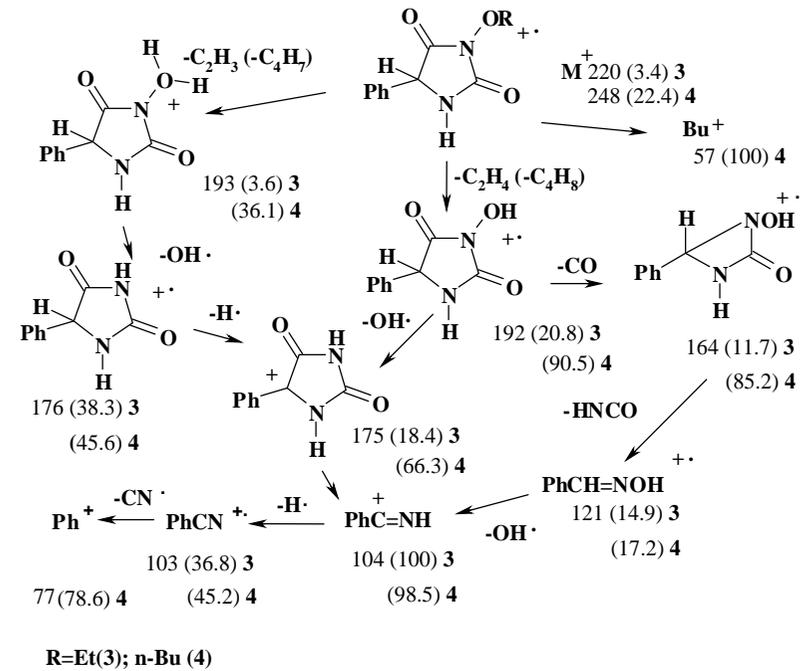


5 [5] (20°) (4).  
 89 - 91 % 5  
 4

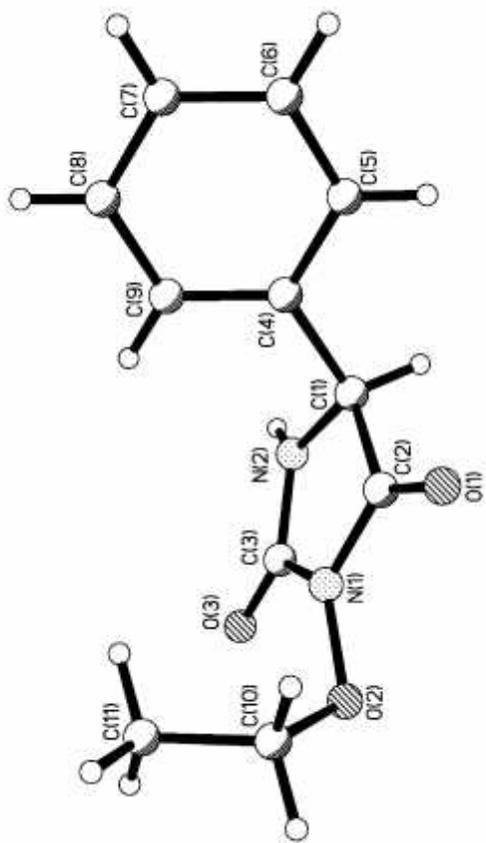
N- 1 3- -5- 3.  
 1, 3- 5,03 . . NH- 3 4  
 6,43-6,45 . .  
 m/z  
 193, 192, 176, 175, 164, 121, 104, 103, 77.  
 (m/z 193); (m/z 176)  
 (1- -5- ) m/z 175.  
 ( 5).

3 ( ).  
 0.091(3) Å. N(1)  
 357.4(2)°. O(2)-C(10)  
 83.0(2)°. C(10)-O(2)-N(1)-C(2)  
 O(2)-C(10)-C(11) 65.1(3)°. N(1)-  
 (1)- (1) ( H(1)-C(1)-C(4)-C(5) 31°),  
 N(2)...H(9) 2.61 Å ( 2.66 Å [1]).  
 (0 1 0) N(2)-  
 H(2N)...O(3)' (1-x,-1/2+y,1/2-z) (H...O 2.22(3) Å, N-H...O 136(3)°).



