

DOCUMENTA CHEMICA YUGOSLAVICA

CROATICA  
CHEMICA ACTA

(ARHIV ZA KEMIJU)

VOL. 32

ZAGREB  
YUGOSLAVIA  
1960

*Croat. Chem. Acta*

## **CROATICA CHEMICA ACTA**

**Izdaje Hrvatsko kemijsko društvo**

*Službeno glasilo Hrvatskog kemijskog društva  
Službeno kemijsko glasilo Sveučilišta u Zagrebu  
i Hrvatskog prirodoslovnog društva*

### **REDAKCIONI ODBOR**

*Glavni urednik:* Božo Težak

*Pomoćni urednik:* Vilko Tomašić

*Tajnik:* Dina Keglević-Brovat

*Članovi:* Smiljko Ašperger, Krešimir Balenović, Cirila Djordjević, Ivan Filipović, Dragutin Fleš, Stjepan Kukolja, Branko Lovreček, Siniša Maričić, Pavao Mildner, Velimir Pravdić, Dionis Sunko, Zlata Štefanac, Branko Urbas, Velimir Vouk i Otto Weber

*Adresa redakcije i administracije:*

**Z a g r e b, Marulićev trg 19 (pošt. pret. 131)**

---

## **CROATICA CHEMICA ACTA**

*Published by The Croatian Chemical Society  
Official journal of the Croatian Chemical Society  
Official chemical journal of the University of Zagreb  
and of the Croatian Society of Natural Sciences*

### **COMMITTEE OF PUBLICATION**

*Editor:* Božo Težak

*Assistant Editor:* Vilko Tomašić

*Secretary:* Dina Keglević-Brovat

*Members:* Smiljko Ašperger, Krešimir Balenović, Cirila Djordjević, Ivan Filipović, Dragutin Fleš, Stjepan Kukolja, Branko Lovreček, Siniša Maričić, Pavao Mildner, Velimir Pravdić, Dionis Sunko, Zlata Štefanac, Branko Urbas, Velimir Vouk, i Otto Weber.

*Editorial Office:* **19 Marulićev trg (P. O. Box 131)**

**Z a g r e b, Croatia, Yugoslavia**

## INDEKS PO AUTORIMA — AUTHOR INDEX

**RADOVI (O) — KRATKA SAOPĆENJA (S) — LABORATORIJSKE BILJEŠKE (L)**  
**PAPERS (O) — SHORT COMMUNICATIONS (S) — LABORATORY NOTES (L)**

