

Proceedings of the Iowa Academy of Science

Volume 36 | Annual Issue

Article 62

1929

Some Physico-Chemical Studies of Organo-Metallic Compounds

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Recommended Citation

Gilman, Henry; Heck, L. L.; and Leermakers, J. A. (1929) "Some Physico-Chemical Studies of Organo-Metallic Compounds," *Proceedings of the Iowa Academy of Science*, 36(1), 270-270.
Available at: <https://scholarworks.uni.edu/pias/vol36/iss1/62>

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tertiary alcohols; and the lability and relative electronegativities of radicals.

IOWA STATE COLLEGE,
AMES, IOWA.

A STUDY IN THE RING STRUCTURE OF METHY-
LATED SUGARS

CARRELL A. WHITNAH

The report will show that methylation of glucose with methyl sulphate and sodium hydroxide, if carried out at lower temperatures and in less alkaline solutions than usually employed, yields methylated gamma glucoside.

The value of (1) the rate of oxidation by potassium permanganate and (2) the acid concentration required for hydrolysis, as tests for gamma glucosides, will also be discussed.

STATE UNIVERSITY OF IOWA,
IOWA CITY, IOWA.

SOME PHYSICO-CHEMICAL STUDIES OF ORGANO-
METALLIC COMPOUNDS

HENRY GILMAN, L. L. HECK, and J. A. LEERMAKERS

The physico-chemical properties such as molecular weight, conductivity, and absorption spectra have been determined with a miscellany of organometallic compounds in connection with studies on their dissociation, and their constitution. Also, their reactions toward oxygen, nitrous oxide, hydrogen (catalytic with *platinum*) have been investigated for the same purpose as well as to test electronic structures proposed for the constitution of nitrous oxide and organometallic compounds.

IOWA STATE COLLEGE,
AMES, IOWA.