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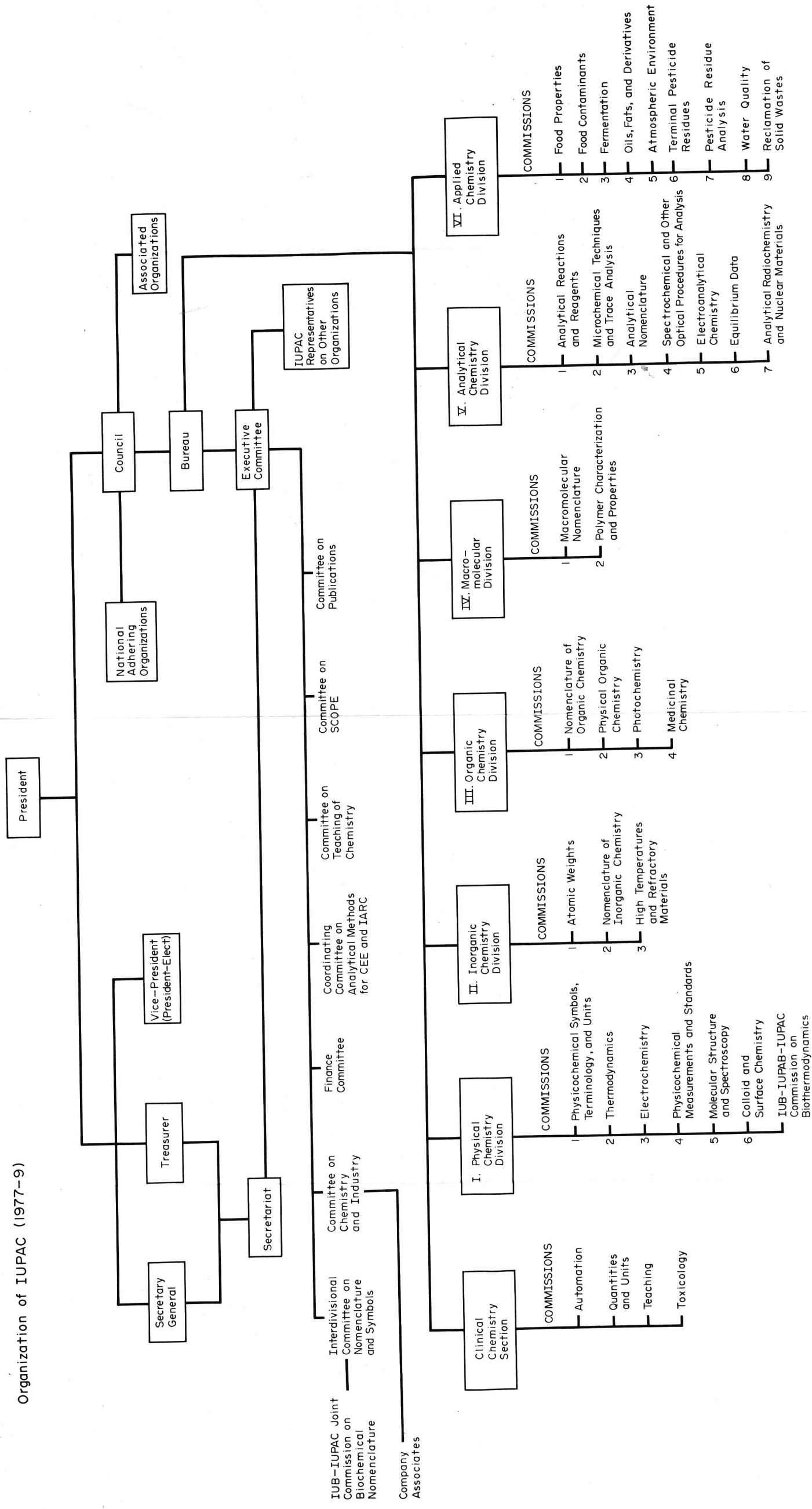
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*

Some newly nominated Members of IUPAC bodies are included in the Membership Lists subject to the approval of the appropriate National Adhering Organizations.