- Balenović, A.:** vidi **Purkayastha, R.**  
**Balenović, K. and Bregant, N.:** Absolute Configuration of 3-Amino-2-methylpropanol (S) . . . . . 67  
**Balenović, K. and Bregant, N.:** Configuration of (+)-Dihydrothymine and Related Compounds (O) . . . . . 103  
**Balenović, K.:** vidi **Štefanac, Z.**  
**Balenović, K.:** vidi **Gašpert, B.**  
**Bregant, N.:** vidi **Štefanac, Z.**  
**Bregant, N.:** vidi **Balenović, K.**  
**Blinč, R., Maričić, S., and Pintar, M.:** A Proton Magnetic Resonance and Infrared Study of Colemanite and Inyoite (O) . . . . . 67  
**Bujak, A.:** vidi **Filipović, I.**  
**Cerkovnik, S.:** vidi **Stavrić, B.**  
**Dadić, M. and Grdenić, D.:** Symmetrical and Mixed Bisalkylmercuric Sulphides (O) . . . . . 39  
**Despotović, Z. and Kamenar, B.:** A Laboratory Apparatus for Single Crystals Preparation by Czochralski method (L) . . . . . 115  
**Despotović, R.:** vidi **Mirnik, M.**  
**Deželić, M., Lacković, A., and Trković, M.:** Polarographische Untersuchung der Pyrrolazomethine (O) . . . . . 31  
**Djordjević, C.:** Magnetic Susceptibilities of Some Square Four-Covalent and Tetragonal Six-Covalent Complexes of Divalent Copper (O) . . . . . 183  
**Filipović, I., Bujak, A., Maruč, M., Novak, R., and Vukičević, V.:** Polarographic Investigations of Some Metal Monocarboxylato Complexes. I. Monocarboxylato Complexes of Lead (O) . . . . . 219  
**Fleš, D.:** vidi **Markovac-Prpić, A.**  
**Gašpert, B., Štefanac, Z., Marušić, R., and Balenović, K.:** Optically Active Trisulphides and Tetrasulphides Related to L-Cystine (O) . . . . . 85  
**Grdenić, D.:** vidi **Dadić, M.**  
**Hlobik, Z., Jungman-Horvat, E., and Maričić, S.:** Decomposition of Sodium Aluminate Solutions. V. Coarse Grained Hydrargillite Seed and Induced Nucleation (O) . . . . . 145  
**Janković, S.:** The Improvement of Accuracy of Some Photocolorimetric Methods for the Determination of Fluorides in Water (S) . . . . . 163  
**Jelinić, I., Lovreček, B., Maričić, S., and Vekšli, Z.:** Electrical Conductivity of Borax (S) . . . . . 111  
**Jendrašić, V.:** vidi **Lovreček, B.**  
**Jungman-Horvat, E.:** vidi **Hlobik, Z.**  
**Kamenar, B.:** vidi **Despotović, Z.**  
**Kisić, A. and Proštenik, M.:** Studies in the Sphingolipids Series. XIX. Note on the Distribution of C<sub>18</sub> and C<sub>20</sub>-Phytosphingosine in Yeast Cerebrin (S) . . . . . 229  
**Kraljić, I.:** Decomposition of Hexacyanoferrate (II) in Analysis. I. A New Spot Test for Silver (O) . . . . . 43  
**Kraljić, I.:** Dekompozicija heksacijanoferata (II) u analizi. II. Dokaz žive s heksacijanoferatom (II) uz neke nitrozo-spojeve (O) . . . . . 103  
**Kukolja, S., and Polak, Lj.:** Substances Acting on the Central Nervous System. I. Derivatives of N-Acyl-2-phenylbutyramide (O) . . . . . 23

