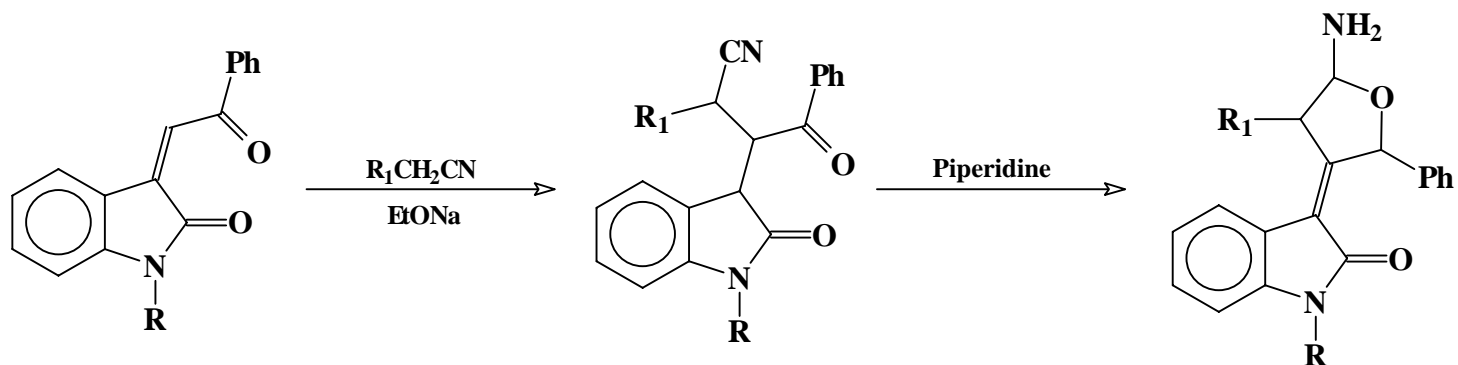


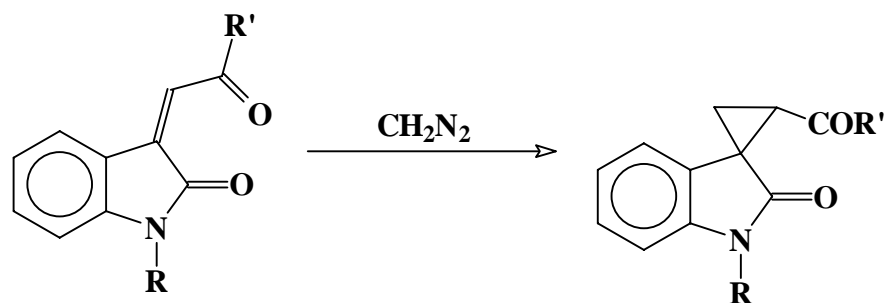
**SUPPLEMENTARY MATERIAL 2**  
**SYNTHETIC METHODS USING ISATIN AND DERIVATIVES**

*Substituted indoles*



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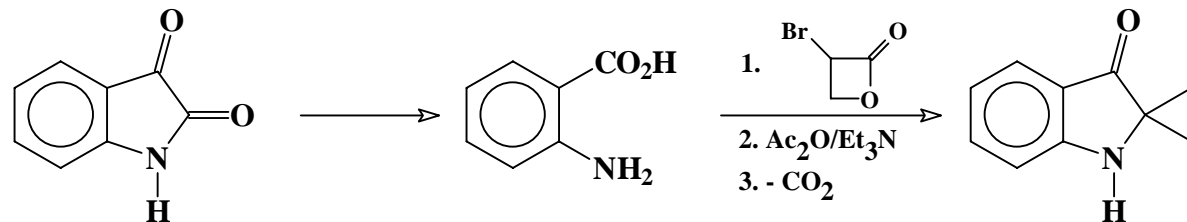
*Spiroindoles*



