

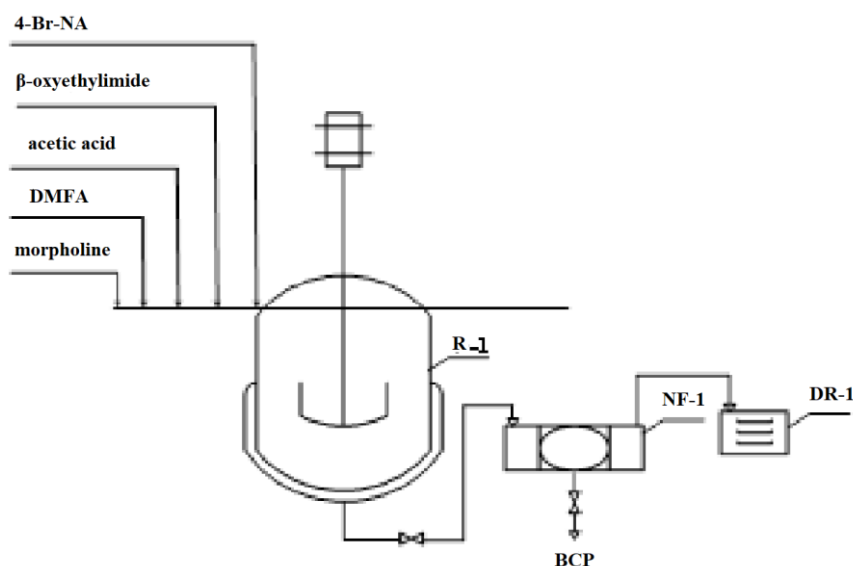
## DEVELOPMENT OF TECHNOLOGICAL SCHEME 4-MORPHOLINONAPHTHALIMIDE PRODUCTION

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As is well known, chemical industry has a great need for 4-morpholinonaphthalimides, as well as for other dialkylamine derivatives, to solve many problems in science and technology. In this regard, studies of their production technology unification by a one-stage method were conducted [1]. Developed method has significant advantages over existing two-stage method.

Taking this into account, the goal of our work was to develop a technological scheme for their production using example of obtaining 4-morpholino-[N-( $\beta$ -oxyethylamino)]-naphthalimide.



Basic technological scheme for obtaining 4-morpholino-  
of [N-( $\beta$ -oxyethylamino)]-naphthalimide by one-stage method.

where: R-1 – reactor for obtaining 4-morpholino-[N-( $\beta$ -oxyethylamino)]-naphthalimide; NF-1 – nutsche filter; DR-1 - dryer.

As can be seen from the above mentioned, technological scheme of one-stage synthesis does not involve any complications, when implementing it in production. And in the case of its implementation, you can use standard equipment, that is produced in Ukraine.

### References:

1. Дістанов В.Б., Кадочкіна В.В., Фалалєєва Т.В., Мироненко Л.С. Модифікація способу отримання 4-морфолінонафталімідів // Матеріали VIII Міжнародної науково-практичної конференції «Хімія, біо- і нанотехнології, екологія та економіка в харчовій та косметичній промисловості». – 2020. – Харків. – С. 159-164.