

ION PAIR CHROMATOGRAPHY

DISCOVER THE POWER OF OUR ION PAIR CHROMATOGRAPHY (IPC) - Your Ultimate Solution!

RCI Labscan is thrilled to present a cutting-edge solution, "Ion Pair Chromatography (IPC) Product", as one of our products that will be empowered you to explore new frontiers in your analytical endeavors. Ion Pair Chromatography (IPC) Product is a powerful separation technique for chemicals that combines the principles of both liquid-liquid extraction and traditional high-performance liquid chromatography (HPLC).

It involves the addition of ionic species (ion-pair reagents) to the mobile phase to facilitate the separation of neutral compounds. This method is highly effective for the analysis of polar, charged, or ionizable analytes that may be challenging to resolve using conventional HPLC. In our pursuit of excellence, we bring you our latest products to address your analytical challenges and take your research to new heights.

Key Features and Benefits:

- 1. Unparalleled Analytical Resolution:**
IPC enables you to achieve exceptional resolution, even for complex mixtures, by forming ion pairs between the analyte and a counter-ion. This leads to improved peak shapes and accurate quantification.
- 2. Extensive Applicability:**
From pharmaceuticals, biochemistry, and environmental analysis to food and beverage testing, IPC finds applications across a wide range of industries. Whatever your analytical needs, IPC can provide the solution.
- 3. Enhanced Sensitivity:**
With lower detection limits and higher sensitivity, IPC empowers you to detect and quantify trace components, thus opening doors to new insights and discoveries.
- 4. Reduced Matrix Interference:**
The unique properties of IPC help overcome matrix interference encountered in complex samples, ensuring reliable and reproducible results.
- 5. Cost-Efficient:**
IPC minimizes the need for expensive sample preparation and reduces solvent consumption, leading to cost savings without compromising the quality of analysis.
- 6. Compatibility with Various Detectors:**
Whether you prefer UV-Visible, fluorescence, or mass spectrometry detection, IPC seamlessly integrates with different detectors, providing versatility and flexibility.
- 7. User-Friendly and Time-Efficient:**
Experience smooth integration of IPC into your laboratory workflow. Our expert support team will guide you every step of the way, saving you valuable time and effort.

Unlock New Possibilities with IPC:

- Pharmaceutical Analysis:**
Ensure regulatory compliance, determine drug purity, and study drug interactions with IPC's exceptional resolution power.
- Environmental Monitoring:**
Detect and quantify trace contaminants in water, soil, and air with unprecedented precision, aiding in environmental preservation efforts.
- Food Safety and Quality:**
Guarantee consumer safety by accurately identifying and quantifying additives, contaminants, and allergens in food products.
- Life Sciences Research:**
Facilitate proteomic and metabolomic studies, drug development, and bioanalytical research with confidence and efficiency.

Our Commitment to Excellence:

RCI Labscan is always dedicated to providing you with the highest quality IPC solutions. Our catalog features a comprehensive range of state-of-the-art IPC columns, ion-pairing reagents, and accessories from leading manufacturers in the industry. Furthermore, our team of experts is readily available to offer personalized guidance and support to ensure your success in implementing IPC techniques.

Revolutionize your analytical experience together!

Get started by exploring our Chemicals for Liquid Chromatography techniques catalogue and discover how IPC can enhance your analytical capabilities and help you uncover the hidden secrets within your samples.

1-Butanesulfonic Acid Sodium Salt Anhydrous, HPLC**(LC1497)**

$C_4H_9NaO_3S$ FW. 160.17
CAS-No. 2386-54-1
Melting Point >300 °C

Specifications

Description White crystalline power

Assay
(Alkalimetric; calculate on dried substance) 99.0% min.

Identity (IR) Passes test

pH value (10% Solution) 5.0-7.0

Lost on drying (at 120 °C, vacuum) 2.0% max.

UV Transmission Levels (%T) (0.005 mol/l in water)

250 nm 98% min.

