

Chemicals

# Chemical products & services

Supporting bench to production  
applications for multiple industries

Whether you are in research and discovery or planning for scale to commercial manufacturing, Thermo Fisher Scientific has 92,000+ chemicals to choose from through our extensive global network of 3,500+ manufacturers.



## Who we serve

- Academia
- Biopharmaceuticals
- Biotechnology
- Diagnostics
- Healthcare
- Electronics
- Industrial
- Pharmaceuticals

**80K+**  
Research-use  
chemicals



## What we deliver

- Amino acids
- Acid/Base solutions
- Biological buffers
- Carbohydrates
- Etchants
- Organic synthesis & building blocks
- Salts & inorganics
- Solvents
- Surfactants & emulsifiers

*And more from 20+ categories*

**12K+**  
Production-use,  
CGMP chemicals




## Our global reach

- North America
- Europe
- Asia Pacific

### Commitment to sustainability

Thermo Fisher Scientific is helping to develop and deliver innovative and more environmentally responsible products for our customers.

Look for the  to see which chemical solutions are designed specifically to support your sustainability goals.

# Chemicals and services for every step of your bench-to-production journey

Safeguard timelines with more than one source of your critical chemicals

### Sourcing support

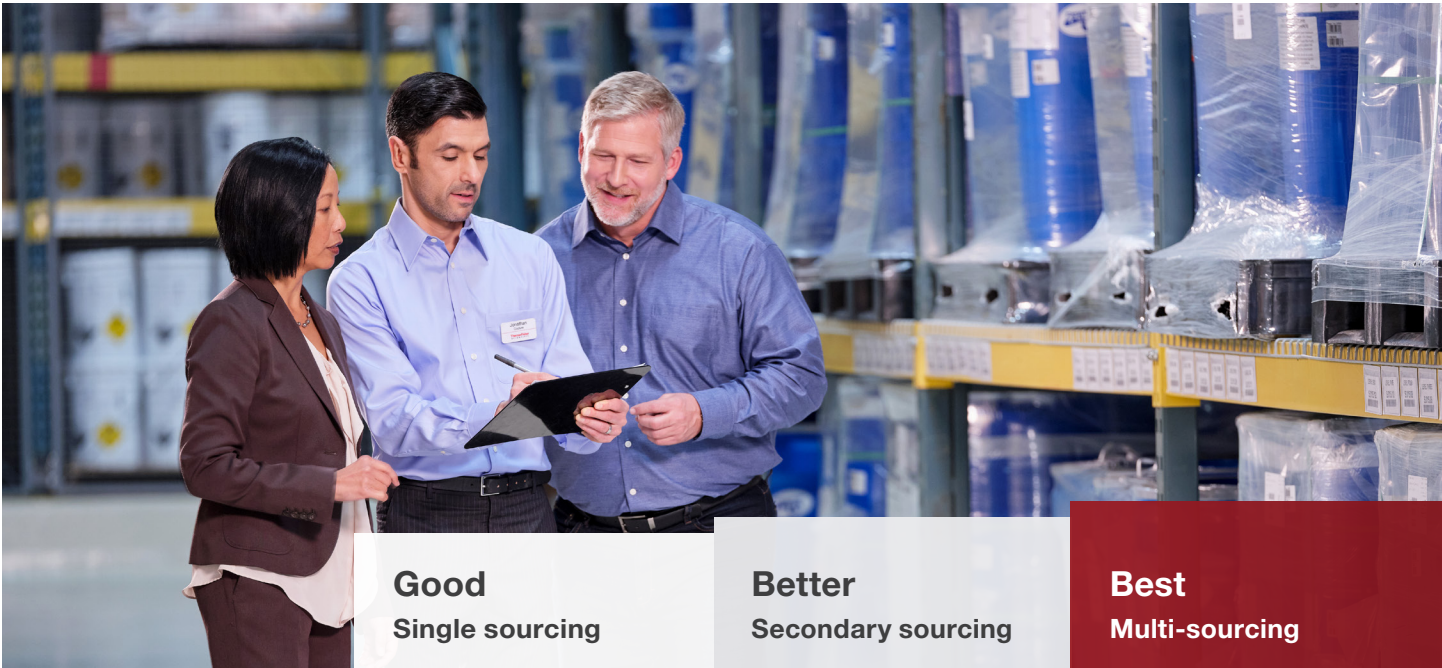
Availability of raw materials is critical to business success—lengthy lead times and shortened supply of raw materials cannot stand in your way. Accessing our broad portfolio allows you to choose your desired chemicals that help you successfully fulfill your sourcing needs and build your chemical library.

Our sourcing team has the global reach to provide support for your chemical sourcing decisions and strategies—primary, secondary, and multi-sources—for your projects in R&D stages through commercialization.

