CHAPTER 9 : REAGENTS, BUFFERS AND CHEMICAL PRODUCTS

Francois Auguste Victor Grignard
6 May 1871 - 13 December 1935

The SCT R&D team would like to introduce our Reagents, Buffers and Chemicals Chapter by honoring a Nobel Prize winner in the field of chemistry. Victor Grignard was a Nobel Prize winning chemist from France. He won the Noble prize in chemistry for the “Grignard reaction” which involves the formation of the “Grignard Reagent”. The Grignard reaction is a very important reaction in organic chemistry and important in the synthesis off various compounds.

Chemicals have played an important part of the modernized world. Since the dawn of time, man has tried to understand his environment and chemistry played a vital part in this process. In this modern era, it serves as a platform for all scientists to explore science, matter, and nature. Our new product line is aimed to aid laboratories around the world in their chemical necessities. We have a broad range of buffer which will help with maintaining the pH, Conductivity etc.., in many chemical reactions. The new chapter introduces some of the basic Buffers, Standard Solutions, Reagents ,chemicals used in many laboratories today. Our reagents, buffers and chemical products are of the highest purity and best quality comply with all the International standards.

We at ScichemTech always give priority to the Personal and the Lab safety, keeping this in mind ,we have introduced Our new range of “Chemical storing and safety cabinets” also. Together with our customers we strive to serving the scientific community and industries by continually supplying them with their laboratory needs. At SCT we are continuously trying to extend our range of products to completely provide laboratory and Industrial needs.

ScichemTech Chemical Team

BUFFERS: pH BUFFER SOLUTIONS

General buffer solution is water mixed with a chemical to give it special properties in regards to pH (acidity). The chemical, known as a buffer agent, resists pH changes when exposed to acids and bases when properly mixed in a solution. This property makes a buffer solution extremely useful in protecting sensitive equipment, dealing with chemical accidents, and even in balancing the internal processes of living things.

ScichemTech manufacture the most comprehensive range of pH reagents in USA which are designed to suit all end user requirements. These include laboratory grade buffers, the Professional Range (buffer standards as per N.I.S.T/DIN and high resolution buffers), low ionic strength buffers and buffer capsules. They are manufactured to exacting specifications extended shelf life and cover the pH range of pH 1.00 to pH 13.00 inclusive. All are supplied with a detailed Certificate of Analysis which outlines traceability to N.I.S.T (the N.I.S.T SRM(s) Lot No. is stated on the certificate). Temperature dependence data is printed on the label as are lot numbers and expiry dates.

pH

The pH scale measures the acidity or basicity of a solution. It ranges from 0 to 14. At a pH of 7, a substance is neither acidic or basic and is considered neutral. Pure water is has a pH of 7.
Acidic and basic are two extremes that describe a chemical property of chemicals, especially in the case of solutions.

pH

The quantity pH is defined in terms of the activity of hydrogen(1+) ions (hydrogen ions) in solution:

$$\mathrm{pH} = -\lg[a(\mathrm{H}^+)] = -\lg[m(\mathrm{H}^+)\,\gamma_{\mathrm{m}}(\mathrm{H}^+)\,/\,m^{\ominus}]$$

where $a(\mathrm{H}^+)$ is the activity of hydrogen ion (hydrogen 1+) in aqueous solution, $\mathrm{H}^+(\mathrm{aq})\,\gamma_{\mathrm{m}}(\mathrm{H}^+)$, is the activity coefficient $\mathrm{H}^+(\mathrm{aq})$ of (molality basis) at molality $m(\mathrm{H}^+)$, and $m^{\ominus} = 1\ \mathrm{mol\ kg^{-1}}$ is the standard molality.

SCT pH BUFFERS / REGULAR STANDARDS

All our regular and standard buffers are made of high quality salts and chemical, which ensures the quality. Most of our pH buffers are made for and calibrated at 25°C, for our customers need,we made it in two standard pack sizes viz . 500 ml and the 5000 ml (5 liters). Other pack sizes can be supplied upon request. Pls contact ScichemTech Dealers. All our buffers are supplied with a detailed printed Certificate of Analysis which shows traceability to N.I.S.T.

PRODUCT NO.	DESCRIPTION	DEVIATION	TEMPERATURE	PACK SIZE
SCT-109.001.01	BUFFER SOLUTION pH1.00	±0.02	@ 25°C	500ml
SCT-109.001.02	BUFFER SOLUTION pH1.00	±0.02	@ 25°C	5L
SCT-109.001.03	BUFFER SOLUTION pH2.00	±0.02	@ 25°C	500ml
SCT-109.001.04	BUFFER SOLUTION pH2.00	±0.02	@ 25°C	5L
SCT-109.001.05	BUFFER SOLUTION pH3.00	±0.02	@ 25°C	500ml
SCT-109.001.06	BUFFER SOLUTION pH3.00	±0.02	@ 25°C	5L
SCT-109.001.07	BUFFER SOLUTION pH4.00	±0.01	@ 25°C	500ml
SCT-109.001.08	BUFFER SOLUTION pH4.00	±0.01	@ 25°C	5L
SCT-109.001.09	BUFFER SOLUTION pH4.00 PHTHALATE FREE	±0.01	@ 25°C	500ml
SCT-109.001.10	BUFFER SOLUTION pH4.00 PHTHALATE FREE	±0.01	@ 25°C	1L
SCT-109.001.11	BUFFER SOLUTION pH5.00	±0.01	@ 25°C	500ml
SCT-109.001.12	BUFFER SOLUTION pH5.00	±0.01	@ 25°C	5L
SCT-109.001.13	BUFFER SOLUTION pH6.00	±0.01	@ 25°C	500ml
SCT-109.001.14	BUFFER SOLUTION pH6.00	±0.01	@ 25°C	5L
SCT-109.001.15	BUFFER SOLUTION pH6.80	±0.01	@ 25°C	500ml
SCT-109.001.16	BUFFER SOLUTION pH6.80	±0.01	@ 25°C	5L
SCT-109.001.17	BUFFER SOLUTION pH7.00	±0.01	@ 25°C	500ml
SCT-109.001.18	BUFFER SOLUTION pH7.00	±0.01	@ 25°C	5L
SCT-109.001.19	BUFFER SOLUTION pH8.00	±0.01	@ 25°C	500ml
SCT-109.001.20	BUFFER SOLUTION pH8.00	±0.01	@ 25°C	5L
SCT-109.001.21	BUFFER SOLUTION pH9.00	±0.01	@ 25°C	500ml
SCT-109.001.22	BUFFER SOLUTION pH9.00	±0.01	@ 25°C	5L
SCT-109.001.23	BUFFER SOLUTION pH10.00	±0.01	@ 25°C	500ml
SCT-109.001.24	BUFFER SOLUTION pH10.00	±0.01	@ 25°C	5L
SCT-109.001.25	BUFFER SOLUTION pH11.00	±0.05	@ 25°C	500ml
SCT-109.001.26	BUFFER SOLUTION pH11.00	±0.05	@ 25°C	5L
SCT-109.001.27	BUFFER SOLUTION pH12.00	±0.05	@ 25°C	500ml
SCT-109.001.28	BUFFER SOLUTION pH12.00	±0.05	@ 25°C	5L
SCT-109.001.29	BUFFER SOLUTION pH13.00	±0.05	@ 25°C	500ml
SCT-109.001.30	BUFFER SOLUTION pH13.00	±0.05	@ 25°C	5L

SCT COLOUR CODED pH BUFFERS

In many of the labs and among the users, colour coded buffers are most popular when they work continuously. For easy idendification and to speed up the work, ScichemTech has introduced these colour coded buffers.

Traceable to NIST standards and available in 500 & 5000 ml packaging selections. Provide a tolerance of ±0.01 pH at 25°C and the bottle label provides temperature correction data from 0° to 50°C. All SCT buffers offer improved record keeping and documentation with long shelf life (unopened), manufacturing lot codes, expiration out-dates.

pH 4 in RED IN COLOUR, pH 7 in YELLOW IN COLOUR and pH 10 in BLUE IN COLOUR.

Available in 500 and 5000 mL each of pH 4, pH 7 and pH 10.

PRODUCT NO.	DESCRIPTION	DEVIATION	TEMPERATURE	PACK SIZE
SCT-109.002.01	BUFFER pH4.00 (Red)	±0.01	@ 25°C	500ml
SCT-109.002.02	BUFFER pH4.00 (Red)	±0.01	@ 25°C	5L
SCT-109.002.03	BUFFER pH7.00 (Yellow)	±0.01	@ 25°C	500ml
SCT-109.002.04	BUFFER pH7.00 (Yellow)	±0.01	@ 25°C	5L
SCT-109.002.05	BUFFER pH10.00 (Blue)	±0.01	@ 25°C	500ml
SCT-109.002.06	BUFFER pH10.00 (Blue)	±0.01	@ 25°C	5L

SCT PROFESSIONAL pH STANDARDS

Eventhough SCT buffers are manufactured as per the standards, for Quality control and Reasearch & Development departments, go for better precision. These buffer solutions are suitable for use where very accurate measurements are required.We follow and manufacture as per the NIST norms.Totally 9 different NIST buffers are available in our range.

SCT pH PROFESSIONAL BUFFER STANDARDS N.I.S.T. VALUES @20^{O}C available in 500ml pack sizes.

PRODUCT NO.	DESCRIPTION	NIST	TEMPERATURE	PACK SIZE
SCT-109.003.01	pH BUFFER STANDARD	1.675	@ 20°C	500ml
SCT-109.003.02	pH BUFFER STANDARD	1.677	@ 20°C	500ml
SCT-109.003.03	pH BUFFER STANDARD	3.788	@ 20°C	500ml
SCT-109.003.04	pH BUFFER STANDARD	4.001	@ 20°C	500ml
SCT-109.003.05	pH BUFFER STANDARD	6.881	@ 20°C	500ml
SCT-109.003.06	pH BUFFER STANDARD	7.429	@ 20°C	500ml
SCT-109.003.07	pH BUFFER STANDARD	9.225	@ 20°C	500ml
SCT-109.003.08	pH BUFFER STANDARD	10.062	@ 20°C	500ml
SCT-109.003.09	pH BUFFER STANDARD	12.627	@ 20°C	500ml

SCT-TECHNICAL BUFFERS

PRODUCT NO.	DESCRIPTION	TEMPERATURE @25°C	PACK SIZE
SCT-109.004.01	TECHNICAL BUFFER	2.00	500ml
SCT-109.004.02	TECHNICAL BUFFER	4.01	500ml
SCT-109.004.03	TECHNICAL BUFFER	4.60	500ml
SCT-109.004.04	TECHNICAL BUFFER	7.00	500ml
SCT-109.004.05	TECHNICAL BUFFER	9.21	500ml
SCT-109.004.06	TECHNICAL BUFFER	10.00	500ml

SCT pH BUFFER CAPSULES

Buffer capsules are used in certain occasions by the scientific and industrial customers mainly for the easy transportation and to have the field tests. The presentation of pH buffers in capsule format is an innovative concept developed by ScichemTech, and have many features,such as: Colour coded for ease of identification,Easy to use,Dissolve quickly, Accuracy ±0.02 pH units,Preservative free,Easy to store and transport and better shelf life. SCT has pH buffer capsules in pH4.01 (Orange), pH7.00 (Green), pH9.00 (Purple) and pH10.00 (Blue), With the standard pack sizes of 50 capsules / bottle. The buffer volume is 100ml of distilled water per capsule.

PRODUCT NO.	DESCRIPTION	DEVIATION	TEMPERATURE	PACK SIZE
SCT-109.005.01	Capsule pH4.01 (Orange)	±0.02	@ 25°C	5x10 Capsules
SCT-109.005.02	Capsule pH7.00 (Green)	±0.02	@ 25°C	5x10 Capsules
SCT-109.005.03	Capsule pH9.00 (Purple)	±0.02	@ 25°C	5x10 Capsules
SCT-109.005.04	Capsule pH10.00 (Blue)	±0.02	@ 25°C	5x10 Capsules

SCT REFERENCE BUFFER SOLUTIONS

SCT reference pH Buffer solutions are mainly for the Pharmaceutical applications. Hence,these solutions comply with the Temperature v pH values as per European Pharmacopia. All contain a preservative to give long shelf life. We strongly recommend these buffers for the Bio Technological, Forensic, Tissue culture Research purposes. Pls note these are reference buffers and not recommended for the general purposes. Available in standard 500 ml pack sizes.

PRODUCT NO.	DESCRIPTION	PACK SIZE
SCT-109.006.01	pH Buffer solution 1.68@25°C	500 ml
SCT-109.006.02	pH Buffer solution 4.01@25°C	500 ml
SCT-109.006.03	pH Buffer solution 6.87@25°C	500 ml
SCT-109.006.04	pH Buffer solution 7.41@25°C	500 ml
SCT-109.006.05	pH Buffer solution 9.18@25°C	500 ml

SCT CONDUCTIVITY STANDARDS

EC (ELECTRICAL CONDUCTIVITY) & TDS (TOTAL DISSOLVED SOLIDS)

The electrical conductivity of water estimates the total amount of solids dissolved in water -TDS, which stands for Total Dissolved Solids. TDS is measured in ppm (parts per million) or in mg/l. The conductivity (or specific conductance) of an proton solution is a measure of its ability to conduct electricity. Conductivity measurements are used routinely in many industrial and environmental applications as a fast, inexpensive and reliable way of measuring the ionic content in a solution.[1] For example, the measurement of product conductivity is a typical way to monitor and continuously trend the performance of the water purification systems. The electrical conductivity of the water depends on the water temperature : the higher the temperature, the higher the electrical conductivity would be. The electrical conductivity of water increases by 2-3% for an increase of 1 degree Celsius of water temperature. Many EC meters nowadays automatically standardize the readings to 25^{O}C.

The commonly used units for measuring electrical conductivity of water are:

µS/cm (microSiemens/cm)
or
dS/m (deciSiemens/m) Where: 1000 µs/cm = 1 dS/m

Since the electrical conductivity is a measure to the capacity of water to conduct electrical current, it is directly related to the concentration of salts dissolved in water, and therefore to the Total Dissolved Solids (TDS). Salts dissolve into positively charged ions and negatively charged ions, which conduct electricity.

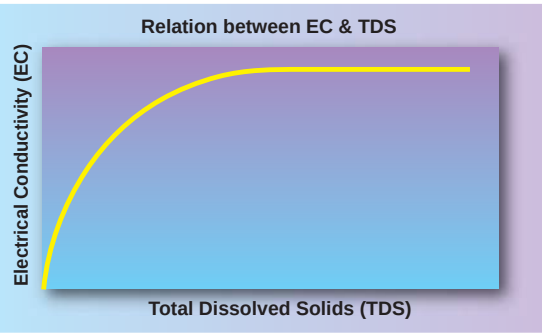
Since it is difficult to measure TDS in the field, The electrical conductivity of the water is used as a measure. The electrical conductivity of the water can be determined in a quick and inexpensive way, using portable meters. Distilled water does not contain dissolved salts and, as a result, it does not conduct electricity and has an electrical conductivity of zero.

Nevertheless, when the salt concentration reaches a certain level, electrical conductivity is no longer directly related to salts concentration. This is because ion pairs are formed. Ion pairs weaken each other's charge, so that above a this level, higher TDS will not result in equally higher electrical conductivity.

EC can be converted to TDS using the following calculation:

TDS (ppm) = 0.64 X EC (µS/cm) = 640 X EC (dS/m) (Approx only)

SCT solutions are standardized at 25°C and are accurate to ±1.0%. All are directly traceable to N.I.S.T. standard reference materials. Temperature dependence data, lot no. and expiry date are printed on all product labels.



SCT CONDUCTIVITY REGULAR STANDARDS

All our regular conductivity standards are made of high quality salts and chemical, which ensures the quality. Most of our conductivity standards are made for and calibrated at 25°C, and,we made it in one standard pack sizes of . 500 ml. Other pack sizes can be supplied upon request. Pls contact ScichemTech Dealers. All our regular conductivity standards are supplied with a detailed printed Certificate of Analysis which shows traceability to N.I.S.T.

SCT REGULAR conductivity standards are standardized @25^{O}C and available in 500ml pack sizes.

PRODUCT NO.	DESCRIPTION	TEMPERATURE	PACK SIZE
SCT-109.010.01	84 Microsiemens/cm	25°C	500ml
SCT-109.010.02	147 Microsiemens/cm	25°C	500ml
SCT-109.010.03	1413 Microsiemens/cm	25°C	500ml
SCT-109.010.04	12,880 Microsiemens/cm	25°C	500ml

SCT CONDUCTIVITY PROFESSIONAL STANDARDS

Eventhough SCT conductivity standards are manufactured as per the standards, for Quality control and Research & Development departments, go for better precision. These buffer solutions are suitable for use where very accurate measurements are required. We follow and manufacture as per the NIST norms. Totally 20 different Professional SCT conductivity standards are available in our range.

SCT PROFESSIONAL conductivity standards are standardized @25^{O}C and available in 500ml pack sizes.

PRODUCT NO.	DESCRIPTION	TEMPERATURE	PACK SIZE
SCT-109.011.01	1.30 Microsiemens/cm	25°C	250 ml
SCT-109.011.02	5 Microsiemens/cm	25°C	500 ml
SCT-109.011.03	10 Microsiemens/cm	25°C	500 ml
SCT-109.011.04	20 Microsiemens/cm	25°C	500 ml
SCT-109.011.05	50 Microsiemens/cm	25°C	500 ml
SCT-109.011.06	100 Microsiemens/cm	25°C	500 ml
SCT-109.011.07	200 Microsiemens/cm	25°C	500 ml
SCT-109.011.08	500 Microsiemens/cm	25°C	500 ml
SCT-109.011.09	1,000 Microsiemens/cm	25°C	500 ml
SCT-109.011.10	5,000 Microsiemens/cm	25°C	500 ml
SCT-109.011.11	10,000 Microsiemens/cm	25°C	500 ml
SCT-109.011.12	20,000 Microsiemens/cm	25°C	500 ml
SCT-109.011.13	50,000 Microsiemens/cm	25°C	500 ml
SCT-109.011.14	100,000 Microsiemens/cm	25°C	500 ml
SCT-109.011.15	150,000 Microsiemens/cm	25°C	500 ml
SCT-109.011.16	200,000 Microsiemens/cm	25°C	500 ml
SCT-109.011.17	300,000 Microsiemens/cm	25°C	500 ml
SCT-109.011.18	350,000 Microsiemens/cm	25°C	500 ml
SCT-109.011.19	450,000 Microsiemen/cm	25°C	500 ml
SCT-109.011.20	500,000 Microsiemens/cm	25°C	500 ml

SCT REFEERENCE CONDUCTIVITY & RESISTIVITY SOLUTIONS

SCT REFERENCE Conductivity & Resistivity standards are mainly for the Reference applications. All contain a preservative to give long shelf life. We strongly recommend these buffers for the Bio Technological, Forensic, Tissue culture Research purposes. Pls note these REFERENCE Conductivity & Resistivity standards are and not recommended for the general purposes. Available in standard 500 ml pack sizes.

SCT REFERENCE Conductivity & Resistivity standards are standardized @20^{O}C and available in 500ml pack sizes.

PRODUCT NO.	DESCRIPTION	TEMPERATURE	PACK SIZE
SCT-109.012.01	Conductivity & Resistivity 1330 us/cm	20°C	500 ml
SCT-109.012.02	Conductivity & Resistivity 133 us/cm	20°C	500 ml
SCT-109.012.03	Conductivity & Resistivity 26.6 us/cm	20°C	500 ml

SCT TDS (TOTAL DISSOLVED SOLIDS) STANDARDS

Total Dissolved Solids (TDS) is a measure of the combined content of all inorganic and organic substances contained in a liquid in: molecular, ionized or micro-granular suspended form. Generally the operational definition is that the solids must be small enough to survive filtration through a sieve the size of two micrometer. Total dissolved solids are differentiated from total suspended solids (TSS), in that the latter cannot pass through a sieve of two micrometers and yet are indefinitely suspended in solution. The term “settle¬able solids” refers to material of any size that will not remain suspended or dissolved in a holding tank not subject to motion, and excludes both TDS and TSS.[1] Settleable solids may include larger particulate matter or insoluble molecules.

