天宇股份
TIANYU PHARM
Stock code：300702

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D-U-N-S® NUMBER 42-133-8847

# *Professional High Purity Solvent Manufacturer Serving Global Customers*

**CINC High Purity Solvents (Shanghai) Co., Ltd**

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## Vision

Leading Purification Technology

## Mission

Providing Products and Technical Service for Science and Manufacturing Industry

## Core Value

Customer First, Team Work, Continual Innovation, Pursue Excellence.

# CINC with Leading Technology

CINC High Purity Solvents (Shanghai) Co., Ltd, subsidiary of Zhejiang Tianyu Pharmaceutical Co., Ltd (stock code: 300702), was established in 2005 and primarily engaged in manufacturing and distribution of top-class high purity solvents. CINC has now become the largest R&D center and manufacturing base in Asia with production capacity of 75,000 tons per year.

CINC provides high purity solvents of LC-MS grade, UPLC grade, HPLC gradient grade, HPLC grade, RESI grade, Anhydrous grade and PREP grade. We sell more than 1.4 million bottles of HPLC solvents and 40,000 tons of PREP solvents per year to customers in pharmaceutical industry, research institutes, testing companies, electrical manufacture industry etc. in China and all over the world.

Manufacturing Base

## Shanghai Chemical Industry Park
## Shandong Changyi Chemical Industry Park

Production Capacity

75,000+

Core Invention Patents

40+

Research Team Members

30+

Customers

5,000+

# Hornor & Certifications

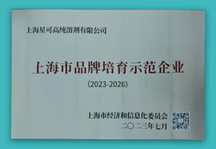
ISO9001

ISO45001

ISO14001

D-U-N-S Registered Company

High-tech Enterprise



Shanghai Brand Cultivation Enterprise

National Specialized and Innovative SMEs

- High-tech Enterprise
- National Specialized and Innovative SMEs
- Shanghai Brand Cultivation Enterprise
- Shanghai Strategic Key Project in Emerging Industries
- ISO9001 / ISO14001 / ISO45001
- D-U-N-S Registered Company

# Company History

## 2005

### Foundation

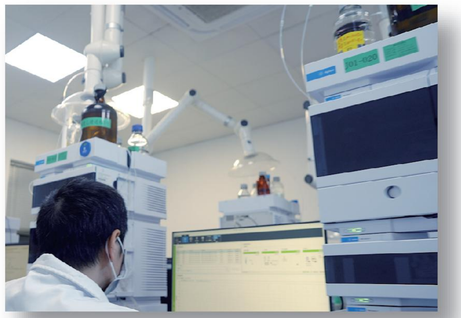
Shanghai CINC was founded to supply HPLC solvents.

## 2011

### Relocated to Shanghai Chemical Industrial Park

New factory was built in Shanghai Chemical Industrial Park with 12,800 tons of yearly production capacity.

## 2012



### Built Technology Center

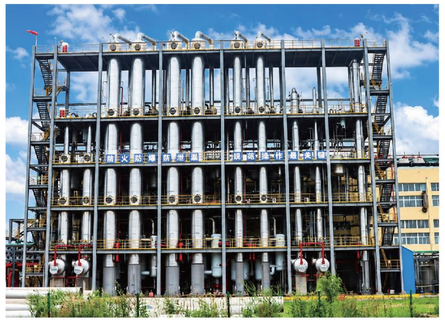
Built technology center with universities.

## 2015

### Granted as High-tech Enterprise

Achieved ISO9001 and ISO14001;
Granted as High-tech Enterprise in China.

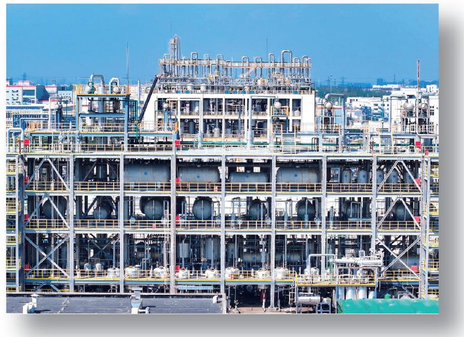
## 2026



### New Start in Business

Become part of Tianyu Pharm. Munufacturing capacity increased to 75,000 tons / year.

## 2024



### Leading the Industry

Sales volume over 1.4 million bottles of HPLC solvents, becoming NO.1 in China market.

## 2022

### Innovation

Developed and launched LC-MS solvent and UPLC solvent. Achieved ISO45001.

## 2021

### National Specialized and Innovative SMEs

Awarded National Specialized and Innovative SMEs according to the professional production,capability of innovation and leading market share in China.

# Global Sales Channels

**2 Manufacturing Base**

Shanghai Chemical Industry Park
Shandong Changyi Chemical Industry Park

**5 Logistic Centers**

in Shanghai, Changyi, Tianjin, Jinan and Chengdu to guarantee product delivery in time.

**7 Sales Offices**

providing quick service response to over 5,000 customers.

**Cover Over 30 Countries**

Sales and after-sale service cover more than 30 countries.

