



# Peptide Synthesis and Preparative HPLC





# Partner in your choice for Chemical Synthesis and Purification

## INDEX

1. Introduction: Story of CARLO ERBA Reagents and content explanation
  2. Peptides Synthesis
  3. Preparative HPLC solvents
  4. Packaging
  5. Shuttle Service
  6. ERBAdry<sup>®</sup>
  7. Our Tailor Made service
  8. FASTER: Industrial solutions for your safety
- 



## INTRODUCTION

**CARLO ERBA Reagents**, a leading company in laboratory and raw material supplies, is “partner in your choice” for Chemical Synthesis and Purification.

With two production plants located in France and a central distribution hub for logistic management, we could grant strong flexibility in operations and service.

Why to differentiate between one supplier for your early-stage product development and one for your production process? Choose our complete solution.

We walk with you and close to your process from the laboratory bench to the production scale, through your pilot tests: same product, same quality and just one supplier: **CARLO ERBA Reagents**.

Our mission: bring solutions to our customers, not just a product.

In this brochure you'll find a selection of solvents, dedicated to Synthesis and Purification purposes, an extraction of our core business portfolio including high purity solvents: the historic workhorse of **CARLO ERBA Reagents**.

## PEPTIDE SYNTHESIS

Chemical peptide synthesis is one of the most delicate processes in Chemical Synthesis and requires the highest purity solvents to prevent undesired reactions.

For this reason, every possible impurity should be minimized to get the best possible yield in your Peptides' production: what requires a reliable chemical supplier

CARLO ERBA Reagents, being well recognized and differentiated into the Chemical Market, offers you its highest quality synthesis range which drives you through each step of your process.

Our product range is specifically tested for Synthesis suitability assuring the most critical specification: Purity and water content control.

PRODUCT	ASSAY	WATER CONTENT
Acetonitrile	min 99,9% (GC)	< 100 ppm (KF)
N,N-Dimethylformamide	min 99,9% (GC)	< 300 ppm (KF)
N-Methyl-2-Pyrrolidone	min 99,7% (GC)	< 400 ppm (KF)
Piperidine	min 99% (GC)	< 3000 ppm (KF)
Pyridine	min 99,5% (GC)	< 100 ppm (KF)
Ethyl Acetate	min 99,9% (GC)	< 200 ppm (KF)
Trifluoroacetic Acid	Min 99,9% (Acidimetry)	< 200 ppm (KF)





# SOLVENTS FOR PREPARATIVE CHROMATOGRAPHY

**Our experience is at your service.**

CARLO ERBA Reagents; a quality-driven manufacturer that has evolved with Chromatography History and that has always been in step with development of concerned needs.

For your Preparative HPLC, choose a reliable partner who can support and follow you from bench to bulk scale, along with your scale-up process and industrialization of chemical purification stages. We bring the high-standard Lab quality toward your production.

Our solvents AND MIXTURES for Preparative Chromatography are characterized by:

- The highest possible purity
- Low water content
- Minimum residue on evaporation
- High UV transmittance

Specifications, guaranteed from our quality control laboratories, fulfil purification requirements in the Pharmaceutical Synthesis, ensuring the highest performance. Our products may be transported in tailor-made packaging or shuttle service in stainless steel returnable drums that maintain the genuine product quality

**Our product range is specifically tested for Chromatography suitability assuring the most critical specification: Assay and water content control.**



PRODUCT	ASSAY	WATER CONTENT	RESIDUE ON EVAPORATION
Acetonitrile	≥ 99.9%	≤ 300 ppm	≤ 5 ppm
Chloroform	≥ 99%	≤ 500 ppm	≤ 5 ppm
Methanol	≥ 99.9%	≤ 500 ppm	≤ 5 ppm
Dichloromethane	≥ 99.5%	≤ 500 ppm	≤ 5 ppm
Ethyl Acetate	≥ 99.5%	≤ 300 ppm	≤ 5 ppm
2-Propanol	≥ 99.5%	≤ 500 ppm	≤ 5 ppm
THF	≥ 99.8%	≤ 200 ppm	≤ 5 ppm
Toluene	≥ 99.8%	≤ 200 ppm	≤ 5 ppm
n-Hexane	≥ 96%	≤ 100 ppm	≤ 2 ppm
n-Hexane 99%	≥ 99%	≤ 150 ppm	≤ 5 ppm
n-Heptane	≥ 95%	≤ 100 ppm	≤ 5 ppm
n-Heptane 99%	≥ 99%	≤ 150 ppm	≤ 5 ppm
Ethyl Ether	≥ 99.7%	≤ 100 ppm	≤ 5 ppm



## PACKAGING

### Pack size:

From 100 ml to 25.000 liters for liquids

From grams to kilograms for solids

### Different packaging:

- Bottles
- Cans
- Buckets with inner plastic bag
- Drums
- Stainless steel shuttle containers
- Special packaging under customer requirements (to be evaluated case by case)

Our packaging are compliant with the current transport regulation.



## SHUTTLE SERVICE

Our experience is at your service.