II

<b>Kukulja, S.:</b> vidi <b>Polak, Lj.</b>	
<b>Lacković, A.:</b> vidi <b>Deželić, M.</b>	
<b>Lovreček, B. and Jendrašić, V.:</b> Aparatura za mjerenje kapaciteta električnog dvosloja kapajuće elektrode ( <b>L</b> ) . . . . .	59
<b>Lovreček, B.:</b> vidi <b>Jelenić, I.</b>	
<b>Majhofer-Orešćanin, B.:</b> vidi <b>Proštenik, M.</b>	
<b>Marač, M.:</b> vidi <b>Filipović, I.</b>	
<b>Maričić, S. and Pravdić, V.:</b> Electrolysis of Borax, $\text{Na}_2[\text{B}_4\text{O}_5(\text{OH})_4] \cdot 8\text{HO}$ ( <b>S</b> ) . . . . .	231
<b>Maričić, S.:</b> vidi <b>Blinč, R.</b>	
<b>Maričić, S.:</b> vidi <b>Hlobik, Z.</b>	
<b>Maričić, S.:</b> vidi <b>Jelinić, I.</b>	
<b>Markovac-Prpić, A. and Fleš, D.:</b> Synthetic Studies in the Polyene Series. II. Synthesis of 15,15'-Dihydro- $\beta$ -carotene ( <b>O</b> ) . . . . .	91
<b>Markovac-Prpić, A., Fleš, D., and Milohnoja, M.:</b> Synthesis and Resolution of 1-Phenyl-1- <i>o</i> -chlorophenyl-3-dimethylamino-propanol-(1) ( <b>O</b> ) . . . . .	209
<b>Marušić, R.:</b> vidi <b>Gašpert, B.</b>	
<b>Mikuličić, V. und Weber, K.:</b> Über die Luminescenz des Luminols. XII. Die Inhibition der Chemofluorescenz des Luminols ( <b>O</b> ) . . . . .	155
<b>Milohnoja, M.:</b> vidi <b>Markovac-Prpić, A.</b>	
<b>Mirnik, M. and Despotović, R.:</b> The Silver-Silver Iodide Electrode. II. ( <b>O</b> ) . . . . .	139
<b>Mirnik, M.:</b> vidi <b>Pravdić, V.</b>	
<b>Munk-Weinert, M. and Proštenik, M.:</b> Studies in the Sphingolipids Series. XVIII. Synthesis and Resolution of 1-Hydroxy-2-aminoeicosane ( $\text{C}_{20}$ -Sphingine) ( <b>O</b> ) . . . . .	197
<b>Munk-Weinert, M.:</b> vidi <b>Proštenik, M.</b>	
<b>Novak, R.:</b> vidi <b>Filipović, I.</b>	
<b>Palameta, B. and Proštenik, M.:</b> On the <i>erithro</i> and <i>threo</i> -2,3-Dihydroxy-tetracosanoic Acids ( <b>O</b> ) . . . . .	177
<b>Pintar, M.:</b> vidi <b>Blinč, R.</b>	
<b>Polak, Lj. and Kukulja, S.:</b> Substances Acting on the Central Nervous System. II. Derivatives of <i>N</i> -( $\alpha$ -bromoacyl)-2-phenylbutyramide ( <b>O</b> ) . . . . .	151
<b>Polak, Lj.:</b> vidi <b>Kukulja, S.</b>	
<b>Pravdić, V. and Mirnik, M.:</b> Elektrokinetic Studies in Dispersed Systems. IV. The Influence of Surface Active Agents on the Elektrokinetic Potential of AgI Precipitates ( <b>O</b> ) . . . . .	1
<b>Pravdić, V. and Mirnik, M.:</b> Elektrokinetic Studies in Dispersed Systems. V. The Zeta-Potential of AgI Precipitates in Mixed Solvents ( <b>O</b> ) . . . . .	75
<b>Proštenik, M., Majhofer-Orešćanin, B., Munk-Weinert, M., and Ries-Lešić, B.:</b> Studies in the Sphingolipids Series. XII. Structure of the Cerebrin Anhydro Base of Yeast ( $\text{C}_{20}$ -Phytosphingosine Anhydro Base) ( <b>O</b> ) . . . . .	11
<b>Proštenik, M. and Ries-Lešić, B.:</b> Studies in the Sphingolipids Series. XV. Partial Synthesis of Anhydro Cerebrin of Yeast ( <b>O</b> ) . . . . .	133
<b>Proštenik, M.:</b> vidi <b>Ries-Lešić, B.</b>	
<b>Proštenik, M.:</b> vidi <b>Palameta, B.</b>	
<b>Proštenik, M.:</b> vidi <b>Munk-Weinert, M.</b>	
<b>Proštenik, M.:</b> vidi <b>Kisić, A.</b>	
<b>Purkayastha, R. and Balenović, A.:</b> Strecker Degradation of $\alpha$ -Amino Acids with $\beta$ -Phenyl- $\alpha,\beta$ -dioxopropioanilide ( <b>S</b> ) . . . . .	109
<b>Randić, M.:</b> Ligand Field Splitting of <i>d</i> -Orbitals in Eight Coordinated Complexes of Square Antiprism Structure ( <b>O</b> ) . . . . .	189
<b>Ries-Lešić, B.:</b> vidi <b>Proštenik, M.</b>	
<b>Ries-Lešić, B. and Proštenik, M.:</b> Studies in the Sphingolipids Series. XIII. On the Ceramides and Ceramide Ester of $\text{C}_{20}$ -Phytosphingosine and $\text{C}_{20}$ -Phytosphingosine Anhydro Base of Yeast ( <b>O</b> ) . . . . .	17
<b>Ries-Lešić, B.:</b> vidi <b>Proštenik, M.</b>	
<b>Sir Robert Robinson:</b> The Biological Activity and Synthesis of Royal Jelly Acid ( <b>O</b> ) . . . . .	119
<b>Stavrić, B. and Cerkovnikov, E.:</b> Preparation of Some Derivatives of <i>p</i> -Hydroxybenzenesulphonamides. II. Some <i>N</i> -Heterocyclic and Other Derivatives of <i>p</i> -Carboxymethoxybenzenesulphonamide ( <b>O</b> ) . . . . .	203
<b>Štefanac, Z., Bregant, N. and Balenović, K.:</b> Studies in the Muscarine Series. VI. Muscarinic Activity of Some 1,3-Dioxolanes and 1,3-Dithiolanes ( <b>O</b> ) . . . . .	49

