

Bulletin of the Academy of Sciences of the USSR Division of Chemical Science 1970 vol.19 N12,
pages 2675-2677

Reaction of dimethyl ester of 1-phenyl-2-acetyl-2-carbethoxyethylphosphonic acid with hydroxylamine hydrochloride and phenylhydrazine

Arbuzov B., Dianova E., Vinogradova V.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

1. The dimethyl ester of 1-phenyl-2-acetyl-2-carbethoxyethylphosphonic acid reacts with hydroxyl-amine hydrochloride at room temperature to give the dimethyl ester of 1-phenyl-2-carbethoxy-3-hydroxyl-amino-2-butylenephosphonic acid, while when heated on the water bath the corresponding oxime is formed. 2. The corresponding phenylhydrazone was obtained when the dimethyl ester of 1-phenyl-2-acetyl-2-carbethoxyethylphosphonic acid was reacted with phenylhydrazine. © 1971 Consultants Bureau.

<http://dx.doi.org/10.1007/BF00854941>
