



TECHNICAL SECTION

May 1957 Volume 5, Number 5

PESTICIDES

- Pesticide Toxicity, Effect of Low Dietary Levels of Parathion and Systox on Blood Cholinesterase of Dogs
J. P. Frawley and H. N. Fuyat 346
- Pesticide Determination, Chemical Determination of Perthane Residues on Agricultural Crops
J. R. W. Miles 349
- Pesticide Residues, Determination of Organic Chlorides and Residues from Chlorinated Pesticides by Combustion Analysis
J. A. Hudy and C. L. Dunn 351

PLANT NUTRIENTS AND REGULATORS

- Zinc Determination, Determination of Zinc in Plants and Soils
E. T. Verdier, W. J. A. Steyn, and D. J. Eve 354
- Yeast Analysis, Spectrophotometric Semimicrodetermination of Ergosterol in Yeast
O. N. Breivik and J. L. Owades 360

FERMENTATION/NUTRITION

- Rumen Microbiology, Characteristics of Free Rumen Cellulases
J. W. Gill and K. W. King 363

NUTRITION

- Toxic Plant Products, Colorimetric Determination of Beta-Aminopropionitrile in Mature Legume Seeds
J. T. Garbutt and G. M. Strong 367
- Growth Rate Effects, Antibiotic Growth Stimulation of Rats Fed Raw Soybean Oil Meal
Raymond Borchers, Djahanguir Mohammad-Abadi, and J. M. Weaver 371
- Protein Supplementation, Influence of Addition of Certain Amino Acids and Vitamin B₁₂ to Proteins in Enriched Milled Wheat Flour on Growth, Protein Efficiency, and Liver Fat Deposition
Barnett Sure 373

NUTRITION/FOOD PROCESSING

- Nutrients in Coffee, Nutritional Evaluation of Coffee Including Niacin Bypass
L. J. Teply and R. F. Prier 375

FOOD PROCESSING

- Forage Analysis, Effect of Cold Storage on the Fluoride Content of Alfalfa
C. P. McCarty and Elmer Robinson 377
- Antioxidant Determination, Determination of 2,6-Di-*tert*-butyl-*p*-cresol in Edible Fats by Ultraviolet Spectrophotometry
M. A. Phillips and R. D. Hinkel 379

No. 12
Advances in Chemistry Series

edited by the staff of
Industrial & Engineering
Chemistry

Use of Sugars and other Carbohydrates in the Food Industry

17 papers—142 pages devoted to a better understanding of the ways in which our largest single dietary constituent—the carbohydrates—contributes to the physical and chemical nature, as well as the nutritional quality and acceptability, of our foods.

- The Role of Sugar in the Food Industry
Starches in the Food Industry
Liquid Sugar in the Food Industry
Starch Hydrolyzates in the Food Industry
Pectic Substances in the Food Industries
Carbohydrates in Confections
Sugar in Confectionery
Sugar and Other Carbohydrates in Carbonated Beverages
Sugars in the Canning of Fruits and Vegetables
Sugars in the Baking Industry
Sugar and Other Carbohydrates in Meat Processing
Sugar in Frozen Foods
Effects of Carbohydrates and Other Factors on Color Loss in Strawberry Products
Role of Carbohydrates in Infant Feeding
Role of Sweeteners in Food Flavor
Sugars in Human Nutrition
Sugars in Standardized Foods

Paper bound . . . \$3.00 per copy

Order from:

Special Publications Dept.
American Chemical Society
1155 16th St., N.W.
Washington 6, D. C.