***Shanghai Sales Office***
Zhejiang, Jiangsu, Shanghai

***Wuhan Sales Office***
Hunan,Hubei, Anhui

***Guangzhou Sales Office***
Guangdong, Guangxi, Fujian, Hainan, Jiangxi

***Jinan Sales Office***
Shandong, Hebei, Shanxi

***Shenyang Sales Office***
Heilongjiang, Jilin Province, Liaoning

***Beijing Sales Office***
Beijing, Tianjin, Inner Mongolia

***Chengdu Sales Office***
Sichuan, Chongqing, Guizhou, Yunnan, Shanxi, Henan, Ningxia, Gansu, Qinghai, Xinjiang, Tibet

***Germany***

***Russia***

***Brazil***

***Bangladesh***

***South Africa***

***America***

***Kenya***

***Malaysia***

***Egypt***

***Pakistan***

***Middle East***

# Our Customers

**CRO**

**Chemical Pharmacy**

**Peptide Pharmacy**

**Gene Synthesis**

**Agricultural Chemical**

**Chinese Herbal Medicines**

**Testing Companies**

**Research Institutes& Universities**

# International Standard Factory

## Reliable Raw Materials

--Select best raw materials inside the Industrial Park, timely and stable supply is guaranteed;
--Complete test process is adopted after arrival of the raw materials;
--2600m³ tanks for sufficient storage.

## Quality Control System

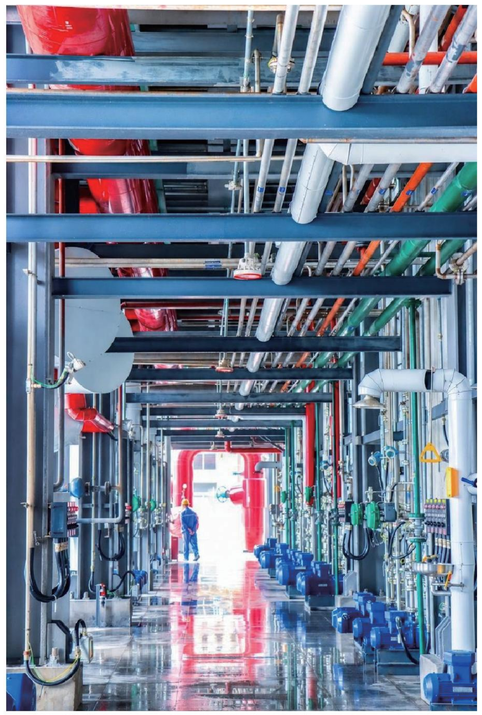
--Independent QA & QC dept;
--Advanced test equipment and complete test process are used during the operations.

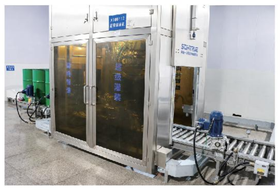
## Automatic Production Lines

--Automatic and efficient production system, making better production results and lower cost possible;
--Visualize control system to guarantee the safe production.

## Standard Warehouse

--Professional HPLC solvent warehouse for safe storage;
--Simplified order and stock out process for efficient delivery.





# Advanced Operation

## Superior Quality

*Superior quality comes from details controlling. CINC Quality Dept. includes System Management, Standard Setting, Analysis and Test. Comprehensive quality control process is adopted.*

## Quality Monitoring of Entire Process

*Quality control process includes: raw materials arrival, raw materials into tank, pretreatment, distillation & purification, into semi-finished product tank, into finished product tank, filling and packing, test and into storage.*

*Monitor the data of purity, moisture, pH, UV absorbance / transmittance and other related data of each step during production.*

*COA of each batch of products can be achieved through CINC wechat and website, ensuring the traceability of product quality.*

## Production Operation Monitoring

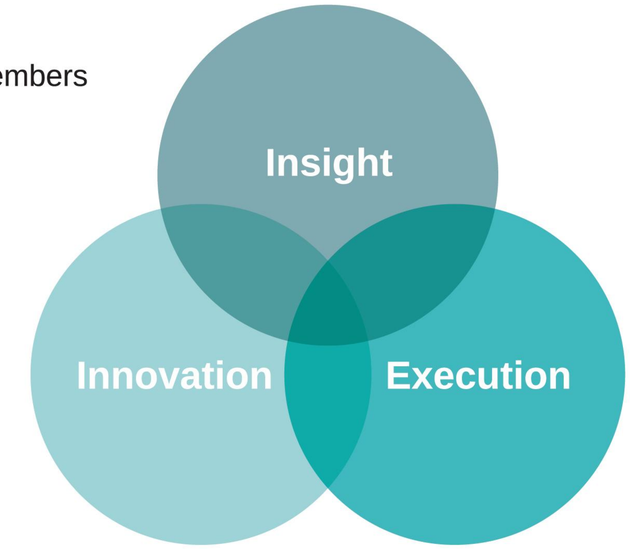
*Production Operation Dep. monitors and ensures that all staff, equipment, process and environment shall meet the requirement, to guarantee product quality and stability.*

