

# Sorbents – A quick reference guide

| Sorbent                      | Sorbent type                                   | Temperature range |                                 | Suitable analytes                                                                                                                                                    | Min. temp. °C <sup>(1)</sup> | Max. temp. °C <sup>(1)</sup> |
|------------------------------|------------------------------------------------|-------------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------|
|                              |                                                | Hydrocarbon range | Boiling point °C <sup>(2)</sup> |                                                                                                                                                                      |                              |                              |
| <b>Active sorbents</b>       | Porapak Q                                      | $C_5 - C_{10}$    | 100 – 400                       | Aromatics, alkenes, polar compounds (e.g. $\alpha$ -DPCP, and some esters).                                                                                          | 100                          | 300                          |
|                              | Porapak QH                                     | $C_5 - C_{10}$    | 100 – 400                       | Aromatics, alkenes, polar compounds $\alpha$ -DPCP, and some esters.                                                                                                 | 100                          | 300                          |
|                              | Porapak Q                                      | $C_5 - C_{10}$    | 100 – 300                       | Low molecular weight compounds, alkenes, halogenes, and sulfur groups. Good detector of all PCEs.                                                                    | 100                          | 280                          |
|                              | Porapak H                                      | $C_5 - C_{10}$    | 100 – 300                       | High VOCs, alkenes, alcohols, propenols, pyridine, volatile amines, esters, nitriles, ketones.                                                                       | 100                          | 180                          |
|                              | Porapak Q                                      | $C_5 - C_{10}$    | 100 – 300                       | Dependent compounds.                                                                                                                                                 | 100                          | 180                          |
| <b>Carbonaceous sorbents</b> | Carbograph 100<br>Carbograph G<br>Carbograph G | $C_5 - C_{10}$    | 100 – 140                       | Hydrocarbons and large aliphatics, many organics, VOCs, PCEs.                                                                                                        | 400                          | 340                          |
|                              | Carbograph 150<br>Carbograph B<br>Carbograph B | $C_5 - C_{10}$    | 100 – 250                       | A wide range from medium to high volatility, aromatics, alkenes, and alcohols (but not heterocycles). Not good when volatility range hydrocarbons (most gases, etc). | 400                          | 260                          |
|                              | Carbograph 150<br>Carbograph B                 | $C_5 - C_{10}$    | 100 – 250                       | Especially good for 1,2 isomers and high hydrocarbons.                                                                                                               | 400                          | 260                          |
|                              | Carbograph F<br>Carbograph F                   | $C_5 - C_{10}$    | 100 – 240                       | Low volatility hydrocarbons, ketones, e.g. aliphatic alcohols, alkenes, and heterocycles.                                                                            | 400                          | 240                          |
|                              | Carbograph                                     | $C_5 - C_{10}$    | 100 – 250                       | VOCs (long chains), CO <sub>2</sub> , methanol, esters, acids, ketones and alcohols. Good for generally large VOCs (BP <sub>2</sub> ).                               | 400                          | 260                          |
| <b>Carbonaceous sorbents</b> | Carbograph 100<br>100                          | $C_5 - C_{10}$    | 100 – 80                        | Aromatics, gases, and others (e.g. $C_{10}$ ), e.g. chlorinated. Also captures from small amounts.                                                                   | 400                          | 240                          |
|                              | Carbograph 100<br>100                          | $C_5 - C_{10}$    | 100 – 80                        | Aromatics, gases, and other volatile hydrocarbons, e.g. alcohols.                                                                                                    | 400                          | 240                          |
|                              | Carbograph 100<br>100                          | $C_5 - C_{10}$    | 100 – 80                        | Aromatics, gases, and other volatile hydrocarbons, e.g. alcohols.                                                                                                    | 400                          | 240                          |
|                              | Molecular sieve 5A                             | $C_5 - C_{10}$    | 100 – 80                        | Aromatics, gases, and other volatiles.                                                                                                                               | 400                          | 240 (max. for $H_2O$ )       |
| <b>Other</b>                 | Silica Gel                                     | Not               | Not                             | Low boiling polar compounds, especially useful for separating chlorinated or sulfur compounds from mixtures with hydrocarbon interferences.                          | 200                          | 240                          |
|                              | Quartz wool                                    | Not               | Not                             | Not.                                                                                                                                                                 | 400                          | 240                          |

(1) Maximum temperature should never be exceeded, to prevent structural damage to sorbent. When using multi-beds of sorbents, maximum temperature is the lowest of all sorbents used in the tube.