As discussed earlier, Electrical conductivity of water is directly related to the concentration of dissolved ionized solids in the water. Ions from the dissolved solids in water create the ability for that water to conduct an electrical current, which can be measured using a conventional conductivity meter or TDS meter. When correlated with laboratory TDS measurements, conductivity provides an approximate value for the TDS concentration, usually to within ten-percent accuracy

SCT TDS standards are standardized @25^{O}C and available in 500ml pack sizes

PRODUCT NO.	DESCRIPTION	TEMPERATURE	PACK SIZE
SCT-109.014.01	1382 ppm NaCl	25^{O}C	500 ml

SCT REDOX STANDARD SOLUTIONS

Reduction potential (also known as redox potential, oxidation / reduction potential, ORP, pE or) is a measure of the tendency of a chemical species to acquire electrons and thereby be reduced. Reduction potential is measured in volts (V), or millivolts (mV). Each species has its own intrinsic reduction potential; the more positive the potential, the greater the species’ affinity for electrons and tendency to be reduced. ORP is a common measurement for water quality.

ORP - Oxidation Reduction (Redox) Potential			
Water Type	ORP	pH	Indication
Tap Water	+400 to +500 mV	7	Oxidation potential is less.
Reduced Water	-250 to -350 mV	8	Reduction potential is strong. Availability of excess electrons can be donated to free radicals.
Oxidized Water	+700 to +800 mV	4	Oxidation potential is strong. Due to less availability of electrons. Oxidation rate is high.

From the above table,you can infer the relation between pH and ORP

As you may aware, ScichemTech is one of the leading manufacturers of PH,EC and ORP meters & controllers. We at ScichemTech recommend the users to use Our SCT meters and controllers for the precise, accurate and Stable results. All values quoted are potentials of platinum electrode V Ag/AgCl Reference (3M KCl).

SCT ORP standards are standardized @25^{O}C and available in 500ml pack sizes. In SCT 8 different ORP standards are available .

PRODUCT NO.	DESCRIPTION	TEMPERATURE	PACK SIZE
SCT-109.015.01	Redox standard 124mV	25° C	500ml
SCT-109.015.02	Redox standard 200mV	25° C	500ml
SCT-109.015.03	Redox standard 250mV	25° C	500ml
SCT-109.015.04	Redox standard 300mV	25° C	500ml
SCT-109.015.05	Redox standard 358mV	25° C	500ml
SCT-109.015.06	Redox standard 465mV	25° C	500ml
SCT-109.015.07	Redox standard 600mV	25° C	500ml
SCT-109.015.08	Redox standard 650mV	25° C	500ml

SCT (ISE) ION SELECTIVE ELECTRODE STANDARDS

Identification of ion using the electrodes are widely used technique in the analytical and electrochemical labs.To measure the standard values, Chemists use prepared standard solutions as reference. We at ScichemTech produces many ISE standard solutions as listed below.

SCT ISE standards are prepared with use high quality and purified chemicals and available in 500ml pack sizes. In SCT 21 different ISE standards are available .

PRODUCT NO.	DESCRIPTION	PACK SIZE
SCT-109.016.01	Ammonia 1,000ppm as N	500ml
SCT-109.016.02	Ammonium 1,000ppm as NH4	500ml
SCT-109.016.03	Barium 1,000ppm	500ml
SCT-109.016.04	Bromide 1,000ppm	500ml
SCT-109.016.05	Cadmium 1,000ppm	500ml
SCT-109.016.06	Carbon Dioxide 1,000ppm	500ml
SCT-109.016.07	Calcium 1,000ppm	500ml
SCT-109.016.08	Chloride 1,000ppm	500ml
SCT-109.016.09	Copper 1,000ppm	500ml
SCT-109.016.10	Cyanide 1,000ppm	500ml
SCT-109.016.11	Fluoride 1,000ppm	500ml
SCT-109.016.12	Iodide 1,000ppm	500ml
SCT-109.016.13	Lead 1,000ppm	500ml
SCT-109.016.14	Nitrate 1,000ppm as NO3	500ml
SCT-109.016.15	Nitrogen Oxide 1,000ppm as NO2	500ml
SCT-109.016.16	Potassium 1,000ppm	500ml
SCT-109.016.17	Silver 1,000ppm	500ml
SCT-109.016.18	Sodium 1,000ppm	500ml
SCT-109.016.19	Sulphide 1,000ppm	500ml
SCT-109.016.20	Sulphur Dioxide 1,000ppm	500ml
SCT-109.016.21	Thiocyanate 1,000ppm	500ml

SCT- ION STRENGTH ADJUSTER SOLUTIONS

SCT LOW ION STRENGTH ADJUSTER REAGENTS are prepared with use high quality and purified chemicals and available in 500ml pack sizes..

PRODUCT NO.	Description	Pack Size
SCT-109.017.01	Ammonia ISA 10M NaOH	500ml
SCT-109.017.02	Ammonium ISA 4M LiCl	500ml
SCT-109.017.03	Barium ISA 4M LiCl	500ml
SCT-109.017.04	Bromide ISA 5M NaNO3	500ml
SCT-109.017.05	Cadmium ISA 5M NaNO3	500ml
SCT-109.017.06	Calcium ISA 4M KCl	500ml
SCT-109.017.07	Chloride ISA 5M NaNO3	500ml
SCT-109.017.08	Copper ISA 5M NaNO3	500ml
SCT-109.017.09	Cyanide ISA 10M NaOH	500ml
SCT-109.017.10	Fluoride TISAB3	500ml
SCT-109.017.11	Iodide ISA 5M NaNO3	500ml
SCT-109.017.12	Lead ISA 2.5M NaNO3	500ml
SCT-109.017.13	Nitrate ISA 2M (NH4)2SO4	500ml
SCT-109.017.14	Potassium ISA 5M NaCl	500ml
SCT-109.017.15	Silver ISA 5M NaNO3	500ml
SCT-109.017.16	Sodium ISA NH4 Cl	500ml
SCT-109.017.17	Sulphide ISA 10M NaOH	500ml
SCT-109.017.18	Sulphur Dioxide ISA 2M H2SO4	500ml
SCT-109.017.19	Thiocyanate ISA 5M NaNO3	500ml

SCT TURBIDITY STANDARDS

ScichemTech turbidity standards for ratio and non-ratio turbidity standards remove the handling, stability and standards:

instruments are composed of suspended polymer microspheres. These accuracy problems associated with traditional Formazin turbidity.SCT Turbidity Standards has,Non toxic and non carcinogenic. Ready to use - our range covers the full turbidity measurement range. Certified accuracy of ± 1%. 2 year shelf life for all values, Traceable to NIST and US EPA approved

SCT TURBIDITY standards are available for both Ratio and Non-Ratio Instruments. With the pack sizes of 100 and 500 ml.

In SCT TURBIDITY standards, 0.0 NTU TO 4000 NTU are available

SCT PRODUCT NO	NTU VALUE	PACK SIZE
SCT-109.018.01	Turbidity Std Ratio 0.0 NTU	100ml
SCT-109.018.02	Turbidity Std Ratio 0.0 NTU	500ml
SCT-109.018.03	Turbidity Std Ratio 0.1 NTU	100ml
SCT-109.018.04	Turbidity Std Ratio 0.1 NTU	500ml
SCT-109.018.05	Turbidity Std Ratio 0.2 NTU	100ml
SCT-109.018.06	Turbidity Std Ratio 0.2 NTU	500ml
SCT-109.018.07	Turbidity Std Ratio 0.4 NTU	100ml
SCT-109.018.08	Turbidity Std Ratio 0.4 NTU	500ml
SCT-109.018.09	Turbidity Std Ratio 0.5 NTU	100ml
SCT-109.018.10	Turbidity Std Ratio 0.5 NTU	500ml
SCT-109.018.11	Turbidity Std Ratio 1 NTU	100ml
SCT-109.018.12	Turbidity Std Ratio 1 NTU	500ml
SCT-109.018.13	Turbidity Std Ratio 2 NTU	100ml
SCT-109.018.14	Turbidity Std Ratio 2 NTU	500ml
SCT-109.018.15	Turbidity Std Ratio 4 NTU	100ml
SCT-109.018.16	Turbidity Std Ratio 4 NTU	500ml
SCT-109.018.17	Turbidity Std Ratio 5 NTU	100ml
SCT-109.018.18	Turbidity Std Ratio 5 NTU	500ml
SCT-109.018.19	Turbidity Std Ratio 10 NTU	100ml
SCT-109.018.20	Turbidity Std Ratio 10 NTU	500ml
SCT-109.018.21	Turbidity Std Ratio 20 NTU	100ml
SCT-109.018.22	Turbidity Std Ratio 20 NTU	500ml
SCT-109.018.23	Turbidity Std Ratio 40 NTU	100ml
SCT-109.018.24	Turbidity Std Ratio 40 NTU	500ml
SCT-109.018.25	Turbidity Std Ratio 50 NTU	100ml
SCT-109.018.26	Turbidity Std Ratio 50 NTU	500ml
SCT-109.018.27	Turbidity Std Ratio 90 NTU	100ml
SCT-109.018.28	Turbidity Std Ratio 90 NTU	500ml
SCT-109.018.29	Turbidity Std Ratio 100 NTU	100ml
SCT-109.018.30	Turbidity Std Ratio 100 NTU	500ml
SCT-109.018.31	Turbidity Std Ratio 400 NTU	100ml
SCT-109.018.32	Turbidity Std Ratio 400 NTU	500ml
SCT-109.018.33	Turbidity Std Ratio 500 NTU	100ml
SCT-109.018.34	Turbidity Std Ratio 500 NTU	500ml
SCT-109.018.35	Turbidity Std Ratio 1000 NTU	100ml
SCT-109.018.36	Turbidity Std Ratio 1000 NTU	500ml
SCT-109.018.37	Turbidity Std Ratio 4000 NTU	100ml
SCT-109.018.38	Turbidity Std Ratio 4000 NTU	500ml
SCT-109.018.39	Turbidity Std Non Ratio 0 NTU	100ml
SCT-109.018.40	Turbidity Std Non Ratio 0 NTU	500ml
SCT-109.018.41	Turbidity Std Non Ratio 0.1 NTU	100ml
SCT-109.018.42	Turbidity Std Non Ratio 0.1 NTU	500ml
SCT-109.018.43	Turbidity Std Non Ratio 0.2 NTU	100ml
SCT-109.018.44	Turbidity Std Non Ratio 0.2 NTU	500ml

SCT-109.018.45	Turbidity Std Non Ratio 0.5 NTU	100ml
SCT-109.018.46	Turbidity Std Non Ratio 0.5 NTU	500ml
SCT-109.018.47	Turbidity Std Non Ratio 1 NTU	100ml
SCT-109.018.48	Turbidity Std Non Ratio 1 NTU	500ml
SCT-109.018.49	Turbidity Std Non Ratio 2 NTU	100ml
SCT-109.018.50	Turbidity Std Non Ratio 2 NTU	500ml
SCT-109.018.51	Turbidity Std Non Ratio 5 NTU	100ml
SCT-109.018.52	Turbidity Std Non Ratio 5 NTU	500ml
SCT-109.018.53	Turbidity Std Non Ratio 10 NTU	100ml
SCT-109.018.54	Turbidity Std Non Ratio 10 NTU	500ml
SCT-109.018.55	Turbidity Std Non Ratio 20 NTU	100ml
SCT-109.018.56	Turbidity Std Non Ratio 20 NTU	500ml
SCT-109.018.57	Turbidity Std Non Ratio 40 NTU	100ml
SCT-109.018.58	Turbidity Std Non Ratio 40 NTU	500ml
SCT-109.018.59	Turbidity Std Non Ratio 50 NTU	100ml
SCT-109.018.60	Turbidity Std Non Ratio 50 NTU	500ml
SCT-109.018.61	Turbidity Std Non Ratio 60 NTU	100ml
SCT-109.018.62	Turbidity Std Non Ratio 60 NTU	500ml
SCT-109.018.63	Turbidity Std Non Ratio 100 NTU	100ml
SCT-109.018.64	Turbidity Std Non Ratio 100 NTU	500ml
SCT-109.018.65	Turbidity Std Non Ratio 200 NTU	100ml
SCT-109.018.66	Turbidity Std Non Ratio 200 NTU	500ml
SCT-109.018.67	Turbidity Std Non Ratio 400 NTU	100ml
SCT-109.018.68	Turbidity Std Non Ratio 400 NTU	500ml
SCT-109.018.69	Turbidity Std Non Ratio 500 NTU	100ml
SCT-109.018.70	Turbidity Std Non Ratio 500 NTU	500ml
SCT-109.018.71	Turbidity Std Non Ratio 800 NTU	100ml
SCT-109.018.72	Turbidity Std Non Ratio 800 NTU	500ml
SCT-109.018.73	Turbidity Std Non Ratio 1000 NTU	100ml
SCT-109.018.74	Turbidity Std Non Ratio 1000 NTU	500ml
SCT-109.018.75	Turbidity Std Non Ratio 4000 NTU	100ml
SCT-109.018.76	Turbidity Std Non Ratio 4000 NTU	500ml

SCT ANALYT ICAL VOLUMETRIC SOLUTIONS

A standard solution is a solution whose concentration is known accurately. Its concentration is usually given in mol dm-3. While making up a standard solution it is important that the correct mass of substance is accurately measured. It is also important that all of this is successfully transferred to the volumetric flask used to make up the solution. A primary standard is a substance of known
high purity which may be dissolved in a known volume of solvent to give a primary standard solution. If stoichiometry is used to establish the strength of a titrant, it is called a secondary standard solution.

The term secondary standard can also be applied to a substance whose active agent contents have been found by comparison against a primary standard. Concentrations of standard solutions may be expressed in or in terms more closely related to those used in specific titrations (as titres).

SCT manufacture a complete range of volumetric solutions for all analytical laboratory applications which can be used for manual or automatic titrations. These are available as ready to use aqueous and non-aqueous titrants and in concentrated format.

SCT READY TO USE AQUEOUS SOLUTIONS

This range of standardised solutions provides a convenient method for accurate volumetric analysis in the laboratory and a cost-effective answer to time and labour consuming preparation problems. These products are certified to a specification as in the Certificate of Analysis. Lot No. and Expiry Date are printed on the label. Where possible, all of these solutions are certified traceable to N.I.S.T and this will be stated in the Certificate of Analysis.

SCT AQUEOUS SOLUTIONS are prepared with a high class calibrated Lab wares. All the chemicals used are inhouse tested with modern instruments and procedures and available in 1000 ml (1 L) & 5000 ml (5 L) pack sizes. Data available in Normality and Molarity.

PRODUCT NO.	DESCRIPTION	NORMALITY	MOLARITY	PACK SIZE
SCT-109.020.01	Acetic Acid	2.0N	2.0M	5L
SCT-109.020.02	Acetic Acid	2.0N	2.0M	1L
SCT-109.020.03	Acetic Acid	1.0N	1.0M	5L
SCT-109.020.04	Acetic Acid	1.0N	1.0M	1L
SCT-109.020.05	Acetic Acid	0.5N	0.5M	5L
SCT-109.020.06	Acetic Acid	0.5N	0.5M	1L
SCT-109.020.07	Acetic Acid	0.1N	0.1M	5L
SCT-109.020.08	Acetic Acid	0.1N	0.1M	1L
SCT-109.020.09	Ammonia	0.1N	0.1M	5L
SCT-109.020.10	Ammonia	0.1N	0.1M	1L
SCT-109.020.11	Ammonium Sulphate	1.0N	0.5M	5L
SCT-109.020.12	Ammonium Sulphate	1.0N	0.5M	1L
SCT-109.020.13	Ammonium Thiocyanate	1.0N	1.0M	1L
SCT-109.020.14	Barium Chloride	2.0N	1.0M	5L
SCT-109.020.15	Barium Chloride	2.0N	1.0M	1L
SCT-109.020.16	Barium Chloride	1.0N	0.5M	5L
SCT-109.020.17	Barium Chloride	1.0N	0.5M	1L
SCT-109.020.18	Barium Chloride	0.1N	0.05M	5L
SCT-109.020.19	Barium Chloride	0.1N	0.05M	1L
SCT-109.020.20	Benzethonium Chloride	0.04N	0.04M	5L
SCT-109.020.21	Benzethonium Chloride	0.04N	0.04M	1L
SCT-109.020.22	Benzethonium Chloride	0.004N	0.004M	5L
SCT-109.020.23	Benzethonium Chloride	0.004N	0.004M	1L
SCT-109.020.24	Bromine (Bromate/bromide)	0.1N	0.05M	5L
SCT-109.020.25	Bromine (Bromate/bromide)	0.1N	0.05M	1L
SCT-109.020.26	Calcium Acetate	1.0N	1.0M	5L
SCT-109.020.27	Calcium Acetate	1.0N	1.0M	1L
SCT-109.020.28	Calcium Chloride	1.0N	0.5M	5L
SCT-109.020.29	Calcium Chloride	1.0N	0.5M	1L
SCT-109.020.30	Calcium Chloride	0.04N	0.02M	5L
SCT-109.020.31	Calcium Chloride	0.04N	0.02M	1L
SCT-109.020.32	Calcium Chloride	0.025N	0.0125M	5L
SCT-109.020.33	Calcium Chloride	0.025N	0.0125M	1L
SCT-109.020.34	Calcium Chloride	0.02N	0.01M	5L
SCT-109.020.35	Calcium Chloride	0.02N	0.01M	1L
SCT-109.020.36	Calcium Chloride	0.01N	0.005M	5L
SCT-109.020.37	Calcium Chloride	0.01N	0.005M	1L
SCT-109.020.38	Cerium IV Sulphate	1.0N	1.0M	5L
SCT-109.020.39	Cerium IV Sulphate	1.0N	1.0M	1L
SCT-109.020.40	Cerium IV Sulphate	0.2N	0.2M	5L
SCT-109.020.41	Cerium IV Sulphate	0.2N	0.2M	1L
SCT-109.020.42	Cerium IV Sulphate	0.1N	0.1M	5L
SCT-109.020.43	Cerium IV Sulphate	0.1N	0.1M	1L
SCT-109.020.44	Cerium IV Sulphate	0.05N	0.05M	5L
SCT-109.020.45	Cerium IV Sulphate	0.05N	0.05M	1L
SCT-109.020.46	Copper II Sulphate	0.5N	0.5M	5L
SCT-109.020.47	Copper II Sulphate	0.5N	0.5M	1L
SCT-109.020.48	Copper II Sulphate	0.1N	0.1M	5L
SCT-109.020.49	Copper II Sulphate	0.1N	0.1M	1L
SCT-109.020.50	Copper II Chloride	0.5N	0.5M	5L
SCT-109.020.51	Copper II Chloride	0.5N	0.5M	1L
SCT-109.020.52	Cupric Solution	0.168N	0.168M	5L
SCT-109.020.53	Cupric Solution	0.168N	0.168M	1L
SCT-109.020.54	EDTA (Disodium salt)	1.0N	0.5M	5L
SCT-109.020.55	EDTA (Disodium salt)	1.0N	0.5M	1L
SCT-109.020.56	EDTA (Disodium salt)	0.2N	0.1M	5L
SCT-109.020.57	EDTA (Disodium salt)	0.2N	0.1M	1L
SCT-109.020.58	EDTA (Disodium salt)	0.02N	0.01M	5L
SCT-109.020.59	EDTA (Disodium salt)	0.02N	0.01M	1L
SCT-109.020.60	Hydrochloric Acid	5.0N	5.0M	5L
SCT-109.020.61	Hydrochloric Acid	5.0N	5.0M	1L
SCT-109.020.62	Hydrochloric Acid	3.57N	3.57M	5L
SCT-109.020.63	Hydrochloric Acid	3.57N	3.57M	1L
SCT-109.020.64	Hydrochloric Acid	2.0N	2.0M	5L
SCT-109.020.65	Hydrochloric Acid	2.0N	2.0M	1L
SCT-109.020.66	Hydrochloric Acid	1.8N	1.8M	5L
SCT-109.020.67	Hydrochloric Acid	1.0N	1.0M	5L
SCT-109.020.68	Hydrochloric Acid	1.0N	1.0M	1L
SCT-109.020.69	Hydrochloric Acid	0.5N	0.5M	5L

