

# *CHEMISORB AUTO*

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## *OPERATOR TRAINING CHECKLIST*

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(Rev A)

## ***MICROMERITICS CORPORATE PROFILE***

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Micromeritics is the global leader in analytical instrumentation for the physical characterization of particles, powders, and porous materials. Our advanced technologies provide precise measurement of density, surface area, porosity, activity, and powder flow, supporting research, product development, and quality control. Serving industries like materials science, chemicals, energy, and natural resources, our instruments enable critical advancements in fields such as battery materials, hydrogen economy, and carbon capture. Founded in 1962, Micromeritics operates globally with over 15,000 instruments in daily use, delivering expert support and cutting-edge solutions from our U.S. headquarters and international locations. For more information, please visit [www.micromeritics.com](http://www.micromeritics.com).

### ***PATENTS***

For patent information, visit [www.Micromeritics.com/patents](http://www.Micromeritics.com/patents).

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## ***CONTACT US***

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### **Instrument Service or Repair**

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### **Micromeritics Application Support**

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## 1. OVERVIEW

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This document contains a checklist to be used for training of ChemiSorb Auto system operators. Place a check mark next to the items that were shown and discussed.

## 2. ORIENTATION

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- 1. General safety
- 2. Table of contents and appendices
- 3. Manual organization and conventions
- 4. Equipment description and components discussion
- 5. Proper exhaust procedures
- 6. Power up and power down process
- 7. Analyzer and cable connections
- 8. KwikCool, KwikCool Vortex, and CryoCooler options
- 9. Sample tube: cleaning, handling, and assembly
- 10. Setup Mass Flow Controller valve for new gasses
- 11. Trainee prepared sample tube
- 12. Trainee allowed to load sample
- 13. Menu structure
- 14. Trainee allowed time to become familiar with software operation
- 15. Unit configuration
- 16. Help menu
- 17. Libraries

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### **3. *HARDWARE INSTALLATION AND USE***

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- \_\_\_\_\_ 1. Furnace mounting and removal
- \_\_\_\_\_ 2. Sample thermocouple position
- \_\_\_\_\_ 3. Cold trap and delay loop installation
- \_\_\_\_\_ 4. Septum use
- \_\_\_\_\_ 5. Cooling options
- \_\_\_\_\_ 6. Sample tube
- \_\_\_\_\_ 7. Sample quantity and loading

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### **4. *METHODS CREATION***

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- \_\_\_\_\_ 1. Methods creation
- \_\_\_\_\_ 2. Methods used in sample information files

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### **5. *SAMPLE FILE AND PARAMETER FILE CREATION***

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- \_\_\_\_\_ 1. File menu and sample file structure
- \_\_\_\_\_ 2. Sample file
- \_\_\_\_\_ 3. Analysis conditions file
- \_\_\_\_\_ 4. Adsorptive properties file
- \_\_\_\_\_ 5. Report options file
- \_\_\_\_\_ 6. Available reports
- \_\_\_\_\_ 7. Forms in Operator Manual appendix discussed

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### **6. *SAMPLE ANALYSIS***

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- \_\_\_\_\_ 1. Analysis tutorial section in Operator Manual
- \_\_\_\_\_ 2. Installation
- \_\_\_\_\_ 3. Start, suspend, monitor, and cancel analysis
- \_\_\_\_\_ 4. Indicators, prompts, and valves

- \_\_\_\_\_ 5. Effect of alternative analysis conditions
- \_\_\_\_\_ 6. Screen reporting of analysis in progress
- \_\_\_\_\_ 7. Overlay Experiment View, Stacked Experiment View, and Peak Editor
- \_\_\_\_\_ 8. Loop calibration
- \_\_\_\_\_ 9. Auxiliary inputs and outputs
- \_\_\_\_\_ 10. Gas calibration
- \_\_\_\_\_ 11. Trap regeneration

## **7. ANALYSIS REPORTS**

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- \_\_\_\_\_ 1. Interactive reports
- \_\_\_\_\_ 2. Starting default reports
- \_\_\_\_\_ 3. Changing sample file report options
- \_\_\_\_\_ 4. User-defined reports
- \_\_\_\_\_ 5. Printed reports
- \_\_\_\_\_ 6. Example reports
- \_\_\_\_\_ 7. Calculations (internet location)

## **8. TROUBLESHOOTING AND MAINTENANCE**

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- \_\_\_\_\_ 1. Error messages (Refer to Micromeritics Website.)
- \_\_\_\_\_ 2. Preventive maintenance procedures (Refer to Instrument Operators Manual.)
- \_\_\_\_\_ 3. Clean the equipment
- \_\_\_\_\_ 4. Clean or change the foam air filter
- \_\_\_\_\_ 5. Change the sample tube filter
- \_\_\_\_\_ 6. Change the septum
- \_\_\_\_\_ 7. Reposition replace, or adjust the sample thermocouple
- \_\_\_\_\_ 8. Recalibrate the sample thermocouple
- \_\_\_\_\_ 9. Perform a leak test
- \_\_\_\_\_ 10. Perform a reference material analysis
- \_\_\_\_\_ 11. Perform a mass flow controller calibration (if applicable)

- \_\_\_\_\_ 12. Change gas cylinders
- \_\_\_\_\_ 13. Vent the gas exhausts
- \_\_\_\_\_ 14. Purge gas
- \_\_\_\_\_ 15. Change the injection loop
- \_\_\_\_\_ 16. Diagnostics

## ***9. RETURNED GOODS AND PARTS ORDERING***

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- \_\_\_\_\_ 1. Returned goods policy
- \_\_\_\_\_ 2. Parts and accessories

## ***10. WARRANTY STATEMENT***

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- \_\_\_\_\_ 1. Warranty policy



## 12. VERIFICATION

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\_\_\_\_\_ All items on the Operator Training Checklist completed? (Enter **Yes** or **No**)

Name of trainer: \_\_\_\_\_

Date of training: \_\_\_\_\_

Company address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Analyzer name: \_\_\_\_\_

Analyzer serial number: \_\_\_\_\_

The following section is to be completed by the primary operator trained during this session.  
Please complete to acknowledge that installation training has been carried out to your satisfaction.

Operator verifying completion of training: \_\_\_\_\_

Date signed: \_\_\_\_\_

Operator's title: \_\_\_\_\_

Operator's phone number: \_\_\_\_\_