|            |          |           |          |           |          |             |          |
|------------|----------|-----------|----------|-----------|----------|-------------|----------|
| O(1)-C(2)  | 1.201(2) | N(1)-C(3) | 1.412(2) | C(4)-C(9) | 1.380(3) | C(8)-C(9)   | 1.399(4) |
| O(2)-N(1)  | 1.379(2) | N(2)-C(3) | 1.323(3) | C(4)-C(5) | 1.381(3) | C(10)-C(11) | 1.399(4) |
| O(2)-C(10) | 1.447(3) | N(2)-C(1) | 1.453(3) | C(5)-C(6) | 1.372(4) |             |          |
| O(3)-C(3)  | 1.216(2) | C(1)-C(4) | 1.510(3) | C(6)-C(7) | 1.349(4) |             |          |
| N(1)-C(2)  | 1.368(3) | C(1)-C(2) | 1.523(3) | C(7)-C(8) | 1.380(5) |             |          |

|                 |          |                  |          |                |          |
|-----------------|----------|------------------|----------|----------------|----------|
| N(1)-O(2)-C(10) | 111.7(2) | C(2)-N(1)-O(2)   | 123.7(2) | C(2)-N(1)-C(3) | 113.3(2) |
| O(2)-N(1)-C(3)  | 120.4(2) | C(3)-N(2)-C(1)   | 113.9(2) | N(2)-C(1)-C(4) | 114.6(2) |
| N(2)-C(1)-C(2)  | 102.0(2) | C(4)-C(1)-C(2)   | 111.3(2) | O(1)-C(2)-N(1) | 126.6(2) |
| O(1)-C(2)-C(1)  | 128.7(2) | N(1)-C(2)-C(1)   | 104.7(2) | O(3)-C(3)-N(2) | 130.4(2) |
| O(3)-C(3)-N(1)  | 124.0(2) | N(2)-C(3)-N(1)   | 105.6(2) | C(9)-C(4)-C(5) | 118.9(2) |
| C(9)-C(4)-C(1)  | 122.0(2) | C(5)-C(4)-C(1)   | 119.1(2) | C(6)-C(5)-C(4) | 121.0(3) |
| C(7)-C(6)-C(5)  | 120.5(3) | C(6)-C(7)-C(8)   | 120.1(3) | C(7)-C(8)-C(9) | 119.9(3) |
| C(4)-C(9)-C(8)  | 119.6(3) | O(2)-C(10)-C(11) | 113.7(2) |                |          |



1. 3

3-

N-

N-

D

5-

- 1,2-

3-

-4,5-

5

( 6).

7.

N-

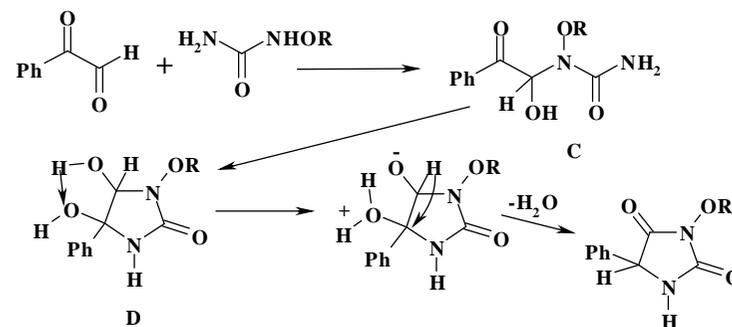
3-

E

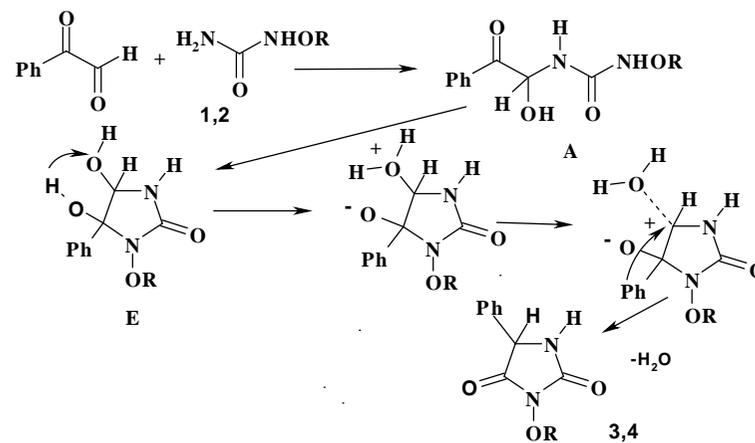
H<sub>2</sub>O c

1,2-

Ph-



6



7

<sup>1</sup>H

Varian VXP-300

300

δ, . . . ; J, .