# Innovation is
# Core Competitiveness

**30+**
professional R&D members

**20+**
HPLC patents

**20+**
HPLC techniques



ICP-MS

GC-MS

FT-IR

HS-GC

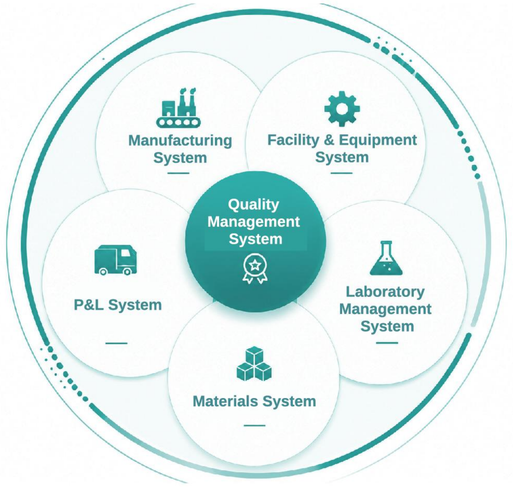
LC-MS



# QA&QC
# Quality Control System

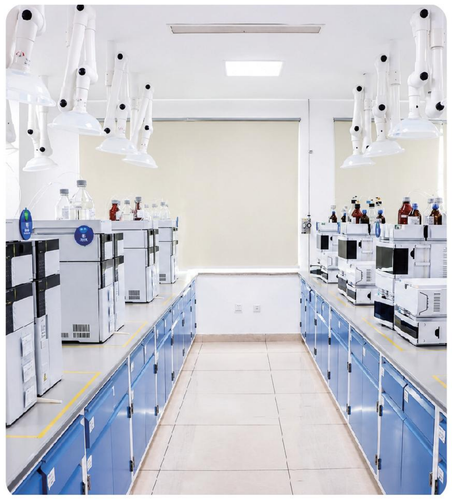
## QA System

CINC has established a complete quality management system and has achieved ISO9001, ISO14001, and ISO45001 certifications. The company boasts a QA and QC team of over 50 members who strictly adhere to the ISO 9001 standards, the Quality Management Manual, and internal SOP operating procedures. We continuously standardize and optimize the entire production and quality management process, ensuring high-quality products and services at the systemic level.




## QC System

Our QC laboratory is equipped with high-end testing instruments, performing full-process inspection from raw materials to finished products.



UV-Vis

HPLC

GC

Karl Fischer moisture meter

# LC-MS
# Grade

LC-MS solvents produced by CINC have extremely low organic impurities, trace metal and background noise, which greatly reduce the variables in the analysis tests. It is applied in the LC-MS analysis for ppb level.

Suitable for LC-MS, UPLC, UHPLC, HPLC, LC-CAD instruments.
Conforms to Acetonitrile for chromatography and Acetonitrile R1 according to Reag.Ph Eur.
Conforms to the requirements of ACS and EP for liquid chromatography suitability.

## Advantages:

- Ultra-high purity.
- Excellent batch stability with consistent peak retention times.
- Tested by high-sensitive LC-MS in ESI positive and negative modes.
- Low organic impurities and trace metals, reducing interference to trace and unknown samples.
- Filtered through ***0.05μm*** membrane, low volatile residue and solid particles, which reduces downtime caused by chromatographic column failures.
- Suitable for LC-MS, UPLC, UHPLC, HPLC and LC-CAD instruments, meeting trace level detection requirements.

## Package: 1L / 2.5L / 4L

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| Metal Ion Content | Filtered by Membrane of | Gradient Peak | Applies to **HPLC、UHPLC** |
| **10 ppb** | **0.05 μm** | **⩽0.5 mAU** | **LC-MS、CAD** instruments |

| Product Name | Purity(GC) | Water | ESI+ mode (as Reserpine) | ESI− mode (as Reserpine) | Na、Ca、Mg Al、K、Fe | Any Further Metal | UV Transmittance | Fluorescent Impurity | Gradient Elution |
|---|---|---|---|---|---|---|---|---|---|
| Acetonitrile | ⩾ 99.9% | ⩽ 100ppm | ⩽ 50ppb | ⩽ 50ppb | ⩽ 10ppb | ⩽ 10ppb | 193nm ⩾ 60.0%<br>195nm ⩾ 85.0%<br>200nm ⩾ 95.5%<br>210nm ⩾ 96.5%<br>220nm ⩾ 98.0%<br>230nm ⩾ 98.8%<br>240nm-400nm<br>⩾ 99.0% | 254nm ⩽ 1.0ppb<br>365nm ⩽ 0.5ppb | 210nm ⩽ 1.0mAU<br>254nm ⩽ 0.5mAU |



# UPLC
# Grade

UPLC is a superior series launched by CINC. It has achieved top-level parameters and filled by automatic production lines, which ensure the stability and excellent experiment results.
Suitable for life sciences, pharmaceutical analysis, food testing, environmental monitoring, and fine chemical analysis, it has been widely adopted by research institutions, testing organizations, as well as corporate R&D and quality control departments for analytical applications.

Suitable for HPLC, UPLC, UHPLC, LC-CAD instruments.
Conforms to the requirements of ACS and EP for liquid chromatography suitability.