New IUPAC Publications from Pergamon Press Chemical Data Series

Critical Survey of Stability Constants of EDTA Complexes

G. ANDEREGG, *Laboratorium für Anorganische Chemie der Eidgenössischen Technischen Hochschule, Zurich, Switzerland*

All published values for the stability constants of the metal complexes with (ethylenedinitrito) tetra-acetic acid (EDTA) up to Spring 1976 are discussed critically in relation to used experimental procedures and the involved calculations, where this information is to be found in the literature. For each metal ion reliable recommended values are given.

Contents: The protonation constants of EDTA. The stability of metal complexes.

Of interest to: Students in chemistry and natural science. Scientists (inorganic, bioorganic, analytical) concerned with problems in solution chemistry.

ISBN 0 08 022009 6 f US\$7.00 £3.90
42pp 273 x 188 mm /UR

IUPAC Chemical Data Series Number 14
November 1977

Critical Evaluation of some Equilibrium Constants involving Alkylammonium Extractants

A.S. KERTES, *The Hebrew University of Jerusalem, Israel*

This work was supported by the U.S. National Bureau of Standards, as part of its National Standard Reference Data Series.

Contents: Introduction. **Formation Constants of Salts:** Tri-n-octylammonium chloride. Tri-n-octylammonium nitrate. Tri-n-octylammonium sulfate. Tri-n-dodecylammonium chloride. Tri-n-dodecylammonium bromide. Tri-n-dodecylammonium iodide. Tri-n-dodecylammonium nitrate. Tri-n-dodecylammonium perchlorate. **References.** **Aggregation Constants of Salts:** Tri-n-dodecylammonium chloride. Tri-n-dodecylammonium bromide. Tri-n-dodecylammonium nitrate. Tri-n-dodecylammonium perchlorate. **References.**

Of interest to: Research scientists in analytical chemistry and interested in separation techniques. Chemical engineering scientists. Environmental scientists.

ISBN 0 08 021591 2 f \$6.00 £3.30
36pp 273 x 190mm /R

IUPAC Chemical Data Series Number 2

A Critical Review of Equilibrium Data for Proton and Metal Complexes of 1,10-Phenanthroline, 2,2'-Bipyridyl and Related Compounds

W.A.E. McBRYDE, *University of Waterloo, Ontario, Canada*

Acidity constants for the 1,10-phenanthroline and 2,2'-bipyridinium ions and derivatives of these, and stability constants for metal complexes formed by the conjugate bases of these have been compiled from the literature with critical comments on a number of them. The data include values determined in non-aqueous or mixed solvents as well as those for a large number of "mixed" metal complexes incorporating these bases and a second ligand. The survey also contains known values for the enthalpies and entropies of formation for the proton- and metal-ion complexes.

Contents: Introduction. Acidity constants. Stability constants of metal complexes. Mixed complexes. Other ternary or higher complexes. Enthalpies and entropies of formation. 21 Tables.

Of interest to: Students in chemistry and natural science. Scientists (inorganic, bioorganic, analytical) concerned with problems in solution chemistry.

ISBN 0 08 022344 3 US\$11.00 £6.25
86pp 273 x 188 mm March 1978 /R

IUPAC Chemical Data Series Number 17

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NEW IUPAC PUBLICATIONS

IUPAC COMPENDIUM OF ANALYTICAL NOMENCLATURE "THE ORANGE BOOK"

H.M.N.H.H. IRVING, *University of Leeds, U.K.*
H. FREISER, *University of Arizona, U.S.A.*
T.S. WEST, *Macaulay Institute for Soil Research, Aberdeen, U.K.*

The IUPAC Analytical Chemistry Division's efforts to secure full recognition and widespread adoption of the recommended symbols and nomenclature applicable to many disciplines of analytical chemistry have now been published in one volume - "The Orange Book."