SCT-109.020.70	Hydrochloric Acid	0.5N	0.5M	1L
SCT-109.020.71	Hydrochloric Acid	0.357N	0.357M	5L
SCT-109.020.72	Hydrochloric Acid	0.357N	0.357M	1L
SCT-109.020.73	Hydrochloric Acid	0.357N	0.357M	5L
SCT-109.020.74	Hydrochloric Acid	0.357N	0.357M	1L
SCT-109.020.75	Hydrochloric Acid	0.357N	0.357M	5L
SCT-109.020.76	Hydrochloric Acid	0.357N	0.357M	1L
SCT-109.020.77	Hydrochloric Acid	0.1N	0.1M	5L
SCT-109.020.78	Hydrochloric Acid	0.1N	0.1M	1L
SCT-109.020.79	Hydrochloric Acid	0.05N	0.05M	5L
SCT-109.020.80	Hydrochloric Acid	0.05N	0.05M	1L
SCT-109.020.81	Hydrochloric Acid	0.0357N	0.0357M	5L
SCT-109.020.82	Hydrochloric Acid	0.0357N	0.0357M	1L
SCT-109.020.83	Hydrochloric Acid	0.02N	0.02M	5L
SCT-109.020.84	Hydrochloric Acid	0.02N	0.02M	1L
SCT-109.020.85	Hydrofluoric Acid	0.05N	0.05M	5L
SCT-109.020.86	Hydrofluoric Acid	0.05N	0.05M	1L
SCT-109.020.87	Iodine	1.0N	0.5M	1L
SCT-109.020.88	Iodine	0.1N	0.05M	1L
SCT-109.020.89	Iodine	0.0473N	0.02365M	1L
SCT-109.020.90	Iron (II) Sulphate	0.2N	0.2M	5L
SCT-109.020.91	Iron (II) Sulphate	0.2N	0.2M	1L
SCT-109.020.92	Iron (III) Chloride	1.0N	1.0M	5L
SCT-109.020.93	Iron (III) Chloride	1.0N	1.0M	1L
SCT-109.020.94	Lead (II) Acetate	1.0N	0.5M	5L
SCT-109.020.95	Lead (II) Acetate	1.0N	0.5M	1L
SCT-109.020.96	Lead (II) Acetate	0.1N	0.05M	5L
SCT-109.020.97	Lead (II) Acetate	0.1N	0.05M	1L
SCT-109.020.98	Lead (II) Nitrate	1.0N	0.5M	5L
SCT-109.020.99	Lead (II) Nitrate	1.0N	0.5M	1L
SCT-109.020.100	Magnesium Chloride	0.2N	0.1M	5L
SCT-109.020.101	Magnesium Chloride	0.2N	0.1M	1L
SCT-109.020.102	Magnesium Chloride	0.02N	0.01M	5L
SCT-109.020.103	Magnesium Chloride	0.02N	0.01M	1L
SCT-109.020.104	Magnesium Sulphate	0.1N	0.1M	5L
SCT-109.020.105	Magnesium Sulphate	0.1N	0.1M	1L
SCT-109.020.106	Manganese (II) Chloride	0.5N	0.5M	5L
SCT-109.020.107	Manganese (II) Chloride	0.5N	0.5M	1L
SCT-109.020.108	Manganese (II) Chloride	0.05N	0.05M	5L
SCT-109.020.109	Manganese (II) Chloride	0.05N	0.05M	1L
SCT-109.020.110	Mercury (I) Nitrate	0.1N	0.1M	5L
SCT-109.020.111	Mercury (I) Nitrate	0.1N	0.1M	1L
SCT-109.020.112	Mercury (II) Nitrate	0.02N	0.01M	5L
SCT-109.020.113	Mercury (II) Nitrate	0.02N	0.01M	1L
SCT-109.020.114	Mercury (II) Nitrate	0.01N	0.005M	5L
SCT-109.020.115	Mercury (II) Nitrate	0.01N	0.005M	1L
SCT-109.020.116	Nickel (II) Chloride	0.5N	0.5M	5L
SCT-109.020.117	Nickel (II) Chloride	0.5N	0.5M	1L
SCT-109.020.118	Nickel (II) Chloride	0.05N	0.05M	5L
SCT-109.020.119	Nickel (II) Chloride	0.05N	0.05M	1L
SCT-109.020.120	Nitric Acid	8.0N	8.0M	5L
SCT-109.020.121	Nitric Acid	8.0N	8.0M	1L
SCT-109.020.122	Nitric Acid	4.0N	4.0M	5L
SCT-109.020.123	Nitric Acid	4.0N	4.0M	1L
SCT-109.020.124	Nitric Acid	2.0N	2.0M	5L
SCT-109.020.125	Nitric Acid	2.0N	2.0M	1L
SCT-109.020.126	Nitric Acid	1.0N	1.0M	5L
SCT-109.020.127	Nitric Acid	1.0N	1.0M	1L
SCT-109.020.128	Nitric Acid	0.1N	0.1M	5L
SCT-109.020.129	Nitric Acid	0.1N	0.1M	1L
SCT-109.020.130	Nitric Acid	0.02N	0.02M	5L
SCT-109.020.131	Nitric Acid	0.02N	0.02M	1L
SCT-109.020.132	Oxalic Acid	1.0N	0.5M	5L
SCT-109.020.133	Oxalic Acid	1.0N	0.5M	1L
SCT-109.020.134	Oxalic Acid	0.1N	0.05M	5L
SCT-109.020.135	Oxalic Acid	0.1N	0.05M	1L
SCT-109.020.136	Oxalic Acid	0.05N	0.025M	5L
SCT-109.020.137	Oxalic Acid	0.05N	0.025M	1L
SCT-109.020.138	Perchloric Acid in Acetic Acid	0.5N	0.5M	1L
SCT-109.020.139	Perchloric Acid in Acetic Acid	0.5N	0.5M	1L

SCT-109.020.140	Potassium Bromate/Bromide	0.1N	0.0167M	1L
SCT-109.020.141	Potassium Chloride	1.0N	1.0M	5L
SCT-109.020.142	Potassium Chloride	1.0N	1.0M	1L
SCT-109.020.143	Potassium Chloride	0.2N	0.2M	5L
SCT-109.020.144	Potassium Chloride	0.2N	0.2M	1L
SCT-109.020.145	Potassium Dichromate	1.0N	0.167M	1L
SCT-109.020.146	Potassium Dichromate	0.25N	0.041M	1L
SCT-109.020.147	Potassium Dichromate	0.1N	0.0167M	1L
SCT-109.020.148	Potassium Dichromate	0.125N	0.0208M	1L
SCT-109.020.149	Potassium Ferricyanide	0.1N	0.1M	5L
SCT-109.020.150	Potassium Ferricyanide	0.1N	0.1M	1L
SCT-109.020.151	Potassium Hydrogen Phthalate	0.1N	0.1M	5L
SCT-109.020.152	Potassium Hydrogen Phthalate	0.1N	0.1M	1L
SCT-109.020.153	Potassium Hydroxide	1.0N	1.0M	10L
SCT-109.020.154	Potassium Hydroxide	1.0N	1.0M	5L
SCT-109.020.155	Potassium Hydroxide	1.0N	1.0M	1L
SCT-109.020.156	Potassium Hydroxide	0.1N	0.1M	10L
SCT-109.020.157	Potassium Hydroxide	0.1N	0.1M	5L
SCT-109.020.158	Potassium Hydroxide	0.1N	0.1M	1L
SCT-109.020.159	Potassium Hydroxide	0.5N	0.5M	5L
SCT-109.020.160	Potassium Hydroxide	0.5N	0.5M	1L
SCT-109.020.161	Potassium Hydroxide	0.05N	0.05M	5L
SCT-109.020.162	Potassium Hydroxide	0.05N	0.05M	1L
SCT-109.020.163	Potassium Iodate/Iodide	0.02N	0.00333M	2.5L
SCT-109.020.164	Potassium Iodate	0.3N	0.05M	2.5L
SCT-109.020.165	Potassium Iodate	0.15N	0.025M	2.5L
SCT-109.020.166	Potassium Iodate	0.1N	0.01667M	2.5L
SCT-109.020.167	Potassium Iodide	3.0N	3.0M	5L
SCT-109.020.168	Potassium Iodide	3.0N	3.0M	1L
SCT-109.020.169	Potassium Iodide	1.0N	1.0M	5L
SCT-109.020.170	Potassium Iodide	1.0N	1.0M	1L
SCT-109.020.171	Potassium Iodide	0.1N	0.1M	5L
SCT-109.020.172	Potassium Iodide	0.1N	0.1M	1L
SCT-109.020.173	di-Potassium Oxalate	0.1N	0.05M	5L
SCT-109.020.174	di-Potassium Oxalate	0.1N	0.05M	1L
SCT-109.020.175	Potassium Permanganate	1.0N	0.2M	2.5L
SCT-109.020.176	Potassium Permanganate	1.0N	0.2M	1L
SCT-109.020.177	Potassium Permanganate	0.1N	0.02M	2.5L
SCT-109.020.178	Potassium Permanganate	0.1N	0.02M	1L
SCT-109.020.179	Potassium Permanganate	0.05N	0.01M	.5L
SCT-109.020.180	Potassium Permanganate	0.05N	0.01M	1L
SCT-109.020.181	Potassium Thiocyanate	1.0N	1.0M	2.5L
SCT-109.020.182	Potassium Thiocyanate	1.0N	1.0M	1L
SCT-109.020.183	Potassium Thiocyanate	0.1N	0.1M	2.5L
SCT-109.020.184	Potassium Thiocyanate	0.1N	0.1M	1L
SCT-109.020.185	Potassium Thiocyanate	0.05N	0.05M	2.5L
SCT-109.020.186	Potassium Thiocyanate	0.05N	0.05M	1L
SCT-109.020.187	Potassium Thiocyanate	0.02N	0.02M	2.5L
SCT-109.020.188	Potassium Thiocyanate	0.02N	0.02M	1L
SCT-109.020.189	Silver Nitrate	1.0N	1.0M	1L
SCT-109.020.190	Silver Nitrate	0.1709N	0.1709M	2.5L
SCT-109.020.191	Silver Nitrate	0.1N	0.1M	2.5L
SCT-109.020.192	Silver Nitrate	0.1N	0.1M	1L
SCT-109.020.193	Silver Nitrate	0.085N	0.085M	2.5L
SCT-109.020.194	Silver Nitrate	0.05N	0.05M	2.5L
SCT-109.020.195	Silver Nitrate	0.0282N	0.0282M	2.5L
SCT-109.020.196	Silver Nitrate	0.025N	0.025M	1L
SCT-109.020.197	Silver Nitrate	0.02N	0.02M	1L
SCT-109.020.198	Silver Nitrate	0.0141N	0.0141M	2.5L
SCT-109.020.199	Sodium Arsenite	0.1N	0.5M	2.5L
SCT-109.020.200	Sodium Carbonate	1.0N	0.5M	5L
SCT-109.020.201	Sodium Carbonate	1.0N	0.5M	1L
SCT-109.020.202	Sodium Carbonate	0.1N	0.05M	5L
SCT-109.020.203	Sodium Carbonate	0.1N	0.05M	1L
SCT-109.020.204	Sodium Chloride	0.1N	0.1M	5L
SCT-109.020.205	Sodium Chloride	0.1N	0.1M	1L
SCT-109.020.206	Sodium Chloride	0.05N	0.05M	5L
SCT-109.020.207	Sodium Chloride	0.05N	0.05M	1L
SCT-109.020.208	Sodium Hydroxide	5.0N	5.0M	5L
SCT-109.020.209	Sodium Hydroxide	5.0N	5.0M	1L

SCT-109.020.210	Sodium Hydroxide	3.57N	3.57M	5L
SCT-109.020.211	Sodium Hydroxide	3.57N	3.57M	1L
SCT-109.020.212	Sodium Hydroxide	2.0N	2.0M	5L
SCT-109.020.213	Sodium Hydroxide	2.0N	2.0M	1L
SCT-109.020.214	Sodium Hydroxide	1.2N	1.2M	25L
SCT-109.020.215	Sodium Hydroxide	1.2N	1.2M	5L
SCT-109.020.216	Sodium Hydroxide	1.0N	1.0M	5L
SCT-109.020.217	Sodium Hydroxide	1.0N	1.0M	1L
SCT-109.020.218	Sodium Hydroxide	0.6N	0.6M	5L
SCT-109.020.219	Sodium Hydroxide	0.5N	0.5M	5L
SCT-109.020.220	Sodium Hydroxide	0.5N	0.5M	1L
SCT-109.020.221	Sodium Hydroxide	0.35465N	0.35465M	5L
SCT-109.020.222	Sodium Hydroxide	0.35465N	0.35465M	1L
SCT-109.020.223	Sodium Hydroxide	0.313N	0.313M	5L
SCT-109.020.224	Sodium Hydroxide	0.313N	0.313M	1L
SCT-109.020.225	Sodium Hydroxide	0.25N	0.25M	5L
SCT-109.020.226	Sodium Hydroxide	0.25N	0.25M	1L
SCT-109.020.227	Sodium Hydroxide	0.2N	0.2M	5L
SCT-109.020.228	Sodium Hydroxide	0.2N	0.2M	1L
SCT-109.020.229	Sodium Hydroxide	0.111N	0.111M	5L
SCT-109.020.230	Sodium Hydroxide	0.111N	0.111M	1L
SCT-109.020.231	Sodium Hydroxide	0.1N	0.1M	5L
SCT-109.020.232	Sodium Hydroxide	0.1N	0.1M	1L
SCT-109.020.233	Sodium Hydroxide	0.02N	0.02M	5L
SCT-109.020.234	Sodium Hydroxide	0.02N	0.02M	1L
SCT-109.020.235	Sodium Hydroxide (Low in carbonate)	1.0N	1.0M	5L
SCT-109.020.236	Sodium Hydroxide (Low in carbonate)	1.0N	1.0M	1L
SCT-109.020.237	Sodium Hydroxide (Low in carbonate)	0.5N	0.5M	5L
SCT-109.020.238	Sodium Hydroxide (Low in carbonate)	0.5N	0.5M	1L
SCT-109.020.239	Sodium Hydroxide (Low in carbonate)	0.1N	0.1M	5L
SCT-109.020.240	Sodium Hydroxide (Low in carbonate)	0.1N	0.1M	1L
SCT-109.020.241	Sodium Nitrite	0.5N	0.5M	5L
SCT-109.020.242	Sodium Nitrite	0.5N	0.5M	1L
SCT-109.020.243	Sodium Thiocyanate	1.0N	1.0M	5L
SCT-109.020.244	Sodium Thiocyanate	1.0N	1.0M	1L
SCT-109.020.245	Sodium Thiocyanate	0.1N	0.1M	5L
SCT-109.020.246	Sodium Thiocyanate	0.1N	0.1M	1L
SCT-109.020.247	Sodium Thiosulphate	1.0N	1.0M	5L
SCT-109.020.248	Sodium Thiosulphate	1.0N	1.0M	1L
SCT-109.020.249	Sodium Thiosulphate	0.1N	0.1M	5L
SCT-109.020.250	Sodium Thiosulphate	0.1N	0.1M	1L
SCT-109.020.251	Sodium Thiosulphate	0.0551N	0.0551M	5L
SCT-109.020.252	Sodium Thiosulphate	0.0551N	0.0551M	1L
SCT-109.020.253	Sodium Thiosulphate	0.05N	0.05M	5L
SCT-109.020.254	Sodium Thiosulphate	0.05N	0.05M	1L
SCT-109.020.255	Sodium Thiosulphate	0.01N	0.01M	5L
SCT-109.020.256	Sodium Thiosulphate	0.01N	0.01M	1L
SCT-109.020.257	Sulphuric Acid	10.0N	5.0M	5L
SCT-109.020.258	Sulphuric Acid	10.0N	5.0M	1L
SCT-109.020.259	Sulphuric Acid	5.0N	2.5M	10L
SCT-109.020.260	Sulphuric Acid	5.0N	2.5M	5L
SCT-109.020.261	Sulphuric Acid	5.0N	2.5M	1L
SCT-109.020.262	Sulphuric Acid	2.0N	1.0M	5L
SCT-109.020.263	Sulphuric Acid	2.0N	1.0M	1L
SCT-109.020.264	Sulphuric Acid	1.8N	0.9M	5L
SCT-109.020.265	Sulphuric Acid	1.0N	0.5M	10L
SCT-109.020.266	Sulphuric Acid	1.0N	0.5M	5L
SCT-109.020.267	Sulphuric Acid	1.0N	0.5M	1L
SCT-109.020.268	Sulphuric Acid	0.638N	0.319M	5L
SCT-109.020.269	Sulphuric Acid	0.638N	0.319M	1L
SCT-109.020.270	Sulphuric Acid	0.5N	0.25M	10L
SCT-109.020.271	Sulphuric Acid	0.5N	0.25M	5L
SCT-109.020.272	Sulphuric Acid	0.5N	0.25M	1L
SCT-109.020.273	Sulphuric Acid	0.26N	0.13M	5L
SCT-109.020.274	Sulphuric Acid	0.26N	0.13M	1L
SCT-109.020.275	Sulphuric Acid	0.255N	0.1275M	5L
SCT-109.020.276	Sulphuric Acid	0.255N	0.1275M	1L
SCT-109.020.277	Sulphuric Acid	0.2N	0.1M	5L
SCT-109.020.278	Sulphuric Acid	0.2N	0.1M	1L
SCT-109.020.279	Sulphuric Acid	0.1N	0.05M	5L

SCT-109.020.280	Sulphuric Acid	0.1N	0.05M	1L
SCT-109.020.281	Sulphuric Acid	0.02N	0.01M	5L
SCT-109.020.282	Sulphuric Acid	0.02N	0.01M	1L
SCT-109.020.283	Sulphuric Acid	0.0832N	0.0416M	5L
SCT-109.020.284	Sulphuric Acid	0.0832N	0.0416M	1L
SCT-109.020.285	Zinc Chloride	0.1N	0.1M	5L
SCT-109.020.286	Zinc Chloride	0.1N	0.1M	1L
SCT-109.020.287	Zinc Chloride	0.5N	0.5M	5L
SCT-109.020.288	Zinc Chloride	0.5N	0.5M	1L
SCT-109.020.289	Zinc Sulphate	0.05N	0.05M	5L
SCT-109.020.290	Zinc Sulphate	0.05N	0.05M	1L
SCT-109.020.291	Zinc Sulphate	0.1N	0.1M	5L
SCT-109.020.292	Zinc Sulphate	0.1N	0.1M	1L

*All our Aqueous analytical volumetric solution are made high quality chemicals from various manufacturers as per “NIST” standards.
We can supply any other concentrations (or) pack sizes of solution, which are not listed in our ScichemTech Catalogue.

SCT NON AQUEOUS TITRANTS

ScichemTech non-aqueous titrants are manufactured and supplied various pack sizes 500 ml, 1000 ml and 2500 ml required by the analytical chemists/ scientists, it is made to suit the general International standards.

SCT NON AQUEOUS TITRANTS / SOLUTIONS are prepared with a high class calibrated Lab wares. All the chemicals used are inhouse tested with modern instruments and procedures and available in 1000 ml (1 L) & 5000 ml (5 L) pack sizes. Data available in Normality and Molarity.

PRODUCT NO.	DESCRIPTION	PACK SIZE
SCT-109.021.01	0.5N Methanolic HCl	2.5L
SCT-109.021.02	0.5N Morpholine in Methanol	2.5L
SCT-109.021.03	0.1N Potassium Methoxide	500ml
SCT-109.021.04	0.1N Tetra n Butyl Ammonium Hydroxide in 50/50 Methanol/Propan-2-ol	500ml
SCT-109.021.05	0.5N Tetra n Butyl Ammonium Hydroxide in 50/50 Methanol / Propan-2-ol	500ml
SCT-109.021.06	0.02N Tetra N Butyl Ammonium Hydroxide in 50/50 Methanol / propan-2-ol	500ml
SCT-109.021.07	1.0N Potassium Hydroxide in Ethanol	1L
SCT-109.021.08	1.0N Potassium Hydroxide in Ethanol	2.5L
SCT-109.021.09	0.5N Potassium Hydroxide in Ethanol	1L
SCT-109.021.10	0.5N Potassium Hydroxide in Ethanol	2.5L
SCT-109.021.11	0.1N Potassium Hydroxide in Ethanol	1L
SCT-109.021.12	0.1N Potassium Hydroxide in Ethanol	2.5L
SCT-109.021.13	1.0N Potassium Hydroxide in Methanol	1L
SCT-109.021.14	1.0N Potassium Hydroxide in Methanol	2.5L
SCT-109.021.15	0.5N Potassium Hydroxide in Methanol	1L
SCT-109.021.16	0.5N Potassium Hydroxide in Methanol	2.5L
SCT-109.021.17	0.1N Potassium Hydroxide in Methanol	1L
SCT-109.021.18	0.1N Potassium Hydroxide in Methanol	2.5L
SCT-109.021.19	0.1 Lithium Methoxide in Toluene/Methanol	500ml
SCT-109.021.20	0.1N Perchloric Acid in Acetic Acid	500ml
SCT-109.021.21	0.1N Perchloric Acid in Acetic Acid	2.5L
SCT-109.021.22	0.1N Perchloric Acid in 1.4 Dioxan	2.5L
SCT-109.021.23	0.1N Silver Nitrate in Methanol	1L
SCT-109.021.24	0.1N Silver Nitrate in Methanol	500ml
SCT-109.021.25	0.01N Silver Nitrate in Methanol	1L
SCT-109.021.26	0.01N Silver Nitrate in Methanol	500ml

SCT CONCENTRATED VOLUMETRIC SOLUTIONS IN SCT (CHEMPOULES)

Most of the world customers use the volumetric solutions for their general day to day analytical purposes and they do not want to keep these solutions in a large storing place and due to safety purposes and regulation also, keeping this in mind, Or SCT R&D, decided to manufacture the volumetric solutions in the concentrated form (in the ampoules),we at ScichemTech we called it as “Chempoules” (just registed). We are manufacturing and distributing all the standard concentrated volumetric all the standard concentrated volumetric solutions, however if you need any specific requirement, please contact us.

