



## Solvents



### RIGHT

Uncompromising Quality

### READY

3 Manufacturing/  
Inventory Locations

### RICCA

Tightest Tolerances in the Industry,  
Lowest Lot-to-Lot Variability

Ricca is the premier choice for all your Solvent needs. We offer a broad line of solvent types, grades, packaging and testing configurations. With multiple facilities and many products in stock ready to ship we can meet your needs with rapid delivery to anywhere in North America. *We offer fast, cost-effective Custom Blending Services to your specifications.*

- LC-MS, HPLC and ACS Grade Solvents Available
- 500mL to 55 gallon Drum Sizes
- Broad line of Solvents
- Ready to Use Custom Blends:
  - Solvent Blends
  - Mobile Phases
  - Cleaning Solutions
  - Compendial Solvents



## Why Source with RICCA?

### RIGHT

- Tightest Specifications in the industry, lowest lot-to-lot variability
- ISO 17025 Accredited Laboratories, FDA, cGMP compliant facilities
- All products Certified Traceable to NIST Standards when available

### READY

- Nationwide manufacturing/inventory locations
- Full documentation available for each product - Certificate of Analysis
- Chemists ready to assist you in selecting the right chemical

### RICCA

- Over 40 years of successfully serving you, our customer



#### Contact Us At:

[customerservice@riccachemical.com](mailto:customerservice@riccachemical.com)

(888) GO-RICCA (467-4222)

#### Visit Us Online:

[www.riccachemical.com](http://www.riccachemical.com)



## Solvents

As a leading supplier of high quality Solvents, whether you need LC-MS, HPLC or ACS grade product we can provide the right product for your application. **If you need a custom blend please contact us!**

### Acetic Acid

RICCA Part Number	Product	Sizes
RMB11201-10X1R	Acetic Acid, LC-MS, Glass Ampules	10x1mL
RABA0010-250A	Acetic Acid, Glacial ACS, Natural Poly	250mL
RABA0010-500D1	Acetic Acid, Glacial ACS, Amber Glass	500mL
RABA0010-1C	Acetic Acid, Glacial ACS, Amber Glass	1L
RABA0010-2.5D1	Acetic Acid, Glacial ACS, Safety Coated Amber Glass	2.5L
RABA0010-4x2.5D	Acetic Acid, Glacial ACS, Safety Coated Amber Glass	4x2.5L
RABA0010-4C	Acetic Acid, Glacial ACS, Amber Glass	4L
RABA0010-20E1	Acetic Acid, Glacial ACS, Ropak®	20L

### Acetone

RICCA Part Number	Product	Sizes
RSOA0011-500C	Acetone HPLC, Amber Glass	500mL
RSOA0011-1C	Acetone HPLC, Amber Glass	1L
RSOA0011-4C	Acetone HPLC, Amber Glass	4L
RSOA0010-500C	Acetone ACS, Amber Glass	500mL
RSOA0010-1C	Acetone ACS, Amber Glass	1L
RSOA0010-4C	Acetone ACS, Amber Glass	4L
RSOA0010-4x4C	Acetone ACS, Amber Glass	4x4L
RSOA0010-4A	Acetone ACS, Natural Poly	4L
RSOA0010-4x4A	Acetone ACS, Natural Poly	4x4L
RSOA0010-20F	Acetone ACS, Cubitainer®	20L
RSOA0010-20E4	Acetone ACS, Metal Can	20L
RSOA0010-55E	Acetone ACS, Drum	55 Gallon



### Acetonitrile

RICCA Part Number	Product	Sizes
RSOA0020-4C	Acetonitrile HPLC, Amber Glass	4L
RSOA0020-4x4C	Acetonitrile HPLC, Amber Glass	4x4L

## Chloroform

RICCA Part Number	Product	Sizes
RSOC0020-500C	Chloroform ACS, Amber Glass	500mL
RSOC0020-1C	Chloroform ACS, Amber Glass	1L
RSOC0020-4C	Chloroform ACS, Amber Glass	4L

