

# EzPrep

The Preparative Fraction Collector for GC

**jas** EzPrep



SIMPLY SMART SOLUTIONS

# JAS EzPrep

A Totally Integrated Preparative Fraction Collector for Sample Collection and Purification

## Operation Mode

The automated liquid sampler injects the sample into the capillary or packed column inlet of the gas chromatograph. After the separation the compounds elute from the analytical column and are detected by the monitoring detector (FID or TCD) and a chromatogram is created.

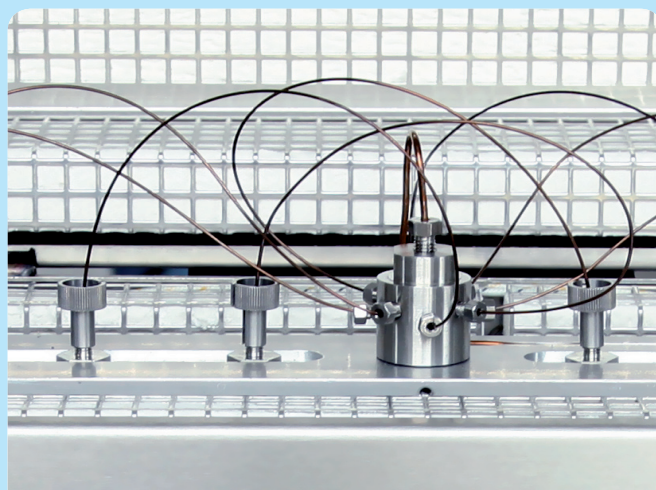
In sub-sequent runs the sample is split between the monitoring detector and the EzPrep, where up to 8 peaks of interest can be separately trapped based on the retention times. The trapping process is controlled by the JAS PrepLab Software or optionally via the GC keypad, whereas the JAS PrepLab SW offers an automatic retention time adjustment.



The JAS EzPrep is a well proven easy-to-use and robust instrument which comes pre-tested and ready-to-go.

## Key Features and Benefits:

- Compatible with Agilent 7890 and 6890 GCs
- Uses FID or TCD as monitoring detector
- For capillary, megabore and packed columns
- No method development required
- Offers 8 sample traps plus 1 waste trap
- Deactivated sample flow path
- Controlled via GC ChemStation and JAS PrepLab SW with automatic retention time adjustment
- Tool free trap handling
- Temp. range 20°C above ambient up to 320°C
- Optional: trap cooling/heating bath
- System pre-installed and ready-to-go when shipped



Stainless steel fittings

## The perfect Analytical Solution for:

- Analysis of food and flavor ingredients
- Food design
- Pharmaceutical chemical synthesis
- Research and Development
- Separation of isomers und enantiomers
- Supports structural identification
- Separation of co-eluting compounds
- Isolation/purification/enrichment of individual analytes
- Direct trapping into NMR tubes

# Advantages

The JAS EzPrep is the easy-to-use and robust solution for automatically collecting, purifying and isolating up to 8 peaks of interest from a complex sample matrix

## Efficiency:

Fast through-put and high precision results in high efficiency. Inert and valve-free flow path with low dead volume provides reproducible results while eliminating contamination and cold spots.

## Flexibility:

The **JAS EzPrep** allows up to 8 different cuts per run, performed either on a capillary, a megabore or a packed column. Method development is not required. Either single peaks or groups of compounds can be isolated. The traps can be cooled or heated (optionally) for appropriate collection of low or higher boiling compounds.

## Combined Use:

The **JAS EzPrep** can be combined with an Agilent Technologies MSD for structure determination and a **JAS Olfactometer** to olfactometrically identify on the fly, mark and cut peaks of interest while sniffing.

