


# **HONEYWELL RETURNABLE CONTAINER PROGRAM | EUROPE**

Reduce Costs and Accelerate Your Research





# REDUCE YOUR SOLVENT STORAGE, HANDLING, AND DISPOSAL COST BY 98%.\*

## **BETTER FOR THE ENVIRONMENT**

With virtually no packaging waste, no hazardous disposal costs, and no rinsing done on site, your lab will be greener and more environmentally friendly.

## **SAVE 50% IN STORAGE COSTS**

Our solvents take up 50% less space than glass bottles, reducing your storage costs by half.

## **EASIER TO TRANSPORT**

With easy to grip handles and shatter proof stainless steel construction, our returnable containers are simple to transport.

## **SAFER FOR STAFF**

Minimize fire risk, the incidents of spillage, and reduce the risk of staff being exposed to hazardous solvents.

*\*Based on usage of 250 cases (4 \* 2.5L) of solvent per year, compared to one 200L returnable drum.*

# COMPLETE RETURNABLE CONTAINER SOLUTION

Think big. Partner with Honeywell Research Chemicals and scale up from micro scale usage to macro scale production volumes.

Honeywell returnable containers are made of high quality stainless steel (V2A) and are specifically engineered to store, transport and dispense solvents. Our returnable containers come in various sizes ranging from 5 L to more than 1000 L and include standard sizes such as 7 L bottles and 18 L, 45 L and 200 L drums. To complete our offering, we also supply accessories for dispensing that allow safe and efficient solvent retrieval.

## 7 L Stainless Steel Bottles

Our stainless steel bottles are suitable for all solvent types and unlike glass, do not break. The bottle opening is like that of a glass bottle, and allows for the same dispensing systems or analytical instruments connections to be used. The metal handles make it easy to carry and they take up less space than three 2.5 L bottles. In addition, to the standard 7 L bottle we also offer solvents in 5 L and 10 L bottles and the corresponding accessories.

### Available Accessories for Solvent Dispensing

Dispense solvent in three different ways; pouring directly from the bottle, through pressure based dispensing, or via a direct connection to the HPLC instrument.

#### Bottle Dispensing System (SAP 10182845)

Our pump-ball system allows for safe and easy dispensing of all solvents. An inert gas connection using a pressure reducing device ensures contamination-free dispensing.

#### Pouring System (SAP 10182255)

The simple dispensing system is screwed on the bottle for convenient and safe pouring of solvents into other containers or reservoirs.

#### Bottle Adapter (SAP 10182434)

The bottle adapter is screwed on the bottle and enables a direct connection to HPLC instruments.



### Overview of Specifications

| Stainless Steel Bottles | 7 L                 |
|-------------------------|---------------------|
| Weight                  | 1.8 kg              |
| Height                  | 320 mm              |
| Diameter Ø              | 193 mm              |
| Operational Pressure    | 0.5 bar             |
| Closure                 | Screw cap GL45      |
| Material                | Stainless Steel V2A |
| Approval                | 1A1                 |

## 18 L, 45 L and 200 L Stainless Steel Containers

Honeywell returnable stainless steel drums are available both with or without an integrated dip tube for standard and analytical grade solvents.

### Containers with a Dip Tube

If you are using high-purity Chromasolv™ solvents for HPLC, or analyzing pesticide residues, dioxins, and furans or PCB, we recommend using containers with an integrated dip tube.

| Stainless Steel Bottles | 18 L                | 45 L    | 200 L   |
|-------------------------|---------------------|---------|---------|
| Weight                  | 6.6 kg              | 12.2 kg | 44.5 kg |
| Height                  | 446 mm              | 660 mm  | 970 mm  |
| Diameter Ø              | 278 mm              | 363 mm  | 600 mm  |
| Operational Pressure    | 0.5 bar             |         |         |
| Closure                 | Screw cap RD52x1/6" |         |         |
| Material                | Stainless steel V2A |         |         |
| Approval                | 1A1                 |         |         |

### Dispensing Head (SAP 10182857)

The dispensing head is designed for 18 L, 45 L and 200 L drums with an integrated dip tube. All connectors are pre-assembled, so there is no need for extra tools. The connections can be done via Rectus™ quick connectors.