## Advantages:

- Excellent UV absorption curve, subjected to the rigorous UV/Vis gradient elution and fluorescence detection.
- Low UV background absorption to ensure high sensitivity of sample detection and avoidance of ghost peaks.
- Strictly control the content of free acid and free alkali to avoid the influence of product pH on experimental results.
- Low gradient was eluted from the impurity peaks at 210nm and 254nm.
- Filtered through ***0.05μm*** membrane, low volatile residue and solid particles, which reduces downtime caused by chromatographic column failures.
- Compatible with HPLC, UPLC, UHPLC and LC-CAD systems for trace level detection, offering a cost-effective alternative to Merck HPLC grade solvents.

## Package: 1L / 2.5L / 4L

| Product Name | Purity (GC) | Water | Acidity | Alkalinity | Na、Mg、Al K、Ca、Fe | Any Further Metal | UV Transmittance | Fluorescent Impurity | Gradient Elution |
|---|---|---|---|---|---|---|---|---|---|
| Acetonitrile | ⩾ 99.9% | ⩽ 100ppm | ⩽ 0.02mmol/100g | ⩽ 0.02mmol/100g | ⩽ 100ppb | ⩽ 100ppb | 193nm⩾ 60.0%<br>195nm⩾ 85.0%<br>200nm⩾ 95.5%<br>210nm⩾ 96.5%<br>220nm⩾ 98.0%<br>230nm⩾ 98.8%<br>240nm-400nm<br>⩾ 99.0% | 254nm⩽ 1.0ppb<br>365nm⩽ 0.5ppb | 210nm⩽ 1.0mAU<br>254nm⩽ 0.5mAU |
| Methanol | ⩾ 99.9% | ⩽ 100ppm | ⩽ 0.02mmol/100g | ⩽ 0.02mmol/100g | ⩽ 100ppb | ⩽ 100ppb | 210nm⩾ 32.0%<br>220nm⩾ 56.0%<br>230nm⩾ 75.0%<br>240nm⩾ 89.0%<br>250nm⩾ 95.5%<br>260nm-400nm<br>⩾ 98.0% | 254nm⩽ 1.0ppb<br>365nm⩽ 0.5ppb | 235nm⩽ 1.0mAU<br>254nm⩽ 0.5mAU |

# HPLC Gradient Grade

Applied in lab tests of pharmaceutical development, separation and purification, food and beverage safety detection, environment detection etc.

Suitable for HPLC, 2D-LC instruments.
Conforms to the requirements of ACS and EP for liquid chromatography suitability.

## Advantages：

- Excellent UV absorption curve, subjected to the rigorous UV/Vis gradient elution and fluorescence detection.
- Superior batch-to-batch consistency, with stable retention time, enhancing result reliability.
- Strict control of free acid and free alkali content, minimizing pH-related interference in experimental outcomes.
- Low gradient elution impurities at 210 nm and 254 nm, improving accuracy and precision in quantitative analysis.
- Filtered through ***0.05 μm*** membranes, reducing volatile residues and particulate matter, thereby decreasing instrument downtime due to column failure and extending equipment lifespan.
- Comply with CHP 8001 requirements for UV absorbance and gradient elution criteria in chromatography.

## Package：1L / 2.5L / 4L

| Product Name | Purity(GC) | Water | Acidity | Alkalinity | Residue after Evaporation | UV Transmittance | Fluorescent Impurity | Gradient Elution |
|---|---|---|---|---|---|---|---|---|
| Acetonitrile | ⩾ 99.9% | ⩽ 100ppm | ⩽ 0.02mmol /100g | ⩽ 0.02mmol /100g | ⩽ 2.0mg/L | 193nm ⩾ 60.0%<br>195nm ⩾ 85.0%<br>200nm ⩾ 95.0%<br>210nm ⩾ 96.0%<br>220nm ⩾ 97.0%<br>230nm ⩾ 98.0%<br>240nm-400nm ⩾ 99.0% | 254nm ⩽ 1.0ppb<br>365nm ⩽ 0.5ppb | 210nm ⩽ 1.0mAU<br>254nm ⩽ 0.5mAU |
| Methanol | ⩾ 99.9% | ⩽ 200ppm | ⩽ 0.02mmol /100g | ⩽ 0.02mmol /100g | ⩽ 2.0mg/L | 210nm ⩾ 30.0%<br>220nm ⩾ 56.0%<br>230nm ⩾ 75.0%<br>240nm ⩾ 89.0%<br>250nm ⩾ 95.5%<br>260nm-400nm ⩾ 98.0% | | 235nm ⩽ 2.0mAU<br>254nm ⩽ 1.0mAU |



# RESI Grade

Solvent for environment and pesticide residues analysis. Applied for all the trace analysis including PAHs, PCBs, insecticide, as well as chloride, GC-MS analysis for pesticide residue.

## Advantages：

- High sample detection sensitivity, suitable for trace analysis.
- Excellent batch stability, ensuring reliable results.
- Low background level of pesticide residue, low background level of elements of N, P, S etc., stable baseline, suitable for detectors like ECD and NPD.
- Low organic impurity content and minimal non-volatile components,suitable for pesticide residue analysis and detection of low volatility impurities.
- Filtered through 0.22μm membrane, low volatile residue and solid particles.

