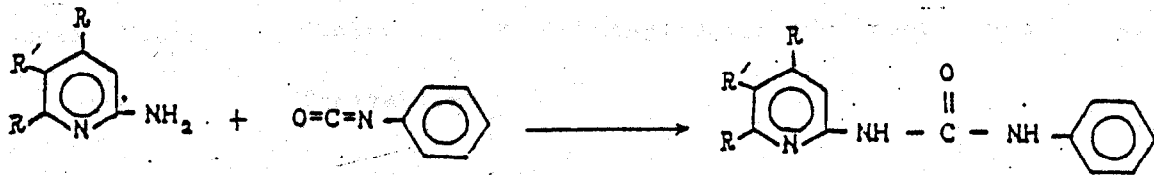


Synthesis of 1-phenyl-3-(2-pyridyl)urea and some derivatives was carried out by the reaction of appropriate 2-aminopyridines with phenylisocyanate. From these reactions were synthesized 1-phenyl-3-(2-pyridyl)urea, 1-phenyl-3-(4,6-dimethyl-2-pyridyl)urea and 1-phenyl-3-(5-chloro-2-pyridyl)urea by reacting 2-aminopyridine, 2-amino-4,6-dimethylpyridine and 2-amino-5-chloropyridine with phenylisocyanate in dry acetone.



2-aminopyridine

phenyl isocyanate

1-phenyl-3-(2-pyridyl)urea $\text{R}=\text{R}'=\text{H}$

or its derivatives

1-phenyl-3-(4,6-dimethyl-

2-pyridyl)urea

$\text{R}=\text{CH}_3, \text{R}'=\text{H}$

1-phenyl-3-(5-chloro-2-

pyridyl)urea

$\text{R}=\text{H}, \text{R}'=\text{Cl}$

From the described reaction it was found that the yields of products were as follows : 1-phenyl-3-(2-pyridyl)urea 69.95%, 1-phenyl-3-(4,6-dimethyl-2-pyridyl)urea 73.03% and 1-phenyl-3-(5-chloro-2-pyridyl)urea 62.82% . All three compounds synthesized above are new compounds.