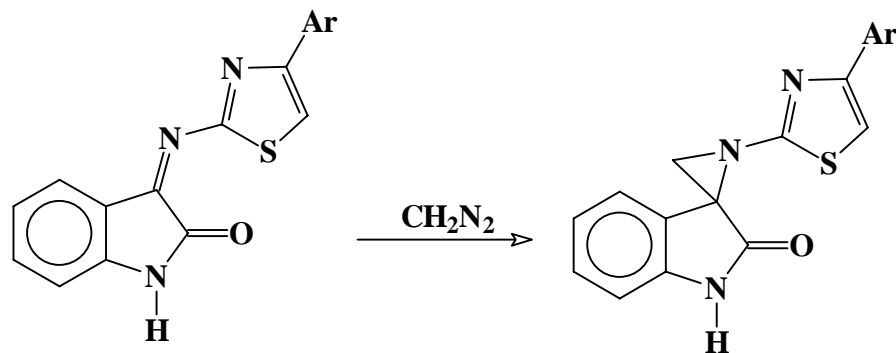
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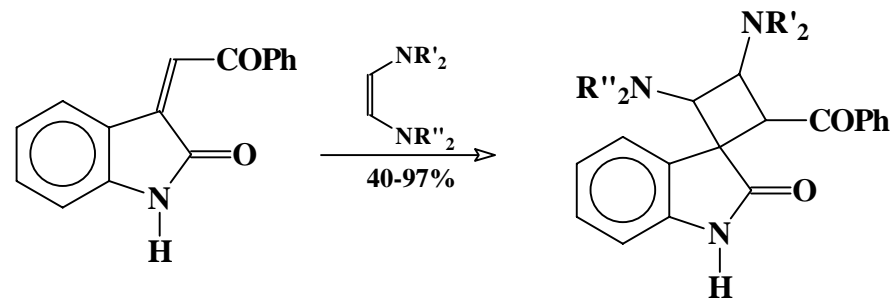
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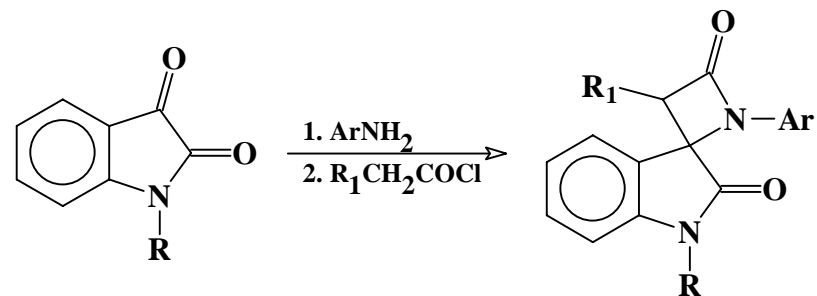
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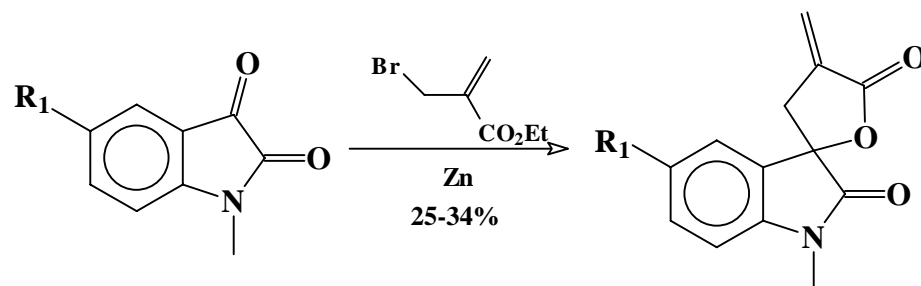
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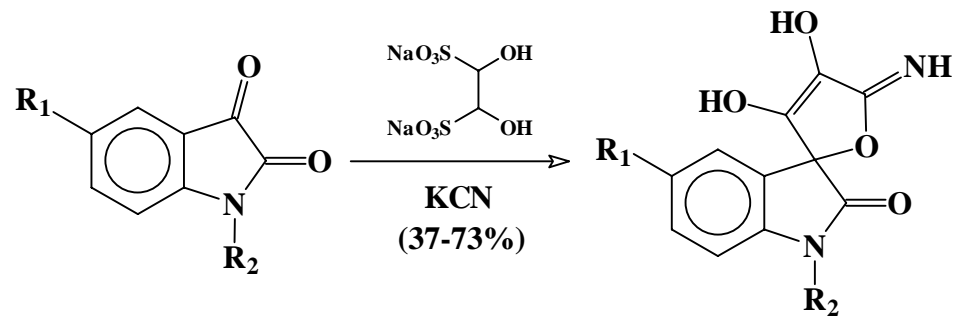
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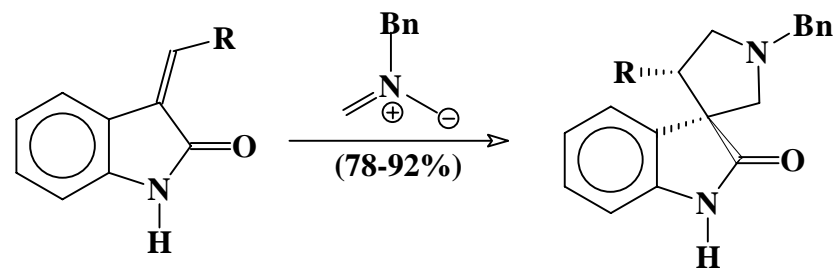
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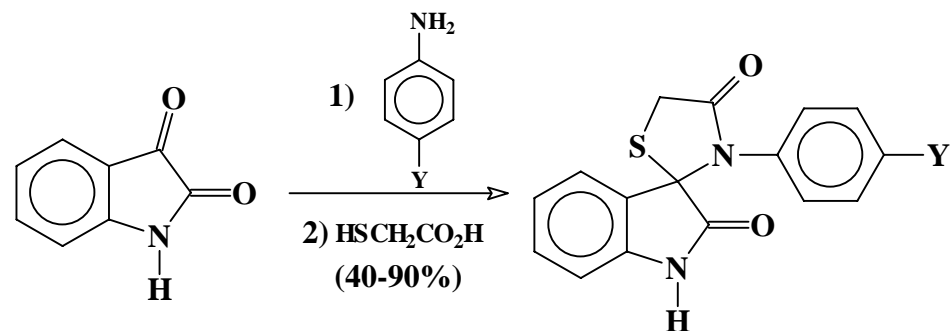