## Cyclohexane

RICCA Part Number	Product	Sizes
RSOC8500-4C	Cyclohexane ACS, Amber Glass	4L

## Dichloromethane

RICCA Part Number	Product	Sizes
RDCD0100-1C	Dichloromethane ACS, Amber Glass	1L

## Dioxane

RICCA Part Number	Product	Sizes
RSOD0100-4C	Dioxane ACS, Amber Glass	4L

## Ethanol

RICCA Part Number	Product	Sizes
RSOE0013-5E4	Ethanol, Grain, 200 Proof, USP, Metal Can	5 Gallon
RSOE0013-55E	Ethanol, Grain, 200 Proof, USP, Poly Drum	55 Gallon
RSOE0010-5E4	Ethanol, Grain, 190 Proof, USP, Metal Can	5 Gallon
RSOE0010-55E	Ethanol, Grain, 190 Proof, USP, Poly Drum	55 Gallon



## Ethyl Acetate

RICCA Part Number	Product	Sizes
RSOE0300-500C	Ethyl Acetate ACS, Amber Glass	500mL
RSOE0300-4C	Ethyl Acetate ACS, Amber Glass	4L

## Ethylene Glycol

RICCA Part Number	Product	Sizes
R2944500-500C	Ethylene Glycol ACS, Amber Glass	500mL
R2944500-4C	Ethylene Glycol ACS, Amber Glass	4L
R2944500-20F	Ethylene Glycol ACS, Cubitainer®	20L

## Glycerin

RICCA Part Number	Product	Sizes
RSOG0020-500A	Glycerin, ACS Reagent, Natural Poly	500mL
RSOG0020-1A	Glycerin, ACS Reagent, Natural Poly	1L
RSOG0020-4A	Glycerin, ACS Reagent, Natural Poly	4L
RSOG0020-20F	Glycerin, ACS Reagent, Cubitainer®	20L

## Heptane

RICCA Part Number	Product	Sizes
RSOH0006-20E4	Heptane, HPLC, Metal Can	20L

## Hexane

RICCA Part Number	Product	Sizes
RSOH0011-1C	Hexanes HPLC, Amber Glass	1L
RSOH0011-2.5D1	Hexanes HPLC, Safety Coated Amber Glass	2.5L
RSOH0011-4C	Hexanes HPLC, Amber Glass	4L
RSOH0010-500C	Hexanes ACS, Amber Glass	500mL
RSOH0010-1C	Hexanes ACS, Amber Glass	1L
RSOH0010-4C	Hexanes ACS, Amber Glass	4L

## Isopropanol

RICCA Part Number	Product	Sizes
R4207200-4C	Isopropyl Alcohol (IPA) HPLC, Amber Glass	4L
RSOI0020-1C	Isopropyl Alcohol (IPA) ACS, Amber Glass	1L
RSOI0020-4C	Isopropyl Alcohol (IPA) ACS, Amber Glass	4L
RSOI0020-4C1	Isopropyl Alcohol (IPA) ACS, Safety Coated Amber Glass	4L
RSOI0020-4x4C	Isopropyl Alcohol (IPA) ACS, Amber Glass	4x4L
RSOI0020-20F	Isopropyl Alcohol (IPA) ACS, Cubitainer®	20L
R4210000-500A	Isopropanol, 70% v/v, Natural Poly	500mL
R4210000-1A	Isopropanol, 70% v/v, Natural Poly	1L
R4210000-4A	Isopropanol, 70% v/v, Natural Poly	4L
R4210000-4C	Isopropanol, 70% v/v, Amber Glass	4L
R4210000-4C1	Isopropanol, 70% v/v, Safety Coated Amber Glass	4L
R4210000-10F	Isopropanol, 70% v/v, Cubitainer®	10L
R4210000-20F	Isopropanol, 70% v/v, Cubitainer®	20L
R4210000-20E1	Isopropanol, 70% v/v, Ropak®	20L
R4210000-55E	Isopropanol, 70% v/v, Poly Drum	55 Gallon