PRODUCT NO.	DESCRIPTION	PACK SIZE 1 CHEMPOULES TO MAKE
SCT-109.022.01	Acetic Acid 1.0N (1.0M)	1L
SCT-109.022.02	Ammonia 1.0N (1.0M)	1L
SCT-109.022.03	Ammonia 0.1N (0.1M)	1L
SCT-109.022.04	Ammonium Thiocyanate 0.1N (0.1M)	1L
SCT-109.022.05	EDTA (di Sodium Salt) 0.2N (0.1M)	1L
SCT-109.022.06	EDTA (di Sodium Salt) 0.02N (0.01M)	1L
SCT-109.022.07	EDTA (tri Sodium Salt)) 0.1N (0.1M	1L
SCT-109.022.08	Hydrochloric Acid 1.0N (1.0M)	1L
SCT-109.022.09	Hydrochloric Acid 0.5N (0.5M)	1L
SCT-109.022.10	Hydrochloric Acid 0.2N (0.2M)	1L
SCT-109.022.11	Hydrochloric Acid 0.1N (0.1M)	1L
SCT-109.022.12	Iodine 0.1N (0.05M)	1L
SCT-109.022.13	Iodine 0.05N (0.025M)	1L
SCT-109.022.14	Iodine 0.025N (0.0125M)	1L
SCT-109.022.15	Iodine 0.01N (0.005M)	1L
SCT-109.022.16	Nitric Acid 1.0N (1.0M)	1L
SCT-109.022.17	Potassium Permanganate 0.1N (0.02M)	1L
SCT-109.022.18	Silver Nitrate 0.1N (0.1M)	1L
SCT-109.022.19	Silver Nitrate 0.0282N (0.0282M)	1L
SCT-109.022.20	Sodium Hydroxide 1.0N (1.0M)	1L
SCT-109.022.21	Sodium Hydroxide 0.5N (0.5M)	1L
SCT-109.022.22	Sodium Hydroxide 0.1N (0.1M)	1L
SCT-109.022.23	Sodium Thiosulphate 0.1N (0.1M)	1L
SCT-109.022.24	Sodium Thiosulphate 0.0125N (0.0125M)	1L
SCT-109.022.25	Sulphuric Acid 1.0N (0.5M)	1L
SCT-109.022.26	Sulphuric Acid 0.1N (0.05M)	1L
SCT-109.022.27	Sulphuric Acid 0.02N (0.01M)	1L

Just break the Chempoule's top and pour / mix it with 1000ml 0f water.(BREAK "N" POUR).

SCT INORGANIC SPECTROSCOPY STANDARDS (SINGLE ELEMENT)

Spectroscopy and spectrography are terms used to refer to the measurement of radiation intensity as a function of wavelength and are often used to describe experimental spectroscopic methods. Spectral measurement devices are referred to as spectrometers, spectrophotometers, spectrographs or spectral analyzers.

INORGANIC SINGLE ELEMENT STANDARDS FOR PLASMA EMISSION SPECTROSCOPY ICP – DCP – ICP – MS

ScichemTech® R&D has included various inorganic standards, which are manufactured with high purity chemicals and uses
<18 m.ohm water, with high purity matrix materials. These standard solutions are widely used in high-tech analytical applications
like spectroscopy, plasma emissions spectroscopy, mass spectroscopy.
SCT INORGANIC SINGLE ELEMENT STANDARDS / SOLUTIONS are prepared with a high class calibrated Lab wares. All the chemicals used are inhouse tested with modern instruments and procedures and available in 100 ML AND 250 ml pack sizes.

INORGANIC SINGLE ELEMENT STANDARDS FOR PLASMA EMISSION SPECTROSCOPY ICP – DCP – ICP – MS

ScichemTech® R&D has included various inorganic standards, which are manufactured with high purity chemicals and uses <18 m.ohm water, with high purity matrix materials. These standard solutions are widely used in high-tech analytical applications like spectroscopy, plasma emissions spectroscopy, mass spectroscopy. Our standards are highly reliable, and packed in a nice way.

PRODUCT NO.	DESCRIPTION	Conc µg/ml	PACK SIZE
SCT-109.023.01	Aluminum 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.02	Aluminum 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.03	Aluminum 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.04	Aluminum 2-5% HCl	1,000µg/ml	250ml
SCT-109.023.05	Aluminum 2-5% HCl	10,000µg/ml	250ml
SCT-109.023.06	Antimony- 6%Tartaric	1,000µg/ml	250ml
SCT-109.023.07	Antimony -Acid	1,000µg/ml	100ml
SCT-109.023.08	Antimony + tr HNO3	10,000µg/ml	250ml

SCT-109.023.09	Antimony - 20% HCl (in Teflon)	1,000µg/ml	250ml
SCT-109.023.10	Antimony - 20% HCl (in Teflon)	10,000µg/ml	250ml
SCT-109.023.11	Arsenic 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.12	Arsenic 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.13	Arsenic 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.14	Arsenic 2-5% HCl	1,000µg/ml	250ml
SCT-109.023.15	Arsenic 2-5% HCl	10,000µg/ml	250ml
SCT-109.023.16	Barium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.17	Barium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.18	Barium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.19	Barium 2-5% HCl	1,000µg/ml	250ml
SCT-109.023.20	Barium 2-5% HCl	10,000µg/ml	250ml
SCT-109.023.21	Beryllium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.22	Beryllium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.23	Beryllium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.24	Bismuth 10% HNO3	1,000µg/ml	250ml
SCT-109.023.25	Bismuth 10% HNO3	1,000µg/ml	100ml
SCT-109.023.26	Bismuth 10% HNO3	10,000µg/ml	250ml
SCT-109.023.27	Bismuth H_2O	1,000µg/ml	250ml
SCT-109.023.28	Boron H_2O	1,000µg/ml	250ml
SCT-109.023.29	Boron H2O	1,000µg/ml	100ml
SCT-109.023.30	Boron H2O	10,000µg/ml	250ml
SCT-109.023.31	Cadmium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.32	Cadmium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.33	Cadmium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.34	Cadmium 2-5% HCl	1,000µg/ml	250ml
SCT-109.023.35	Cadmium 2-5% HCl	10,000µg/ml	250ml
SCT-109.023.36	Calcium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.37	Calcium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.38	Calcium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.39	Calcium 2-5% HCl	1,000µg/ml	250ml
SCT-109.023.40	Calcium 2-5% HCl	10,000µg/ml	250ml
SCT-109.023.41	Carbon H2O	1,000µg/ml	250ml
SCT-109.023.42	Carbon H2O	1,000µg/ml	100ml
SCT-109.023.43	Carbon H2O	10,000µg/ml	250ml
SCT-109.023.44	Cerium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.45	Cerium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.46	Cerium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.47	Cesium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.48	Cesium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.49	Cesium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.50	Chromium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.51	Chromium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.52	Chromium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.53	Chromium 2-5% HCl	1,000µg/ml	250ml
SCT-109.023.54	Chromium 2-5% HCl	10,000µg/ml	250ml
SCT-109.023.55	Chromium H2O	1,000µg/ml	250ml
SCT-109.023.56	Chromium H2O	10,000µg/ml	250ml
SCT-109.023.57	Cobalt 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.58	Cobalt 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.59	Cobalt 2-5% HCl	10,000µg/ml	250ml
SCT-109.023.60	Copper 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.61	Copper 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.62	Copper 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.63	Copper 2-5% HCl	1,000µg/ml	250ml
SCT-109.023.64	Copper 2-5% HCl	10,000µg/ml	250ml
SCT-109.023.65	Dysprosium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.66	Dysprosium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.67	Dysprosium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.68	Erbium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.69	Erbium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.70	Erbium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.71	Europium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.72	Europium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.73	Europium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.74	Gadolinium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.75	Gadolinium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.76	Gadolinium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.77	Gallium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.78	Gallium 2-5% HNO3	1,000µg/ml	100ml

SCT-109.023.79	Gallium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.80	Germanium H2O/tr HF	1,000µg/ml	250ml
SCT-109.023.81	Germanium H2O/tr HF	1,000µg/ml	100ml
SCT-109.023.82	Germanium H2O/tr HF	10,000µg/ml	250ml
SCT-109.023.83	Gold 10% HCl	1,000µg/ml	250ml
SCT-109.023.84	Gold 10% HCl	1,000µg/ml	100ml
SCT-109.023.85	Gold 10% HCl	10,000µg/ml	250ml
SCT-109.023.86	Hafnium 2-5% HCl	1,000µg/ml	250ml
SCT-109.023.87	Hafnium 2-5% HCl	1,000µg/ml	100ml
SCT-109.023.88	Hafnium 2-5% HCl	10,000µg/ml	250ml
SCT-109.023.89	Holmium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.90	Holmium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.91	Holmium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.92	Indium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.93	Indium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.94	Indium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.95	Iridum 10% HCl	1,000µg/ml	250ml
SCT-109.023.96	Iridum 10% HCl	1,000µg/ml	100ml
SCT-109.023.97	Iridum 10% HCl	10,000µg/ml	250ml
SCT-109.023.98	Iron 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.99	Iron 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.100	Iron 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.101	Iron 2-5% HCl	1,000µg/ml	250ml
SCT-109.023.102	Iron 2-5% HCl	10,000µg/ml	250ml
SCT-109.023.103	Lanthanum 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.104	Lanthanum 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.105	Lanthanum 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.106	Lead 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.107	Lead 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.108	Lead 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.109	Lithium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.110	Lithium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.111	Lithium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.112	Lithium 2-5% HCl	1,000µg/ml	250ml
SCT-109.023.113	Lithium 2-5% HCl	10,000µg/ml	250ml
SCT-109.023.114	Lutetium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.115	Lutetium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.116	Lutetium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.117	Magnesium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.118	Magnesium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.119	Magnesium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.120	Magnesium 2-5% HCl	1,000µg/ml	250ml
SCT-109.023.121	Magnesium 2-5% HCl	10,000µg/ml	250ml
SCT-109.023.122	Manganese 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.123	Manganese 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.124	Manganese 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.125	Mercury 10% HNO3	1,000µg/ml	250ml
SCT-109.023.126	Mercury 10% HNO3	1,000µg/ml	100ml
SCT-109.023.127	Mercury 10% HNO3	10,000µg/ml	250ml
SCT-109.023.128	Molybdenum H2O	1,000µg/ml	250ml
SCT-109.023.129	Molybdenum H2O	1,000µg/ml	100ml
SCT-109.023.130	Molybdenum H2O	10,000µg/ml	250ml
SCT-109.023.131	Neodymium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.132	Neodymium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.133	Neodymium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.134	Nickel 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.135	Nickel 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.136	Nickel 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.137	Niobium H2O/tr HF	1,000µg/ml	250ml
SCT-109.023.138	Niobium H2O/tr HF	1,000µg/ml	100ml
SCT-109.023.139	Niobium H2O/tr HF	10,000µg/ml	250ml
SCT-109.023.140	Palladium 10% HCl	1,000µg/ml	250ml
SCT-109.023.141	Palladium 10% HCl	1,000µg/ml	100ml
SCT-109.023.142	Palladium 10% HCl	10,000µg/ml	250ml
SCT-109.023.143	Phosphorus H2O	1,000µg/ml	250ml
SCT-109.023.144	Phosphorus H2O	1,000µg/ml	100ml
SCT-109.023.145	Phosphorus H2O	10,000µg/ml	250ml
SCT-109.023.146	Platinum 10% HCl	1,000µg/ml	250ml
SCT-109.023.147	Platinum 10% HCl	1,000µg/ml	100ml
SCT-109.023.148	Platinum 10% HCl	10,000µg/ml	250ml

SCT-109.023.149	Potassium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.150	Potassium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.151	Potassium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.152	Potassium 2-5% HCl	1,000µg/ml	250ml
SCT-109.023.153	Potassium 2-5% HCl	10,000µg/ml	250ml
SCT-109.023.154	Praseodymium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.155	Praseodymium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.156	Praseodymium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.157	Rhenium H2O	1,000µg/ml	250ml
SCT-109.023.158	Rhenium H2O	1,000µg/ml	100ml
SCT-109.023.159	Rhenium H2O	10,000µg/ml	250ml
SCT-109.023.160	Rhodium 10% HCl	1,000µg/ml	250ml
SCT-109.023.161	Rhodium 10% HCl	1,000µg/ml	100ml
SCT-109.023.162	Rhodium 10% HCl	10,000µg/ml	250ml
SCT-109.023.163	Rubidium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.164	Rubidium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.165	Rubidium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.166	Ruthenium 10% HCl	1,000µg/ml	250ml
SCT-109.023.167	Ruthenium 10% HCl	1,000µg/ml	100ml
SCT-109.023.168	Ruthenium 10% HCl	10,000µg/ml	250ml
SCT-109.023.169	Samarim 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.170	Samarim 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.171	Samarim 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.172	Scandium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.173	Scandium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.174	Scandium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.175	Selenium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.176	Selenium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.177	Selenium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.178	Silicon H2O/tr HF	1,000µg/ml	250ml
SCT-109.023.179	Silicon H2O/tr HF	1,000µg/ml	100ml
SCT-109.023.180	Silicon H2O/tr HF	10,000µg/ml	250ml
SCT-109.023.181	Silicon H2O	1,000µg/ml	250ml
SCT-109.023.182	Silicon H2O	10,000µg/ml	250ml
SCT-109.023.183	Silver 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.184	Silver 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.185	Silver 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.186	Sodium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.187	Sodium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.188	Sodium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.189	Sodium 2-5% HCl	1,000µg/ml	250ml
SCT-109.023.190	Sodium 2-5% HCl	10,000µg/ml	250ml
SCT-109.023.191	Strontium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.192	Strontium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.193	Strontium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.194	Strontium 2-5% HCl	1,000µg/ml	250ml
SCT-109.023.195	Strontium 2-5% HCl	10,000µg/ml	250ml
SCT-109.023.196	Sulphur H2O	1,000µg/ml	250ml
SCT-109.023.197	Sulphur H2O	1,000µg/ml	100ml
SCT-109.023.198	Sulphur H2O	10,000µg/ml	250ml
SCT-109.023.199	Tantalum H2O/tr HF	1,000µg/ml	250ml
SCT-109.023.200	Tantalum H2O/tr HF	1,000µg/ml	100ml
SCT-109.023.201	Tantalum H2O/tr HF	10,000µg/ml	250ml
SCT-109.023.202	Tellurium 5% HNO3	1,000µg/ml	250ml
SCT-109.023.203	Tellurium 5% HNO3	1,000µg/ml	100ml
SCT-109.023.204	Tellurium 20% HNO3	10,000µg/ml	250ml
SCT-109.023.205	Tellurium 10% HCl	1,000µg/ml	250ml
SCT-109.023.206	Tellurium 30% HCl (Teflon)	10,000µg/ml	250ml
SCT-109.023.207	Terbium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.208	Terbium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.209	Terbium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.210	Thallium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.211	Thallium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.212	Thallium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.213	Thorium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.214	Thorium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.215	Thorium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.216	Thulium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.217	Thulium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.218	Thulium 2-5% HNO3	10,000µg/ml	250ml

SCT-109.023.219	Tin 1% HNO3/1%HF	1,000µg/ml	250ml
SCT-109.023.220	Tin 2% HNO3	10,000µg/ml	250ml
SCT-109.023.221	Tin 20% HCL/1% HF	1,000µg/ml	250ml
SCT-109.023.222	Tin 20% HCL/1% HF	1,000µg/ml	100ml
SCT-109.023.223	Tin 20% HCL/1% HF in Teflon	10,000µg/ml	250ml
SCT-109.023.224	Titanium H2O/tr HF	1,000µg/ml	250ml
SCT-109.023.225	Titanium H2O/tr HF	1,000µg/ml	100ml
SCT-109.023.226	Titanium H2O/tr HF	10,000µg/ml	250ml
SCT-109.023.227	Titanium 20% HCI	1,000µg/ml	250ml
SCT-109.023.228	Titanium 40% HCL (Teflon)	10,000µg/ml	250ml
SCT-109.023.229	Tungsten H2O	1,000µg/ml	250ml
SCT-109.023.230	Tungsten H2O	1,000µg/ml	
SCT-109.023.231	Tungsten H2O	10,000µg/ml	250ml
SCT-109.023.232	Tungsten 1%HNO3 +2%HF	1,000µg/ml	250ml
SCT-109.023.233	Tungsten 2% HNO3 +5%HF	10,000µg/ml	250ml
SCT-109.023.234	Uranium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.235	Uranium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.236	Uranium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.237	Vanadium 2% HNO3	1,000µg/ml	250ml
SCT-109.023.238	Vanadium 2% HNO3	1,000µg/ml	100ml
SCT-109.023.239	Vanadium 15% HNO3	10,000µg/ml	250ml
SCT-109.023.240	Vanadium2% HCI	1,000µg/ml	250ml
SCT-109.023.241	Vanadium 15% HCI	10,000µg/ml	250ml
SCT-109.023.242	Ytterbium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.243	Ytterbium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.244	Ytterbium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.245	Yttrium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.246	Yttrium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.247	Yttrium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.248	Zinc 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.249	Zinc 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.250	Zinc 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.251	Zinc 2-5% HCI	1,000µg/ml	250ml
SCT-109.023.252	Zinc 2-5% HCI	10,000µg/ml	250ml
SCT-109.023.253	Zirconium 2-5% HNO3	1,000µg/ml	250ml
SCT-109.023.254	Zirconium 2-5% HNO3	1,000µg/ml	100ml
SCT-109.023.255	Zirconium 2-5% HNO3	10,000µg/ml	250ml
SCT-109.023.256	Zirconium 10% HCI	1,000µg/ml	250ml
SCT-109.023.257	MATRIX BLANKS 5% HNO3	ASTM Type 1 Water	500ml
SCT-109.023.258	MATRIX BLANKS 5% HNO3	ASTM Type 1 Water	1L
SCT-109.023.259	MATRIX BLANKS 5% HCI	ASTM Type 1 Water	500ml
SCT-109.023.260	MATRIX BLANKS 5% HCI	ASTM Type 1 Water	1L
SCT-109.023.261	ASTM Type 1 Water	ASTM Type 1 Water	500ml
SCT-109.023.262	ASTM Type 1 Water	ASTM Type 1 Water	1L
SCT-109.023.263	MATRIX BLANKS Mixed acid - 5% HCI & 1% HNO3	ASTM Type 1 Water	500ml
SCT-109.023.264	MATRIX BLANKS Mixed acid - 5% HCI & 1% HNO3	ASTM Type 1 Water	1L

SCT – INORGANIC SPECTROSCOPY STANDARDS (MULTI ELEMENTS)

ScichemTech,always think along the scientific and industrial communities and make the products as per their requirement. For many of the high (ICP) tech/précised application (ICP) most of the user's/chemists paper multi-elements in a single matrix, which is widely used in Plasma Emission Spectroscopy. Most of our multi elements 3 to 23, elements in the HNO3 and HF Acids. The complete details as follows:

MULTI-ELEMENT STANDARD FOR ICP
1 µg/ml = 1 mg/l = 1ppm = 1,000ppb
SCT INORGANIC MULTI ELEMENT STANDARDS / SOLUTIONS are prepared with a high class calibrated Lab wares. All the chemicals used are inhouse tested with modern instruments and procedures and available in 100 ml pack size.