- Štefanac, Z.:** vidi **Gašpert, B.**  
**Tišler, M.:** Syntheses and Structure of Some 5-Substituted 2,3-Dihydro-1,2,4-  
triazine-3-thiones (O) . . . . . 123  
**Trkovnik, M.:** vidi **Deželić, M.**  
**Veksli, Z.:** vidi **Jelenić, I.**  
**Vukičević, V.:** vidi **Filipović, I.**  
**Weber, B.:** vidi **Mikuličić, V.**

## SADRŽAJ — CONTENTS

RADOVI (O) — KRATKA SAOPĆENJA (S) — LABORATORIJSKE BILJEŠKE (L)  
 PAPERS (O) — SHORT COMMUNICATIONS (S) — LABORATORY NOTES (L)

FIZIČKA I ANORGANSKA KEMIJA — PHYSICAL AND INORGANIC CHEMISTRY

- Pravdić and M. Mirnik:** Electrokinetic Studies in Dispersed Systems. IV. The Influence of Surface Active Agents on the Electrokinetic Potential of AgI Precipitates (*Elektrokinetičke studije u disperznim sistemima. IV. Utjecaj površinsko-aktivnih supstanci na elektrokinetički potencijal taloga AgJ*) (O) 1
- M. Deželić, A. Lacković and M. Trković:** Polarographische Untersuchung der Pyrrolazomethine (*polarografsko istraživanje pirolazometina*) (O) 31
- M. Dadić and D. Grdenić:** Symmetrical and Mixed Bisalkylmercuric Sulphides (*Simetrični i mješoviti bisalkilmerkurijsulfidi*) (O) 39
- R. Eline, S. Maričić, and M. Pintar:** A Proton Magnetic Resonance and Infrared Study of Colemanite and Inyoite (*Ispitivanje kolemanita i inyoita protonskom magnetskom rezonancijom i infracrvenom spektroskopijom*) (O) 67
- V. Pravdić and M. Mirnik:** Electrokinetic Studies in Dispersed Systems. V. The Zeta-Potential of AgI Precipitates in Mixed Solvents (*Elektrokinetičke studije u disperznim sistemima. V. Elektrokinetički potencijal taloga AgJ u miješanim otapalima*) (O) 75
- M. Mirnik and R. Despotović:** The Silver-Silver Iodide Electrode. II. (*Elektroda srebro-srebrni jodid. II*) (O) 139
- Ž. Hlobik, E. Jungman-Horvat, and S. Maričić:** Decomposition of Sodium Aluminate Solution. V. Coarse Grained Hydrargillite Seed and Induced Nucleation (*Dekompozicija Na-aluminatnih otopina. V. Krupnozrnatohidrargilitno cjepivo i inducirana nukleacija*) (O) 145
- V. Mikuličić and K. Weber:** Über die Luminescenz des Luminols. XII. Die Inhibition der Chemofluorescenz des Luminols (*O luminascenciji luminola. XII. Inhibicija kemofluorescencije luminola*) (O) 155
- C. Djordjević:** Magnetic Susceptibilities of Some Square Four-Covalent and Tetragonal Six-Covalent Complexes of Divalent Copper (*Magnetski susceptibilitet nekih planarnih tetra-koordiniranih i tetragonskih heksa-koordinacije osam u ligandnom polju strukture kvadratične antiprizme*) (O) 189
- M. Randić:** Ligand Field Splitting of *d*-Orbitals in Eight Coordinated Complexes of Square Antiprism Structure (*Cijepanje d-orbitala kompleksa koordinacije osam u ligandnom polju strukture kvadratične antiprizme*) (O) 189
- Lj. Duić, Z. Kovač i B. Lovreček:** Polarographsko određivanje međustepena kod katodnih i anodnih reakcija (*Polarographic Detection of Intermediaries in Cathodic and Anodic Reactions*) (O) 213
- I. Filipović, A. Bujak, M. Marač, R. Novak, and V. Vukičević:** Polarographic Investigations of Some Metal Monocarboxylato Complexes. I. Monocarboxylato Complexes of Lead (*Polarografska istraživanja monokarboksilato-kompleksa nekih metala. I. Olovni monokarboksilato-kompleksi*) (O) 219

