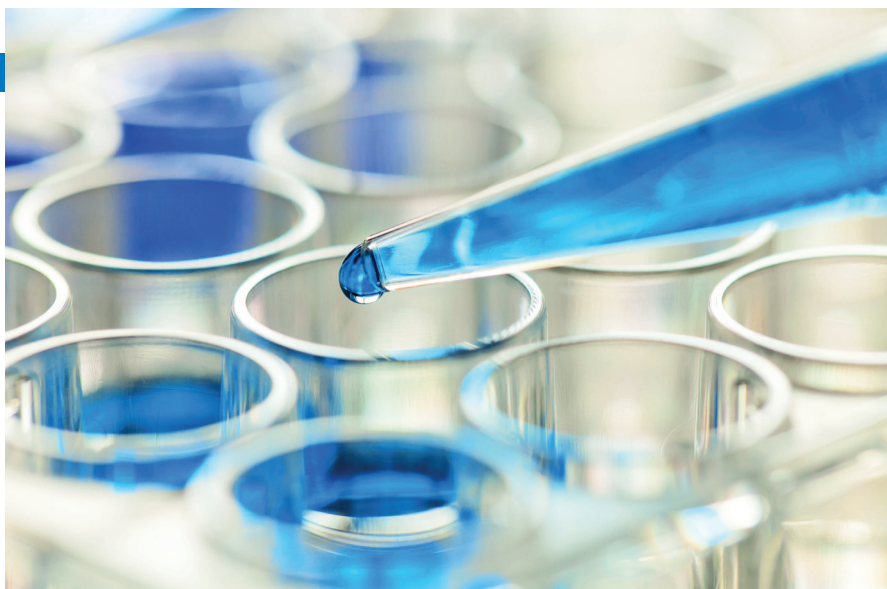
Food & Beverage, Environmental, Petrochemical

Laboratory Chemical Guide

For over 40 years, Ricca Chemical Company has been the choice manufacturer of analytical solutions and standards of the laboratory community. Our extensive breadth of line and custom capabilities allow us to supply solutions across several markets such as the Food and Beverage, Petrochemical, and Environmental industries. Many of our products conform to test methods found in the EPA, APHA, ASTM and ACS compendia. With our ISO 9001 certification, tight specifications, NIST traceability, degreed chemists, and now our ISO 17025 accreditation for the testing of pH Buffers and Conductivity Standards, Ricca Chemical Company manufactures quality you can trust.



RIGHT • READY • RICCA



What do you Say?

Discovery Questions

- What solutions do you use in your regular processes?
- Who are your current suppliers? How did you select them?
- Do you have any special size or packaging needs?
- What kind of instrumental analyses do you perform?
- Are you looking for tighter specifications with less lot-to-lot variability?
- What types of standards do you use in your testing?
- Do you use large quantities all at once or small amounts periodically?
- Are you buying your solutions through multiple suppliers?

Wants or Needs:

- How would you benefit from utilizing solutions that are readily available and meet industry-accepted requirements?
- If you could add or improve something to help you in your work, what would that be?
- What other factors are important to your lab development?
- Where might there be challenges in time, resources or expertise?
- What improvements would you like to see made to the dispensing/packaging of your solutions?
- Do you currently have a secondary source for your solutions supplier?
- Are you happy with the stock availability of your current supplier?

Selling Tactics:

What's Holding Your Back:

- What is keeping you from trying RICCA products?
- If I could show you how RICCA can make your life easier, would anything hinder you from giving us a try?

Closing Questions

- How much easier would your life be if you could have a product customized to your exact specs and packaging requirements?
- How would tighter specifications improve your outcomes/product?
- What else would be important for us to consider?

Buffers

C027R03	Acetate Buffer, for Iron Analysis (Phenanthroline Method) 1L
C585N53	Phosphate Buffer Solution, for Chlorine Determination (DPD Methods) 1L
C998F03	Buffer, Reference Standard, pH 4.00 ± 0.01 at 25°C, Clear 500mL
4120R50	Buffer, Reference Standard, pH 4.00 ± 0.01 at 25°C (Color Coded Red) 500 mL
C998F26	Buffer, Reference Standard, pH 7.00 ± 0.01 at 25°C, Clear 500 mL
4120R56	Buffer, Reference Standard, pH 7.00 ± 0.01 at 25°C (Color Coded Yellow) 500 mL
C001R78	Buffer, Reference Standard, pH 10.00 ± 0.01 at 25°C, Clear 500 mL
4120R62	Buffer, Reference Standard, pH 10.00 ± 0.01 at 25°C (Color Coded Blue) 500 mL