SCT-SPEC MIX 3

3 Elements in 2-5% HNO3
PACK SIZE:100ml
All of our SCT multi-element mixtures can be used either as standards or controls

PRODUCT NO.	ELEMENTS	PPM
SCT-109.025.01	Li (Lithium)	250
	K (Potassium)	10,000
	Na (Sodium)	1,000

SCT-SPEC MIX 4

4 Elements in 2-5% HNO3
PACK SIZE:100ml
All of our SCT multi-element mixtures can be used either as standards or controls

PRODUCT NO.	ELEMENTS	PPM
SCT-109.025.02	Ba (Barium)	1,000
	Ca (Calcium)	1,000
	Mg (Magnesium)	1,000
	Sr (Strontium)	1,000

SCT-SPEC MIX 7

7 ELEMENTS IN 2-5% HNO3 & 0.2% HF
PACK SIZE:100ml
All of our SCT multi-element mixtures can be used either as standards or controls

PRODUCT NO.	ELEMENTS	PPM
SCT-109.025.03	Al (Aluminium)	100
	Ba (Barium)	100
	B (Boron)	100
	K (Potassium)	1,000
	Si (Silicon)	500
	Ag (Silver)	50
	Na (Sodium)	100

SCT-SPEC MIX 15

15 ELEMENTS IN 2-5% HNO3 & 0.2% HF
PACK SIZE:100ml
All of our SCT multi-element mixtures can be used either as standards or controls

PRODUCT NO.	ELEMENTS	PPM
SCT-109.025.04	Al (Aluminium)	100
	Ba (Barium)	100
	Cd (Cadmium)	100
	Ca (Calcium)	100
	Cr (Chromium)	100
	Co (Cobalt)	100
	Cu (Copper)	100
	Fe (Iron)	100
	Pb (Lead)	100
	Mg (Magnesium)	100
	Mn (Manganese)	100
	Ni (Nickel)	100
	Na (Sodium)	100
	Ti (Titanium)	100
	Zn (Zinc)	100

SCT-SPEC MIX 19

19 ELEMENTS IN 2-5% NO3
PACK SIZE: 100 ML
All of our SCT multi-element mixtures can be used either as standards or controls

PRODUCT NO.	ELEMENTS	PPM
SCT-109.025.05	Al (Aluminium)	100
	Ba (Barium)	5
	B (Beryllium)	1
	Bi (Bismuth)	200
	B (Boron)	15
	Cd (Cadmium)	20
	Cr (Chromium)	25
	Co (Cobalt)	20
	Cu (Copper)	30
	Ga (Gallium)	150
	In (Indium)	200
	Fe (Iron)	15
	Pb (Lead)	200
	Mn (Manganese)	5
	Ni (Nickel)	50
	Ag (Silver)	50
	Sr (Strontium)	1
	Tl (Thallium)	40
	Zn (Zinc)	20

SCT-SPEC MIX 23

23 ELEMENTS IN 2-5% HNO3 & 0.2% HF

PACK SIZE:100ml
All of our SCT multi-element mixtures can be used either as standards or controls

PRODUCT NO.	ELEMENTS	PPM
SCT-109.025.06	Sb (Antimony)	100
	As (Arsenic)	100
	Be (Beryllium)	100
	Cd (Cadmium)	100
	Ca (Calcium)	100
	Cr (Chromium)	100
	Co (Cobalt)	100
	Cu (Copper)	100
	Fe (Iron)	100
	Pb (Lead)	100
	Li (Lithium)	100
	Mg (Magnesium)	100
	Mn (Manganese)	100
	Mo (Molybdenum)	100
	Ni (Nickel)	100
	P (Phosphorus)	100
	Se (Selenium)	100
	Sr (Strontium)	100
	Tl (Thallium)	100
	Sn (Tin)	100
	Ti (Titanium)	100
	V (Vanadium)	100
	Zn (Zinc)	100

SCT ATOMIC ABSOPTION STANDARDS (SINGLE)

ScichemTech makes the AAS standards for many years and supplies to various Equipment manufacturers. Atomic absorption spectroscopy (AAS) is a spectroanalytical procedure for the quantitative determination of chemical elements employing the absorption of optical radiation (light) by free atoms in the gaseous state.
In analytical chemistry the technique is used for determining the concentration of a particular element (the analyte) in a sample to be analyzed. AAS can be used to determine over 70 different elements in solution or directly in solid samples employed in pharmacology,biophysics and toxicology research.
AAS: Atomic Absorption Spectroscopy has become a most commonly used analytical technique in any analytical lab now a days. We at ScichemTech manufactures, various commonly used AAA-standards as follows

SCT ATOMIC ABSORPTION SPECTROSCOPY SINGLE ELEMENT STANDARDS / SOLUTIONS are prepared with a high class calibrated Lab wares. All the chemicals used are inhouse tested with modern instruments and procedures and available in 500 ml pack size.

PRODUCT NO.	DESCRIPTION	CONCENTRATION	MATRIX	PACK SIZE
SCT-109.027.01	ALUMINIUM	1000ppm	0.5M HNO3	500ml
SCT-109.027.02	ALUMINIUM	10000ppm	1M HNO3	500ml
SCT-109.027.03	ANTIMONY	1000ppm	H2O	500ml
SCT-109.027.04	ANTIMONY	10000ppm	H2O	500ml
SCT-109.027.05	ARSENIC (III)	1000ppm	1M HCl	500ml
SCT-109.027.06	ARSENIC (III)	10000ppm	1M HCl	500ml
SCT-109.027.07	ARSENIC (V)	1000ppm	1M HNO3	500ml
SCT-109.027.08	ARSENIC (V)	10000ppm	1M HNO3	500ml
SCT-109.027.09	BARIUM	1000ppm	0.5M HNO3	500ml
SCT-109.027.10	BARIUM	10000ppm	1M HNO3	500ml
SCT-109.027.11	BERYLLIUM	1000ppm	1M HCl	500ml
SCT-109.027.12	BERYLLIUM	10000ppm	1M HCl	500ml
SCT-109.027.13	BISMUTH	1000ppm	0.5M HNO3	500ml
SCT-109.027.14	BISMUTH	10000ppm	1M HNO3	500ml
SCT-109.027.15	BORON	1000ppm	H2O	500ml
SCT-109.027.16	BORON	10000ppm	H2O	500ml
SCT-109.027.17	CADMIUM	1000ppm	0.5M HNO3	500ml
SCT-109.027.18	CADMIUM	10000ppm	1M HNO3	500ml
SCT-109.027.19	CALCIUM	1000ppm	0.5M HNO3	500ml
SCT-109.027.20	CALCIUM	10000ppm	1M HNO3	500ml
SCT-109.027.21	CESIUM	1000ppm	1M HNO3	500ml
SCT-109.027.22	CESIUM	10000ppm	1M HNO3	500ml
SCT-109.027.23	CHROMIUM	1000ppm	0.5M HNO3	500ml
SCT-109.027.24	CHROMIUM	10000ppm	1M HNO3	500ml
SCT-109.027.25	COBALT	1000ppm	0.5M HNO3	500ml
SCT-109.027.26	COBALT	10000ppm	1M HNO3	500ml
SCT-109.027.27	COPPER	1000ppm	0.5M HNO3	500ml
SCT-109.027.28	COPPER	10000ppm	1M HNO3	500ml
SCT-109.027.29	GADOLINIUM	1000ppm	1M HCl	500ml
SCT-109.027.30	GADOLINIUM	10000ppm	1M HCl	500ml
SCT-109.027.31	GALLIUM	1000ppm	1M HCl	500ml
SCT-109.027.32	GALLIUM	10000ppm	1M HCl	500ml
SCT-109.027.33	GOLD 1	000ppm	2M HCl	500ml
SCT-109.027.34	GOLD 1	10000ppm	2M HCl	500ml
SCT-109.027.35	INDIUM	1000ppm	1M HNO3	500ml
SCT-109.027.36	INDIUM	10000ppm	1M HNO3	500ml
SCT-109.027.37	IRIDIUM	1000ppm	10% HCl	500ml
SCT-109.027.38	IRIDIUM	10000ppm	10% HCL	500ml
SCT-109.027.39	IRON	1000ppm	0.5M HNO3	500ml
SCT-109.027.40	IRON	10000ppm	1M HNO3	500ml
SCT-109.027.41	LANTHANUM	1000ppm	1M HNO3	500ml
SCT-109.027.42	LANTHANUM	10000ppm	1M HNO3	500ml
SCT-109.027.43	LEAD	1000ppm	0.5M HNO3	500ml
SCT-109.027.44	LEAD	10000ppm	1M HNO3	500ml
SCT-109.027.45	LITHIUM	1000ppm	0.5M HNO3	500ml
SCT-109.027.46	LITHIUM	10000ppm	1M HNO3	500ml
SCT-109.027.47	MAGNESIUM	1000ppm	0.5M HNO3	500ml
SCT-109.027.48	MAGNESIUM	10000ppm	1M HNO3	500ml
SCT-109.027.49	MANGANESE	1000ppm	1M HCl	500ml
SCT-109.027.50	MANGANESE	10000ppm	1M HCl	500ml
SCT-109.027.51	MERCURY	1000ppm	0.5M HNO3	500ml
SCT-109.027.52	MERCURY	10000ppm	1M HNO3	500ml
SCT-109.027.53	MOLYBDENUM	1000ppm	H2O	500ml
SCT-109.027.54	MOLYBDENUM	10000ppm	H2O	500ml
SCT-109.027.55	NICKEL	1000ppm	0.5M HNO3	500ml
SCT-109.027.56	NICKEL	10000ppm	1M HNO3	500ml
SCT-109.027.57	PALLADIUM	1000ppm	1M HCl	500ml
SCT-109.027.58	PALLADIUM	10000ppm	1M HCl	500ml
SCT-109.027.59	PHOSPHORUS	1000ppm	H2O	500ml
SCT-109.027.60	PHOSPHORUS	10000ppm	H2O	500ml
SCT-109.027.61	PLATINUM	1000ppm	1M HCl	500ml
SCT-109.027.62	PLATINUM	10000ppm	1M HCl	500ml
SCT-109.027.63	POTASSIUM	10000ppm	1M HCl	500ml
SCT-109.027.64	POTASSIUM	10000ppm	1M HNO3	500ml
SCT-109.027.65	RHODIUM	1000ppm	1M HNO3	500ml

SCT-109.027.66	RHODIUM	10000ppm	1M HNO3	500ml
SCT-109.027.67	SELENIUM	1000ppm	0.5M HNO3	500ml
SCT-109.027.68	SELENIUM	10000ppm	1M HNO3	500ml
SCT-109.027.69	SILICON	1000ppm	H2O	500ml
SCT-109.027.70	SILICON	10000ppm	H2O	500ml
SCT-109.027.71	SILVER	1000ppm	0.5M HNO3	500ml
SCT-109.027.72	SILVER	10000ppm	1M HNO3	500ml
SCT-109.027.73	SODIUM	1000ppm	0.5M HNO3	500ml
SCT-109.027.74	SODIUM	10000ppm	1M HNO3	500ml
SCT-109.027.75	STRONTIUM	1000ppm	0.5M HNO3	500ml
SCT-109.027.76	STRONTIUM	10000ppm	1M HNO3	500ml
SCT-109.027.77	SULPHUR	1000ppm	H2O	500ml
SCT-109.027.78	SULPHUR	10000ppm	H2O	500ml
SCT-109.027.79	TELLURIUM	1000ppm	1M HCl	500ml
SCT-109.027.80	TELLURIUM	10000ppm	1M HCl	500ml
SCT-109.027.81	THALLIUM	1000ppm	1M HNO3	500ml
SCT-109.027.82	THALLIUM	10000ppm	1M HNO3	500ml
SCT-109.027.83	THORIUM	1000ppm	1M HNO3	500ml
SCT-109.027.84	THORIUM	10000ppm	1M HNO3	500ml
SCT-109.027.85	TIN	1000ppm	1M HCl	500ml
SCT-109.027.86	TIN	10000ppm	1M HCl	500ml
SCT-109.027.87	TITANIUM	1000ppm	H2O	500ml
SCT-109.027.88	TITANIUM	10000ppm	H2O	500ml
SCT-109.027.89	TUNGSTEN	1000ppm	H2O	500ml
SCT-109.027.90	TUNGSTEN	10000ppm	H2O	500ml
SCT-109.027.91	URANIUM	1000ppm	1M HNO3	500ml
SCT-109.027.92	URANIUM	10000ppm	1M HNO3	500ml
SCT-109.027.93	VANADIUM	1000ppm	0.5M HNO3	500ml
SCT-109.027.94	VANADIUM	10000ppm	1M HNO3	500ml
SCT-109.027.95	ZINC	1000ppm	0.5M HNO3	500ml
SCT-109.027.96	ZINC	10000ppm	1M HNO3	500ml
SCT-109.027.97	ZIRCONIUM	1000ppm	1M HCl	500ml
SCT-109.027.98	ZIRCONIUM	10000ppm	1M HCl	500ml

SCT RELEASING AGENTS FOR ATOMIC ABSORPTION

ScichemTech makes the AAS Releasing Agents for many years and supplies to various Equipment manufacturers.
Releasing agents eliminate the chemical interference from ligands that complex with the analyte thereby altering the free atom population in the flame

SCT ATOMIC ABSORPTION SPECTROSCOPY RELEASING AGENTS / SOLUTIONS are prepared with a high class calibrated Lab wares. All the chemicals used are inhouse tested with modern instruments and procedures and available in 500 ml pack size.

PRODUCT NO.	PRODUCT NO.	DESCRIPTION	PACK SIZE
SCT-109.030.01	RA1N05	1.0% Lanthanum in HNO3	500ml
SCT-109.030.02	RA1CO5	1.0% Lanthanum in HCl	500ml
SCT-109.030.03	RA5NO5	5.0% Lanthanum in HNO3	500ml
SCT-109.030.04	RA5C05	5.0% Lanthanum in HCl	500ml

SCT STANDARDS AND CALIBRATORS

A standard solution is a solution containing a precisely known concentration of an element or a substance i.e., a known weight of solute is dissolved to make a specific volume. It is prepared using a standard substance, such as a primary standard. Standard solutions are used to determine the concentrations of other substances, such as solutions in titrations. The concentrations of standard solutions are normally expressed in units of moles per litre (mol/L, often abbreviated to M for molarity), moles per cubic decimetre (mol/dm3), kilomoles per cubic metre (kmol/m3) or in terms related to those used in particular titrations (such as titres).

A simple standard is obtained by the dilution of a single element or a substance in a soluble solvent with which it reacts...

A calibration curve is a method used in analytical chemistry to determine the concentration of an unknown sample solution. It is a graph generated by experimental means, with the concentration of solution plotted on the x-axis and the observable variable — for example, the solution's absorbance - plotted on the y-axis. The curve is constructed by measuring the concentration and absorbance of several prepared solutions, called calibration standards. Once the curve has been plotted, the concentration of the unknown solution can be determined by placing it on the curve based on its absorbance or other observable variable.
All our carbon standards are packed in twin neck bottles to prevent contamination, evaporation or interference to the standard.

SCT TOTAL ORGANIC CARBON STANDARDS

PRODUCT NO.	CONCENTRATION PPM	PACK SIZE
SCT-109.032.01	5	500ml
SCT-109.032.02	50	500ml
SCT-109.032.03	500	500ml
SCT-109.032.04	1000	500ml
SCT-109.032.05	2000	500ml

SCT TOTAL INORGANIC TOTAL STANDARDS

PRODUCT NO.	CONCENTRATION PPM	PACK SIZE
SCT-109.033.01	5	500ml
SCT-109.033.02	50	500ml
SCT-109.033.03	500	500ml
SCT-109.033.04	1000	500ml
SCT-109.033.05	2000	500ml

SCT MIXED STANDARDS

(Equal concentrations of organic & inorganic carbon)

PRODUCT NO.	CONCENTRATION PPM	PACK SIZE
SCT-109.034.01	10	500ml
SCT-109.034.02	100	500ml
SCT-109.034.03	1000	500ml
SCT-109.034.04	2000	500ml
SCT-109.034.05	4000	500ml

SCT STANDARDS AND REAGENTS FOR CHLORIDE ANALYSERS

PRODUCT NO.	DESCRIPTION	PACK SIZE
SCT-109.035.01	Chloride standard solution	100mmol/l 100ml
SCT-109.035.02	Chloride standard solution	200ppm Cl 100ml
SCT-109.035.03	Combined Acid Buffer	500ml

SCT HAZEN COLOUR STANDARDS

PRODUCT NO.	DESCRIPTION	PACK SIZE
SCT-109.036.01	0 Hazen units	1L
SCT-109.036.02	10 Hazen units	1L
SCT-109.036.03	25 Hazen units	1L
SCT-109.036.04	40 Hazen units	1L
SCT-109.036.05	50 Hazen units	1L
SCT-109.036.06	80 Hazen units	1L
SCT-109.036.07	100 Hazen units	1L
SCT-109.036.08	250 Hazen units	1L
SCT-109.036.09	500 Hazen units	1L

SCT STANDARDS AND CALIBRATORS, (ALL IN H_2O MATRIX)

ION CHROMATOGRAPHY STANDARDS

With the ScichemTech range of Ion Chromatography standards you can have confidence in the reliability of your ion chromatography analysis. All are prepared from High Purity Starting materials and are traceable to N.I.S.T, where possible. If you require Multi-Ion standards please contact us with your requirements

SCT ANION (-) STANDARDS (ALL IN H2O MATRIX)

PRODUCT NO.	DESCRIPTION	ION	CONCENTRATION	PACK SIZE
SCT109.037.01	Acetate	CH3COO	1mg/ml (1,000ppm)	100ml
SCT109.037.02	Acetate	CH3COO	0.2mg/ml (200ppm)	100ml
SCT109.037.03	Bromide	Br	1mg/ml (1,000ppm)	100ml
SCT109.037.04	Bromide	Br	0.2mg/ml (200ppm)	100ml
SCT109.037.05	Chloride	Cl	1mg/ml (1,000ppm)	100ml

SCT109.037.06	Chloride	Cl	0.2mg/ml (200ppm)	100ml
SCT109.037.07	Chromate	CrO4 2	1mg/ml (1,000ppm)	100ml
SCT109.037.08	Chromate	CrO4 2	0.2mg/ml (200ppm)	100ml
SCT109.037.09	Fluoride	F	1mg/ml (1,000ppm)	100ml
SCT109.037.10	Fluoride	F	0.2mg/ml (200ppm)	100ml
SCT109.037.11	Formate	HCOO	1mg/ml (1,000ppm)	100ml
SCT109.037.12	Formate	HCOO	0.2mg/ml (200ppm)	100ml
SCT109.037.13	Iodide	I	1mg/ml (1,000ppm)	100ml
SCT109.037.14	Iodide	I	0.2mg/ml (200ppm)	100ml
SCT109.037.15	Nitrate	NO3	1mg/ml (1,000ppm)	100ml
SCT109.037.16	Nitrate	NO3	0.2mg/ml (200ppm)	100ml
SCT109.037.17	Nitrite	NO2	1mg/ml (1,000ppm)	100ml
SCT109.037.18	Oxalate	(COO)2 2	1mg/ml (1,000ppm)	100ml
SCT109.037.19	Oxalate	(COO)2 2	0.2mg/ml (200ppm)	100ml
SCT109.037.20	Phosphate	PO4 3	1mg/ml (1,000ppm)	100ml
SCT109.037.21	Phosphate	PO4 3	0.2mg/ml (200ppm)	100ml
SCT109.037.22	Silica	SiO2	1mg/ml (1,000ppm)	100ml
SCT109.037.23	Silica	SiO2	0.2mg/ml (200ppm)	100ml
SCT109.037.24	Sulphate	SO4 2	1mg/ml (1,000ppm)	100ml
SCT109.037.25	Sulphate	SO4 2	0.2mg/ml (200ppm)	100ml
SCT109.037.26	Tartrate	(CHOH)2 (COO)2 2	1mg/ml (1,000ppm)	100ml
SCT109.037.27	Tartrate	(CHOH)2 (COO)2 2	0.2mg/ml (200ppm)	100ml

SCT CATION (+) STANDARDS (ALL IN H2O MATRIX)

