



DOI: **10.5958/2249-7137.2021.01152.6**

**SYSTEMATIC ANALYSIS OF FORMALIN PRODUCTION ON THE
EXAMPLE OF WELL-KNOWN FOREIGN COMPANIES AND JSC
"NAVOIAZOT"**

Pulotova Mokhira Rakhmatiloevna*; **Jurayev Uchkun Yusuf ugli****;
Norkulov Intizor Odiljonovich***; **Rustamov Shakhzod Sirojiddin ugli******;
Saparboyev Ruzimboy Kadamboy ugli*****

*Independent Researcher,
Teacher of the Department of Automation and Control of Technological Processes and,
Production of the Tashkent Institute of Irrigation and,
Agricultural Mechanization Engineers Bukhara branch,
UZBEKISTAN

^{2,5}Students of the Department of Automation and Control of Technological Processes and,
Production of the Tashkent Institute of Irrigation and,
Agricultural Mechanization Engineers Bukhara branch,
UZBEKISTAN

ABSTRACT

Currently, formalin is gaining more and more practical importance as a very valuable intermediate product on the way of obtaining various organic compounds and polymeric materials with a wide variety of properties. The world consumption of formalin is growing all the time. Today, there is a significant deficit of formalin, both in the domestic market and in the markets of foreign countries. In this regard, there is a need to create new production facilities, as well as reconstruction (expansion) and modernization of existing production facilities. The article presents an analysis of several technological schemes for the production of formalin.

KEYWORDS: *Formalin, Methanol, Alcohol Evaporator, Reactor, Absorber Pumps, Steam Generator, Circulating Coolant Pump, Collector Of The Coolant, Water Pump.*

REFERENCE

1. Nakrokhin B.G., Nakrokhin V.B. Formalin production technology from methanol. - Novosibirsk, 1995. -- 444 p.
2. Makhlai V.N., Afanasyev S.V. Introduction to the chemistry of urea-formaldehyde concentrate. - Togliatti: Publishing house of Togliatti Polytechnic. in-ta, 2001. - 114 p.
3. Obtaining low-methanol concentrated solutions of formaldehyde / Gritsan V.I. and etc.; Scientific and technical news. - 2005. - No. 10-11. - S. 27.
4. Catalytic production of formaldehyde from methanol under conditions
5. recycling of waste gases Petrik V.N. and others; Chemical industry. - 1990. - No. 5. - S. 10-13.
6. Arifjanov A. Sh., Nabiev O. M. Problems of domain modeling in the design of information and analytical systems. Bulletin of the Kyrgyz National Technical University. I. Razzakova, Bishkek, 2010, -S. 124-128.
7. Arifjanov A. Sh., Kulmurodov A.B. Tyu A. V. Development of basic software and mathematical support for local environmental monitoring systems for industrial enterprises. Oliy ukuv yurtlari akhboroti, fanlari technique, no. 3, 2000, pp. 52-55
8. Arifjanov A. Sh. Automated control systems for technological processes in water management: Textbook. - Tashkent, TIM, 2017.-136 p.
9. A. Sh. Arifjanov. Packages used in automation. Textbook. - Tashkent, TIIMSKh, 2018
10. Pulotova Mokhira Rakhmatilloyna¹, Bozorov Prim Raimovich, Optimization and advanced control for thermal cracking processes. Modern materials, technique and technology magazine. 2 (10) 2017.5-10 Art. <https://cyberleninka.ru/article/n/optimization-and-advanced-control-for-thermal-cracking-processes/viewer>
11. Arifjanov A. Sh. Information and analytical technologies for monitoring and control in energy systems. Proceedings of the XI International Asian School - Seminar "Problems of Optimization of Complex Systems", July 27-August 7, 2015, part 1, Issyk-Kul Lake, Kyrgyz Republic, 2015, pp. 56-64.
12. Pulotova Mokhira Rakhmatilloyna. Optimization and control of chemical processes. International human calculation journal research [www.journalsresearchparks.org / index.php / IJHCS](http://www.journalsresearchparks.org/index.php/IJHCS) e-ISSN: 2615-8159 | p-ISSN: 2615-1898 Volume: 02 Issue: 01 | Apr-May 2020
13. Pulotova Mohira Rahmatilloeyevna, Namozov Shohrukh Ilyos OGLi, Muinov Ulugbek Bahtiyerovich. Application of MatLab system for performance of laboratory works on the subject of the theory of automatic control. Bulletin of Science and Education. Issue 10-2 (64)
14. M.R.Pulotova. Identification of discrete systems by the quasilinearization method and nonparametric identification methods. 2020. Modern instrumental systems, information technologies and innovations. Pages. 241-244.
15. Kislyak GA Project of Formin Production Workshop: A Review of the Final Qualifying Work. - Tomsk: Tomsk Polytechnic University, 2000. - 304 p.

16. Ivanov GN Fundamentals of design and equipment of organic synthesis enterprises: Textbook on diploma design - Tomsk: Tomsk Polytechnic University Press, 1991. - 112 p.
17. Permanent technological regulations for the production of formalin at the Tomsk Petrochemical Plant "Formalin and Carbose Plant".
18. Ogorodnikov KS Formaldehyde. - L .: Chemistry, 1984. - 328 p.
19. Gutnik SP, Sosonko VE, Gutman VD Calculations on Organic Synthesis Technology: Textbook. pension. - M: Chemistry 1988. - 272 p.
20. Lebedev NN Chemistry and basic organic and petrochemical synthesis technology: A textbook for universities. 4th Edition, Revised and Enlarged. - M .: Chemistry, 1988. - 592 p.