## Package：1L / 2.5L / 4L

| Product Name | Purity(GC) | Water | Acidity | Alkalinity | Residue after Evaporation | UV Transmittance | Others |
|---|---|---|---|---|---|---|---|
| Acetonitrile | ⩾ 99.9% | ⩽ 500ppm | ⩽ 0.08mmol /100g | ⩽ 0.02mmol /100g | ⩽ 2.0mg/L | 200nm ⩾ 90%<br>210nm ⩾ 94%<br>220nm ⩾ 96%<br>240nm-400nm ⩾ 99% | As Heptachlor epoxide ⩽ 10ng/L |
| Methanol | ⩾ 99.9% | ⩽ 500ppm | ⩽ 0.03mmol /100g | ⩽ 0.02mmol /100g | ⩽ 3.0mg/L | 210nm ⩾ 30%<br>220nm ⩾ 50%<br>230nm ⩾ 75%<br>260nm-400nm ⩾ 98% | As Heptachlor epoxide ⩽ 10ng/L |
| Ethyl Acetate | ⩾ 99.5% | ⩽ 500ppm | ⩽ 0.05mmol /100g | ⩽ 0.02mmol /100g | ⩽ 5.0mg/L | 260nm ⩾ 50%<br>265nm ⩾ 80%<br>270nm-400nm ⩾ 98% | As Heptachlor epoxide ⩽ 10ng/L |
| Dichloromethane | ⩾ 99.9% | ⩽ 200ppm | ⩽ 0.05mmol /100g | ⩽ 0.02mmol /100g | ⩽ 10.0mg/L | 235nm ⩾ 30%<br>240nm ⩾ 75%<br>250nm ⩾ 95%<br>254nm-400nm ⩾ 98% | As Heptachlor epoxide ⩽ 10ng/L |
| n-Hexane | ⩾ 98.0% | ⩽ 100ppm | ⩽ 0.08mmol /100g | ⩽ 0.02mmol /100g | ⩽ 5.0mg/L | 200nm ⩾ 25%<br>210nm ⩾ 50%<br>220nm ⩾ 80%<br>245nm-400nm ⩾ 98% | As Heptachlor epoxide ⩽ 10ng/L |
| Cyclohexane | ⩾ 99.8% | ⩽ 100ppm | ⩽ 0.05mmol /100g | ⩽ 0.02mmol /100g | ⩽ 5.0mg/L | 220nm ⩾ 20%<br>230nm ⩾ 50%<br>240nm ⩾ 80%<br>260nm-400nm ⩾ 98% | As Heptachlor epoxide ⩽ 10ng/L |
| Isopropanol | ⩾ 99.5% | ⩽ 1000ppm | ⩽ 0.05mmol /100g | ⩽ 0.02mmol /100g | ⩽ 3.0mg/L | 225nm ⩾ 70%<br>250nm ⩾ 95%<br>300nm-400nm ⩾ 98% | As Heptachlor epoxide ⩽ 10ng/L |
| Toluene | ⩾ 99.7% | ⩽ 200ppm | | | ⩽ 5.0mg/L | | Halogenated Residue ⩽ 10ng/L |
| Acetone | ⩾ 99.9% | ⩽ 5000ppm | ⩽ 0.03mmol /100g | ⩽ 0.06mmol /100g | ⩽ 5.0mg/L | | As Heptachlor epoxide ⩽ 10ng/L |

# HPLC
# Grade

Applied in lab tests of pharmaceutical development, separation and purification, food and beverage safety detection, environment detection etc.

Suitable for HPLC, 2D-LC instruments.
Conforms to the requirements of ACS and EP for liquid chromatography suitability.

## Advantages：

- Excellent UV absorption curve.
- Low UV background absorption to ensure high sensitivity of sample detection and avoidance of ghost peaks.
- Superior batch-to-batch consistency, with stable retention time, enhancing result reliability.
- Strict control of free acid and free alkali content.
- Filtered through 0.22μm membranes, reducing volatile residues and particulate matter, thereby decreasing instrument downtime due to column failure and extending equipment lifespan.

## Package：1L / 2.5L / 4L

| Product Name | Purity(GC) | Water | Acidity | Alkalinity | Residue after Evaporation | UV Transmittance | Others |
|---|---|---|---|---|---|---|---|
| Acetonitrile | ⩾ 99.9% | ⩽ 200ppm | ⩽ 0.05mmol /100g | ⩽ 0.02mmol /100g | ⩽ 3.0mg/L | 195nm ⩾ 85.0%<br>200nm ⩾ 95.0%<br>210nm ⩾ 96.0%<br>220nm ⩾ 97.0%<br>230nm ⩾ 98.0%<br>240nm-400nm ⩾ 99.0% | |
| Methanol | ⩾ 99.9% | ⩽ 300ppm | ⩽ 0.03mmol /100g | ⩽ 0.02mmol /100g | ⩽ 3.0mg/L | 210nm ⩾ 30.0%<br>220nm ⩾ 56.0%<br>230nm ⩾ 75.0%<br>240nm ⩾ 89.0%<br>250nm ⩾ 95.5%<br>260nm-400nm ⩾ 98.0% | |