PRODUCT NO.	DESCRIPTION	ION	CONCENTRATION	PACK SIZE
SCT-109.038.01	Aluminium	Al3+	1mg/ml (1000ppm)	100ml
SCT-109.038.02	Aluminium	Al3+	0.2mg/ml (200ppm)	100ml
SCT-109.038.03	Ammonium	NH4+	1mg/ml (1000ppm)	100ml
SCT-109.038.04	Ammonium	NH4+	0.2mg/ml (200ppm) 100ml	100ml
SCT-109.038.05	Barium	Ba2+	1mg/ml (1000ppm) 100ml	100ml
SCT-109.038.06	Barium	Ba2+	0.2mg/m(l 200ppm)	100ml
SCT-109.038.07	Calcium	Ca2+	1mg/ml (1000ppm)	100ml
SCT-109.038.08	Calcium	Ca2+	0.2mg/ml (200ppm)	100ml
SCT-109.038.09	Cesium	Cs+	1mg/ml (1000ppm)	100ml
SCT-109.038.10	Cesium	Cs+	0.2mg/ml (200ppm)	100ml
SCT-109.038.11	Iron	Fe2+	1mg/ml (1000ppm)	100ml
SCT-109.038.12	Iron	Fe2+	0.2mg/ml (200ppm)	100ml
SCT-109.038.13	Lithium	Li+	1mg/ml (1000ppm)	100ml
SCT-109.038.14	Lithium	Li+	0.2mg/ml (200ppm)	100ml
SCT-109.038.15	Magnesium	Mg2+	1mg/ml (1000ppm)	100ml
SCT-109.038.16	Magnesium	Mg2+	0.2mg/ml (200ppm)	100ml
SCT-109.038.17	Manganese	Mn2+	1mg/ml (1000ppm)	100ml
SCT-109.038.18	Manganese	Mn2+	0.2mg/ml (200ppm)	100ml
SCT-109.038.19	Potassium	K+	1mg/ml (1000ppm)	100ml
SCT-109.038.20	Potassium	K+	0.2mg/ml (200ppm)	100ml
SCT-109.038.21	Rubidium	Rb+	1mg/ml (1000ppm)	100ml
SCT-109.038.22	Rubidium	Rb+	0.2mg/ml (200ppm)	100ml
SCT-109.038.23	Sodium	Na+	1mg/ml (1000ppm)	100ml
SCT-109.038.24	Sodium	Na+	0.2mg/ml (200ppm)	100ml
SCT-109.038.25	Strontium	Sr2+	1mg/ml (1000ppm)	100ml
SCT-109.038.26	Strontium	Sr2+	0.2mg/ml (200ppm)	100ml

SCT MIXED STANDARDS FOR WATER ANALYSIS

PRODUCT NO.	DESCRIPTION	PACK SIZE
SCT-109.039.01	Mixed Anion Standard - contains Fluoride 100ppm,Chloride 100ppm, Nitrate 200ppm,Phosphate 200ppm and Sulphate 200ppm	100ml
SCT-109.039.02	Combined Five Anion Standard - contains Fluoride 20mg/l,Chloride 30mg/l, Nitrate 100mg/l, Phosphate 150mg/l and Sulfate 150mg/l	100ml
SCT-109.039.03	Combined Seven Anion Standard-I: contains Fluoride 20mg/l,Chloride 30mg/l, Nitrite 100mg/l, Bromide 100mg/l, Nitrate 100mg/l, Phosphate 150mg/l and Sulfate 150mg/l	100ml
SCT-109.039.04	Combined Seven Anion Standard-II: contains Fluoride 20mg/l,Chloride 100mg/l, Nitrite 100mg/l, Bromide 100mg/l, Nitrate 100ml/l, Phosphate 200mg/l and Sulphate 100mg/l	100ml
SCT-109.039.11	Mixed Cation Standard - contains Sodium 500ppm, Calcium 500ppm, Magnesium 200ppm and Potassium 200ppm	100ml

SCT-109.039.12	Combined Six Cation Standard-I: contains Lithium 50mg/l, Sodium 200mg/l, Ammonium 400mg/l, Potassium 200mg/l,Magnesium 200mg/l and Calcium 1000mg/l	100ml
SCT-109.039.13	Combined Six Cation Standard-II: contains Lithium 50mg/l,Sodium 200mg/l, Ammonium 250mg/l, Potassium 500mg/l,Magnesium 250mg/l and Calcium 500mg/l	100ml

SCT-REAGENTS

Reagents are the substances used in a chemical reaction to detect, measure, examine, or produce other substances.

SCT-MILK TESTING REAGENTS

The usage of dairy products in our daily life has become a vital use. We at ScichemTech, started manufacturing various calibration solutions, standard solutions, Test Solutions, and the indicators, used to test the milk and related products in the daily factories and labs, hereunder, you will find some, most important solutions used by “Dairy Technicians and Chemicals”.

SCT-FREEZING POINT CALIBRATION STANDARDS FOR CRYOSCOPE

PRODUCT NO.	Cryoscope V alue	Pack Size
SCT-109.045.01	000 (0.000°C)	250ml
SCT-109.045.02	422 (-0.408°C)	250ml
SCT-109.045.03	530 (-0.512°C)	250ml
SCT-109.045.04	577 (-0.577°C)	250ml
SCT-109.045.05	621 (-0.600°C)	250ml
SCT-109.045.06	Cryoscope Bath Liquid	500ml
SCT-109.045.07	Heat Transfer Fluid	250ml

SCT-DAIRY PHOSPHATASE TEST – SALTS

PRODUCT NO.	DESCRIPTION	PACK SIZE
SCT-109.046.01	4-Nitrophenyl Di-Sodium Phosphate	12x0.15g
SCT-109.046.02	Carbonate Bi-Carbonate Buffer (Aschafenburg and Mullen Phosphatase buffer)	12x2.5g

SCT- GERBER TEST SOLUTIONS

PRODUCT NO.	DESCRIPTION	PACK SIZE
SCT-109.047.01	Sulphuric Acid FMTd. 1.815-1.825	2.5L
SCT-109.047.02	Sulphuric Acid FMTd. 1.815-1.825	25L

SCT-DAIRY TEST INDICATORS

PRODUCT NO.	DESCRIPTION	PACK SIZE
SCT-109.048.01	Methyl Orange Indicator Alcoholic Solution 0.1%	250ml
SCT-109.048.02	Screened Methyl Orange Alcoholic Solution 0.1%	500ml
SCT-109.048.03	Methyl Red Alcoholic Solution 0.1%	250ml
SCT-109.048.04	Phenolphthalein Alcoholic Sol. 1.0%	2.5L
SCT-109.048.05	Phenolphthalein Alcoholic Sol. 0.5%	2.5L
SCT-109.048.06	Phenolphthalein Alcoholic Sol. 0.5%	1L
SCT-109.048.07	Potassium Chromate Sol. 5% w/v	500ml
SCT-109.048.08	Thymol Blue Alcoholic Sol. 0.04%	500ml
SCT-109.048.09	Iron Alum Solution	250ml
SCT-109.048.10	1,10 - Phenanthroline Ferrous Sulphate Complex Solution (Ferroin Indicator)	100ml

SCT-INDUSTRIAL AND CLINICAL FLAME PHOTOMETER STANDARDS

SCT-FP INDUSTRIAL STANDARDS

PRODUCT NO.	DESCRIPTION	CONCENTRATION	PACK SIZE
SCT-109.050.01	Barium	1,000ppm	500ml
SCT-109.050.02	Barium	3,000ppm	500ml
SCT-109.050.03	Calcium	1,000ppm	500ml
SCT-109.050.04	Calcium	2,000ppm	500ml
SCT-109.050.05	Cesium	1,000ppm	500ml
SCT-109.050.06	Lithium	1,000ppm	500ml
SCT-109.050.07	Sodium	1,000ppm	500ml
SCT-109.050.08	Potassium	1,000ppm	500ml
SCT-109.050.09	Strontium	1,000ppm	500ml
SCT-109.050.10	Rubidium	1,000ppm	500ml

SCT-FP CLINICAL STANDARDS

PRODUCT NO.	Description	Pack Size
SCT-109.051.01	Sodium 100/Potassium 100 mmol/l	500ml
SCT-109.051.02	Sodium 120/Potassium 2 mmol/l	500ml
SCT-109.051.03	Sodium 140/Potassium 5 mmol/l	500ml
SCT-109.051.04	Sodium 160/Potassium 8 mmol/l	500ml
SCT-109.051.05	Sodium 160/Potassium 80 mmol/l	500ml
SCT-109.051.06	Lithium 1 mmol/l	500ml

* Those customer's who wants to replace your existing flame photometers (or) buy a new one; ScichemTech offers, our SCT-Flame Photometers. (Chapter-6). Pls. contact us (or) our Distributors for further details.

SCT SPECTROPHOTOMETRIC STANDARDS

If you refer our chapter 5, we have variety of the spectrophotometer in Scichemtech.In order to support our equipment sales,we have decided to introduce the spectrophotometer standards in this chapter, mainly for our optical photometry customers,who uses the spectrophotomers (any brand), however, we strongly recommend the"ScichemTech" brand for a better performance and results. Our SCT Standards are N.I.S.T. (National Institute of Standards & Technology) Traceable,Easy to Use (Pour straight out of the bottle),Accurate (Guaranteed accuracy of ±5% Inter/Intra-Instrument Variance),Stable (Will not settle out of solution),Safe (Non carcinogenic materials used),Guaranteed for one year shelf life

PRODUCT NO.		Wavelength	Wavelength	Wavelength	Wavelength	Wavelength	Wavelength
	Standard	450nm	400nm	350nm	300nm	250nm	224nm
SCT-109.055.01	1	0.0058	0.0084	0.0142	0.0259	0.0553	0.0954
SCT-109.055.02	2	0.012	0.0177	0.0279	0.0512	0.1108	0.2023
SCT-109.055.03	3	0.0176	0.026	0.0413	0.0756	0.1608	0.2942
SCT-109.055.04	4	0.0246	0.0355	0.0563	0.1024	0.2214	0.4051
SCT-109.055.05	5	0.0308	0.0446	0.0708	0.1273	0.271	0.4947
SCT-109.055.06	6	0.0368	0.0539	0.0841	0.1522	0.3267	0.5965
SCT-109.055.07	7	0.0429	0.0622	0.0972	0.1758	0.3775	0.6842
SCT-109.055.08	8	0.049	0.0717	0.112	0.2015	0.4333	0.7928
SCT-109.055.09	20	0.1279	0.1878	0.2866	0.5066	1.0794	1.8559
SCT-109.055.10	30	0.1929	0.2811	0.4369	0.7797	1.687	2.6225

SCT BACKGROUND SOLUTIONS

SCT Background Solutions are made as per our customers requirement, here we present the standard solution .SCT solutions features, Instruments used to acquire data are N.I.S.T. calibrated,Our background solution must be used in conjunction with our photometric standard,Certificates of Analysis provided with standards ±1% from lot to lot,All Standards are provided in 125ml plastic bottles

PRODUCT NO.	OPTICAL PHOTOMETRIC STANDARD	PACK SIZE
SCT-109.056.01	BACKGROUND SOLUTION	125 ml

Laboratory Reagent is a "substance or compound that is added to a system in order to bring about a chemical reaction, or added to see if a reaction occurs. Although the terms reactant and reagent are often used interchangeably, a reactant is more specifically a "substance that is consumed in the course of a chemical reaction. Solvents, although they are involved in the reaction, are usually not referred to as reactants. Similarly, catalysts are not consumed by the reaction, so are not described as reactants.

In organic chemistry, reagents are compounds or mixtures, usually composed of inorganic or small organic molecules, that are used to effect a transformation on an organic substrate. Examples of organic reagents include the Collins reagent, Fenton's reagent, and Grignard reagent. There are also analytical reagents which are used to confirm the presence of another substance. Examples of these are Fehling's reagent, Millon's reagent and Tollens' reagent.

Scichemtech,manufactures and supplies many of the commonly used laboratory reagents,as listed in the below table:

PRODUCT NO.	DESCRIPTION	PACK SIZE
SCT-109.060.01	Hyamine 1622 (0.04M) Solution*	5L
SCT-109.060.02	Hyamine 1622 (0.04M) Solution*	1L
SCT-109.060.03	Hyamine 1622 (0.004M) Solution*	5L
SCT-109.060.04	Hyamine 1622 (0.004M) Solution*	1L
SCT-109.060.05	Sodium Lauryl (Dodecyl) Sulphate (0.1N)	5L
SCT-109.060.06	Sodium Lauryl (Dodecyl) Sulphate (0.1N)	1L
SCT-109.060.07	Potassium Fluoride 60% w/v	5L
SCT-109.060.08	Sodium Gluconate 25% w/v	5L
SCT-109.060.09	Fehlings Solution No. 1	1L
SCT-109.060.10	Fehlings Solution No. 2	1L
SCT-109.060.11	Kovac's Indole Reagent	100ml
SCT-109.060.12	Ammonia Solution (10% w/v NH3)	1L
SCT-109.060.13	Formal Buffered Saline	10L
SCT-109.060.14	Formal Buffered Saline	5L
SCT-109.060.15	Formal Buffered Saline	1L
SCT-109.060.16	Formaldehyde Phosphate Buffer	25L
SCT-109.060.17	Formaldehyde Phosphate Buffer	5L
SCT-109.060.18	10% Formal Water without Saline	5L
SCT-109.060.19	30% w/v Iso-Propyl Alcohol	5L

SCT GENERAL INDICATORS / SOLUTIONS

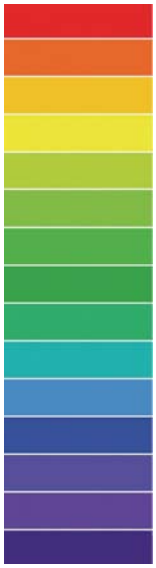
Scichemtech-USA manufacturers all the important and usual chemical indicator solutions, widely used in all the common titrations.
Indicators are those chemicals which are sensitive to certain changes in the conditions with regards to the chemicals or their pH or oxidation states etc.

The sensitivity is displayed in the form of sharp color change at the equivalence or end point. There is variety of indicators depending on their purpose.

Indicators which are active color changers with change in pH (acid base indicators), that are active when the oxidation state change (redox indicators) and those which are complex forming (Complexometry indicators) are some of the varieties of indicators depending on the purpose of their use.
Chemical indicators:
Chemical Indicators are those which are synthesized according to the requirements.These are organic molecules which can form a polar bond with both acidic and alkaline radicals.This change from neutral molecule to either acidic or basic molecule brings about a significant change in color at the slightest polarity.Examples are Methyl orange, Phenolphthalien, Methyl Red, Thymol blue, etc.
Universal indicators

A universal indicator is the one which can give color changes differently at a small range of pH variations. Most common composition of a universal indicator is methanol, propan-1-ol, sodium salt of phenolphthalein, sodium salt of methyl red, bromo thymol blue monosodium salt, and phenol. This is applied on strips of cellulose paper for dip test or used as aqueous solution if used in a titration.

We have made this below table as an example for the color changes when the indicator is used is,



Name	Acid Color	pH Range of Color Change	Base Color
Methyl violet	Yellow	0.0 - 1.6	Blue
Thymol blue	Red	1.2 - 2.8	Yellow
Methyl orange	Red	3.2 - 4.4	Yellow
Bromocresol green	Yellow	3.8 - 5.4	Blue
Methyl red	Red	4.8 - 6.0	Yellow
Litmus	Red	5.0 - 8.0	Blue
Bromothymol blue	Yellow	6.0 - 7.6	Blue
Thymol blue	Yellow	8.0 - 9.6	Blue
Phenolphthalein	Colorless	8.2 - 10.0	Pink
Thymolphthalein	Colorless	9.4 - 10.6	Blue
Alizarin yellow R	Yellow	10.1 - 12.0	Red

PRODUCT NO.	DESCRIPTION	PACK SIZE
SCT-109.061.01	Universal Indicator Solution	100ml
SCT-109.061.02	Universal Indicator Solution	500ml
SCT-109.061.03	Full Range Indicator pH 1 to 14 (with colour card)	500ml
SCT-109.061.04	Full Range Indicator pH 1 to 14 (with colour card)	2.5L
SCT-109.061.05	Erichrome Blue Black R	500ml
SCT-109.061.06	Murexide	500ml
SCT-109.061.07	Potassium Chromate, 5%	500ml
SCT-109.061.08	Water Hardness Indicator	500ml
SCT-109.061.09	Iron Alum (Volhard)	250ml
SCT-109.061.10	Ferroin Indicator	100ml
SCT-109.061.11	Starch Indicator 1%	500ml
SCT-109.061.12	Bromocresol Green, 0.04%	500ml
SCT-109.061.13	Bromocresol Green - Methyl Red Mixed Indicator	100ml
SCT-109.061.14	Bromocresol Purple, 0.04%	100ml
SCT-109.061.15	Bromophenol Blue, 0.04%	500ml
SCT-109.061.16	Bromothymol Blue, 0.04%	500ml
SCT-109.061.17	Chlorophenol Red, 0.04%	500ml
SCT-109.061.18	m-Cresol Purple, 0.4%	500ml
SCT-109.061.19	Crystal Violet, 0.1% (Non-aqueous indicator)	100ml
SCT-109.061.20	Methyl Orange, 0.04%	500ml
SCT-109.061.21	Methyl Red, 0.02%	100ml
SCT-109.061.22	Phenolphthalein, 0.5%	500ml
SCT-109.061.23	Phenol Red, 0.02%	100ml
SCT-109.061.24	Sulfo Orange, 0.4%	500ml
SCT-109.061.25	Thymolphthalein, 0.05%	100ml

SCT WATER & SYNTHETICS FRESH WATER STANDARDS

Synthetic solutions that emulate the major ion compositions of natural waters are useful in experiments aimed at understanding biogeochemical processes. Standard recipes exist for preparing synthetic analogues of seawater, with its relatively constant composition, but, due to the diversity of freshwaters, a range of compositions and recipes is required.

Generic protocols are developed for preparing synthetic freshwaters of any desired composition.

PRODUCT NO.	DESCRIPTION	PACK SIZE
SCT-109.062.01	Purified Water	25L
SCT-109.062.02	Purified Water	10L
SCT-109.062.03	Purified Water	5L
SCT-109.062.04	AG Water Analytical Grade	5L
SCT-109.062.05	AG Water Analytical Grade	25L
SCT-109.062.06	Water for HPLC	2.5L
SCT-109.062.07	Artificial Seawater	25L
SCT-109.062.08	Artificial Seawater	5L

SCT-SYNTHETIC FRESH WATER STANDARDS - WATER HARDNESS AS CaCO3

Water hardness is commonly defined as the sum of the polyvalent cations dissolved in the water. The most common such cations are calcium and magnesium, although iron, strontium, and manganese may contribute (AWWA, 1990; EPA, 1986). Hardness is usually reported as an equivalent quantity of calcium carbonate (CaCO3). Generally, waters are classified according to degree of hardness (EPA, 1986). The hardness of your water will be reported in grains per gallon, milligrams per liter (mg/l), or parts per million (ppm). One grain of hardness equals 17.1 mg/l or ppm of hardness.

The Environmental Protection Agency (EPA) establishes standards for drinking water which fall into two categories -- Primary Standards and Secondary Standards. Primary Standards are based on health considerations and Secondary Standards are based on taste, odor, color, corrosivity, foaming, and staining properties of water. There is no Primary or Secondary standard for water hardness. Water hardness is classified by the U.S. Department of Interior and the Water Quality Association as follows:

Classification	mg/l or ppm	grains/gal
Soft	**0 - 17.1**	**0 --1**

Slightly hard	**17.1 - 60**	**1 - 3.5**
Moderately hard	**60 - 120**	**3.5 - 7.0**
Hard	**120 - 180**	**7.0 - 10.5**
Very hard	**180 & over**	**10.5 & over**

PRODUCT NO.	DESCRIPTION	PACK SIZE
SCT-109.063.01	10-13ppm	1L
SCT-109.063.02	10-13ppm	5L
SCT-109.063.03	40-48ppm	1L
SCT-109.063.04	40-48ppm	5L
SCT-109.063.05	80-100ppm	1L
SCT-109.063.06	80-100ppm	5L
SCT-109.063.07	160-180ppm	1L
SCT-109.063.08	160-180ppm	5L

NOTES :

In ScichemTech,always like to introduce many valuable and demanded scientific products to their world wide customers. Our search for new reagents, Buffers, standard solutions will be keep growing in the future. We welcome and thank all our valuable scientific and analytical customer's feed back, this will help us to Improve our product range as per the scientific and industrial communities requirements.

In the following pages, you will find some safety storage cabinets for the chemical users… Whether you are handling cleaning products with chemicals at home or working with chemicals in a school chemistry lab, being aware of chemical safety tips helps to keep you safe from possible danger. Regardless of where you work with chemicals or products containing chemicals, it is important to remember that these types of products have the potential of being extremely harmful and dangerous if they are used incorrectly, or incorrectly mixed with one another. Being aware of the following safety tips regarding chemicals, and products containing chemicals, will help protect you from a possible accident and injury. Never store a chemical in anything other than its original container. Containers, other than the original product packaging, are generally not capable of storing the chemical safely. We are sure that, our new products will be a immense use in your Lab and Industry.