## Methanol

RICCA Part Number	Product	Sizes
R4828000-1C	Methanol HPLC, Amber Glass	1L
R4828000-4C	Methanol HPLC, Amber Glass	4L
R4828000-4x4C	Methanol HPLC, Amber Glass	4x4L
R4829000-25C	Methanol ACS, Amber Glass	25mL
R4829000-500A	Methanol ACS, Natural Poly	500mL
R4829000-1A	Methanol ACS, Natural Poly	1L
R4829000-4A	Methanol ACS, Natural Poly	4L
R4829000-4x4A	Methanol ACS, Natural Poly	4x4L
R4829000-20E1	Methanol ACS, Ropak®	20L
R4829000-20E4	Methanol ACS, Metal Can	20L
R4829000-55E	Methanol ACS, Poly Drum	55 Gallon

## Pentane

RICCA Part Number	Product	Sizes
RSOP0170-55E4	n-Pentane, CP Grade, Metal Drum	55 Gallon

## Petroleum Ether

RICCA Part Number	Product	Sizes
RSOP0200-4C	Petroleum Ether ACS, Amber Glass	4L

## Reagent Alcohol

RICCA Part Number	Product	Sizes
R6590000-500A	Reagent Alcohol, ACS Reagent, Natural Poly	500mL
R6590000-1A	Reagent Alcohol, ACS Reagent, Natural Poly	1L
R6590000-4A	Reagent Alcohol, ACS Reagent, Natural Poly	4L
R6590000-10F*	Reagent Alcohol, ACS Reagent, Cubitainer®	10L
R6590000-20F*	Reagent Alcohol, ACS Reagent, Cubitainer®	20L

\*Must be shipped to distribution centers

## Toluene

RICCA Part Number	Product	Sizes
RSOT0200-4C	Toluene ACS, Amber Glass	4L
RSOT0200-4x4C	Toluene ACS, Amber Glass	4x4L
RSOT0200-20E4	Toluene ACS, Metal Can	20L

## Xylene

RICCA Part Number	Product	Sizes
RSOX0200-4C	Xylenes ACS, Amber Glass	4L
RSOX0200-4x4C	Xylenes ACS, Amber Glass	4x4L

## Water

RICCA Part Number	Product	Sizes
R9145000-1G	Water, Molecular Biology Grade Sterile, RNase Free, DNase Free, Protease Free, DEPC Free, Clear PET-G	1L
R9154000-1C	Water, LC-MS Grade, Amber Glass	1L
R9154000-4C	Water, LC-MS Grade, Amber Glass	4L
R9153000-1C	Water, HPLC Grade, Amber Glass	1L
R9153000-4C	Water, HPLC Grade, Amber Glass	4L



## USP/EP/JP Purified Water

- Ideal for Pharmaceutical testing laboratories
- Water system validated under cGMP
- Tested to the latest USP/EP Requirements
- Low Microbial Count/Non-Sterile at time of packaging

RICCA Part Number	Product	Sizes
R9189000-20F	Water, USP/EP/JP Purified, Cubitainer®	20L
R9189000-20E1	Water, USP/EP/JP Purified, Ropak®	20L
R9190000-4A	Water, USP/EP Purified, Natural Poly	4L
R9190000-4C	Water, USP/EP Purified, Amber Glass	4L
R9190000-4F	Water, USP/EP Purified, Cubitainer®	4L
R9190000-10F	Water, USP/EP Purified, Cubitainer®	10L
R9190000-20F	Water, USP/EP Purified, Cubitainer®	20L
R9190000-20E1	Water, USP/EP Purified, Ropak®	20L
R9191000-55E	Water, USP Purified, Poly Drum	55Gal
R9191000-330E3	Water, USP Purified, Poly Tote	330Gal

Please see our website for more Water products, ACS/ASTM Reagent Grade Water and Distilled Water. Visit [riccachemical.com](http://riccachemical.com) and search "Water."