| Product Name | Purity(GC) | Water | Acidity | Alkalinity | Residue after Evaporation | UV Transmittance | Others |
|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | ⩾ 99.8% | ⩽ 300ppm | ⩽ 0.05mmol /100g | ⩽ 0.05mmol /100g | ⩽ 2.0mg/L | 230nm ⩾ 35%<br>240nm ⩾ 45%<br>254nm ⩾ 63%<br>280nm ⩾ 93%<br>290nm ⩾ 96%<br>300nm-400nm ⩾ 98% | |
| Ethyl Acetate | ⩾ 99.8% | ⩽ 500ppm | ⩽ 0.02mmol /100g | ⩽ 0.02mmol /100g | ⩽ 2.0mg/L | 260nm ⩾ 50%<br>265nm ⩾ 80%<br>270nm-400nm ⩾ 98% | |
| Dichloromethane | ⩾ 99.9% | ⩽ 200ppm | ⩽ 0.05mmol /100g | ⩽ 0.02mmol /100g | ⩽ 2.0mg/L | 235nm ⩾ 30%<br>240nm ⩾ 75%<br>250nm ⩾ 95%<br>254nm-400nm ⩾ 98% | |
| n-Hexane | ⩾ 98.0% | ⩽ 100ppm | ⩽ 0.05mmol /100g | ⩽ 0.02mmol /100g | ⩽ 1.0mg/L | 200nm ⩾ 25%<br>210nm ⩾ 50%<br>220nm ⩾ 80%<br>245nm-400nm ⩾ 98% | |
| Ethanol | ⩾ 99.8% | ⩽ 1000ppm | ⩽ 0.05mmol /100g | ⩽ 0.02mmol /100g | ⩽ 1.0mg/L | 207nm ⩾ 10%<br>220nm ⩾ 50%<br>235nm ⩾ 80%<br>245nm ⩾ 90%<br>260nm-400nm ⩾ 98% | Permanganate-reducing substance<br>Conforms |
| N,N-Dimethylformamide | ⩾ 99.9% | ⩽ 500ppm | ⩽ 0.05mmol /100g | ⩽ 0.02mmol /100g | ⩽ 5.0mg/L | 270nm ⩾ 25%<br>275nm ⩾ 50%<br>280nm ⩾ 70%<br>290nm ⩾ 80%<br>300nm ⩾ 90%<br>330nm-400nm ⩾ 98% | |
| Dimethyl Sulfoxide | ⩾ 99.9% | ⩽ 1000ppm | ⩽ 0.05mmol /100g | ⩽ 0.02mmol /100g | ⩽ 5.0mg/L | 263nm ⩾ 10%<br>270nm ⩾ 40%<br>280nm ⩾ 70%<br>330nm ⩾ 90%<br>350nm-400nm ⩾ 98% | |
| n-Heptane | ⩾ 99.0% | ⩽ 100ppm | ⩽ 0.05mmol /100g | ⩽ 0.02 mmol /100g | ⩽ 2.0mg/L | 210nm ⩾ 50%<br>220nm ⩾ 80%<br>245nm-400nm ⩾ 98% | |
| Cyclohexane | ⩾ 99.8% | ⩽ 100ppm | ⩽ 0.05mmol /100g | ⩽ 0.02mmol /100g | ⩽ 2.0mg/L | 205nm ⩾ 14%<br>210nm ⩾ 22%<br>220nm ⩾ 50%<br>235nm ⩾ 80%<br>240nm ⩾ 90%<br>250nm-400nm ⩾ 98% | |
| Isopropanol | ⩾ 99.9% | ⩽ 300ppm | ⩽ 0.05mmol /100g | ⩽ 0.02mmol /100g | ⩽ 2.0mg/L | 210nm ⩾ 40%<br>220nm ⩾ 56%<br>230nm ⩾ 80%<br>250nm ⩾ 93%<br>260nm-400nm ⩾ 98% | |
| Toluene | ⩾ 99.8% | ⩽ 200ppm | | | ⩽ 4.0mg/L | 285nm ⩾ 10%<br>288nm ⩾ 40%<br>300nm ⩾ 80%<br>335nm ⩾ 96%<br>350nm-400nm ⩾ 98% | |
| Acetone | ⩾ 99.9% | ⩽ 2000ppm | ⩽ 0.02mmol /100g | ⩽ 0.02mmol /100g | ⩽ 2.0mg/L | 335nm ⩾ 50%<br>340nm ⩾ 80%<br>350nm-400nm ⩾ 98% | |
| Methyl-tert-Butyl Ether | ⩾ 99.8% | ⩽ 200ppm | ⩽ 0.02mmol /100g | ⩽ 0.02mmol /100g | ⩽ 2.0mg/L | 240nm ⩾ 60%<br>255nm ⩾ 85%<br>280nm-400nm ⩾ 98% | |
| n-Propanol | ⩾ 99.8% | ⩽ 200ppm | ⩽ 0.02mmol /100g | ⩽ 0.02mmol /100g | ⩽ 2.0mg/L | 230nm ⩾ 70%<br>240nm ⩾ 80%<br>270nm-400nm ⩾ 98% | |

# Anhydrous Grade

Applied in organic synthesis, organometallic reaction, oligonucleotides and combinatorial chemicals.