### Containers without a Dip Tube

You can use containers without a dip tube, if you are using standard grade and analytical grade puriss p.a. or ACS grade solvents.

### Dispensing System

The dispensing system includes the dip tube, and is screwed on the container. No extra tools are required, the connections can be made using Rectus™ quick connectors.

| Stainless Steel Bottles | 18 L                 | 45 L       | 200 L   |
|-------------------------|----------------------|------------|---------|
| Weight                  | 6.9 kg               | 11.4 kg    | 43.0 kg |
| Height                  | 446 mm               | 600 mm     | 970 mm  |
| Diameter Ø              | 278 mm               | 363 mm     | 600 mm  |
| Operational Pressure    | 0.5 bar              |            |         |
| Closure                 | Screw cap RD 48x1/6" | TriSure 2" |         |
| Material                | Stainless steel V2A  |            |         |
| Approval                | 1A1                  |            |         |

For 18 L, 45 L and 200 L drums without integrated dip tube:

Dispensing system for:

- 18 L drum (SAP 10182794)
- 45 L drum (SAP 10182795)
- 200 L drum (SAP 10304981)

Dispensing head for containers with integrated dip tube



Dispensing head for containers without integrated dip tube





## Additional Accessories for Returnable Containers

### Grounding Set (SAP 10182861)



Stainless steel containers must be electrically grounded to avoid electrostatic discharges before dispensing inflammable solvents.

### Ball Pump Quick Connector (SAP 10182433)



For increasing air pressure within container in combination with the dispensing head or system.

### Container Adapter (SAP 10304628)



The container adapter is screwed to containers with an integrated dip tube and enables a direct connection with HPLC instruments.

### Dispensing Tube (SAP 10302071)



For dispensing solvents in special reservoirs in combination with the dispensing head or system.

### Dispensing Hose (SAP 10302073)



A flexible hose for convenient dispensing solvents in special reservoirs in combination with dispensing head or system.

## Additional Customer Specific Packaging Options

We offer additional sizes from 5 L to 1000 L including intermediate bulk container (IBCs) and plastic containers for inorganics or organics with low metal content. Additionally, we can provide custom container solutions.

# HOW DOES IT WORK?

## Getting Started

A Honeywell representative, or an approved distributor partner will provide a custom fit solution tailored to your specific requirements. We recommend having a minimum annual solvent consumption for a certain container size.

If you have changes in your annual solvent demand, you will need to communicate these changes to us. This helps us to adapt to your actual usage so that we can ensure you are delivered the quantity you need.

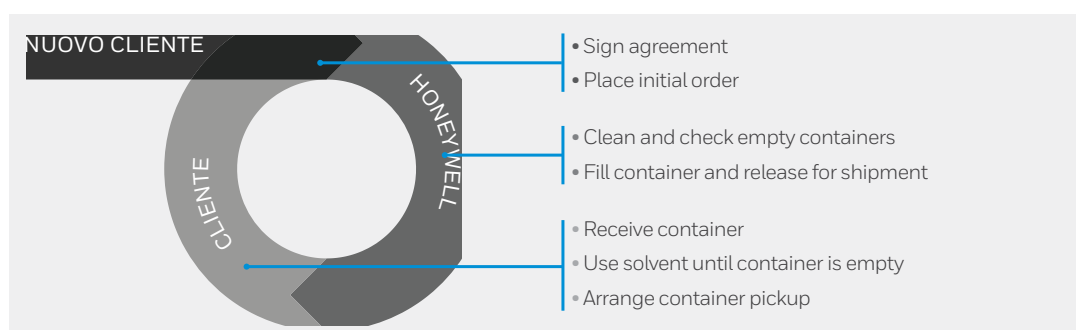
| ANNUAL SOLVENT VOLUME ?     |  |                     |  |                   |  |                    |  |
|-----------------------------|--|---------------------|--|-------------------|--|--------------------|--|
| ≥ 24 bottles (168 L)        |  | ≥ 12 drums (216 L)  |  | ≥ 6 drums (270 L) |  | ≥ 3 drums (600 L)  |  |
| 7 L bottle                  |  | 18 L drum           |  | 45 L drum         |  | 200 L drum         |  |
| REQUIRED SOLVENT QUANTITY ? |  |                     |  |                   |  |                    |  |
| Analytical grade            |  | High purity         |  | Analytical grade  |  | High purity        |  |
| 18 L no dip tube            |  | 18 L with dip tube  |  | 45 L no dip tube  |  | 45 L with dip tube |  |
| 200 L no dip tube           |  | 200 L with dip tube |  |                   |  |                    |  |
| DISPENSING ?                |  |                     |  |                   |  |                    |  |
| Pouring                     |  | Pressure dispensing |  | Dispensing system |  | Dispensing head    |  |
|                             |  |                     |  | Dispensing system |  | Dispensing head    |  |
|                             |  |                     |  |                   |  | Dispensing system  |  |
|                             |  |                     |  |                   |  | Dispensing head    |  |

