

Colorants and auxiliaries

ORGANIC CHEMISTRY AND APPLICATION PROPERTIES

Second Edition

Volume 2 – Auxiliaries

Edited by John Shore

Formerly of BTTG/Shirley and ICI Dyes (now DyStar), Manchester, UK

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Society of Dyers and Colourists

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Contents

Preface		ix
CHAPTER 8	Functions and properties of dyeing and printing auxiliaries	471
8.1	The need for auxiliaries	471
8.2	The general types and characteristics of auxiliaries	474
	References	476
CHAPTER 9	The chemistry and properties of surfactants	477
9.1	Introduction	477
9.2	Hydrophiles	477
9.3	Hydrophobes	477
9.4	Anionic surfactants	479
9.5	Cationic surfactants	485
9.6	Nonionic surfactants	486
9.7	Amphoteric surfactants	489
9.8	The general properties of surfactants	490
	References	496
CHAPTER 10	Classification of dyeing and printing auxiliaries by function	497
10.1	Electrolytes and pH control	497
10.2	Sequestering agents	505
10.3	Macromolecular complexing agents	519
10.4	Enzymes	539
10.5	Preparation of substrates	553
10.6	Dispersing and solubilising agents	636
10.7	Levelling and retarding agents	642
10.8	Thickening agents, migration inhibitors and hydrotropic agents used in printing and continuous dyeing	645
10.9	Treatments to alter dyeing properties or enhance fastness	664
10.10	Agents for fibre lubrication, softening, antistatic effects, soil release, soil repellency and bactericidal activity	705
10.11	Foaming and defoaming agents	744
	References	750

CHAPTER 11	Fluorescent brightening agents	760
11.1	Introduction	760
11.2	Mode of action of a fluorescent brightener	761
11.3	Evaluation of FBAs: measurement of whiteness	765
11.4	General factors influencing FBA performance	768
11.5	Chemistry and applications of FBAs	770
11.6	Brighteners for cellulosic substrates	770
11.7	Brighteners for cellulose acetate and triacetate fibres	781
11.8	Brighteners for nylon	784
11.9	Brighteners for wool	788
11.10	Brighteners for polyester fibres	790
11.11	Brighteners for acrylic fibres	799
11.12	Brighteners in detergent formulations	803
11.13	Analysis of FBAs	809
	References	811
CHAPTER 12	Auxiliaries associated with main dye classes	813
12.1	Introduction	813
12.2	Acid dyes	813
12.3	Azoic components	820
12.4	Basic dyes	824
12.5	Direct dyes	832
12.6	Disperse dyes	837
12.7	Reactive dyes	856
12.8	Sulphur dyes	882
12.9	Vat dyes	893
	References	913

Preface to Volume 2

This Second Edition of a textbook first published in 1990 forms part of a series on colour and coloration technology initiated by the Textbooks Committee of the Society of Dyers and Colourists under the aegis of the Dyers' Company Publications Trust Management Committee, which administers the trust fund generously provided by the Worshipful Company of Dyers.

The initial objective of this series of books has been to establish a coherent body of explanatory information on the principles and application technology of relevance for students preparing to take the Associateship examinations of the Society. This particular book has been directed specifically to the subject areas covered by Section A of Paper B: the organic chemistry and application of dyes and pigments and of the auxiliaries used with them in textile coloration processes. However, many qualified chemists and colourists interested in the properties of colorants and their auxiliaries have found the First Edition useful as a work of reference. For several reasons it has been convenient to divide the material into two separate volumes: 1. Colorants, 2. Auxiliaries. Although fluorescent brighteners share some features in common with colorants, they have been treated as auxiliary products in this book.

This second volume of the book collects together a remarkable quantity and variety of factual information linking the application properties of auxiliary products in textile coloration and related processes to as much as is known of the chemical structure of these agents. The environmental impact of auxiliary products has become of major importance and developments during the 1990s have necessitated substantial modification and expansion of the text of this volume. The opportunity has also been taken to highlight novel chemical types of auxiliaries that are under evaluation to overcome or avoid many of the drawbacks shown by traditional products. Thus the two volumes of this Second Edition are now approximately equal in size, whereas in the 1990 edition Volume 2 was only about half as big as its sibling.

Virtually all of this development and improvement of Volume 2, especially in the much expanded Chapters 10 and 12, is thanks to the thorough and painstaking work of Terry Baldwinson, who has carefully sifted through an extensive yet scattered range of primary sources. Our grateful thanks are due to John Holmes and Catherine Whitehouse for their patient copy editing and to the publications staff of the Society, especially Carol Davies, who have prepared all the material in this new edition for publication.

JOHN SHORE

Chapters in Volume 1

- Chapter 1* Classification and general properties of colorants
- Chapter 2* Organic and inorganic pigments; solvent dyes
- Chapter 3* Dye structure and application properties
- Chapter 4* Chemistry of azo colorants
- Chapter 5* Chemistry and properties of metal-complex and mordant dyes
- Chapter 6* Chemistry of anthraquinonoid, polycyclic and miscellaneous colorants
- Chapter 7* Chemistry of reactive dyes