## Advantages：

- Low water content.
- Free of stabilizers.
- Low evaporation residue.
- Excellent batch stability.
- Filtered through 0.22μm membrane, low volatile residue and solid particles which reduces downtime caused by chromatographic column failures.

## Package：1L / 2.5L / 4L

| Product Name | Purity(GC) | Water | Residue after Evaporation | Others |
|---|---|---|---|---|
| Acetonitrile | ⩾ 99.5% | ⩽ 10ppm<br>⩽ 20ppm<br>⩽ 30ppm<br>⩽ 50ppm | ⩽ 3.0mg/L | |
| Methanol | ⩾ 99.9% | ⩽ 100ppm | ⩽ 3.0mg/L | |
| Tetrahydrofuran | ⩾ 99.5% | ⩽ 50ppm | – | Peroxides ⩽ 0.05%<br>Stabilizer BHT ⩽ 0.025% |
| N,N-Dimethylformamide | ⩾ 99.9% | ⩽ 100ppm | ⩽ 10.0mg/L | |
| Dichloromethane | ⩾ 99.9% | ⩽ 40ppm | ⩽ 10.0mg/L | |



# Preparative Grade

Applied in preparative stage and synthesis of polypeptide.
Excellent performance in pharmaceutical synthesis, impurity separation and purification process.

## Advantages：

- Low organic impurity content, guaranteed API purity.
- Low UV absorption, high signal sensitivity, avoiding ghost peaks and erroneous conclusions.
- Low water content, good preparative reproducibility, excellent sample stability.
- Excellent batch stability, and high efficiency in scaled production.
- Filtered through 0.22μm membrane, low volatile residue and solid particles.
- Suitable for preparative HPLC purification, such as the purification of semaglutide and tirzepatide.

## Package：18 tons

| Product Name | Purity(GC) | Water | Acidity | Alkalinity | Residue after Evaporation | UV Transmittance | Others |
|---|---|---|---|---|---|---|---|
| Acetonitrile | ⩾ 99.9% | ⩽ 200ppm | ⩽ 0.05mmol /100g | ⩽ 0.02mmol /100g | ⩽ 3.0mg/L | 200nm ⩾ 90%<br>210nm ⩾ 94%<br>220nm ⩾ 96%<br>240nm ⩾ 98%<br>260nm-400nm ⩾ 99% | |
| Methanol | ⩾ 99.9% | ⩽ 300ppm | ⩽ 0.03mmol /100g | ⩽ 0.02mmol /100g | ⩽ 3.0mg/L | 210nm ⩾ 30%<br>220nm ⩾ 50%<br>230nm ⩾ 75%<br>260nm-400nm ⩾ 97% | Carbonyl compomd ⩽ 0.001% |
| Isopropanol | ⩾ 99.8% | ⩽ 500ppm | ⩽ 0.05mmol /100g | ⩽ 0.02mmol /100g | ⩽ 3.0mg/L | 220nm ⩾ 50%<br>260nm-400nm ⩾ 98% | |
| Ethyl Acetate | ⩾ 99.8% | ⩽ 500ppm | ⩽ 0.05mmol /100g | ⩽ 0.02mmol /100g | ⩽ 5.0mg/L | 270nm ⩾ 50%<br>300nm-400nm ⩾ 98% | |
| n-Hexane | ⩾ 99.0% | ⩽ 100ppm | ⩽ 0.05mmol /100g | ⩽ 0.02mmol /100g | ⩽ 5.0mg/L | 220nm ⩾ 50%<br>250nm-400nm ⩾ 98% | |
| Ethanol | ⩾ 99.8% | ⩽ 2000ppm | ⩽ 0.05mmol /100g | ⩽ 0.02mmol /100g | ⩽ 1.0mg/L | 225nm ⩾ 50%<br>240nm ⩾ 80%<br>260nm-400nm ⩾ 98% | Permanganate-reducing substance<br>Conforms |
| Dichloromethane | ⩾ 99.9% | ⩽ 200ppm | ⩽ 0.03mmol /100g | | ⩽ 2.0mg/L | 250nm-400nm ⩾ 80% | |

## Product Catalogue

| Grade | Product Name | Package | Product No. |
|---|---|---|---|
| LC-MS | Acetonitrile | 1L | 5011902 |
| | | 2.5L | 5011910 |
| | | 4L | 5011903 |
| UPLC | Acetonitrile | 1L | 5012202 |
| | | 2.5L | 5012210 |
| | | 4L | 5012203 |
| UPLC | Methanol | 1L | 5022202 |
| | | 2.5L | 5022210 |
| | | 4L | 5022203 |
| HPLC Gradient | Acetonitrile | 1L | 5011402 |
| | | 2.5L | 5011410 |
| | | 4L | 5011403 |
| HPLC Gradient | Methanol | 1L | 5021402 |
| | | 2.5L | 5021410 |
| | | 4L | 5021403 |
| HPLC | Acetonitrile | 1L | 5011302 |
| | | 2.5L | 5011310 |
| | | 4L | 5011303 |
| HPLC | Methanol | 1L | 5021302 |
| | | 2.5L | 5021310 |
| | | 4L | 5021303 |
| HPLC | Tetrahydrofuran | 1L | 5041302 |
| | | 2.5L | 5041310 |
| | | 4L | 5041303 |
| HPLC | Ethyl Acetate | 1L | 5091302 |
| | | 2.5L | 5091310 |
| | | 4L | 5091303 |
| HPLC | Dichloromethane | 1L | 5111302 |
| | | 2.5L | 5111310 |
| | | 4L | 5111303 |
| HPLC | n-Hexane | 1L | 5121302 |
| | | 2.5L | 5121310 |
| | | 4L | 5121303 |