ScichemTech - SCT® CHEMICAL SAFETY STORAGE CABINETS

SCT SAFETY CHEMICALS STORAGE CABINETS

Most of our Scientific and the Industrial end user's have to handle many Flammable Liquids,Corrosive liquids,Combustible Liquids and poisonous gases / chemicals in their every day work, So occupational safety,with respect to the chemicals becomes an essential mandatory in our working place. Thinking and giving more priority to this aspect, we at ScichemTech –USA R&D (Research and Development) started working on the "SCT Safety Cabinets mainly for the Flammable,Corrosive and other chemicals products", finally we come out with our own Storage products..We have made 5 categories & models like Flammable Liquids (INFLAME), Less corrosive liquids (PASSIVATE),High corrosive Liquids (METALLOID),Combustible Liquids (EXTINGO), and Waste –chemicals and storage (HALOGEN)in our range..All our products comply OSHA, NFPA regulations & FM (Factory Mutual Insurance) approved.. which allows all the SCT models can be directly accepted by all the clients in the rest of the world and in the UNITED STATES OF AMERICA.

You can prevent any fire accidents caused due to improper storing and handling of Chemicals using our FM approved safety cabinets.

SALIENT FEATURES:

- SCT Safety Cabinets are made of high quality steel and made as Double wall cabinets.
- SCT Safety Cabinets comply OSHA (Occupational safety and Health Administration), NFPA (National Fire Protection agency), ANSI (American National standards Institute) regulations.
- SCT Safety Cabinets are available in 5 different models for Flammable, Corrosive, combustible,poisonous Chemicals.
- SCT Safety Cabinets are designed according to ASTM E-152 Temperature curves.
- SCT Safety Cabinets are highly reliable, because safety features like Dual Vents, Flame arresters, Leak tight sump are supplied as standard equipment.
- SCT Safety Cabinets are equipped with high safety feature, so that Flammable Liquid Bottles canbe stored directly in the cabinet.
- SCT Safety Cabinets are sold separately,based on the type of materials tobe stored..

TECHNICAL SPECIFICATIONS:

As we mentioned earlier, we have categorized all the storing cabinets into 5 types based on the type of chemicals / materials stored, in the following pages you will find different Models for different chemicals

PRODUCT CODE	MODEL NAME	TYPE OF MATERIALS STORED
SCT-109.801.XX	SCT-INFLAME	Flammable Liquid storage
SCT-109.802.XX	SCT-PASSIVATE	Low corrosive Liquid storage
SCT-109.803.XX	SCT-METALLOID	High corrosive liquid storage
SCT-109.804.XX	SCT-EXTINGO	Combustible Liquid storage
SCT-109.805.XX	SCT-HALOGEN	Waste –Chemical storage

SCT-INFLAME: FLAMMABLE LIQUIDS STORAGE CABINETS

PRODUCT NUMBER	MODEL NAME	Capacity Galons (Liters)	No of Shelves	Door Type	External Dimensions W x D x H mm(in.)
SCT-109.801.01	SCT-INFLAME-1	4(15)	1	Left hand/ Self-close	435*435*630 (17*17*25)
SCT-109.801.02	SCT-INFLAME-2	12(45)	1	Left hand/ Self-close	595*460*960 (23*18*38)
SCT-109.801.03	SCT-INFLAME-3	15(57)	1	Left hand/ Self-close	595*460*1190 (23*18*47)
SCT-109.801.11	SCT-INFLAME-4	4(15)	1	Left hand/ Manual	435*435*630 (17*17*25)
SCT-109.801.12	SCT-INFLAME-5	12(45)	1	Left hand/ Manual	595*460*960 (23*18*38)
SCT-109.801.13	SCT-INFLAME-6	15(57)	1	Left hand/ Manual	595*460*1190 (23*18*47)
SCT-109.801.21	SCT-INFLAME-7	22(83)	3	Left hand/ Self-close	595*460*1720 (23*18*68)
SCT-109.801.22	SCT-INFLAME-8	54(204)	3	Left hand/ Self-close	595*860*1720 (23*34*68)
SCT-109.801.31	SCT-INFLAME-9	22(83)	3	Left hand/ Manual	595*460*1720 (23*18*68)
SCT-109.801.32	SCT-INFLAME-10	54(204)	3	Left hand/ Manual	595*860*1720 (23*34*68)
SCT-109.801.41	SCT-INFLAME-11	4(15)	1	Right hand/ Self-close	435*435*630 (17*17*25)
SCT-109.801.42	SCT-INFLAME-12	12(45)	1	Right hand/ Self-close	595*460*960 (23*18*38)
SCT-109.801.43	SCT-INFLAME-13	15(57)	1	Right hand/ Self-close	595*460*1190 (23*18*47)
SCT-109.801.51	SCT-INFLAME-14	4(15)	1	Right hand/ Manual	435*435*630 (17*17*25)
SCT-109.801.52	SCT-INFLAME-15	12(45)	1	Right hand/ Manual	595*460*960 (23*18*38)
SCT-109.801.53	SCT-INFLAME-16	15(57)	1	Right hand/ Manual	595*460*1190 (23*18*47)
SCT-109.801.61	SCT-INFLAME-17	22(83)	3	Right hand/ Self-close	595*460*1720 (23*18*68)
SCT-109.801.62	SCT-INFLAME-18	54(204)	3	Right hand/ Self-close	595*860*1720 (23*34*68)
SCT-109.801.71	SCT-INFLAME-19	22(83)	3	Right hand/ Manual	595*460*1720 (23*18*68)
SCT-109.801.72	SCT-INFLAME-20	54(204)	3	Right hand/ Manual	595*860*1720 (23*34*68)

ORDERING INFORMATIONS:

PRODUCT NO.	MODEL NAME	DESCRIPTION
SCT-109.801.01	SCT-INFLAME-1	SCT Flammable Liquid Safety Storage Cabinet External Dimensions W x D x H mm(in.)- 435*435*630 (17*17*25), Capacity Gal.(L)-4(15), No of shelves-1, Door type-Left hand/ Self-close Supplied complete with instruction manuals
SCT-109.801.02	SCT-INFLAME-2	SCT Flammable Liquid Safety Storage Cabinet External Dimensions W x D x H mm(in.)- 595*460*960 (23*18*38), Capacity Gal.(L)-12(45), No of shelves-1, Door type-Left hand/ Self-close Supplied complete with instruction manuals
SCT-109.801.03	SCT-INFLAME-3	SCT Flammable Liquid Safety Storage Cabinet External Dimensions W x D x H mm(in.)- 595*460*1190 (23*18*47), Capacity Gal.(L)-15(57), No of shelves-1, Door type-Left hand/ Self-close Supplied complete with instruction manuals
SCT-109.801.11	SCT-INFLAME-4	SCT Flammable Liquid Safety Storage Cabinet External Dimensions W x D x H mm(in.)- 435*435*630 (17*17*25), Capacity Gal.(L)-4(15), No of shelves-1, Door type-Left hand/ Manual Supplied complete with instruction manuals
SCT-109.801.12	SCT-INFLAME-5	SCT Flammable Liquid Safety Storage Cabinet External Dimensions W x D x H mm(in.)- 595*460*960 (23*18*38), Capacity Gal.(L)-12(45), No of shelves-1, Door type-Left hand/ Manual Supplied complete with instruction manuals
SCT-109.801.13	SCT-INFLAME-6	SCT Flammable Liquid Safety Storage Cabinet External Dimensions W x D x H mm(in.)- 595*460*1190 (23*18*47), Capacity Gal.(L)-15(57), No of shelves-1, Door type-Left hand/ Manual Supplied complete with instruction manuals
SCT-109.801.21	SCT-INFLAME-7	SCT Flammable Liquid Safety Storage Cabinet External Dimensions W x D x H mm(in.)- 595*460*1720 (23*18*68), Capacity Gal.(L)-22(83), No of shelves-3, Door type-Left hand/ Self-close Supplied complete with instruction manuals
SCT-109.801.22	SCT-INFLAME-8	SCT Flammable Liquid Safety Storage Cabinet External Dimensions W x D x H mm(in.)- 595*860*1720 (23*34*68), Capacity Gal.(L)-54(204), No of shelves-3, Door type-Left hand/ Self-close Supplied complete with instruction manuals
SCT-109.801.31	SCT-INFLAME-9	SCT Flammable Liquid Safety Storage Cabinet External Dimensions W x D x H mm(in.)- 595*460*1720 (23*18*68), Capacity Gal.(L)-22(83), No of shelves-3, Door type-Left hand/ Manual Supplied complete with instruction manuals
SCT-109.801.32	SCT-INFLAME-10	SCT Flammable Liquid Safety Storage Cabinet External Dimensions W x D x H mm(in.)- 595*860*1720 (23*34*68), Capacity Gal.(L)-54(204), No of shelves-3, Door type-Left hand/ Manual Supplied complete with instruction manuals
SCT-109.801.41	SCT-INFLAME-11	SCT Flammable Liquid Safety Storage Cabinet External Dimensions W x D x H mm(in.)- 435*435*630 (17*17*25), Capacity Gal.(L)-4(15), No of shelves-1, Door type-Right hand/ Self-close Supplied complete with instruction manuals
SCT-109.801.42	SCT-INFLAME-12	SCT Flammable Liquid Safety Storage Cabinet External Dimensions W x D x H mm(in.)- 595*460*960 (23*18*38), Capacity Gal.(L)-12(45), No of shelves-1, Door type-Right hand/ Self-close Supplied complete with instruction manuals
SCT-109.801.43	SCT-INFLAME-13	SCT Flammable Liquid Safety Storage Cabinet External Dimensions W x D x H mm(in.)- 595*460*1190 (23*18*47), Capacity Gal.(L)-15(57), No of shelves-1, Door type-Right hand/ Self-close Supplied complete with instruction manuals
SCT-109.801.51	SCT-INFLAME-14	SCT Flammable Liquid Safety Storage Cabinet External Dimensions W x D x H mm(in.)- 435*435*630 (17*17*25), Capacity Gal.(L)-4(15), No of shelves-1, Door type-Right hand/ Manual Supplied complete with instruction manuals
SCT-109.801.52	SCT-INFLAME-15	SCT Flammable Liquid Safety Storage Cabinet External Dimensions W x D x H mm(in.)- 595*460*960 (23*18*38), Capacity Gal.(L)-12(45), No of shelves-1, Door type-Right hand/ Manual Supplied complete with instruction manuals
SCT-109.801.53	SCT-INFLAME-16	SCT Flammable Liquid Safety Storage Cabinet External Dimensions W x D x H mm(in.)- 595*460*1190 (23*18*47), Capacity Gal.(L)-15(57), No of shelves-1, Door type-Right hand/ Manual Supplied complete with instruction manual
SCT-109.801.61	SCT-INFLAME-17	SCT Flammable Liquid Safety Storage Cabinet External Dimensions W x D x H mm(in.)- 595*460*1720 (23*18*68), Capacity Gal.(L)22(83), No of shelves-3, Door type-Right hand/ Self-close Supplied complete with instruction manual
SCT-109.801.62	SCT-INFLAME-18	SCT Flammable Liquid Safety Storage Cabinet External Dimensions W x D x H mm(in.)- 595*860*1720 (23*34*68), Capacity Gal.(L)-54(204), No of shelves-3, Door type-Right hand/ Self-close Supplied complete with instruction manual
SCT-109.801.71	SCT-INFLAME-19	SCT Flammable Liquid Safety Storage Cabinet, External Dimensions W x D x H mm(in.)- 595*460*1720 (23*18*68), Capacity Gal.(L)-22(83), No of shelves-3, Door type-Right hand/ Manual Supplied complete with instruction manual
SCT-109.801.72	SCT-INFLAME-20	SCT Flammable Liquid Safety Storage Cabinet External Dimensions W x D x H mm(in.)- 595*860*1720 (23*34*68), Capacity Gal.(L)-54(204), No of shelves-3, Door type-Right hand/ Manual Supplied complete with instruction manual

SCT - PASSIVATE : CORROSIVE (LESS) LIQUIDS STORING SINGLE DOOR CABINETS

PRODUCT NO.	MODEL NAME	Capacity Galons(Liters)	No of Shelves	Door Type	External Dimensions W x D x H mm(in.)
SCT-109.802.01	SCT-PASSIVATE-1	4(15)	1	Left hand/ Self-close	435*435*630 (17*17*25)
SCT-109.802.02	SCT-PASSIVATE-2	12(45)	1	Left hand/ Self-close	595*460*960 (23*18*38)
SCT-109.802.03	SCT-PASSIVATE-3	15(57)	1	Left hand/ Self-close	595*460*1190 (23*18*47)
SCT-109.802.11	SCT-PASSIVATE-4	4(15)	1	Left hand/ Manual	435*435*630 (17*17*25)
SCT-109.802.12	SCT-PASSIVATE-5	12(45)	1	Left hand/ Manual	595*460*960 (23*18*38)
SCT-109.802.13	SCT-PASSIVATE-6	15(57)	1	Left hand/ Manual	595*460*1190 (23*18*47)
SCT-109.802.21	SCT-PASSIVATE-7	22(83)	3	Left hand/ Self-close	595*460*1720 (23*18*68)
SCT-109.802.22	SCT-PASSIVATE-8	54(204)	3	Left hand/ Self-close	595*860*1720 (23*34*68)
SCT-109.802.31	SCT-PASSIVATE-9	22(83)	3	Left hand/ Manual	595*460*1720 (23*18*68)
SCT-109.802.32	SCT-PASSIVATE-10	54(204)	3	Left hand/ Manual	595*860*1720 (23*34*68)
SCT-109.802.41	SCT-PASSIVATE-11	4(15)	1	Right hand/ Self-close	435*435*630 (17*17*25)
SCT-109.802.42	SCT-PASSIVATE-12	12(45)	1	Right hand/ Self-close	595*460*960 (23*18*38)
SCT-109.802.43	SCT-PASSIVATE-13	15(57)	1	Right hand/ Self-close	595*460*1190 (23*18*47)
SCT-109.802.51	SCT-PASSIVATE-14	4(15)	1	Right hand/ Manual	435*435*630 (17*17*25)
SCT-109.802.52	SCT-PASSIVATE-15	12(45)	1	Right hand/ Manual	595*460*960 (23*18*38)
SCT-109.802.53	SCT-PASSIVATE-16	15(57)	1	Right hand/ Manual	595*460*1190 (23*18*47)
SCT-109.802.61	SCT-PASSIVATE-17	22(83)	3	Right hand/ Self-close	595*460*1720 (23*18*68)
SCT-109.802.62	SCT-PASSIVATE-18	54(204)	3	Right hand/ Self-close	595*860*1720 (23*34*68)
SCT-109.802.71	SCT-PASSIVATE-19	22(83)	3	Right hand/ Manual	595*460*1720 (23*18*68)
SCT-109.802.72	SCT-PASSIVATE-20	54(204)	3	Right hand/ Manual	595*860*1720 (23*34*68)

ORDERING INFORMATIONS;

PRODUCT NO.	MODEL NAME	DESCRIPTION
SCT-109.802.01	SCT-PASSIVATE-1	SCT Low Corrosive Liquid Safety Storage Cabinet, External Dimensions W x D x H mm(in.)-435*435*630 (17*17*25), Capacity Gal.(L)-4(15), No of shelves-1, Door type-Left hand/ Self-close Supplied complete with instruction manual
SCT-109.802.02	SCT-PASSIVATE-2	SCT Low Corrosive Liquid Safety Storage Cabinet, External Dimensions W x D x H mm(in.)-595*460*960 (23*18*38), Capacity Gal.(L)-12(45), No of shelves-1, Door type-Left hand/ Self-close Supplied complete with instruction manual
SCT-109.802.03	SCT-PASSIVATE-3	SCT Low Corrosive Liquid Safety Storage Cabinet, External Dimensions W x D x H mm(in.)-595*460*1190 (23*18*47), Capacity Gal.(L)-15(57), No of shelves-1, Door type-Left hand/ Self-close Supplied complete with instruction manual
SCT-109.802.11	SCT-PASSIVATE-4	SCT Low Corrosive Liquid Safety Storage Cabinet, External Dimensions W x D x H mm(in.)-435*435*630 (17*17*25), Capacity Gal.(L)-4(15), No of shelves-1, Door type-Left hand/ Manual Supplied complete with instruction manual
SCT-109.802.12	SCT-PASSIVATE-5	SCT Low Corrosive Liquid Safety Storage Cabinet, External Dimensions W x D x H mm(in.)-595*460*960 (23*18*38), Capacity Gal.(L)-12(45), No of shelves-1, Door type-Left hand/ Manual Supplied complete with instruction manual
SCT-109.802.13	SCT-PASSIVATE-6	SCT Low Corrosive Liquid Safety Storage Cabinet, External Dimensions W x D x H mm(in.)-595*460*1190 (23*18*47), Capacity Gal.(L)-15(57), No of shelves-1, Door type-Left hand/ Manual Supplied complete with instruction manual

SCT-109.802.21	SCT-PASSIVATE-7	SCT Low Corrosive Liquid Safety Storage Cabinet, External Dimensions W x D x H mm(in.)-595*460*1720 (23*18*68), Capacity Gal.(L)-22(83), No of shelves-3, Door type-Left hand/ Self-close Supplied complete with instruction manual
SCT-109.802.22	SCT-PASSIVATE-8	SCT Low Corrosive Liquid Safety Storage Cabinet, External Dimensions W x D x H mm(in.)-595*860*1720 (23*34*68), Capacity Gal.(L)-54(204), No of shelves-3, Door type-Left hand/ Self-close Supplied complete with instruction manual
SCT-109.802.31	SCT-PASSIVATE-9	SCT Low Corrosive Liquid Safety Storage Cabinet, External Dimensions W x D x H mm(in.)-595*460*1720 (23*18*68), Capacity Gal.(L)-22(83), No of shelves-3, Door type-Left hand/ Manual Supplied complete with instruction manual
SCT-109.802.32	SCT-PASSIVATE-10	SCT Low Corrosive Liquid Safety Storage Cabinet, External Dimensions W x D x H mm(in.)-595*860*1720 (23*34*68), Capacity Gal.(L)-54(204), No of shelves-3, Door type-Left hand/ Manual Supplied complete with instruction manual
SCT-109.802.41	SCT-PASSIVATE-11	SCT Low Corrosive Liquid Safety Storage Cabinet, External Dimensions W x D x H mm(in.)-435*435*630 (17*17*25), Capacity Gal.(L)-4(15), No of shelves-1, Door type-Right hand/ Self-close Supplied complete with instruction manual
SCT-109.802.42	SCT-PASSIVATE-12	SCT Low Corrosive Liquid Safety Storage Cabinet, External Dimensions W x D x H mm(in.)-595*460*960 (23*18*38), Capacity Gal.(L)-12(45), No of shelves-1, Door type-Right hand/ Self-close Supplied complete with instruction manual
SCT-109.802.43	SCT-PASSIVATE-13	SCT Low Corrosive Liquid Safety Storage Cabinet, External Dimensions W x D x H mm(in.)-595*460*1190 (23*18*47), Capacity Gal.(L)-15(57), No of shelves-1, Door type-Right hand/ Self-close Supplied complete with instruction manual
SCT-109.802.51	SCT-PASSIVATE-14	SCT Low Corrosive Liquid Safety Storage Cabinet, External Dimensions W x D x H mm(in.)-435*435*630 (17*17*25), Capacity Gal.(L)-4(15), No of shelves-1, Door type-Right hand/ Manual Supplied complete with instruction manual
SCT-109.802.52	SCT-PASSIVATE-15	SCT Low Corrosive Liquid Safety Storage Cabinet, External Dimensions W x D x H mm(in.)-595*460*960 (23*18*38), Capacity Gal.(L)-12(45), No of shelves-1, Door type-Right hand/ Manual Supplied complete with instruction manual
SCT-109.802.53	SCT-PASSIVATE-16	SCT Low Corrosive Liquid Safety Storage Cabinet, External Dimensions W x D x H mm(in.)-595*460*1190 (23*18*47), Capacity Gal.(L)-15(57), No of shelves-1, Door type-Right hand/ Manual Supplied complete with instruction manual
SCT-109.802.61	SCT-PASSIVATE-17	SCT Low Corrosive Liquid Safety Storage Cabinet, External Dimensions W x D x H mm(in.)-595*460*1720 (23*18*68), Capacity Gal.(L)-22(83), No of shelves-3, Door type-Right hand/ Self-close Supplied complete with instruction manual
SCT-109.802.62	SCT-PASSIVATE-18	SCT Low Corrosive Liquid Safety Storage Cabinet, External Dimensions W x D x H mm(in.)-595*860*1720 (23*34*68), Capacity Gal.(L)-54(204), No of shelves-3, Door type-Right hand/ Self-close Supplied complete with instruction manual
SCT-109.802.71	SCT-PASSIVATE-19	SCT Low Corrosive Liquid Safety Storage Cabinet, External Dimensions W x D x H mm(in.)-595*460*1720 (23*18*68), Capacity Gal.(L)-22(83), No of shelves-3, Door type-Right hand/ Manual Supplied complete with instruction manual
SCT-109.802.72	SCT-PASSIVATE-20	SCT Low Corrosive Liquid Safety Storage Cabinet, External Dimensions W x D x H mm(in.)-595*860*1720 (23*34*68), Capacity Gal.(L)-54(204), No of shelves-3, Door type-Right hand/ Manual Supplied complete with instruction manual