Reagents and Standards

C998G74	COD Standard, 1 mL = 0.3 mg Chemical Oxygen Demand (300 ppm COD) 500 mL
C317W92	EDTA Titrant, 0.0100 Molar (M/100) 1L
C344C08	Fluoride Standard, 1 mL = 0.1 mg F ⁻ , 100 ppm F ⁻ 500 mL
C998Z65	Turbidity Standard, Primary Standard Stock Formazin Suspension, 4000 NTU 1L
C865D29	Water Hardness Buffer, with Magnesium EDTA 500 mL
C311W05	Water Hardness Indicator 120 mL

Spectroscopy Standards

C047C43	Arsenic AA Standard, 1 mL = 1 mg As (1,000 ppm As) 100 mL
C998F67	Calcium AA Standard, 1 mL = 1 mg Ca (1,000 ppm Ca) 100 mL
C442A73	Lead AA Standard, 1 mL = 1 mg Pb (1,000 ppm Pb) 100 mL
C703Q28	Sodium AA Standard, 1 mL = 1 mg Na (1,000 ppm Na) 100 mL
C417Y12	Iron ICP Standard, 1 mL = 1 mg Fe (1,000 ppm Fe) 100 mL
C467N92	Magnesium ICP Standard, 1 mL = 1 mg Mg (1,000 ppm Mg) 100 mL

Conductivity Standards

C998N97	Conductivity Standard, 10 µS/cm (10 µmho/cm) at 25°C, 4.7 ppm as NaCl 500 mL
C997A47	Conductivity/TDS Standard, 100 µS/cm (100 µmho/cm) at 25°C, 47.2 ppm as NaCl 500 mL
C001Y95	Conductivity/TDS Standard, 1 mS/cm (1000 µmho/cm) at 25°C, 495 ppm as NaCl 500 mL
C997C32	Potassium Chloride Conductivity Standard, 500 µS/cm (500 µmho/cm) at 25°C 1L
C997C03	Potassium Chloride Conductivity Standard, 10 mS/cm (10,000 µmho/cm) at 25°C 1L
C997C37	Potassium Chloride, 0.0100 Molar (M/100), 1412 µS/cm (1412 µmho/cm) at 25°C 1L

High Purity Water

C998Z92	Water, USP/EP Purified, 10L
C998Z93	Water, USP/EP Purified, 20L
C998Z94	Water, USP/EP Purified, 4L
C864T27	Water ASTM Type I, II, III, IV, 10L
C864T46	Water ASTM Type I, II, III, IV, 20L
C864T43	Water ASTM Type I, II, III, IV, 4L

Acidity and Alkalinity

C998D35	Bromocresol Green Indicator, 0.1% (w/v) Aqueous Solution, 120 mL
C999T12	Bromocresol Green-Methyl Red Mixed Indicator, Alcoholic 120 mL
C579L65	Phenolphthalein Indicator, 0.5% (w/v) in 50% (v/v) Alcohol, Neutralized 120 mL
C604H32	Potassium Acid Phthalate, 0.0500 Normal (N/20) 1L
C998V34	Sodium Carbonate, 0.0500 Normal (N/20), 1 mL = 2.5 mg CaCO ₃ 1L
C716D64	Sodium Hydroxide, 0.100 Normal (N/10) 10L
C998Y41	Sulfuric Acid, 0.100 Normal (N/10) 10L
C998W30	Sodium Hydroxide, 0.0833 Normal 20L

Iodine Number of Fats and Oils

C999W06	Iodine-Bromine Solution, Hanus, for Iodine Absorption Number of Fats and Oils 120 mL
C999W04	Iodine Monochloride Solution, Wijs, for Iodine Absorption Number of Fats and Oils 1L

Kjeldahl Reagents for Nitrogen and Protein Analysis

C998C71	Boric Acid, 2% (w/v) Aqueous Solution with Mixed Indicator 10L
C999V32	Digestion Reagent, with Copper Catalyst, for Kjeldahl Nitrogen Analysis 1L
C999V34	Digestion Reagent, with Mercury Catalyst, for Kjeldahl Nitrogen Analysis 1L
C998L99	Hydrochloric Acid, 0.1142 Normal, for Kjeldahl Analysis of Proteins 20L
C715T34	Sodium Hydroxide, 40% (w/v) Aqueous Solution, Nitrogen Free 20L
C999P63	Sodium Hydroxide-Thiosulfate, 50%-2.5% (w/v) Aqueous Solution, using Copper Catalyst 10L