### Supplier and order management

Our experience of supply chain management helps to offer the right chemicals—manufactured by Thermo Fisher Scientific or outsourced from our global manufacturer and supplier network—are accessible for your applications. Thereby consolidating your supply chain so your team can focus on other critical elements within your processes.

Consider your sourcing strategy to help assist the supply security of your most critical and large-volume chemicals.



	Good Single sourcing	Better Secondary sourcing	Best Multi-sourcing
Number of sources per chemical	1	2	3+
Reliability of supply	Weak	Medium	Strong
Risk of production delay	High	Medium	Low

# Research chemicals & services

## Bulk chemical services for non-GMP

Looking to scale up? Looking to simplify the process by using high-quality chemicals? Looking to adapt packaging to scale?

With our extensive portfolio of chemicals, we offer comprehensive solutions for all your chemical needs. Whether you are engaged in initial research or scaling up to full production, we can customize products exclusively for you.

Our bulk chemical solutions will allow you to go beyond the catalogue and scale up from grams to hundreds or thousands of kilograms.

## Returnable drums and containers

If you are routinely using more than 4 L of solvents and blends, then it might be time to learn more about our returnable drums service.

Returnable drums and containers are an ideal choice for handling larger quantities of high purity solvents and blends. Re-usable, stainless steel drums with a closed system can help reduce the amount of solid waste generated, and can prevent the release of flammable or toxic vapors into the air.

## Support your product purity

- Returnable drums – protect chemical from external environmental
- Moisture sensitive – keep solvents and blends with low water content
- Low interactions with the inert packaging – maintaining product purity

## A safer way to manage and work with solvents and blends

- Returnable drums and containers are made from high quality stainless steel, which means that there is a reduced risk of breakage compared to a glass bottle
- Flammable or toxic solvent liquids and vapors are not released into the surrounding air

## Less waste and less disposal costs

Our returnable drum system can help reduce the amount of liquid waste generated in your laboratory, thereby reducing environmental impact.

A reusable 200 L returnable drum replaces fifty 4 L bottles and associated packing materials. Almost 200 lbs of glass and cardboard are eliminated by each 200 L returnable drum system –helping to support you meet your corporate sustainability goals.

Empty returnable drums are cleaned, maintained and refilled by Thermo Fisher Scientific.

Our returnable drums are available in 19 to 1,350 L sizes.



Testing Services



Customized packaging & specifications



Bulk & semi-bulk chemicals



Mixtures & blends



Custom synthesis



Reduced waste

### Custom chemicals service for non-GMP

The chemical or reagent itself is only a part of the total package. If your needs differ to our catalog product offerings why not take advantage of our custom chemicals service.

We can facilitate your bulk and custom purchases through timely provision of necessary documentation such as:

- Synthesis route
- Country of origin
- Details of the manufacturer
- Supplier qualification and audits
- Change control
- Document control

As a global chemicals business, we operate a Quality and Environmental Management System which complies with the requirements of ISO 9001 and ISO 14001, helping our products and services meet our customers' expectations.

### Custom blends and synthesis

Whether you're looking to synthesize complex organic building blocks, create custom solvent blends, optimize your synthesis, or develop a scalable route, we can provide the experience and knowledge to support your project. Our extensive database of production methods for over 8,000 compounds has been developed through 50 years' experience in custom manufacturing.

### Custom packaging and labeling

Designed for safety, environmental protection, convenient handling and storage and preservation of product integrity while complying with all relevant regulations. Help improve handling, storage, and product integrity by receiving the material you want in the packaging you want.

In addition, our custom weighing service can provide you with products at a scale from nanogram to ton.

#### Custom blends and synthesis

Get better product consistency by letting us prepare your custom-made chemicals at our facilities.

#### Custom specifications

Take advantage of our extensive chemical services to define and help meet your unique specifications.

#### Custom labels

Use our labeling services to display the right product/batch details to enhance product identification for your laboratory.

#### Custom packaging & pack size

Get the right product in the packaging material or size that you require.

## Our custom manufacturing capabilities

- Highly competent synthetic chemistry team with over 50 years of experience
- Strong pedigree in method development to develop emerging technologies
- Ability to work with air-sensitive materials
- Ability to carry out reactions over temperature conditions ranging from -70 to 250 degrees centigrade

# CGMP chemicals & services

When you are challenged to grow and scale your manufacturing capabilities in preparation commercialization, you are tasked with strategic business decisions to source reliable raw materials to use in a regulated environment and optimize your capacity. Our team of technical specialists in CGMP chemical sourcing and supply chain management can help you achieve quality compliance and prevent process interruptions or delays through our suite of chemical services.