ANALITIČKA KEMIJA — ANALYTICAL CHEMISTRY

- I. Kraljić:** Decomposition of Hexacyanoferrate(II) in Analysis. I. A New Spot Test for Silver [*Dekompozicija heksacijanoferata(II) u analizi I. Novi dokaz srebra reakcijom kapi*] (O) 43
- I. Kraljić:** Dekompozicija heksacijanoferata (II) u analizi. II. Dokaz žive s heksacijanoferatom(II) uz neke nitrozo-spojeve [*Decomposition of Hexacyanoferrate(II) in Analysis. II. The Detection of Mercury by Hexacyanoferrate(II) in the Presence of Some Nitroso Compounds*] (O) 103

## ORGANSKA KEMIJA I BIOKEMIJA — ORGANIC CHEMISTRY AND BIOCHEMISTRY

- M. Proštenik, B. Majhofer-Oreščanin, M. Munk-Weinert, and B. Ries-Lešić:** Studies in the Sphingolipids Series. XII. Structure of the Cerebrin Anhydro Base of Yeast ( $C_{20}$ -Phytosphingosine Anhydro Base) [*Studije u redu sfingolipoida. XII. Struktura anhidro-cerebrinske baze iz kvasca ( $C_{20}$ -fitosfingozin anhidro baze)*] (O) . . . . . 11
- B. Ries-Lešić and M. Proštenik:** Studies in the Sphingolipids Series. XIII. On the Ceramides and Ceramide Ester of  $C_{20}$ -Phytosphingosine and  $C_{20}$ -Phytosphingosine Anhydro Base of Yeast (*Studije u redu sfingolipoida. XIII. O ceramidima i ceramidskim esterima  $C_{20}$ -fitosfingozina i  $C_{20}$ -fitosfingozin anhidro baze iz kvasca*) (O) . . . . . 17
- S. Kukolja and Lj. Polak:** Substances Acting on the Central Nervous System. I. Derivatives of *N*-Acyl-2-phenylbutyramide (*Supstance koje djeluju na centralni nervni sistem. I. Derivati N-acil-2-fenilbutiramida*) (O) . . . . . 23
- Z. Štefanac, N. Bregant, and K. Balenović:** Studies in the Muscarine Series. VI. Muscarinic Activity of Some 1,3-Dioxolanes and 1,3-Dithiolanes (*Studije u redu muskarina. VI. Muskarinska aktivnost nekih 1,3-dioksolana i 1,3-ditiolana*) (O) . . . . . 49
- B. Gašpert, Z. Štefanac, R. Marušić, and K. Balenović:** Optically Active Trisulphides and Tetrasulphides Related to L-Cystine (*Optički aktivni trisulfidi i tetrasulfidi, analozi L-cistina*) (O) . . . . . 85
- A. Markovac-Prpić and D. Fleš:** Synthetic Studies in the Polyene Series. II. Synthesis of 15,15'-Dihydro- $\beta$ -carotene (*Sintetske studije u redu poliena. II. Sinteza 15,15'-dihidro- $\beta$ -karotina*) (O) . . . . . 91
- Sir Robert Robinson:** The Biological Activity and Synthesis of Royal Jelly Acid (*Biološka aktivnost i sinteza kiseline izolirane iz matične mliječi*) (O) . . . . . 119
- M. Tišler:** Syntheses and Structure of Some 5-Substituted 2,3-Dihydro-1,2,4-triazine-3-thiones (*Sinteze in struktura nekaterih 5-substituiranih 2,3-dihidro-1,2,4-triazin-3-tionov*) (O) . . . . . 123
- M. Proštenik and B. Ries-Lešić:** Studies in the Sphingolipids Series. XV. Partial Synthesis of Anhydro Cerebrin of Yeast (*Studije u redu sfingolipoida. XV. Parcijalna sinteza anhidro cerebrina iz kvasca*) (O) . . . . . 133
- Lj. Polak and S. Kukolja:** Substances Acting on the Central Nervous System. II. Derivatives of *N*( $\alpha$ -bromoacyl)-2-phenylbutyramide [*Supstance koje djeluju na centralni nervni sistem. II. Derivati N( $\alpha$ -bromacil)-2-fenilbutiramida*] (O) . . . . . 151
- B. Palameta and M. Proštenik:** On the *erythro* and *threo*-2,3-Dihydroxy-tetracosanoic Acids (*O eritro i threo-2,3-dihidroksi-heksakozan kiselinama*) (O) . . . . . 177
- K. Balenović and N. Bregant:** Configuration of (+)-Dihydrothymine and Related Compounds (*Konfiguracija (+)-dihidrotimina i srodnih spojeva*) (O) . . . . . 193
- M. Munk-Weinert and M. Proštenik:** Studies in the Sphingolipids Series. XVIII. Synthesis and Resolution of 1-Hydroxy-2-aminoeicosane ( $C_{20}$ -Sphingine) [*Studije u redu sfingolipoida. XVIII. Sinteza i cijepanje u optičke antipode 1-hidroksi-2-amino-eikozana ( $C_{20}$ -sfingina)*] (O) . . . . . 197
- B. Stavrić and E. Cerkovnikov:** Preparation of Some Derivatives of *p*-Hydroxybenzenesulphonamides. II. Some *N*-Heterocyclic and Other Derivatives of *p*-Carboxymethoxybenzenesulphonamide [*Priprava nekih derivata p-hidroksibenzensulfonamida. II. O nekim N-heterocikličkim i drugim derivatima p-(karboksimetoksi)benzensulfonamida*] (O) . . . . . 203
- A. Markovac-Prpić, D. Fleš, and M. Milohnoja:** Synthesis and Resolution of 1-Phenyl-1-*o*-chlorophenyl-3-dimethylamino-propanol-(1) [*Sinteza i odjeljivanje antipoda 1-fenil-1-o-klorofenil-3-dimetilamino-propanola-(1)*] (O) . . . . . 209