The Index has been prepared with the maximum amount of cross-referencing so that the reader seeking guidance on any particular point of nomenclature can be directed quickly to the relevant report or Reports in which it has been discussed.

Contents (partial): Preamble. Recommendations for the presentation of the results of chemical analysis. Recommendations for terminology to be used with precision balances. Recommended nomenclature for scales of working in analysis. Recommendations on nomenclature for contamination phenomena in precipitation from aqueous solution. Recommended nomenclature for automatic analysis. Recommendations for nomenclature of thermal analysis. Recommendations for nomenclature of mass spectrometry. Recommended nomenclature for titrimetric analysis. Report on the standardization of pH and related terminology. Practical measurement of pH in amphiprotic and mixed solvents. Recommended symbols for solution equilibria. Recommended nomenclature for liquid-liquid distribution. Recommendations on nomenclature and presentation of data in gas chromatography. Recommendations on nomenclature for chromatography. Recommendations on ion exchange nomenclature. Nomenclature, symbols, units and their usage in spectrochemical analysis-I. General atomic emission spectroscopy.

Of interest to: Analytical chemists in a wide range of disciplines.

ISBN 0 08 022008 8	\$25.00	£14.00	
ISBN 0 08 022347 8 f	\$15.00	£ 8.00	/R

228pp
March 1978

IUPAC Publication

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INTERNATIONAL THERMODYNAMIC TABLES OF THE FLUID STATE - 5 METHANE

Editors: S. ANGUS, K.M. de REUCK and B. ARMSTRONG, *IUPAC Thermodynamic Projects Centre, Imperial College of Science and Technology, London*

The Thermodynamic Tables project was inaugurated in 1963 by the Commission on Thermodynamics and Thermochemistry of the Division of Physical Chemistry of the International Union of Pure and Applied Chemistry with the object of compiling internationally agreed values of the equilibrium thermodynamic properties of liquids and gases of interest to both scientists and technologists. The range covered for each fluid is that for which there exist reliable experimental data, and the agreed values are issued as tables upon the basis of which users may produce equations suited to their own special requirements.

Contents: Preface. Introduction. Symbols. Units and conversion factors; experimental results. Two-phase regions. Single-phase region. Ideal gas properties. The equation of state. The IUPAC tables. Limits of the tables. Use and accuracy of the tables. Recommendations for improvements of the tables. **Appendix:** The density of liquid methane in the region of interest in custody transfer calculations.

Of interest to: Physical chemists, mechanical and gas engineers. Scientists involved in the studies of thermodynamics and/or statistical mechanics of fluids, heat and mass transfer, etc.

ISBN 0 08 021981 0	\$40.00	£20.00	
276pp	250 x 176mm		/R

Spring 1978

IUPAC Chemical Data Series Number 16



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Maxwell House, Fairview Park, New York 10523 USA

NEW IUPAC PUBLICATIONS

BORON CHEMISTRY — 3

Editor: **H. NOTH**, *University of Munich, FRG*

The Third International Meeting on Boron Chemistry was held at Munich and Ettal, FDG, 5-9 July, 1976. This meeting was sponsored by the German Chemical Society and the International Union of Pure & Applied Chemistry (IUPAC). A festive session was held to commemorate the 100th birthday of Alfred Stock.

Contents: Alfred Stock and the renaissance of Inorganic Chemistry, WIBERG. Effects of orbital vacancies in Boron compounds, LIPSCOMB. Studies of the smaller Boron hydrides and their derivatives, SHORE. Organoboranes in synthesis and analysis, KOSTER. Sodium borohydride and amine-boranes, commercially important reducing agents, BUCHER and NIEDERPRUM. The synthesis, structure, and chemical reactions of metallo-boranes, GREENWOOD. NIDO-heteroboranes, STIBR *et al.* The aminoboronation reaction, NIEDENZU. The cyclic coordination of Boron compounds, MIKHAILOV.

Of interest to: Research and graduate chemists interested in organometallic and inorganic chemistry.

