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Documentary as indicated. requested.) (Information specifically

RECENTLY PUBLICATED RESEARCH OF THE IVANOVO INSTITUTE OF CHAPTCAL TECHNOLOGY USER (II)

"Synthesis of N-(2-naphthyl) nitroamines," V. F. Rorodkin and S. I. Burmistrov (Ivanovo Chem Tech Inst)

"Zhur Obshch Khim" Vol 17, 1947, pp 63-6

Nitroamines were reacted with 2-naphthol as follows: 2-naphthol and the nitroamine in a 1:2.5 molecular ratio were heated to 160-80° and treated with 0.5 molecular nitroamine-HCl; heating was continued until HCl evolution ceased. Cooled mass was exhaustively extracted with Etg0; the extract was washed with 10% NaOh, then 10% NAT; evaporation of the Etg0 gave the product. Only nitroamines having a meta configuration of the MO2 and NH2 groups give satisfactory yields of the secondary amines. Increase of the molecular ratio of nitrosmine to the naphthol favors the yield of the secondary amine, with best results at about 1:3 molecular ratio.

"Sulfonating by Sults of Sulfurous Acid: XII. Action of Some Derivatives of Sulfurous Acid on Aniline," S. V. Bogdanov and N. N. Karandasheva (Tvanovo Chem Tech Inst)

"Zhur Obshch Khim" Vol 17, 1947, pp 87-94

PhNH2 can be sulfonated by £2503.200; HON(SO3K)2, and Hella sulfite. Synthesis procedures with each described.

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"Benzyl 2- and 4-methoxy-1-maphthyl Ketones and Phenyl 2- and 4-methoxy-1-maphthyl Diketones," S. I. Burmistrov and E. A. Shilov (Ivanovo Chem Tech Inst)

"Zhur Obshch Khim" Vol 17, 1947, pp 1684-7

PhCE2CO2H was heated on a steam bath with FC13, the cooled mixture treated with CS2, and the solution gradually added with ics-cooling to AlCl3 suspended in CS2 containing 1-MeC10H3 mixture then decomposed with ice and organic layer distilled with steam. Residue was heated with soda solution and the insoluble matter, on orystallization from EtOH, gave bensyl 4-methoxy-1-maphthyl ketone and its picrate. This heated with SeO2 in Ac2O gave Fh 4-methoxy-1-maphthyl diktsone; this gives a quinoxaline on heating with ortho-C6H2(NH2)2, while oxidation with H2O2 in aqueous pyridine gave BzOH and 4-methoxy-1-maphthoic soid. Latter acid treated with SCC12, then FhNH2, gave the antiide. Diketone heated with ortho-C6H2(NH2)2 in pyridine and several drops of concentrated H1, gave 2-phenyl-3-(4-methoxy-1-maphthyl)-quinoxaline. Resection of PhCH2COC1 with MeCG10H7 similarly give bensyl 2-methoxy-1-maphthyl ketone. Ketone on caidation with SeO2 gave phenyl 2-methoxy-1-maphthyl diketone, which gives a red color with Na in EtOH sclution, the color vanishing on shaking, then reappearing; oxidation gave 2-methoxy-1-maphthoic acid.

The Mechanism of Hydrolysis of Chlorine, "E. A. Shilov and S. N. Solldushenkov (Ivanovo Chem Tech Inst)

"Zhur Fiz Khim" Vol 21, 1947, pp 1159-61

Contrary to Morris the hydrolysis of Cl in water cannot be due to reaction with OH ions because reaction constant increases during an experiment although th OH concentration decreases.

- END -