## KRATKA SAOPĆENJA — SHORT COMMUNICATIONS

- K. Balenović and N. Bregant:** Absolute Configuration of 3-Amino-2-methylpropanol (*Apsolutna konfiguracija 3-amino-2-metilpropanola*) (S) . . . . . 57
- R. Purkayastha and A. Balenović:** Strecker Degradation of  $\alpha$ -Amino Acids with  $\beta$ -Phenyl- $\alpha,\beta$ -dioxopropioanilide (*Streckerova degradacija  $\alpha$ -amino-kiselina sa  $\alpha$ -fenil- $\alpha,\beta$ -dioksopropioanilidom*) (S) . . . . . 109

<b>I. Jelenić, B. Lovreček, S. Maričić, and Z. Veksli:</b> Electrical Conductivity of Borax ( <i>Električna vodljivost boraksa</i> ) (S) . . . . .	111
<b>S. Janković:</b> The Improvement of Accuracy of Some Photocolorimetric Methods for the Determination of fluorides in water ( <i>Povećanje tačnosti nekih fotokolorimetričkih metoda za određivanje fluorida u vodi</i> ) (S) . . . . .	163
<b>A. Kisić and M. Proštenik:</b> Studies in the Sphingolipids Series. XIX. Note on the Distribution of C <sub>18</sub> and C <sub>20</sub> -Phytosphingosine in Yeast Cerebrin ( <i>Studije u redu sfingolipoida. XIV. Bilješka o raspodjeli C<sub>18</sub> i C<sub>20</sub>-fitosfingozina u kvaščevu cerebrinu</i> ) (S) . . . . .	229
<b>S. Maričić and V. Pravić:</b> Electrolysis of Borax, Na <sub>2</sub> [B <sub>4</sub> O <sub>5</sub> (OH) <sub>4</sub> ] · 8H <sub>2</sub> O ( <i>Elektroliza boraksa, Na<sub>2</sub>[B<sub>4</sub>O<sub>5</sub>(OH)<sub>4</sub>] · 8H<sub>2</sub>O</i> ) (S) . . . . .	231