ISBN 0 08 021206 9 \$19.25 £9.75
124pp 273 x 188mm November 1977

Previously published in **Pure & Applied Chemistry**, Volume 49 No. 6, and supplied to subscribers as part of their subscription.

COORDINATION CHEMISTRY — 17

E. WEISS, *University of Hamburg, FRG*

The 17th International Conference on Coordination Chemistry was held in Hamburg, FRG, September 6-10, 1976, and sponsored by IUPAC. The Conference was concerned with recent developments of coordination chemistry in the following fields: (1) Structure and bonding. (2) Novel synthetic routes. (3) Kinetic and reaction mechanisms. (4) Catalytic and technological aspects. (5) New types and concepts in coordination compounds. (6) Bio-coordination chemistry. This volume contains the five plenary lectures.

Contents: Retrospect and prospect: 25 years of the I.C.C.C., CHATT. 25 Jahre Ligandenfeldtheorie, HARTMANN. Aromatic transition metal complexes - the first 25 years, PAUSON. Cryptates: Macropoly-cyclic inclusion complexes, LEHN. Koordinationsverbindungen in der Gasphase, SCHAFER.

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For prices in Australia, Austria, Canada, France, Federal Republic of Germany, and New Zealand, please contact your nearest Pergamon office.

Of interest to: Chemists working in the field of coordination chemistry, theoretical chemistry and organometallic chemistry.

ISBN 0 08 021196 8 \$12.00 £6.75
62pp 173 x 188mm December 1977

Previously published in **Pure & Applied Chemistry** Volume 49 No. 6 and supplied to subscribers as part of their subscription.

CRITICAL EVALUATION OF SOME EQUILIBRIUM CONSTANTS INVOLVING ALKYLAMMONIUM EXTRACTANTS

A.S. KERTES, *Institute of Chemistry, The Hebrew University of Jerusalem, Jerusalem, Israel*

IUPAC CHEMICAL DATA SERIES Volume 2

This work was supported by the U.S. National Bureau of Standards, as part of its National Standard Reference Data Series.

The present critical evaluation of the equilibrium constants is based essentially on the tabulation of such constants published under the title "Equilibrium Constants of Liquid-Liquid Distribution Reactions. Part II. Alkylammonium Salt Extractants" (74K).

Data on equilibrium constants involving long-chain alkylammonium salt extractants have not been critically reviewed previously. In this first attempt, only two types of pertinent heterogeneous equilibria could have been considered: (I) the formation constants of alkylammonium salts, and (II) the constants of the aggregation equilibria of these salts in organic solvents employed as diluents in solvent extraction processes.

Contents: Introduction. **Formation Constants of Salts:** Tri-n-octylammonium chloride. Tri-n-octylammonium nitrate. Tri-n-octylammonium sulfate. Tri-n-dodecylammonium chloride. Tri-n-dodecylammonium bromide. Tri-n-dodecylammonium iodide. Tri-n-dodecylammonium nitrate. Tri-n-dodecylammonium perchlorate. **References.** **Aggregation Constants of Salts:** Tri-n-dodecylammonium chloride. Tri-n-dodecylammonium bromide. Tri-n-dodecylammonium nitrate. Tri-n-dodecylammonium perchlorate. **References.**

Of interest to: Research scientists in analytical chemistry and interested in separation techniques. Chemical engineering scientists. Environmental scientists.

ISBN 0 08 021591 2 f US\$6.00 £3.30
36pp 273 x 190mm May 1977



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Maxwell House, Fairview Park, New York 10523 USA

IHP18A

NEW IUPAC PUBLICATIONS

ETHYLENETHIOUREA

P.C. KEARNEY, *US Department of Agriculture, Beltsville, Maryland*

International Union of Pure and Applied Chemistry: Pesticide Terminal Residue Commission, Applied Chemistry Division. A special report on the occurrence of Ethylenethiourea as a terminal residue resulting from agricultural use of Ethylenebisdithiocarbamate.