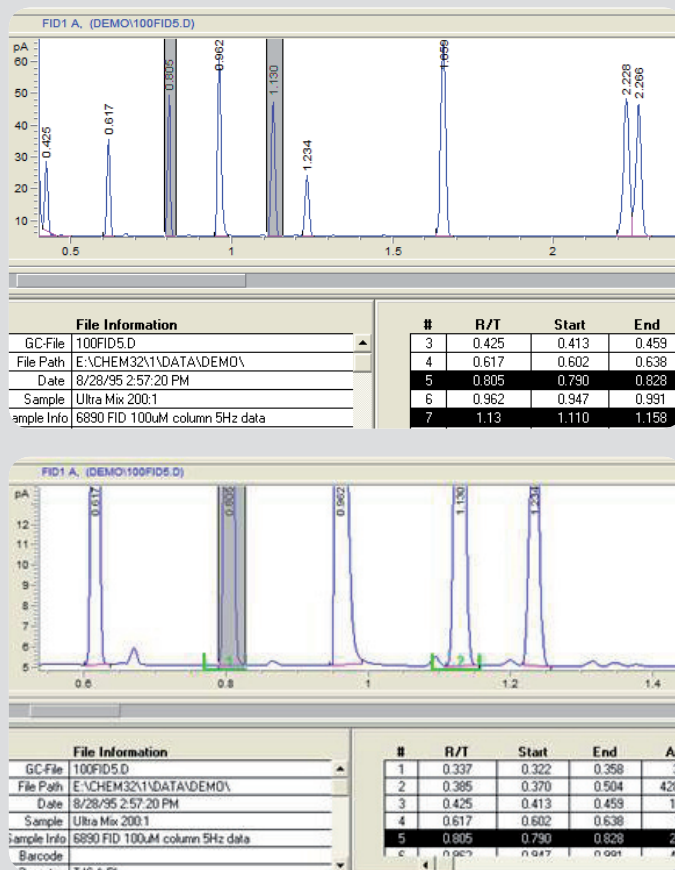
## Ease of Use:

The in-line arrangement of the traps is designed for tool free trap handling and delivers an unmatched visibility and accessibility. The JAS PrepLab Software facilitates the peak selection and cutting process.

## JAS PrepLab Software - automatic RT adjustment:

The process of setting the cutting times for the components of interest is controlled by the JAS PrepLab SW. It is embedded in the Agilent GC ChemStation Software and offers an automatic retention time adjustment. Based on the monitoring detector chromatogram the peak areas are integrated based on their retention times. By clicking either in the runtime table or in the chromatogram the user can set the cutting times for single compounds. But also groups of peaks can be collected together by integrating the area of interest.

Cutting times can be further customized by manually editing the desired collecting windows, i.e. placing it a certain time before the compounds elute and after. After the individual settings the cutting times and sample trap number labeling will be shown in the original chromatogram. The JAS PrepLab automatic retention time adjustment is a real differentiator and indispensable for long sequence often required for isolating or enriching small quantity compounds.







## About joint analytical systems

Since 1995 JAS is a major partner and Value Added Reseller of Agilent Technologies. We are an innovative-driven organization that offers customized solutions for GC, GCxGC,  $\mu$ GC, GC-AED, GC-MS, GC-QQQ, LC, LC-MS, LC-QQQ and Q-TOF LC-MS applications.

## JAS serves key industries such as

- Chemical
- Environmental
- Food and Flavor
- Forensic
- Mechanical Engineering
- Petrochemical
- Pharmaceutical

## JAS Products for GC

- Atomic Emission Detector
- CryoTrap
- Customized Valving System
- EzPrep - Preparative Fraction Collector
- Olfactometer
- Scotti-RFID Systems
- UNIS Inlets

### joint analytical systems GmbH

Carl-Zeiss-Str. 49  
47445 Moers  
Germany

Phone: +49 2841 9871 100  
Fax: +49 2841 9871 222  
e-Mail: [info@jas.de](mailto:info@jas.de)  
Internet: [www.jas.de](http://www.jas.de)

Copyright © 2013  
joint analytical systems GmbH  
All rights reserved