We aim to work as an extension of your team to create a reliable chemical supply chain—supporting business continuity to help accelerate milestone achievement and speed to market.

## Sourcing

Knowing exactly where your raw materials are coming from and finding the right suppliers and manufacturers can help make all the difference in your processes. Production Chemicals and Sourcing Services enables you to access all of the major CGMP chemicals and documentation your processes need to help maximize your resources and protect your timelines.

Production Chemicals and Sourcing Services includes:

### Sourcing support

- Material documentation
- Supplier selection and qualification
- Guidance for chemical selection from lab-grade to CGMP

### Supplier management

- Price management
- Supplier audit facilitation
- Supplier quality agreements

### Alternate sourcing assistance

- Identifying more than one chemical manufacturer that can meet material supply and process requirements
- Support bill of material strategy



**Sourcing**



**Procurement & order management**



**Storage**



**Inventory management**



**Material inspection & labeling**



**Sampling**



**Container recycling, reuse & disposal**

## Procurement, order management, & storage

When you are ready to purchase your chemicals, process liquids and buffers, CGMP Distribution Service can help you streamline your CGMP supply chain management and operations, from procurement through storage. This service provides a single point of contact to consolidate, manage and store your chemical orders of multiple brands from various manufacturers compliant to CGMP and GDP standards.

Support features:

**Procurement and order management** enabling order transparency and can also consolidate the supply chain to help reduce transportation emissions. 🌱

**CGMP-compliant IT systems** with a validated ERP.

**ISO 9001:2015-certified quality management system** supporting order accuracy and compliance.

**CGMP- and GDP-compliant warehousing facilities** to store chemicals in preparation for the QA release process.

## Inventory management

We help mitigate stockouts, reduce inventory carrying costs, and improve overall supply chain efficiency. Build supply continuity for your most critical CGMP chemicals with Assurance of Supply Service. With this service, you can expect:

- **Inventory level calculations** based on 12-month forecasted lead times and production demands
- **Management and monitoring of inventory levels** by Thermo Fisher CGMP supply chain specialists
- **Readily available inventory** stored off-site and delivered as needed

## Material inspection & labeling, sampling, & poly-palletization

Preparing materials for CGMP process and production is critical but can often be resource intensive. Production Ready Services enables the preparation of your chemicals, process liquids and buffers to help expedite your workflow by performing your quality release processes for you before the materials are used. Production Ready Services includes three, distinct buildable services:

**CGMP Material Inspection & Labeling Service** helps to strengthen order accuracy and readiness before it arrives at your facility. This service includes multistep inspection, label application, and storage of your chemical orders in compliance with your QC requirements.

## Efficiencies for processes demanding high quality standards

- ✓ Access to major chemical manufacturers and suppliers
- ✓ Streamline supply chain management operations
- ✓ Build supply continuity for chemicals
- ✓ Receive chemicals already prepared for processes
- ✓ Support achievement of sustainability goals



**CGMP Raw Material Sampling Service** is conducted in CGMP-compliant environments within ISO Class 8-qualified cleanrooms and can be adapted to meet your QC requirements.

#### 4 sampling types available

Individual (ID) • Composite • Tailgate • 500L bulk\*

**Nitrogen overlay\*** can be added as a part of this service

**Poly-palletization Service** transfers materials from wood pallets to poly-pallets to help minimize risk of contaminants from storage and transportation. This service features using reusable plastic pallets while recycling of the previously used wooden pallets.

\*Available at select locations. Ask your Thermo Fisher Scientific CGMP technical representative for more information.

#### Container recycling, reuse & disposal

Support your sustainability goals and E&HS with Warehouse Sustainability Services, which is a suite of services designed to recycle, reuse, donate, or repurpose unwanted chemical raw materials generated from your processes. The three stackable services include:

**Container Recycling & Disposal Service** coordinates the recycling, donation, or repurposing of raw materials through our national recycler partnership. Thereby helping to mitigate landfilling and incineration of unwanted materials, while also reducing your costs associated with waste as well as hazardous container disposal.

**Reusable Container-fleet Management Service helps you maintain a dedicated fleet of reusable** drums and metal Cycletainers to help minimize the amount of solid waste generated.

**Dip Tube Management Service** is conducted in CGMP-compliant environments within ISO Class 8-qualified soft-wall cleanrooms to exchange dip tubes in liquid chemical drums and totes with reusable, undamaged dip tubes.

## Our CGMP service centers

- ✓ Compliant to CGMP and GDP
- ✓ Distilled spirit plant (DSP) bonded\*
- ✓ ISO Class 8-qualified cleanrooms\*

Dublin, Ireland

Durham, NC

Jessup, MD

Peabody, MA

Riverside, CA

Tampa, FL



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