| Grade | Product Name | Package | Product No. |
|---|---|---|---|
| HPLC | Ethanol | 1L | 5031302 |
| | | 2.5L | 5031310 |
| | | 4L | 5031303 |
| HPLC | N,N-Dimethylformamide | 1L | 5141302 |
| | | 2.5L | 5141310 |
| | | 4L | 5141303 |
| HPLC | Dimethyl Sulfoxide | 1L | 5161302 |
| | | 2.5L | 5161310 |
| | | 4L | 5161303 |
| HPLC | n-Heptane | 1L | 5221302 |
| | | 2.5L | 5221310 |
| | | 4L | 5221303 |
| HPLC | Cyclohexane | 1L | 5131302 |
| | | 2.5L | 5131310 |
| | | 4L | 5131303 |
| HPLC | Isopropanol | 1L | 5051302 |
| | | 2.5L | 5051310 |
| | | 4L | 5051303 |
| HPLC | Toluene | 1L | 5061302 |
| | | 2.5L | 5061310 |
| | | 4L | 5061303 |
| HPLC | Acetone | 1L | 5071302 |
| | | 2.5L | 5071310 |
| | | 4L | 5071303 |
| HPLC | Methyl-tert-Butyl Ether | 1L | 5151302 |
| | | 2.5L | 5151310 |
| | | 4L | 5151303 |
| HPLC | n-Propanol | 1L | 5281302 |
| | | 2.5L | 5281310 |
| | | 4L | 5281303 |
| RESI | Acetonitrile | 1L | 5011502 |
| | | 2.5L | 5011510 |
| | | 4L | 5011503 |



## Product Catalogue

| Grade | Product Name | Package | Product No. |
|---|---|---|---|
| RESI | Methanol | 1L | 5021502 |
| | | 2.5L | 5021510 |
| | | 4L | 5021503 |
| RESI | Ethyl Acetate | 1L | 5091502 |
| | | 2.5L | 5091510 |
| | | 4L | 5091503 |
| RESI | Dichloromethane | 1L | 5111502 |
| | | 2.5L | 5111510 |
| | | 4L | 5111503 |
| RESI | n-Hexane | 1L | 5121502 |
| | | 2.5L | 5121510 |
| | | 4L | 5121503 |
| RESI | Cyclohexane | 1L | 5131502 |
| | | 2.5L | 5131510 |
| | | 4L | 5131503 |
| RESI | Isopropanol | 1L | 5051502 |
| | | 2.5L | 5051510 |
| | | 4L | 5051503 |
| RESI | Toluene | 1L | 5061502 |
| | | 2.5L | 5061510 |
| | | 4L | 5061503 |
| RESI | Acetone | 1L | 5071502 |
| | | 2.5L | 5071510 |
| | | 4L | 5071503 |
| Anhydrous | Acetonitrile 10PPM | 1L | 5015102 |
| | | 2.5L | 5015110 |
| | | 4L | 5015103 |
| Anhydrous | Acetonitrile 20PPM | 1L | 5015402 |
| | | 2.5L | 5015410 |
| | | 4L | 5015403 |
| Anhydrous | Acetonitrile 30PPM | 1L | 5015202 |
| | | 2.5L | 5015210 |
| | | 4L | 5015203 |

| Grade | Product Name | Package | Product No. |
|---|---|---|---|
| Anhydrous | Acetonitrile 50PPM | 1L | 5015302 |
| | | 2.5L | 5015310 |
| | | 4L | 5015303 |
| Anhydrous | Methanol 100PPM | 1L | 5025702 |
| | | 2.5L | 5025710 |
| | | 4L | 5025703 |
| Anhydrous | Tetrahydrofuran 50PPM | 1L | 5045302 |
| | | 2.5L | 5045310 |
| | | 4L | 5045303 |
| Anhydrous | N,N-Dimethylformamide 100PPM | 1L | 5145702 |
| | | 2.5L | 5145710 |
| | | 4L | 5145703 |
| Anhydrous | Dichloromethane 40PPM | 1L | 5115502 |
| | | 2.5L | 5115510 |
| | | 4L | 5115503 |
| PREP | Acetonitrile | 18 tons | 5011262 |
| PREP | Methanol | 18 tons | 5021262 |
| PREP | Isopropanol | 18 tons | 5051262 |
| PREP | Ethyl Acetate | 18 tons | 5091262 |
| PREP | n-Hexane | 18 tons | 5121262 |
| PREP | Ethanol | 18 tons | 5031262 |
| PREP | Dichloromethane | 18 tons | 5111262 |