## Placing Your First Order

To initiate the returnable container program, a signed agreement is required specifying the solvents used and the estimated consumption, the container type, and required accessories. Once the order is placed, the returnable containers will be released for shipment by Honeywell. All our stainless steel drums are tracked by bar code. Honeywell will keep complete records of your solvent and container usage to ensure uninterrupted supply. Depending on the agreed process the containers are shipped through your distributor or directly to you.

## Returning Your Containers

After consumption of the solvents, please contact [SeelzeRC.support@honeywell.com](mailto:SeelzeRC.support@honeywell.com) to arrange a container pick-up. Honeywell will work with you directly, or with your distributor to establish a convenient round-trip shipping process. The un-rinsed empty containers with their original labels attached, will be picked up and cleaned by Honeywell.



# ACCELERATE YOUR RESEARCH BY SAVING A WEEK OF LAB-TIME PER YEAR.\*

## **GET MORE DONE**

Save time testing solvent batches, handling solvent bottles, and connecting and exchanging bottles with your instrument.

## **EASY TO SETUP AND FLEXIBLE TO USE**

The dispensing accessories enable easy, secure and contamination free direct connections to instruments, or multiple dispensing points. After the container is empty, it will be collected and cleaned by Honeywell.

## **BE CONFIDENT IN YOUR RESULTS**

Our returnable containers are filled with quality solvents that have excellent lot-to-lot consistency and come with a detailed Certificate of Analysis.

Honeywell is home to Chromasolv™ high purity solvents for chromatography, which are trusted and relied upon by thousands of scientists, and are referenced in over 6000 peer reviewed publications\*\*.

\*Based on usage of 250 cases (4 \* 2.5L) of solvent per year, compare to one 200L returnable drum.

\*\*Google Scholar. Retrieved from <https://scholar.google.de>

## Solvents in Returnable Containers

We offer the following solvents grades in returnable stainless steel containers:

- Analytical grade (puriss p.a. / ACS grade) solvents
- Chromasolv™ solvents for pesticide residue analysis
- Chromasolv™ solvents for HPLC
- Chromasolv™ solvents for analysis of dioxins, furans and PCB

The following is a list of the most common Chromasolv™ solvents supplied in standard returnable containers.

To see a complete list of all solvents available in returnable containers, please visit [lab-honeywell.com](http://lab-honeywell.com). If you do not find the solvent you need, contact us to ask about custom solvents and solutions.

