MCC-33 (Univ. Zagreb)
Master of Science Thesis

Croat. Chem. Acta **41** (1969)

Separation of High Boiling Isomeric Compounds by Preparative Gas Chromatography. Isolation and Identification of α-methylstyrene Dimerisation Products

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The dimerization of α-methylstyrene in sulphuric acid results in a mixt. of dimeric isomers, the composition of which is not well known. The gas chromatographic analysis of this mixture by Aitken gave four incompletely sepd. peaks, but it was not known which dimers gave rise to particular peaks.

In this work the sepn. as well as identification of α-methylstyrene dimers by gas chromatographic methods was achieved. The complete sepn. of the dimeric products is obtained on Apiezon L column (1/8″ × 6 ft, column temp. 200° C, carrier gas nitrogen). Six well sepd. peaks were obtained in the dimeric fraction. The isolation of each component was carried out on the preparative gas chromatographic column (3/8″ × 50 ft) with silicon rubber SE 30 on Chromosorb A and nitrogen as carrier gas at 240° C. The structure of the isolated compounds was detd. by means of KOVATS' retention indices. The indices increments ΔI and δI for investigated and model compds. were detd. on monpolar SE 30 and Apiezon L columns and polar Emulphor O column. On the basis of obtained results the compn. of α-methylstyrene dimerization products is as follows: (1) *cis*-2,4-diphenyl-4-methyl-2-pentene (?), (2) 1,1,3-trimethyl-3-phenylindane, (3) 2,4-diphenyl-4-methyl-1-pentene, (4) *trans* (?)-2,4-diphenyl-4-methyl-2--pentene, (5) ketone, aldehyde or ester, (6) ether.

The analysis of each component by N. M. R. spectrometry confirmed these results. The component (5) was identified by ir., uv., and org. microanalysis as 1,3-diphenyl-3-methyl-2-butanone. The further identification of component (6) failed due to the instability of this compound.

The thesis was reported in part at *1st Yugoslav Symposium on Gas Chromatography*, Zagreb, April 10—12, 1968, and partly published: *J. Chromatog.* **38** (1968) 326, *Chimia* **22** (1968) 434.
Examiners: Dr. Dj. Deur-Šiftar, Prof. S. Borčić, and Prof. S. Ašperger.
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Thesis deposited at the Farmaceutical-biochemical Faculty, University of Zagreb.

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MCC-33 (Univ. Zagreb)

1. Separation of High Boiling Isomeric Compounds by Preparative Gas Chromatography. Isolation and Identification of α-methylstyrene Dimerisation Products

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II. Organsko kemijska industrija, OKI, Zagreb, Croatia, Yugoslavia

Gas chromatography, preparative scale
α-Methylstyrene dimers, separation, identification
Retention indices

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Z. Naturforsch. b **23** (1968) 1219.

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Chemistry Department, Brookhaven National Laboratory, Upton, New York 11973

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Department of Physical Chemistry, Institute »Ruđer Bošković«, Zagreb, Croatia (Yugoslavia)

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Atlantic Regional Laboratory, National Research Council of Canada, Halifax, Nova Scotia, Canada

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Department of Chemistry, The University of Texas, Austin, Texas 78712

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Department of Food Science and Technology, University of Massachusetts, Amherst, Mass. 01002

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Boris Kidrič Institute of Nuclear Sciences, Vinča-Beograd and Faculty of Science, The University of Zagreb, Yugoslavia

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Department of Chemistry, University of Wisconsin Madison, Wisconsin 53706

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Institut für Strahlenchemie, Kernforschungszentrum Karlsruhe

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Tracer Laboratory, Institute »Ruđer Bošković«, Zagreb, Yugoslavia

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Mikrochim. Acta (1969) 16.

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Institute »Ruđer Bošković«, Zagreb, Yugoslavia

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Tracer Laboratory, Department of Organic Chemistry and Biochemistry, Institute »Ruđer Bošković«, Zagreb, Yugoslavia

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Department of Chemistry, Princeton University, Princeton, New Jersey 08540

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Department of Chemistry, Clarkson College of Technology, Potsdam, New York 13676

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J. Polymer Sci. Part A—1 **7** (1969) 1153.

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Department of Chemistry, Clarkson College of Technology, Potsdam, New York 13676

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J. Colloid Interface Sci. **29** (1969) 187.

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Tracer Laboratory, Institute »Ruđer Bošković«, Zagreb, Yugoslavia

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J. Phys. Chem. **73** (1969) 564.

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BCC-722

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J. Colloid Sci. **29** (1969) 163.

BCC-723

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Institute »Ruđer Bošković«, Zagreb, Yugoslavia

On the Relation Between Electrical Conductivity and Phase Transition of Non-Stoichiometric Cuprous Selenides

J. Phys. Chem. Solids **30** (1969) 149.

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M. Picer
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Mjerenje ukupne beta-radioaktivnosti u prirodnim vodama novom metodom uparavanja

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BCC-726

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Department of Physical Chemistry, Institute »Ruđer Bošković«, Zagreb, Croatia (Yugoslavia)

Logarithmic Analysis of Two Overlapping d. c. Polarographic Waves. I. Reversible and Totally Irreversible Processes

J. Electroanal. Chem. **22** (1969) 243.

BCC-727

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J. Electroanal. Chem. **22** (1969) 422.

BCC-728

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Laboratory of Analytical and Physical Chemistry, Institute for Medical Research, Yugoslav Academy of Sciences and Arts, Zagreb, Croatia, Yugoslavia

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Anal. Chim. Acta **44** (1969) 309.

BCC-730

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Counterion Complexing and Sol Stability. II. Coagulation Effects of Aluminium Sulfate in Acidic Solutions

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BCC-731

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Contribution au Dosage Photocolorimétrique du Gallium dans la Bauxite avec le Rhodamine B

Chim. Anal. **51** (1969) 121.

BCC-732

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J. Heterocyclic Chem. **6** (1969) 53.

BCC-734

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J. Inorg. Nucl. Chem. **31** (1969) 1771.

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Radiat. Res. **37** (1969) 478.

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A Semi-empirical Investigation of the Annulenes

J. Mol. Struct. **3** (1969) 395.

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Increase in Detection and Resolution Power in TLC by Means of Heating During Development

J. Chromatogr. **39** (1969) 81.

BCC-738

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