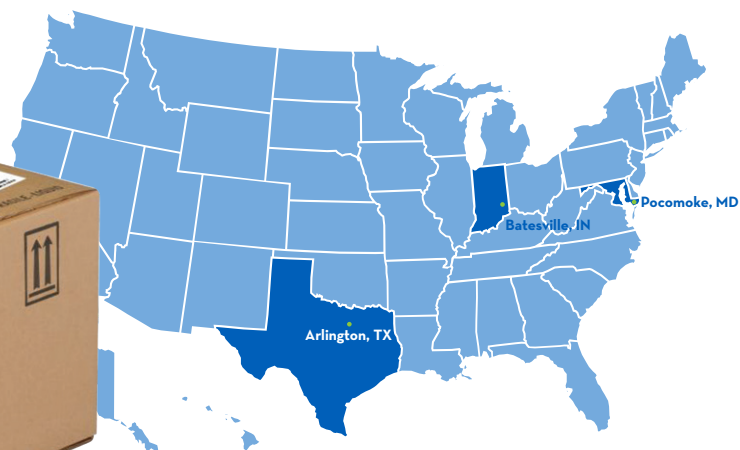
## Ricca Custom Blending Services

Ricca offers over 40 years of successful chemical blending, bottle filling, packaging and on-site product testing to provide reliable and efficient solutions. Our Technical Support Chemists are available to assist you with formulations, packaging compatibility and regulatory questions. We offer personalized customer service to meet your specific needs at every step.

Ricca's ISO 9001:2015 certification and compliance to 21 CFR 820 ensures consistent quality of every blend. Testing is performed in our ISO 17025 accredited laboratories (See scope for details). We use a wide range of production and filling options to meet your requirements. Our 3 manufacturing facilities are geographically positioned to provide 2 to 3 day shipping nationwide.

### Our capabilities include:

- Custom, contract blending
  - Solvent Blends
  - Mobile Phases
  - Cleaning Solutions
  - Compendial Blends
- Wide range of packaging options 4oz to bulk totes
- Custom label design, kitting capabilities, warehousing and distribution services
- Full custom documentation package, including SDS, Certificate of Analysis and packing slip
- Our highspeed liquid fill production line can produce 1,000's of bottles in a single run
- All labels, packaging and documentation fully compliant according to OSHA, GHS and DOT Hazardous Materials regulations.



Arlington, TX 76012  
 Pocomoke City, MD 21851  
 Batesville, IN 47006  
<http://www.riccachemical.com>  
 1-888-GO-RICCA  
[customerservice@riccachemical.com](mailto:customerservice@riccachemical.com)

### Certificate of Analysis

Reagent Alcohol, ACS Reagent Grade Anhydrous, Absolute

Lot Number: 1705C76
Product Number: 6590
Manufacture Date: MAY 04, 2017  
Expiration Date: JAN 2020

Name	CAS#	Grade
Ethyl Alcohol	64-17-5	ACS
Isopropyl Alcohol	67-63-0	ACS
Methyl Alcohol	67-56-1	ACS

Test	Specification	Result
Appearance	Colorless liquid	Passed
Color (APHA)	max 10	< 1
Ethanol (Ethyl Alcohol)	89.5-91.5 % (v/v)	90.4 % (v/v)
Isopropyl Alcohol	4.0-6.0 % (v/v)	5.2 % (v/v)
Methanol (Methyl Alcohol)	4.0-5.0 % (v/v)	4.4 % (v/v)
Residue after evaporation (Non Volatile Matter)	max 0.001 %	< 0.001 %
Water (H <sub>2</sub> O)	max 0.5 %	0.05 %

Specification	Reference
Reagent Alcohol	ACS (N/A)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434. It is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
6590-2.5	10 L Cubitainer®	36 months
6590-16	500 ml, natural poly	36 months

**Recommended Storage:** 15°C - 30°C (59°F - 86°F)

Israel Alamudun  
Quality Control Supervisor

\*This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials - Contents of Certificates and Labels."