Ethylenethiourea is a well known and fairly stable compound. It is employed commercially or industrially as an accelerator in the production of synthetic rubber. When administered under various toxicological experimental conditions, ETU has been shown to have caused, or in some cases suspected to have caused various pathological effects. These, including goiterogenic, tumorigenic and teratological effects, have raised some questions regarding the possible harmful effects as terminal residues of the relevant dithiocarbamate fungicides.

Contents: 1. Analytical Methodology. 2. Chemistry of Ethylenethiourea (ETU). 3. Dynamics and transformation of ETU residues. 4. Processing and cooking effects on EBDC'S. Conclusions. Recommendations.

Of interest to: Graduate and research workers in organic chemistry, farmers, agricultural advisers and pest control specialists. Processed food manufacturers.

ISBN 0 08 022026 6 f US\$ 6.00 £3.30
14pp 273 x 188mm August 1977

Previously published in *Pure & Applied Chemistry*, Volume 49 No. 5, and supplied to subscribers as part of their subscription.

ADVANCES IN SMOKING OF FOODS

A RUTKOWSKI, *Agricultural University of Warsaw, Poland*

This international symposium was sponsored by the International Union of Pure and Applied Chemistry (IUPAC) and the International Union of Food Sciences and Technology (IUFoST), Warsaw, 8 - 10 September, 1976.

Although the smoking or smoke flavouring of foods is an age-old process, many changes have occurred in recent years. Four general factors have influenced these changes, and/or supplied the need for change, namely, (1) the desire for the better control of the flavour and colour of smoked foods, (2) the concern for possible carcinogenesis by components in wood smoke, (3) the need to reduce smoke effluent and (4) the constant need for better plant design and faster output.

Contents: The phenomena of quality in the smoke curing process, TILGNER. Physical and chemical

processes involved in the production and application of smoke, RUSZ and MILER. Analysis of smoke and smoked foods, HAMM. Contribution of smoke compounds to sensory, bacteriostatic and anti-oxidative effects in smoked foods, BARYLKO-PIKIELNA. Some facts and legislation concerning polycyclic aromatic hydrocarbons in smoked foods, WALKER. Novel concepts in technology and design of machinery for production and application of smoke in the food industry, HOLLENBECK.

Of interest to: Manufacturers and food technologists, bacteriologists, physicochemists and organic chemists.

ISBN 0 08 022002 9 US\$16.00 £8.90
76pp 273 x 188mm February 1978

Previously published in *Pure & Applied Chemistry* Volume 49 No. 11, and supplied to subscribers as part of their subscription.

MYCOTOXINS IN FOODSTUFFS - 3

M. JEMMALI, *INSERM-INRA-16, rue Nicolas Fortin 75013, Paris*

The Third International Symposium on Mycotoxins in Food stuffs, Paris 16 - 18, 1976 was sponsored by the International Union of Pure and Applied Chemistry (IUPAC), The French Committee for Chemistry and the French Committee for Sciences of Nutrition.

The emphasis of the Symposium was on control measures for mycotoxins in foodstuffs and on the toxicological aspects. The important subject of decontamination was one of the key features of the Symposium.

Contents: Food mycotoxins survey and monitoring programs, CAMPBELL. Sampling granular foodstuffs for aflatoxin, WHITAKER. Mycotoxin tolerances in foodstuffs, KROGH. Mode d'action des mycotoxines, MOULE. Mode of action of Trichothecenes, UENO. Mode of action and human health aspects of aflatoxin carcinogenesis, BUTLER and NEAL. Short-term tests and mycotoxins, MALAVEILLE and BARTSCH. Review of prevention, elimination and detoxification of aflatoxine, GOLDBLATT and DOLLEAR. The mycotoxins and human health hazards, LINSELL. Metabolism of aflatoxin and other mycotoxins in relation to their toxicity and the accumulation of residues in animal tissues, PATTERSON. Some new mycotoxins, STEYN.

Of interest to: Research workers from university, industry and government institutions dealing with applied biology, microbiology, contamination of raw materials and phytopathology.