Microbial Testing

C998L55	Gram's Iodine, dilute Lugol's Iodine, for Gram Staining 100 mL
C998L21	Gentian Violet, Hucker Formulation, for Gram Staining 120 mL
C998T57	Safranin, Aqueous-Alcoholic, Counterstain for Gram Staining 120 mL
C999T05	Acetone-Alcohol, 1 + 1 Decolorizer Solution, for use in Gram Staining 1L
C999S15	Methylene Blue, Loeffler Formulation (Loeffler's Alkaline Methylene Blue), for Staining and Differentiation of Acid Fast Organisms in Smears 500 mL
C999S96	Methylene Blue Milk Smear Stain, Modified Newman-Lampert Formulation

Saponification Number of Petroleum Products

C864T46	Water, ACS Reagent Grade, ASTM Type I, ASTM Type II, 20L
C999L18	Reagent Alcohol, ACS Reagent Grade, Anhydrous, Absolute 1L
C395N80	Hydrochloric Acid, 0.500 Normal (N/2) 1L
C999W47	Potassium Hydroxide, 0.500 Normal (N/2) in Denatured Alcohol 500 mL

Base Number Determination of Petroleum Products

C999U73	Perchloric Acid, 0.100 Normal (N/10) in Glacial Acetic Acid 1L
C999W76	Sodium Perchlorate Electrolyte, Saturated Solution in Glacial Acetic Acid 500 mL
C999L52	Nonaqueous Buffer Stock Solution A, for Acid Number of Petroleum Products 500 mL
C999L53	Nonaqueous Buffer Stock Solution B, for Acid Number and Neutralization Number of Petroleum Products 500 mL

Acidity and Alkalinity

C999L32	Hydrochloric Acid, 0.100 Normal (N/10) in Isopropyl Alcohol 1L
C999L34	Hydrochloric Acid, 0.200 Normal (N/5) in Isopropyl Alcohol 1L
C998P26	Methyl Orange Indicator, 0.1% (w/v) Aqueous Solution 120 mL
C998R94	Potassium Chloride, Saturated Aqueous (approximately 4 Molar) 1L
C999T37	p-Naphtholbenzein Indicator, 1% (w/v) in Titration Solvent 120 mL
C999T55	Titration Solvent, for Neutralization Number of Petroleum Products 4L
C999L56	Potassium Hydroxide, 0.100 Normal (N/10) in Isopropyl Alcohol 20L

Salts in Crude Oil

C999R70	Calcium Chloride, 10 g/L in Mixed Alcohol Solvent, for determination of Salts in Crude Oil 1L
C999R61	Alcohol Solvent Mixed Solution, for determination of Salts in Crude Oil 4L
C999S03	Magnesium Chloride, 10 g/L in Mixed Alcohol Solvent 1L
C999S74	Sodium Chloride, 10 g/L in Mixed Alcohol Solvent, for determination of Salts in Crude Oil 1L

Bromine Index of Petroleum Hydrocarbons

C998D20	Bromate-Bromide Solution, 0.0500 Normal (N/20) 1L
C620B90	Potassium Iodide, 15% (w/v) Aqueous Solution, Stabilized 500 mL
C998X25	Sodium Thiosulfate, 0.0500 Normal (N/20) 4L

Sulfur in Petroleum Products

C088R15	Barium Chloride, 10% (w/v) Aqueous Solution 500 mL
C999Q29	Sodium Hydroxide, 10% (w/v) Aqueous Solution (100 g/L) 1L
C998W26	Sodium Hydroxide, 0.0500 Normal (N/20) 4L
C000M84	Methyl Purple Indicator Solution 120 mL
C998V55	Sodium Carbonate, 5% (w/v) Aqueous Solution 1L
C864T46	Water, ACS Reagent Grade, ASTM Type I, ASTM Type II 20L
C999L59	Silver Nitrate, 0.0100 Normal (N/100) in Isopropyl Alcohol 1L
C001G31	Silver Nitrate, 0.100 Normal (N/10) in Isopropyl Alcohol 4L