| Product Number | Product Description  | Returnable Container Size |      |      |       |
|----------------|--|---------------------------|------|------|-------|
|                |  | 7 L                       | 18 L | 45 L | 200 L |
| 34480          | Acetone CHROMASOLV™ for pesticide residue analysis, ≥99.8%   | x                         |      | x    |       |
| 34850          | Acetone CHROMASOLV™, for HPLC, ≥99.8%  |                           | x    | x    |       |
| 34967          | Acetonitrile CHROMASOLV™ LC-MS, ≥99.9%   |                           | x    |      |       |
| 34481          | Acetonitrile CHROMASOLV™ for pesticide residue analysis, ≥99.9%  | x                         |      |      |       |
| 34998          | Acetonitrile CHROMASOLV™ Plus, for HPLC, ≥99.9%  | x                         | x    | x    |       |
| 34881          | Acetonitrile CHROMASOLV™, for HPLC, ≥99.8%   | x                         | x    | x    |       |
| 34851          | Acetonitrile CHROMASOLV™, for HPLC, gradient grade, ≥99.9%   | x                         | x    | x    | x     |
| 34888          | Acetonitrile CHROMASOLV™, for HPLC, for UV, ≥99.9%   | x                         | x    | x    |       |
| 34496          | Cyclohexane CHROMASOLV™ for pesticide residue analysis, ≥99.5%   | x                         | x    |      |       |
| 34855          | Cyclohexane CHROMASOLV™, for HPLC, ≥99.7%  | x                         |      |      |       |
| 34488          | Dichloromethane CHROMASOLV™ for pesticide residue analysis, ≥99.8%   | x                         |      | x    |       |
| 34856          | Dichloromethane CHROMASOLV™, for HPLC, ≥99.8%, contains amylene as stabilizer                                      | x                         | x    | x    |       |
| 02855          | Ethanol (Untaxed) CHROMASOLV™, for HPLC, absolute, without additive, A15, ≥99.8%, for license holders only         | x                         |      |      | x     |
| 34852          | Ethanol CHROMASOLV™, for HPLC, absolute, ≥99.8%  | x                         | x    |      |       |
| 31063          | Ethyl acetate CHROMASOLV™ for pesticide residue analysis, ≥99.9%   | x                         | x    | x    | x     |
| 34858          | Ethyl acetate CHROMASOLV™, for HPLC, ≥99.7%  | x                         | x    | x    | x     |
| 34495          | Heptane CHROMASOLV™ for pesticide residue analysis, ≥99%   | x                         |      |      |       |
| 34873          | Heptane CHROMASOLV™, for HPLC, ≥99%  | x                         | x    | x    |       |
| 34484          | Hexane CHROMASOLV™ for pesticide residue analysis, ≥95%  | x                         | x    | x    |       |
| 34859          | Hexane CHROMASOLV™, for HPLC, ≥97.0%   | x                         | x    | x    |       |
| 34485          | Methanol CHROMASOLV™ for pesticide residue analysis, ≥99.9%  | x                         |      |      |       |
| 34860          | Methanol CHROMASOLV™, for HPLC, ≥99.9%   | x                         | x    | x    | x     |
| 34885          | Methanol CHROMASOLV™, for HPLC, gradient grade, ≥99.9%   | x                         | x    | x    | x     |
| 34956          | Pentane CHROMASOLV™, for HPLC, ≥99.0%  |                           | x    |      |       |
| 34491          | Petroleum ether CHROMASOLV™ for pesticide residue analysis, low boiling point hydrogen treated naphtha, bp 40-60°C | x                         |      | x    |       |
| 34863          | 2-Propanol CHROMASOLV™, ≥99.9%   | x                         | x    | x    |       |
| 34875          | Tert-Butyl methyl ether CHROMASOLV™, for HPLC, ≥99.8%  | x                         |      |      |       |
| 34865          | Tetrahydrofuran CHROMASOLV™ Plus, for HPLC, inhibitor-free, ≥99.9%   | x                         | x    | x    |       |
| 34413          | Toluene CHROMASOLV™ for analysis of dioxins, furans and PCB, ≥99.7%  | x                         |      |      |       |
| 34494          | Toluene CHROMASOLV™ for pesticide residue analysis according to FDA, ≥99.7%  | x                         |      | x    |       |
| 34866          | Toluene CHROMASOLV™, for HPLC, ≥99.9%  |                           | x    | x    |       |
| 650439         | 2,2,4-Trimethylpentane CHROMASOLV™ Plus, for HPLC, ≥99.5%  |                           | x    |      |       |

### To order, please contact:

#### FOT Ltd

Sofia, Bulgaria

Tel.: +359-2-950-66-60

Email: [info@fot.bg](mailto:info@fot.bg)

[www.fot.bg](http://www.fot.bg)

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