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THE SYNTHESIS OF (N-METYLOL-(1-CARBOXIFERROTSENIL) CARBOXAMIDE)

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ABSTRACT

The present article deals with the importance and use of ferrocene and some of its derivatives, the possibility of urea derivatives as a fertilizer and biostimulator in agriculture, and informs that the synthesis (N-methylol- (1`-carboxyferrocenyl) carboxamide), its physicochemical analyses, the structure of these derivatives have been studied using IQ-spectrometry, mass spectrometry methods.

KEYWORDS: Ferrocene, Ferrocencarboxylic Acid, Monomethylo-Mochevina, Ferrocerone, IQ-Spectrometry, Mass Spectrometry.

REFERENCES:

- **1.** Lemenovsky D.A., Levitsky M.M. // Russian Chemical Journal (Journal of the Russian Chemical Society named after D.I. Mendeleev). 2000. T. XLIV, issue 6. S. 63-86.
- 2. Askarov I.R. Ferrocene derivatives. Fergana, 1999 .-- 205 p.
- **3.** Tulakov NK, Kirgizov Sh.M. Obtaining water-soluble ferrocene // Current problems of chemistry and innovative technologies in its teaching. Materials of the Republican scientific-practical conference. TDPU. 2016. 5. 158.
- **4.** Khozhimatov MM Synthesis and classification of ferrocene and methyl urea derivatives: Doctor of Philosophy (PhD) dissertation in Chemistry. Fergana, 2018. 129 p.
- **5.** Askarov IR, Tulakov NK Sh.M.Kirgizov. Ferrocencarboxylic acid synthesis // Scientific Bulletin. Andijon.-2014.-№4.-B. 22-25.

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- **6.** Tulakov NK Synthesis and classification of some derivatives of ferrocencarboxylic acid: Thesis of the Doctor of Philosophy (PhD) in Chemistry: Fergana, 2018. 133 p.
- 7. Madumarov TA, Askarov IR, Kirgizov SM, Isaev YT, Tulakov NK Ecological dust biostimulants // Scientific Bulletin Scientific Bulletin, 2010. No. 2. P.27 29.
- **8.** L.A.Kazitsyna, N.B.Kupletskaya. Applications of UV, IR, NMR and mass spectroscopy in organic chemistry. 2nd edition. Ed. Moscow State University. 1979. p. 127, 210, 211, 215.