SCT - METALOID - CORROSIVE LIQUIDS (HIGH) DOUBLE DOOR CABINETS

PRODUCT NO.	MODEL NAME	Capacity Galons(Liters)	No of Shelves	Door Type	External Dimensions W x D x H mm(in.)
SCT-109.803.01	SCT-METALLOID-1	30(114)	1	Self-close	1090*460*1190 (43*18*47)
SCT-109.803.02	SCT-METALLOID-2	45(170)	2	Self-close	1090*460*1720 (43*18*68)
SCT-109.803.03	SCT-METALLOID-3	60(227)	2	Self-close	860*860*1720 (34*34*68)
SCT-109.803.04	SCT-METALLOID-4	90(340)	2	Self-close	1090*860*1720 (43*34*68)
SCT-109.803.11	SCT-METALLOID-5	30(114)	1	Manual	1090*460*1190 (43*18*47)
SCT-109.803.12	SCT-METALLOID-6	45(170)	2	Manual	1090*460*1720 (43*18*68)
SCT-109.803.13	SCT-METALLOID-7	60(227)	2	Manual	860*860*1720 (34*34*68)
SCT-109.803.14	SCT-METALLOID-8	90(340)	2	Manual	1090*860*1720 (43*34*68)
SCT-109.803.21	SCT-METALLOID-9	22(83)	1	Self-close	1415*520*740 (56*20*29)
SCT-109.803.22	SCT-METALLOID-10	22(83)	1	Self-close	1415*520*570 (56*20*22)
SCT-109.803.23	SCT-METALLOID-11	22(83)	1	Self-close	1115*520*740 (44*20*29)
SCT-109.803.24	SCT-METALLOID-12	22(83)	1	Self-close	1115*520*570 (44*20*22)
SCT-109.803.31	SCT-METALLOID-13	22(83)	1	Manual	1415*520*740 (56*20*29)
SCT-109.803.32	SCT-METALLOID-14	22(83)	1	Manual	1415*520*570 (56*20*22)
SCT-109.803.33	SCT-METALLOID-15	22(83)	1	Manual	1115*520*740 (44*20*29)
SCT-109.803.34	SCT-METALLOID-16	22(83)	1	Manual	1115*520*570 (44*20*22)
SCT-109.803.41	SCT-METALLOID-17	155(208)	none	Self-close	760*1220*1220 (30*48*48)
SCT-109.803.42	SCT-METALLOID-18	155(208)	none	Manual	760*1220*1220 (30*48*48)
SCT-109.803.51	SCT-METALLOID-19	155(208)	1	Self-close	860*860*1720 (34*34*68)
SCT-109.803.52	SCT-METALLOID-20	155(208)	1	Manual	860*860*1720 (34*34*68)

ORDERING INFORMATIONS:

PRODUCT NO.	MODEL NAME	DESCRIPTION
SCT-109.803.01	SCT-METALLOID-1	SCT Double-Door Cabinets-, External Dimensions W x D x H mm(in.)-1090*460*1190 (43*18*47), Capacity Gal.(L)-30(114), No of shelves-1, Door type-Self-close Supplied complete with instruction manual
SCT-109.803.02	SCT-METALLOID-2	SCT Double-Door Cabinets-, External Dimensions W x D x H mm(in.)-1090*460*1720 (43*18*68), Capacity Gal.(L)-45(170), No of shelves-2, Door type-Self-close Supplied complete with instruction manual
SCT-109.803.03	SCT-METALLOID-3	SCT Double-Door Cabinets-, External Dimensions W x D x H mm(in.)-860*860*1720 (34*34*68), Capacity Gal.(L)-60(227), No of shelves-2, Door type-Self-clos Supplied complete with instruction manual
SCT-109.803.04	SCT-METALLOID-4	SCT Double-Door Cabinets-, External Dimensions W x D x H mm(in.)-1090*860*1720 (43*34*68), Capacity Gal.(L)-90(340), No of shelves-2, Door type-Self-close Supplied complete with instruction manual
SCT-109.803.11	SCT-METALLOID-5	SCT Double-Door Cabinets-, External Dimensions W x D x H mm(in.)-1090*460*1190 (43*18*47), No of shelves-1, Door type-Self-Manual Supplied complete with instruction manual
SCT-109.803.12	SCT-METALLOID-6	SCT Double-Door Cabinets-, External Dimensions W x D x H mm(in.)-1090*460*1720 (43*18*68), Capacity Gal.(L)-45(170), No of shelves-2, Door type-Self-Manual Supplied complete with instruction manual
SCT-109.803.13	SCT-METALLOID-7	SCT Double-Door Cabinets-, External Dimensions W x D x H mm(in.)-860*860*1720 (34*34*68), Capacity Gal.(L)-60(227), No of shelves-2, Door type-Self-Manual Supplied complete with instruction manual
SCT-109.803.14	SCT-METALLOID-8	SCT Double-Door Cabinets-, External Dimensions W x D x H mm(in.)-1090*860*1720 (43*34*68), Capacity Gal.(L)-90(340), No of shelves-2, Door type-Self-Manual Supplied complete with instruction manual
SCT-109.803.21	SCT-METALLOID-9	SCT Double-Door Cabinets-, External Dimensions W x D x H mm(in.)-1415*520*740 (56*20*29), Capacity Gal.(L)-22(83), No of shelves-1, Door type-Self-close Supplied complete with instruction manual
SCT-109.803.22	SCT-METALLOID-10	SCT Double-Door Cabinets-, External Dimensions W x D x H mm(in.)-1415*520*570 (56*20*22), Capacity Gal.(L)-22(83), No of shelves-1, Door type-Self-close Supplied complete with instruction manual
SCT-109.803.23	SCT-METALLOID-11	SCT Double-Door Cabinets-, External Dimensions W x D x H mm(in.)-1115*520*740 (44*20*29), Capacity Gal.(L)-22(83), No of shelves-1, Door type-Self-close Supplied complete with instruction manual
SCT-109.803.24	SCT-METALLOID-12	SCT Double-Door Cabinets-, External Dimensions W x D x H mm(in.)-1115*520*570 (44*20*22), Capacity Gal.(L)-22(83), No of shelves-1, Door type-Self-close Supplied complete with instruction manual
SCT-109.803.31	SCT-METALLOID-13	SCT Double-Door Cabinets-, External Dimensions W x D x H mm(in.)-1415*520*740 (56*20*29), Capacity Gal.(L)-22(83), No of shelves-1, Door type-Self-Manual Supplied complete with instruction manual
SCT-109.803.32	SCT-METALLOID-14	SCT Double-Door Cabinets-, External Dimensions W x D x H mm(in.)-1415*520*570 (56*20*22), Capacity Gal.(L)-22(83), No of shelves-1, Door type-Self-Manual Supplied complete with instruction manual
SCT-109.803.33	SCT-METALLOID-15	SCT Double-Door Cabinets-, External Dimensions W x D x H mm(in.)-1115*520*740 (44*20*29), Capacity Gal.(L)-22(83), No of shelves-1, Door type-Self-Manual Supplied complete with instruction manual
SCT-109.803.34	SCT-METALLOID-16	SCT Double-Door Cabinets-, External Dimensions W x D x H mm(in.)-1115*520*570 (44*20*22), No of shelves-1, Door type-Self-Manual Supplied complete with instruction manual
SCT-109.803.41	SCT-METALLOID-17	SCT Double-Door Cabinets-, External Dimensions W x D x H mm(in.)-760*1220*1220 (30*48*48), Capacity Gal.(L)-1-55(208), Door type-Self-close Supplied complete with instruction manual
SCT-109.803.42	SCT-METALLOID-18	SCT Double-Door Cabinets-, External Dimensions W x D x H mm(in.)-760*1220*1220 (30*48*48), Capacity Gal.(L)-1-55(208), Door type-Manual Supplied complete with instruction manual

SCT-109.803.51	SCT-METALLOID-19	SCT Double-Door Cabinets-, External Dimensions W x D x H mm(in.)-860*860*1720 (34*34*68), Capacity Gal.(L)-1-55(208), No of shelves-1, Door type-Self-close Supplied complete with instruction manual
SCT-109.803.52	SCT-METALLOID-20	SCT Double-Door Cabinets-, External Dimensions W x D x H mm(in.)-860*860*1720 (34*34*68), Capacity Gal.(L)-1-55(208), No of shelves-1, Door type-Self-Manual Supplied complete with instruction manual

SCT - EXTINGO : COMBUSTIBLE LIQUIDS STORAGE CABINETS

PRODUCT NO.	MODEL NAME	Capacity Galons(Liters)	No of Shelves	Door Type	External Dimensions W x D x H mm(in.)
SCT-109.804.01	SCT-EXTINGO-1	4(15)	1	Left hand/ Self-close	435*435*630 (17*17*25)
SCT-109.804.02	SCT-EXTINGO-2	12(45)	1	Left hand/ Self-close	595*460*960 (23*18*38)
SCT-109.804.03	SCT-EXTINGO-3	15(57)	1	Left hand/ Self-close	595*460*1190 (23*18*47)
SCT-109.804.11	SCT-EXTINGO-4	4(15)	1	Left hand/ Manual	435*435*630 (17*17*25)
SCT-109.804.12	SCT-EXTINGO-5	12(45)	1	Left hand/ Manual	595*460*960 (23*18*38)
SCT-109.804.13	SCT-EXTINGO-6	15(57)	1	Left hand/ Manual	595*460*1190 (23*18*47)
SCT-109.804.21	SCT-EXTINGO-7	22(83)	3	Left hand/ Self-close	595*460*1720 (23*18*68)
SCT-109.804.22	SCT-EXTINGO-8	54(204)	3	Left hand/ Self-close	595*860*1720 (23*34*68)
SCT-109.804.31	SCT-EXTINGO-9	22(83)	3	Left hand/ Manual	595*460*1720 (23*18*68)
SCT-109.804.32	SCT-EXTINGO-10	54(204)	3	Left hand/ Manual	595*860*1720 (23*34*68)
SCT-109.804.41	SCT-EXTINGO-11	4(15)	1	Right hand/ Self-close	435*435*630 (17*17*25)
SCT-109.804.42	SCT-EXTINGO-12	12(45)	1	Right hand/ Self-close	595*460*960 (23*18*38)
SCT-109.804.43	SCT-EXTINGO-13	15(57)	1	Right hand/ Self-close	595*460*1190 (23*18*47)
SCT-109.804.51	SCT-EXTINGO-14	4(15)	1	Right hand/ Manual	435*435*630 (17*17*25)
SCT-109.804.52	SCT-EXTINGO-15	12(45)	1	Right hand/ Manual	595*460*960 (23*18*38)
SCT-109.804.53	SCT-EXTINGO-16	15(57)	1	Right hand/ Manual	595*460*1190 (23*18*47)
SCT-109.804.61	SCT-EXTINGO-17	22(83)	3	Right hand/ Self-close	595*460*1720 (23*18*68)
SCT-109.804.62	SCT-EXTINGO-18	54(204)	3	Right hand/ Self-close	595*860*1720 (23*34*68)
SCT-109.804.71	SCT-EXTINGO-19	22(83)	3	Right hand/ Manual	595*460*1720 (23*18*68)
SCT-109.804.72	SCT-EXTINGO-20	54(204)	3	Right hand/ Manual	595*860*1720 (23*34*68)

ORDERING INFORMATIONS:

PRODUCT NO.	MODEL NAME	DESCRIPTION
SCT-109.804.01	SCT-EXTINGO-1	SCT Combustible Liquid Safety Storage Cabinet-External Dimensions W x D x H mm(in.)-435*435*630 (17*17*25), Capacity Gal.(L)-4(15), No of shelves-1, Door type-Left hand/ Self-close1, Supplied complete with instruction manual
SCT-109.804.02	SCT-EXTINGO-2	SCT Combustible Liquid Safety Storage Cabinet-External Dimensions W x D x H mm(in.)-595*460*960 (23*18*38), Capacity Gal.(L)-12(45), No of shelves-1, Door type-Left hand/ Self-close1, Supplied complete with instruction manual
SCT-109.804.03	SCT-EXTINGO-3	SCT Combustible Liquid Safety Storage Cabinet-External Dimensions W x D x H mm(in.)-595*460*1190 (23*18*47), Capacity Gal.(L)-15(57), No of shelves-1, Door type-Left hand/ Self-close1, Supplied complete with instruction manual

SCT-109.804.11	SCT-EXTINGO-4	SCT Combustible Liquid Safety Storage Cabinet-External Dimensions W x D x H mm(in.)-435*435*630 (17*17*25), Capacity Gal.(L)-4(15), No of shelves-1, Door type-Left hand/ Manual, Supplied complete with instruction manual
SCT-109.804.12	SCT-EXTINGO-5	SCT Combustible Liquid Safety Storage Cabinet-External Dimensions W x D x H mm(in.)-595*460*960 (23*18*38), Capacity Gal.(L)-12(45), No of shelves-1, Door type-Left hand/ Manual, Supplied complete with instruction manual
SCT-109.804.13	SCT-EXTINGO-6	SCT Combustible Liquid Safety Storage Cabinet-External Dimensions W x D x H mm(in.)-595*460*1190 (23*18*47), Capacity Gal.(L)-15(57), No of shelves-1, Door type-Left hand/ Manual, Supplied complete with instruction manual
SCT-109.804.21	SCT-EXTINGO-7	SCT Combustible Liquid Safety Storage Cabinet-External Dimensions W x D x H mm(in.)-595*460*1720 (23*18*68), Capacity Gal.(L)-, No of shelves-3, Door type-Left hand/ Self-close, Supplied complete with instruction manual
SCT-109.804.22	SCT-EXTINGO-8	SCT Combustible Liquid Safety Storage Cabinet-External Dimensions W x D x H mm(in.)-595*860*1720 (23*34*68), Capacity Gal.(L)-, No of shelves-3, Door type-Left hand/ Self-close, Supplied complete with instruction manual
SCT-109.804.31	SCT-EXTINGO-9	SCT Combustible Liquid Safety Storage Cabinet-External Dimensions W x D x H mm(in.)-595*460*1720 (23*18*68), Capacity Gal.(L)-22(83), No of shelves-3, Door type-Left hand/ Manual, Supplied complete with instruction manual
SCT-109.804.32	SCT-EXTINGO-10	SCT Combustible Liquid Safety Storage Cabinet-External Dimensions W x D x H mm(in.)-595*860*1720 (23*34*68), Capacity Gal.(L)-54(204), No of shelves-3, Door type-Left hand/ Manual, Supplied complete with instruction manual
SCT-109.804.41	SCT-EXTINGO-11	SCT Combustible Liquid Safety Storage Cabinet-External Dimensions W x D x H mm(in.)-435*435*630 (17*17*25), Capacity Gal.(L)-4(15), No of shelves-1, Door type-Right hand/ Self-close, Supplied complete with instruction manual
SCT-109.804.42	SCT-EXTINGO-12	SCT Combustible Liquid Safety Storage Cabinet-External Dimensions W x D x H mm(in.)-595*460*960 (23*18*38), Capacity Gal.(L)-12(45), No of shelves-1, Door type-Right hand/ Self-close, Supplied complete with instruction manual
SCT-109.804.43	SCT-EXTINGO-13	SCT Combustible Liquid Safety Storage Cabinet-External Dimensions W x D x H mm(in.)-595*460*1190 (23*18*47), Capacity Gal.(L)-15(57), No of shelves-1, Door type-Right hand/ Self-close, Supplied complete with instruction manual
SCT-109.804.51	SCT-EXTINGO-14	SCT Combustible Liquid Safety Storage Cabinet-External Dimensions W x D x H mm(in.)-435*435*630 (17*17*25), Capacity Gal.(L)-4(15), No of shelves-1, Door type-Right hand/ Manual, Supplied complete with instruction manual
SCT-109.804.52	SCT-EXTINGO-15	SCT Combustible Liquid Safety Storage Cabinet-External Dimensions W x D x H mm(in.)-595*460*960 (23*18*38), Capacity Gal.(L)-12(45), No of shelves-1, Door type-Right hand/ Manual, Supplied complete with instruction manual
SCT-109.804.53	SCT-EXTINGO-16	SCT Combustible Liquid Safety Storage Cabinet-External Dimensions W x D x H mm(in.)-595*460*1190 (23*18*47), Capacity Gal.(L)-15(57), No of shelves-1, Door type-Right hand/ Manual, Supplied complete with instruction manual
SCT-109.804.61	SCT-EXTINGO-17	SCT Combustible Liquid Safety Storage Cabinet-External Dimensions W x D x H mm(in.)-595*460*1720 (23*18*68), Capacity Gal.(L)-22(83), No of shelves-3, Door type-Right hand/ Self-close, Supplied complete with instruction manual
SCT-109.804.62	SCT-EXTINGO-18	SCT Combustible Liquid Safety Storage Cabinet-External Dimensions W x D x H mm(in.)-595*860*1720 (23*34*68), Capacity Gal.(L)-54(204), No of shelves-3, Door type-Right hand/ Self-close, Supplied complete with instruction manual
SCT-109.804.71	SCT-EXTINGO-19	SCT Combustible Liquid Safety Storage Cabinet-External Dimensions W x D x H mm(in.)-595*460*1720 (23*18*68), Capacity Gal.(L)-22(83), No of shelves-3, Door type-Right hand/ Manual, Supplied complete with instruction manual
SCT-109.804.72	SCT-EXTINGO-20	SCT Combustible Liquid Safety Storage Cabinet- External Dimensions W x D x H mm(in.)-595*860*1720 (23*34*68), Capacity Gal.(L)-54(204), No of shelves-3, Door type-Right hand/ Manual, Supplied complete with instruction manual

SCT-HALOGEN : EXPLOSION PROOF WASTE CHEMICALS STORAGE CABINETS

PRODUCT NO.	MODEL NAME	Capacity	No of Shelves	Description	External Dimensions WxDxH mm(inches)
SCT-109.805.01	SCT-HALOGEN-1	Medium	N/A	Medium-Explosion-Proof Waste Chemical Storage Cabinet ● Chemical corrosion-resistance board ● Hanging rail explosion-proof window Fitted with explosion proof light and switches ● Explosion-proof grade control system	1800*860*2225 (70.86*33.85*87.59)
SCT-109.805.02	SCT-HALOGEN-2	Large	N/A	Large-Explosion-Proof Waste Chemical Storage Cabinet ● Chemical corrosion-resistance board ● Hanging rail explosion-proof window Fitted with explosion proof light and switches ● Explosion-proof grade control system	2100*860*2225 (82.67*33.85*87.59)

ORDERING INFORMATIONS;

PRODUCT NUMBER	MODEL NAME	DESCRIPTION
SCT-109.805.01	SCT-HALOGEN-1	SCT Explosion-Proof Waste Chemical Storage Cabinet Ext. Dimensions 1800x860x2225 mm, Chemical corrosion-resistance board, Hanging rail explosion-proof window, Explosion-proof grade control system Supplied complete with instruction manual
SCT-109.805.02	SCT-HALOGEN-2	SCT Explosion-Proof Waste Chemical Storage Cabinet Ext. Dimensions,2100x860x2225 mm, Chemical corrosion-resistance board, Hanging rail explosion-proof window, Explosion-proof grade control system Supplied complete with instruction manual

NOTES:

We thank our valuable customers for sparing their precious time in reading our complete SCT Product Catalog. In case should you require any further or a copy of catalogue or copy of catalogue cd, please contact us through email at sales@scichemtech.com.

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