

PRODUCTS AND PROCESSES

Enzyme System Removes Glucose in Egg Drying

The enzyme system glucose oxidase and catalase in an all-soluble form has been formulated by Takamine Laboratory, Inc. The material is available in an all-soluble, powdered form in commercial quantities. The solid product supplements the more dilute liquid preparation marketed about a year ago.

The enzyme system is now used, principally, to remove the glucose from egg whites, yolks, and whole eggs prior to drying. Takamine people believe that eventually their product will find many applications wherever browning due to Maillard type reactions occur or oxidative problems exist in the food and canning industry. **P1**

Acetylated Monoglycerides

Sample quantities of acetylated monoglycerides are available from Distillation Products Industries. The glycerides, which are results of work begun by the Southern Regional Research Laboratory of USDA, are being

investigated for possible use as mold release agents and plasticizers for various polymers. DPI is making them available in two forms for pilot plant production. One form is aceto-olein prepared from lard, the other is a partially acetylated monostearin prepared from hydrogenated lard.

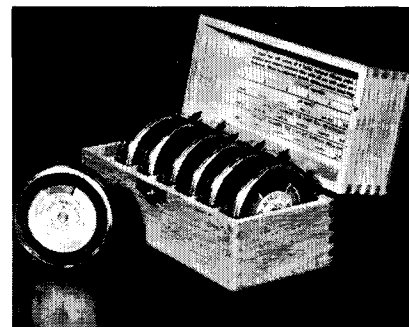
The acetylation sharpens and lowers the melting point of the fats. Unsaturated aceto-olein is considerably more stable than the fat from which it was produced and remains a clear liquid at 10° C.

The partially acetylated and fully saturated form is reported by DPI to melt between 43° to 45° C. At this level of acetylation, the material is claimed to have exceptionally good flexibility down to temperatures as low as 0° C. as compared to the brittleness observed in hard fats. **P2**

Short Range pH Indicating Papers

A kit of six short range indicating papers which divide the pH scale into half units from 1 to 14 and permits esti-

mation of quarter units is available from the chemical division of Fisher Scientific Co. In practice the indicators are used with a long range pH paper which indicates the general region of the pH.



Having found the approximate value, the chemist refines his readings by using the appropriate short range paper. **P3**

Versatile Rodenticide Acts as Insecticide, Fungicide, Too

Pival, an anticoagulant rodenticide with insecticidal and fungicidal properties has been approved for general sale, under an experimental permit granted by the Department of Agriculture. The rodenticide is produced by Motomco Inc.

Motomco plans to offer Pival in a 0.5% concentrate for professional use to pest control operators and to bait manufacturers for use in agricultural and industrial markets.

The manufacturers claim that Pival (2 pivalyl-1,3 indione) is effective as a rodent exterminator in baits at a concentration of 1 part in 4000. The insecticidal and fungicidal properties are supposed to protect the bait against mold and insect infestation.

The company has a test project developing a water-soluble form of the material as a rodenticide for the grain industry. **P4**

Miticide Formulations

Two formulations of Aramite miticide, Aratron-25W and Aratron-25E, have been developed by Eston Chemicals division of American Potash and Chemical Co. The former is a wettable powder containing 25% Aramite and is recommended for dusting operations. The 25E formulation is an emulsifiable concentrate for sprays. **P5**

Butter Flavoring

A heat-stable, artificial butter flavoring has been developed by Triad Laboratories. It is supposed to have 400 times the strength of butter and is offered for industrial uses in shortening, oleomargarine, baking and applications where flavor is important. **P6**

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