ISBN 0 08 021194 1 US\$15.00 £8.50
74pp 273 x 188mm February 1978

Previously published in *Pure & Applied Chemistry*, Volume 49 No. 11, and supplied to subscribers as part of their subscription.

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NEW IUPAC PUBLICATIONS

LOW MOLECULAR WEIGHT SULPHUR-CONTAINING NATURAL PRODUCTS

International Symposium on Low Molecular Weight Sulphur-Containing Natural Products, Jablonna, Poland, 6–10 July 1976

Editor: J.T. WROBEL, *Department of Chemistry, University of Warsaw, Poland*

Contents:

Low molecular weight sulphur-containing compounds in nature: a survey: KJAER. Oxidation of some biologically active and related sulfur-containing compounds: OAE *et al.* α -mercapto- α -amino acids and dehydro amino acids. Syntheses, relationships and interconversions: SCHMIDT. Properties of sulfur-containing nuphar alkaloids: LALONDE and WONG. New aspects of the chemistry of biotin and of some analogs: MARQUET. Glucosinolates: BENN.

Of interest to: Biochemists, pharmacologists.

ISBN 0 08 021204 2 \$16.50 £8.50
74pp 273 x 188mm July 1977

Previously published in *Pure & Applied Chemistry*, Vol. 49, No. 2, and supplied to subscribers as part of their subscription.

PHYSICAL ORGANIC CHEMISTRY – 3

Third IUPAC Conference on Physical Organic Chemistry, La Grande-Motte, Montpellier, 6–10 September 1976

Editor: A. FRUCHIER, *Université des Sciences et Techniques du Languedoc, Montpellier*

Contents:

Equilibrium acidities of carbon acids: BORDWELL. Micellar catalysis and inhibition: BUNTON. Quantum chemical studies of CO, CS and related double bonds: KUTZELNIGG. Some mechanistic studies on the hydrolysis of acetals and hemiacetals: CAPON. Mechanisms and catalysis in vinyl ester hydrolysis: EURANTO. General acid-base catalysis of carbonyl and acyl group reactions: JENCKS and GILBERT. Strain energy modeling of simple and crowded aliphatic

ketones: spectroscopic properties: DUBOIS. Stereochemistry of dissolving metal reduction of ketones: RASSAT. The hydrolysis of phosphate esters: WESTHEIMER.

Of interest to: Organic chemists, teachers and graduate students.

ISBN 0 08 021197 6 \$17.00 £9.50
110pp 273 x 188mm December 1977

Previously published in *Pure & Applied Chemistry*, Volume 49, No. 7, and supplied to subscribers as part of their subscription.

CARBOHYDRATE CHEMISTRY – 8

8th International Symposium on Carbohydrate Chemistry, 16–20 August, 1976, Kyoto, Japan

Editor: K. ONODERA, *Kyoto University, Japan*

Contents:

The selective degradation of carbohydrate polymers: ASPINALL. Conformations of uronic acid containing polysaccharides: ATKINS. Fourier transform NMR Spectroscopy. Nitrogen-15 studies of amino sugars: COXON. Lectins as carbohydrate-binding proteins: GOLDSTEIN. Approaches to the total synthesis of natural products from carbohydrates: HANESSIAN and RANCOURT. Glycosphingolipids with blood group A, H and I activity and their changes associated with ontogenesis and oncogenesis: HAKOMORI *et al.* Recent aspects of the chemistry of disaccharides: HOUGH. Structural studies of some bacterial polysaccharides: LINDBERG. Synthesis of amino- and branched chain mono- and oligosaccharides: PAULSEN. Structural features of the *Bordetella Pertussis* endotoxin: SZABO. Direction of carbohydrate research in the near future: WHISTLER.

Of interest to: Research graduates in carbohydrate chemistry and biochemistry and postgraduate students majoring in organic chemistry or biochemistry. Pharmacologists.

ISBN 0 08 022001 0 \$27.00 £15.00
172pp 273 x 188mm December 1977

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