Version: 1.3
Lot Number: 1705C76
Product Number: 6590
Page 1 of 1

## Buffers

### *pH Calibration ISO 17025*

- Reference
- Precision reference
- Buffer concentrates

### *pH Control*

- Dissolution
- Phosphate
- Acetate
- Other Buffers

## Compendial Solutions

- ASTM
- APHA
- EPA
- USP/EP
- ACS
- AOAC
- TAPPI

## Extraction Chemicals

- Ethanol (organic and conventional)
- Acetone
- Isopropanol
- ACS and HPLC grades

## General Use

### *HPLC Reagents Cleaning Solutions*

- Electrode
- Surface
- Glassware
- Equipment

### *Acids*

- Hydrochloric Acid
- Sulfuric Acid
- Nitric Acid
- Trichloroacetic Acid
- Acetic Acid
- Boric Acid
- Citric Acid
- Hydrofluoric Acid
- Phosphoric Acid
- Other Acids

### *Bases*

- Sodium Hydroxide
- Potassium Hydroxide
- Ammonium Hydroxide
- Other Bases

### *Other Aqueous Solutions*

### *Non-Aqueous Solutions*

### *Reagent Grade Chemicals*

### *Solvents*

## Standards

### *Conductivity/TDS - ISO 17025*

- Potassium Chloride
- Sodium Chloride

### *Ion Selective Electrode (ISE)*

- Ionic strength adjustors
- Filling Solutions
- ISE Standards

## Ion Chromatography (IC) ISO 17025/Guide 34

- Eluants
- Standards

### *Color Standards*

- USP Colorimetric
- EP Colorimetric
- Gardner
- Platinum-Cobalt (APHA-Hazen)

### *UV-VIS Absorbance*

### *Oxidation-Reduction potential*

## Spectroscopy ISO 17025/Guide 34

### *ICP/ICP-MS*

- Single elements
  - Multi-element
- ### *Atomic Absorption (AA)*
- Single elements
  - Ionization Buffer Agents
  - GFAA
  - Calibration & Spiking Blends
  - Matrix Modifiers
  - CVAA

## Organic Standards ISO 17025/Guide 34 Anions/Nonmetals

- Chlorine equivalent
- Nitrogen/Nitrate/Nitrite
- Ammonia
- Carbon
- BOD/COD
- Chloride
- Fluoride
- Sulfate
- Phosphate

### *Turbidity*

### *Specific Gravity*

## High Purity Water

- Molecular biology grade
- ASTM Types I-IV
- HPLC
- USP/EP purified
- LC/MS grade

## Proteomics

- Protein Crosslinkers
- Protein Modifiers
- LCMS Mobile Phases
- GC Derivatization Reagents
- Molecular Biology Buffers and Solvents

## Terpenes

- Camphene
- Delta-3-Carene
- Beta-Caryophyllene
- D-Limonene
- Linalool

- Myrcene
- Nerol
- Alpha-Phellandrene
- Beta-Pinene
- Alpha-Pinene
- Alpha-Terpinene
- Terpinolene

## Titriments

### *Acids (Aqueous, Non-Aqueous)*

- Hydrochloric
- Sulfuric
- Nitric
- Acetic
- Perchloric

### *Bases (Aqueous, Non-Aqueous)*

- Sodium Hydroxide
  - Potassium Hydroxide
  - Sodium Carbonate
  - Ammonium Hydroxide
- ### *Oxidation-Reduction (Redox)*
- Sodium Thiosulfate
  - Potassium Permanganate
  - Phenylarsine Oxide

- Iodate
- Iodate-Iodide
- Biiodate
- Bromate-Bromide
- Potassium Dichromate
- Iodine
- Ferrous Ammonium Sulfate
- Ceric Sulfate

### *Other Titrants*

- EDTA
- Mercuric Nitrate
- Calcium Chloride
- Potassium Thiocyanate
- Sodium Chloride
- Zinc Sulfate
- Silver Nitrate

## Karl Fischer Reagents

- Coulometric reagents
- Volumetric reagents
- Solvents
- Water standards

## Indicators

### *pH Indicators*

- Mixed Indicators
- Universal Indicators
- Acid-Base Indicators
- Adsorption Indicators
- Hardness Indicators
- Oxidation Reduction Indicators
- Complexometric Indicators
- Other Indicators

## Contact Us At:

[customerservice@riccachemical.com](mailto:customerservice@riccachemical.com)

(888) GO-RICCA (467-4222)

## Visit Us Online:

[www.riccachemical.com](http://www.riccachemical.com)