One of our bestseller services is the SHUTTLE SERVICE. Delivery in returnable drums brings you several advantages:

### Production

- Dedicated packaging customer/product
- Customized project and forecasts

### Stock

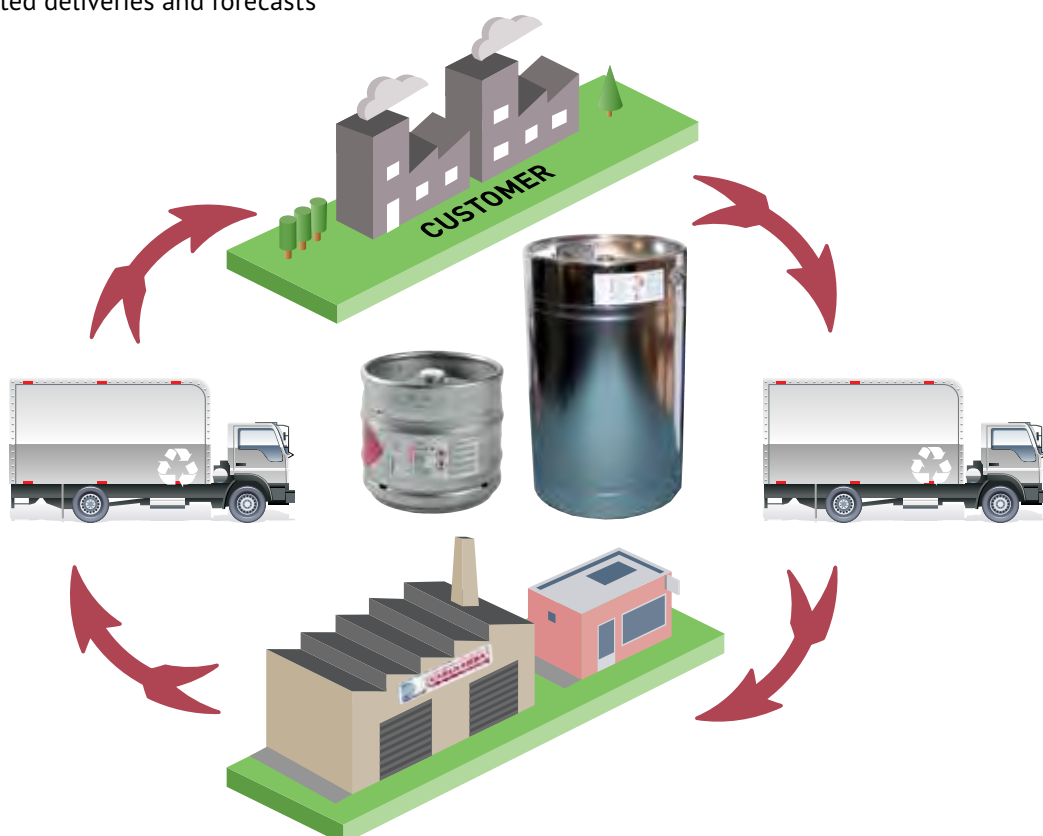
- Improved logistic efficiency
- High flexibility with dedicated drums' rental
- Reliable solution for high quality solvents handling

### Quality

- Best purity guaranteed by stainless steel
- Cleaning certification on request
- Closed system reduces cross contamination risks

### Transport

- UN approval of each drum
- Improved safety during use and handling
- Dedicated deliveries and forecasts



## ANHYDROUS? ERBAdry®

Our best solution for your organic synthesis in laboratory. New cap, same quality!

See our brochure for further information.



### Features and benefits

- Flip Top Cap reduces the risks of a bottle left open
- 100 ml & 1 l amber glass bottles without molecular sieves
- 3 large picking surfaces to improve use
- Septum double layers with PTFE coating to prevent chemical from contamination
- 2 types of septa to preserve the low water content and better chemical compatibility



## TAILOR MADE BRIEF

A wide range of services can be provided to reach your operational needs:

- Repackaging and pre-weighted quantities
- Mixtures and dilutions
- Analysis and specifications on request
- Scouting and outsourcing



SOME OF OUR TAILOR-MADE BLENDS! Choose your most suitable or ask for a specific mixture!

- Acetonitrile / Water
- Acetonitrile / Methanol
- Ethyl Acetate / IPA
- Ethyl Acetate / N-Heptane
- N-Heptane / Acetone
- N-Heptane / IPA / Ethyl Acetate



## OUR PURIFICATION CAPABILITIES

### Varied applications

- Fine purification on fractionation column
- High purity solvents recycling

### Diverse distillation equipment:

- Glass distillation columns under atmosphere pressure or vacuum
- From 400 L batch to 2000 tonnes per year continuous capacity
- Percolators (Charcoal or silica media)

### Others capabilities

- Blending unit from 200L to 7000L
- Dilution of corrosive products
- Water Production
- Stainless steel farm tanks from 8000 to 30000 L for Raw Material storage



## FASTER INDUSTRIAL SOLUTIONS

Since 1984 FASTER S.r.l. has been a unique and reliable manufacturer of a wide range of laboratory and industrial equipment, based in Italy.

The long experience and technical know-how, in combination with the related market knowledge of CARLO ERBA Reagents GmbH, allow us to meet customer needs individually. Your requirements in the fields of microbiology, chemistry, pharmacy, biotechnology, diagnostics, veterinary medicine and industry are carried out by us with experience, protection, safety and passion.

**FASTER analyses, specifies and develops bespoke products in synergy with customer's ideas, tailoring the most proper solution according to their needs.**

The R&D department meet the latest market demands combining them with engineering strategies and as a result, **FASTER produces hundreds of customized units per year.**

**CARLO ERBA Reagents and Faster are close to your production process tailoring up your industrial needs, from Chemicals to Industrial systems.**

Some of our custom-made installations:

- **Aspirating custom made box: stainless steel structure with roll-up door at the entrance and a Teflon-coated working area**
- **Stainless steel aspirating wall with charcoal filters**
- **Aspirating flow enclosure with/without charcoal filter**





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

CARLO ERBA Reagents  
is a certified ISO 9001 company



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