(2) Recommended desorption temperatures are a guide and may require confirmation depending on target analytes. Lower desorption temperatures are recommended where possible to protect sorbent lifetime. Sorbent conditioning should be carried out at 100-200°C above the desorption temperature.

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# Varian Sorbent Selection Guide

**E. Michael Thurman, M. S. Mills**



## **Varian Sorbent Selection Guide:**

Handbook of Isolation and Characterization of Impurities in Pharmaceuticals Satinder Ahuja, Karen Mills

Alsante, 2003-07-18 The United States Food and Drug Administration FDA and other regulatory bodies around the world require that impurities in drug substance and drug product levels recommended by the International Conference on Harmonisation ICH be isolated and characterized Identifying process related impurities and degradation products also helps us to understand the production of impurities and assists in defining degradation mechanisms When this process is performed at an early stage there is ample time to address various aspects of drug development to prevent or control the production of impurities and degradation products well before the regulatory filing and thus assure production of a high quality drug product This book therefore has been designed to meet the need for a reference text on the complex process of isolation and characterization of process related synthesis and formulation impurities and degradation products to meet critical regulatory requirements Its objective is to provide guidance on isolating and characterizing impurities of pharmaceuticals such as drug candidates drug substances and drug products The book outlines impurity identification processes and will be a key resource document for impurity analysis isolation synthesis and characterization Provides valuable information on isolation and characterization of impurities Gives a regulatory perspective on the subject Describes various considerations involved in meeting regulatory requirements Discusses various sources of impurities and degradation products

**LC GC.** , 1995 Solid-Phase Extraction E. Michael Thurman, M. S. Mills, 1998-03-16 Solid Phase Extraction SPE is a method of preparing samples for analysis The technique involves purifying and concentrating a sample using a disposable column This book explains how solid phase extraction works and provides detailed applications of SPE in clinical environmental and natural product chemistry

**Modern HPLC for Practicing Scientists** Michael W. Dong, 2006-05-19 A comprehensive yet concise guide to Modern HPLC Written for practitioners by a practitioner Modern HPLC for Practicing Scientists is a concise text which presents the most important High Performance Liquid Chromatography HPLC fundamentals applications and developments It describes basic theory and terminology for the novice and reviews relevant concepts best practices and modern trends for the experienced practitioner Moreover the book serves well as an updated reference guide for busy laboratory analysts and researchers Topics covered include HPLC operation Method development Maintenance and troubleshooting Modern trends in HPLC such as quick turnaround and greener methods Regulatory aspects While broad in scope this book focuses particularly on reversed phase HPLC the most common separation mode and on applications for the pharmaceutical industry the largest user segment Accessible to both novice and intermediate HPLC users information is delivered in a straightforward manner illustrated with an abundance of diagrams chromatograms tables and case studies and supported with selected key references and Web resources With intuitive explanations and clear figures Modern HPLC for Practicing Scientists is an essential resource for practitioners of all levels who need to understand and utilize this versatile

