

1. Record Nr.	UNINA9910144284603321
Autore	Hamer Frances M
Titolo	The cyanine dyes and related compounds [[electronic resource] /] / Frances M. Hamer
Pubbl/distr/stampa	New York, : Interscience, 1964
ISBN	1-282-30674-X 9786612306747 0-470-18679-8 0-470-18829-4
Edizione	[99th ed.]
Descrizione fisica	1 online resource (830 p.)
Collana	The chemistry of heterocyclic compounds, a series of monographs ; ; v. 18
Disciplina	547/.59/05 667.25
Soggetti	Cyanines Dyes and dyeing - Chemistry Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographies.
Nota di contenuto	THE CYANINE DYES AND RELATED COMPOUNDS; Contents; I. Mainly Introductory; 1. The Connection of the Cyanines with Photography; 2. The Chemistry of the First Sixty-Three Years (up to 1919); 3. Establishment of the Constitution of the Typical Cyanines Known in 1920; A. The Constitution of Isocyanine; B. The Constitution of Cyanine; C. The Constitution of Pinacyanol; D. The Constitution of Cyanines of the Benzothiazole Series; E. Preparation of Unsymmetrical Methincyanines; F. The Constitution of Kryptocyanine; G. The Constitution of Dicyanine; H. The Constitution of the Apocyanines I. Summary, and Some Developments4. Definition and Nomenclature; 5. Cyanines in which the Nuclei are Directly Linked (Apocyanines); A. General; B. Preparation and Properties; C. Nomenclature; II Methincyanines; 1. 4'-Cyanine Condensation (Involving Elimination of HX + Ha); A. General; B. 4,4'-Cyanines; C. 2,4'-Cyanines; D. Thia-4'-, Oxa-4'-, and Selena-4'-cyanines; E. Thizolo-4'- and Thiazolino-4'- cyanines; F. Thiacyanines; 2. -Cyanine Condensation (Involving

Reactive I, Cl, CN, or SO<sub>3</sub>R, and Elimination of 2HX); A. General; B. 2,2'-Cyanines; C. 2,4'-Cyanines  
D. Thia-4'- and Selena-4'-cyanines E. Indo-2'-cyanines; F. Thia-2'-, Oxa-2'-, and Selena-2'-cyanines; G. Thiazolo-a'-. Thiazolino-Z'-. Ox&olo-2'-. and Selenazolo-2'- cyanines; H. 2-Pyrido-2'-, 2-Pyrido4'-, 4-Pyrido.2'-, and 4-Pyrido-4'- cyanines; I. 2-Pyridothia- and Oxa-2'-pyrido-cyanines; J. 2.2'-, 2.4'-, and 4.4'- Pyridocyanines; K. Thiazolo-2'-, Thiazolino-2'-, Oxazolo-2'-, and Selenazolo-2'- pyridocyanines; L. Thiacyanines; 3. Nitrite Method; A. General; B. Indocyanines and Intermediate Compounds; C. Thiacyanines; D. Oxa- and Selena-cyanines; 4. Alkyl- or Aryl-thio Method; A. General  
B. 2,2'- and 2,4'-Cyanines C. Thia-4'- and Oxa-4'-cyanines; D. Indo-2'-cyanines; E. Thia-2'- Oxa-2'-, and Selena-2'-cyanines; F. Thiazolo-2'-, Thiazolino-2'- and Oxazolo-2'-cyanines; G. 2-Pyrido-2'- and 4-Pyrido-4'-cyanines; H. Oxa-2'-pyrido- and 2-Pyridothia-cyanines; I. 4,4 '-Pyridocyanines; J. Thiazolo-2'- and Thiazolino-2'-pyridocyanines; K. Thia-, Oxa-, Oxathia- and Selenathia-cyanines; L. Indoxa- and Indothia-cyanines; M. Oxaoxazolo-, Oxathiamlo-, Oxazolothia-, and Thiathiazolo- cyanines; N. Oxazolo-, Thiazolo-, and Oxazolothiazolocyanines; 5. Condensations Depending on Reactive : N . R  
A. General B. Thia-2'cyanines; C. Thiacyanines; 6. Other Methods; A. Use of Grignard Reagent for Thiacyanines; B. Use of Ethyl Malonate for Synthesising Thiacyanines; C. Disulphide Method for Thia-, Thia-2'-, Thia-4'-, 2-Pyridothia-, and Thiathiazolo-cyanines; D. Malonic Acid Method for 2,2'-, Thia-, Oxa-, and Thiazolo- cyanines; E. 4,4'-Cyanine by Cleavage of 4,4'-Carbocyanine with Lepidine Ethiodide; F. Thia-, Oxa-, and Selena-cyanines by Reaction of a Quaternary Salt, Having a Methylthio-Group, with Acetic Anhydride; III . Methincyanines with Substituents on the Chain; A. General  
B. 2,2'-Cyanines

### Sommario/riassunto

Chemistry of Heterocyclic Compounds publishes articles, letters to the Editor, reviews, and minireviews on the synthesis, structure, reactivity, and biological activity of heterocyclic compounds including natural products. The journal covers investigations in heterocyclic chemistry taking place in scientific centers of all over the world, including extensively the scientific institutions in Russia, Ukraine, Latvia, Lithuania and Belarus.