Analysis of Oil Soluble Petroleum Sulfonates

C999M79	Hydrochloric Acid, 25% (v/v) Aqueous Solution (1 + 3) 1L
C395H64	Hydrochloric Acid, 50% (v/v) Aqueous Solution (1 + 1) 4L
C998P26	Methyl Orange Indicator, 0.1% (w/v) Aqueous Solution 120 mL
C716D66	Sodium Hydroxide, 0.100 Normal (N/10) 20L
C998Y52	Sulfuric Acid, 0.200 Normal (N/5) 500 mL

Phosphorus in Lubricating Oils and Additives

C395N33	Hydrochloric Acid, 1.00 Normal 4L
C716D66	Sodium Hydroxide, 0.100 Normal (N/10) 20L
C999S78	Thymol Blue TS/RS, 0.1% (w/v) in Alcohol 120 mL
C001C23	Hydrochloric Acid, 0.0100 Normal (N/100) 1L
C999S08	Methyl Red TS, 0.1% (w/v) Alcoholic Solution 120 mL
C999T94	Nitric Acid, 50% (v/v) Aqueous Solution (1 + 1) 500 mL

Analysis of Lubricating Grease

C999M79	Hydrochloric Acid, 25% (v/v) Aqueous Solution (1 + 3) 1L
C395N80	Hydrochloric Acid, 0.500 Normal (N/2) 1L
C999S08	Methyl Red TS, 0.1% (w/v) Alcoholic Solution 120 mL
C544K08	Nitric Acid, 20% (v/v) Aqueous Solution (1 + 4) 1L
C999W47	Potassium Hydroxide, 0.500 Normal (N/2) in Denatured Alcohol 4L
C999Q56	Sodium Hydroxide, 24% (w/v) Aqueous Solution 500 mL
C998W25	Sodium Hydroxide, 0.0500 Normal (N/20) 20 L
C999V63	Sulfuric Acid, 20% (v/v) Aqueous Solution (1 + 4), Reagent Grade 1L

Acidity in Aviation Turbine Fuel

C999L30	Hydrochloric Acid, 0.200 Normal (N/5) in Isopropyl Alcohol 500 mL
C999T37	p-Naphtholbenzein Indicator, 1% (w/v) in Titration Solvent 120 mL
C998R94	Potassium Chloride, Saturated Aqueous (approximately 4 Molar) 1L
C999T55	Titration Solvent, for Neutralization Number of Petroleum Products 4L

Bromine Numbers of Petroleum Distillates and Commercial Aliphatic Olefins

C999V20	Bromine Number Titration Solvent, Dichloromethane Formulation 2.5L
C726C12	Sodium Thiosulfate, 0.100 Normal (N/10) 4L
C620B90	Potassium Iodide, 15% (w/v) Aqueous Solution, Stabilized 500 mL
C998D24	Bromate-Bromide Solution, 0.500 Normal (N/2), 0.250 Molar as Br ₂ 1L

Custom Solutions

We welcome the opportunity to assist you by formulating a product to meet your specifications and your timeline for delivery.

Custom-Made Reagent Solutions and Formulations

- Quality Control Chemists can meet your special test requirements
- Raw materials based on your specifications
- Manufactured precisely to your requirements

Custom-Made Batch Sizes

- 1 ounce to almost 1,600 gallons are available
- No job is too small or too big

Custom Packaging

- Hundreds of bottle, cap, and seal packaging options including: drums, recyclable containers, and media bags

Custom Kits

- Convenience of having all of your test reagents for one test method available in one kit

Custom Labeling

- Custom label design or design adaptation to meet your graphic requirements

Manufacturing Sites

- Arlington, Texas
- Pocomoke City, Maryland
- Batesville, Indiana

Benefits of Ricca

- One-stop shopping – options that meet all of your requirements
- Savings in time, effort, cost, and inventory space by using ready-made solutions
- ISO 9001:2008 certified
- Standardized and certified traceable to NIST Standard Reference Material
- Unique lot numbers and expiration dates printed on each label
- Detailed CofAs, SDS, and labels available for all products

We can custom make any product you need. Some of our most common products include:

- Buffers
- Standards
- Acids, Bases, and Titrants
- Spectroscopy/ICP Blends
- USP/EP Reagents



We Believe You Are Important
— How Can We Help?

800.345.2100 • 800.345.5232 fax
PO Box 99 • Swedesboro, NJ 08085
thomassci.com • value@thomassci.com



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