analytical technology      Comprehensive Sampling and Sample Preparation Josep M. Bayona, Paola Dugo, X. Chris Le, Hian Kee Lee, Xing-Fang Li, Heather Lord, 2012-12-31 Comprehensive Sampling and Sample Preparation is a complete treatment of the theory and methodology of sampling in all physical phases and the theory of sample preparation for all major extraction techniques. It is the perfect starting point for researchers and students to design and implement their experiments and support those experiments with quality reviewed background information. In its four volumes fundamentals of sampling and sample preparation are reinforced through broad and detailed sections dealing with Biological and Medical Environmental and Forensic and Food and Beverage applications. The contributions are organized to reflect the way in which analytical chemists approach a problem. It is intended for a broad audience of analytical chemists both educators and practitioners of the art and can assist in the preparation of courses as well in the selection of sampling and sample preparation techniques to address the challenges at hand. Above all it is designed to be helpful in learning more about these topics as well as to encourage an interest in sampling and sample preparation by outlining the present practice of the technology and by indicating research opportunities. Sampling and Sample preparation is a large and well defined field in Analytical Chemistry relevant for many application areas such as medicine environmental science biochemistry pharmacology geology and food science. This work covers all these aspects and will be extremely useful to researchers and students who can use it as a starting point to design and implement their experiments and for quality reviewed background information. There are limited resources that Educators can use to effectively teach the fundamental aspects of modern sample preparation technology. Comprehensive Sampling and Sample Preparation addresses this need but focuses on the common principles of new developments in extraction technologies rather than the differences between techniques thus facilitating a more thorough understanding. Provides a complete overview of the field. Not only will help to save time it will also help to make correct assessments and avoid costly mistakes in sampling in the process. Sample and sample preparation are integral parts of the analytical process but are often less considered and sometimes even completely disregarded in the available literature. To fill this gap leading scientists have contributed 130 chapters organized in 4 volumes covering all modern aspects of sampling and liquid solid phase and membrane extractions as well as the challenges associated with different types of matrices in relevant application areas.

**Encyclopedia of Separation Science** Michael Cooke, C. F. Poole, 2000      **Manuals of Food Quality Control** G. Miller, Food and Agriculture Organization of the United Nations, 1992 A practical handbook on the analysis of foods for pesticide residue contamination. Its ultimate aim is to assure that a food control laboratory produces high quality analytical results using analytical methodology which has been shown to be reliable and reproducible for pesticide residue analyses.

*Research & Development*, 1991-05      **Manuals of Food Quality Control** G. Miller, Food and Agriculture Organization of the United Nations, 1992 A practical handbook on the analysis of foods for pesticide residue contamination. Its ultimate aim is to assure that a food control laboratory produces high quality analytical results using

analytical methodology which has been shown to be reliable and reproducible for pesticide residue analyses      High Throughput Bioanalytical Sample Preparation David A. Wells, 2003-01-28 High Throughput Bioanalytical Sample Preparation Methods and Automation Strategies is an authoritative reference on the current state of the art in sample preparation techniques for bioanalysis This book focuses on high throughput rapid productivity techniques and describes exactly how to perform and automate these methodologies including useful strategies for method development and optimization A thorough review of the literature is included within each of these chapters describing high throughput sample preparation techniques protein removal by precipitation equilibrium dialysis and ultrafiltration liquid liquid extraction solid phase extraction and various on line techniques The text begins with an introductory overview of the role of bioanalysis in pharmaceutical drug development Fundamental understanding of the strategies for sample preparation is reinforced next along with essential concepts in extraction chemistry Several chapters introduce and discuss microplates accessory products and automation devices Particular strategies for efficient use of automation within a bioanalytical laboratory are also presented The subject material then reviews protein precipitation liquid liquid extraction solid phase extraction and various on line sample preparation approaches The book concludes with information on recent advances in sample preparation such as solid phase extraction in a card format and higher density extraction plates Important objectives that can be accomplished when the strategies presented in this book are followed include improved efficiency in moving discovery compounds to preclinical status with robust analytical methods return on investment in automation for sample preparation and improved knowledge and expertise of laboratory staff Shows the reader exactly how to perform modern bioanalytical sample preparation techniques complete with detailed strategies Thorough literature review and summary of published information Detailed discussion and examples of the method development process      **American Laboratory** ,2007      *Instruments & Control Systems* ,1965      **Index of Patents Issued from the United States Patent and Trademark Office** ,1977      *Energy Research Abstracts* ,1985      Index of Patents Issued from the United States Patent Office ,1977      **Government Reports Announcements & Index** ,1979      **1986 Abstracts** ,1986      *Neftekhimiia* ,1987      Physics Briefs ,1985      **The Journal of the Chartered Institution of Building Services** Chartered Institution of Building Services,1980

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