220 nm 90% min.

200 nm 70% min.

Cat No. Package Size

LC1497-G25G Glass 25 Gram

LC1497-G100G Glass 100 Gram

1-Octanesulfonic Acid Sodium Salt Anhydrous, HPLC**(LC1425)**

$C_8H_{17}NaO_3S$ FW. 216.28
CAS-No. 5324-84-5
Melting Point 299-301 °C

Specifications

Description White crystalline power

Assay
(Alkalimetric; calculate on dried substance) 99.0% min.

Identity (IR) Passes test

pH value (10% Solution) 5.5-7.5

Lost on drying (at 120 °C, vacuum) 2.0% max.

UV Transmission Levels (%T) (0.005 mol/l in water)

250 nm 98% min.

220 nm 90% min.

200 nm 70% min.

Cat No. Package Size

LC1425-G25G Glass 25 Gram

LC1425-G100G Glass 100 Gram

1-Heptanesulfonic Acid Sodium Salt Anhydrous, HPLC**(LC1423)**

$C_7H_{15}NaO_3S$ FW. 202.25
CAS-No. 22767-50-6
Melting Point 299-301 °C

Specifications

Description White crystalline power

Assay
(Alkalimetric; calculate on dried substance) 99.0% min.

Identity (IR) Passes test

pH value (10% Solution) 5.5-7.5

Lost on drying (at 120 °C, vacuum) 2.0% max.

UV Transmission Levels (%T) (0.005 mol/l in water)

250 nm 98% min.

220 nm 90% min.

200 nm 70% min.

Cat No. Package Size

LC1423-G25G Glass 25 Gram

LC1423-G100G Glass 100 Gram

1-Pentanesulfonic Acid Sodium Salt Anhydrous, HPLC**(LC1419)**

$C_5H_{11}NaO_3S$ FW. 174.19
CAS-No. 22767-49-3
Melting Point >300 °C

Specifications

Description White crystalline power

Assay
(Alkalimetric; calculate on dried substance) 99.0% min.

Identity (IR) Passes test

pH value (10% Solution) 5.5-7.5

Lost on drying (at 120 °C, vacuum) 2.0% max.

UV Transmission Levels (%T) (0.005 mol/l in water)

250 nm 98% min.

220 nm 90% min.

200 nm 70% min.

Cat No. Package Size

LC1419-G25G Glass 25 Gram

LC1419-G100G Glass 100 Gram

1-Hexanesulphonic Acid Sodium Salt Anhydrous, HPLC**(LC1421)**

$C_6H_{13}NaO_3S$ FW. 188.22
CAS-No. 2832-45-3
Melting Point >300 °C

Specifications

Description White crystalline power

Assay
(Alkalimetric; calculate on dried substance) 99.0% min.

Identity (IR) Passes test

pH value (10% Solution) 5.5-7.5

Lost on drying (at 120 °C, vacuum) 2.0% max.

UV Transmission Levels (%T) (0.005 mol/l in water)

250 nm 98% min.

220 nm 90% min.

200 nm 70% min.

Cat No. Package Size

LC1421-G25G Glass 25 Gram

LC1421-G100G Glass 100 Gram

Tetrabutyl Ammonium Hydrogen Sulfate, HPLC**(LC1498)**

$C_{16}H_{37}NaO_4S$ FW. 339.54
CAS-No. 32503-27-8
Melting Point 165.3-167.5 °C

Specifications

Description Colorless crystals or white crystalline powder

Assay
(Alkalimetric; calculate on dried substance) 99.0% min.

Identity (IR) Passes test

pH value (10% Solution) 5.5-7.5

Lost on drying (at 120 °C, vacuum) 2.0% max.

UV Transmission Levels (%T) (0.005 mol/l in water)

250 nm 98% min.

220 nm 90% min.

200 nm 70% min.

Cat No. Package Size

LC1498-G25G Glass 25 Gram

LC1498-G100G Glass 100 Gram