## LABORATORIJSKE BILJESKE — LABORATORY NOTES

<b>B. Lovreček i V. Jendrašić:</b> Aparatura za mjerenje kapaciteta električnog dvosloja kapajuće elektrode ( <i>An Apparatus for Double Layer Capacity Measurements on Dropping Mercury</i> ) (L) . . . . .	59
<b>Z. Despotović and B. Kamenar:</b> A Laboratory Apparatus for Single Crystal Preparation by Czochralski Method ( <i>Laboratorijska aparatura za dobivanje monokristala po metodi Czochralskoga</i> ) (L) . . . . .	115

## ISPRAVCI — ERRATA

<b>A. Markovac-Prpić and D. Fleš:</b> Synthetic Studies in the Polyene Series. II. Synthesis of 15,15'-Dihydro-β-carotene ( <i>Sintetske studije u redu poliena. II. Sinteza 15,15'-dihidro-β-karotina</i> ) . . . . .	167
--	-----

## RECENZIJE — BOOK REVIEWS

<b>M. G. Veselov:</b> <i>Elementarna kvantna teorija atoma i molekula</i> (M. Randić) . . . . .	65
<b>W. I. Perelman:</b> <i>Taschenbuch der Chemie. 2. erweiterte Auflage</i> (V. Pravić) . . . . .	117
<b>J. Mathieu et A. Allais:</b> <i>Cahier de Synthèse organique</i> (K. Balenović) . . . . .	169
<b>E. H. Rodd:</b> <i>Chemistry of Carbon Compounds. Vol. IVA</i> (K. Balenović) . . . . .	169
<b>E. H. Rodd:</b> <i>Chemistry of Carbon Compounds. Vol. IVB</i> (K. Balenović) . . . . .	170
<b>O. Neunhoeffer:</b> <i>Analytische trennung und Identifizierung organischer Substanzen</i> (Z. Stefanac) . . . . .	170
<i>Papers from the Conference on Molecular Quantum Mechanics, held at the University of Colorado</i> (M. Randić) . . . . .	233
<i>Gmelins Handbuch der anorganischen Chemie: Silicium</i> (I. Filipović) . . . . .	234
<i>Gmelins Handbuch der anorganischen Chemie: Cadmium</i> (I. Filipović) . . . . .	234
<i>Gmelins Handbuch der anorganischen Chemie: Sauerstoff</i> (I. Filipović) . . . . .	234
<b>J. H. Beynon:</b> <i>Mass Spectrometry and its Application to Organic Chemistry</i> (K. Balenović) . . . . .	235
<b>L. Alders:</b> <i>Liquid-Liquid Extraction</i> (V. Tomašić) . . . . .	235
<b>Mordechai Bobtelsky:</b> <i>Heterometry</i> (V. Tomašić) . . . . .	236

## NEKROLOZI — OBITUARIES

<b>Dr. Stanko Miholić</b> (H. Iveković) . . . . .	172
<b>Prof. Dr. ing. Ivan Brihta</b> (R. Podhorsky) . . . . .	237

## PRILOG — APPENDIX

Redovita godišnja skupština Hrvatskog kemijskog društva za godinu 1960. . . . .	A1
Kalendar Međunarodnih priredbi za kemiju i srodne struke . . . . .	A3
Društveni odbornici . . . . .	A9
Kalendar međunarodnih priredbi za kemiju i srodne struke . . . . .	A10

## BIBLIOGRAPHIA CHEMICA CROATICA

Radovi (Papers) . . . . .	B1, B5
Dissertationes . . . . .	B3, B4 B9