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$\text{R} = \text{NO}_2, \text{CO}_2\text{Me}$

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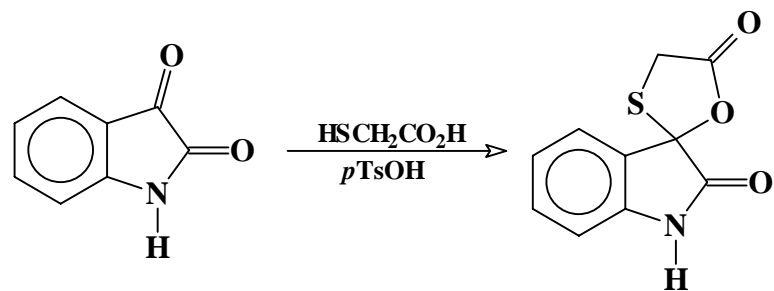
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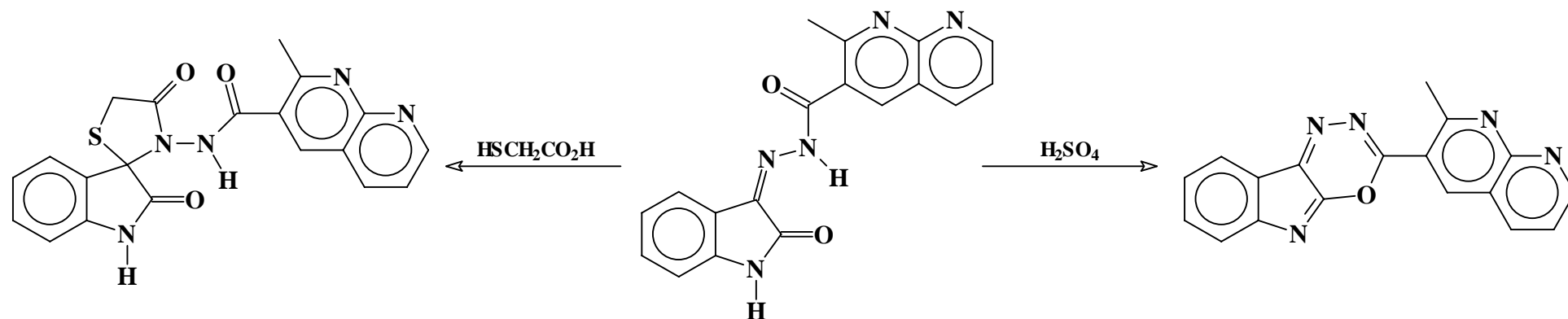
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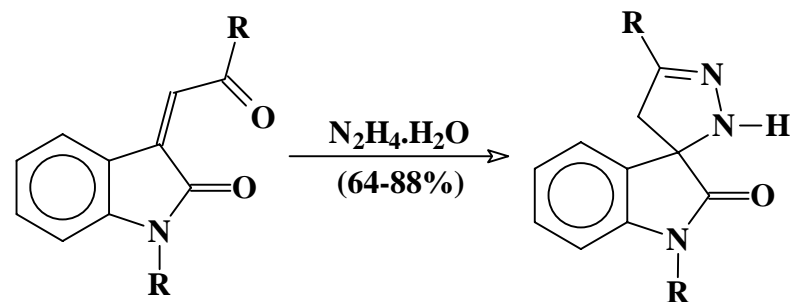
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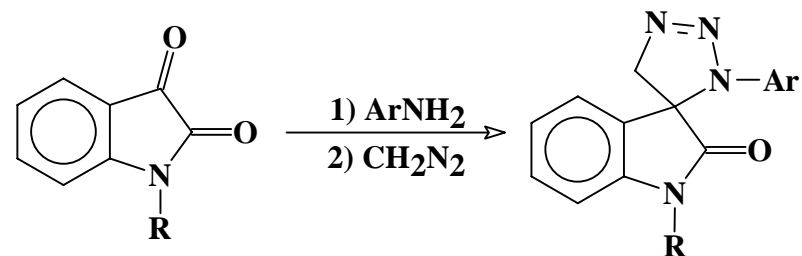
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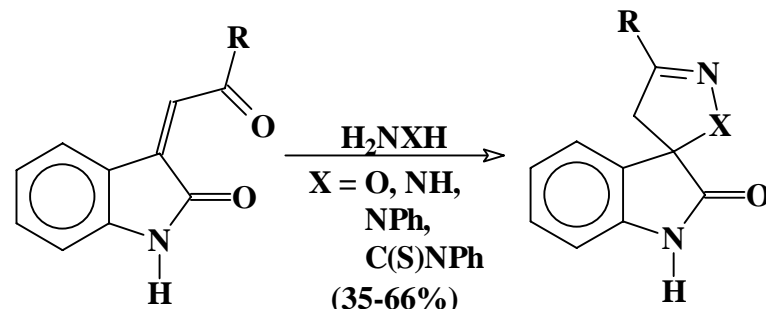
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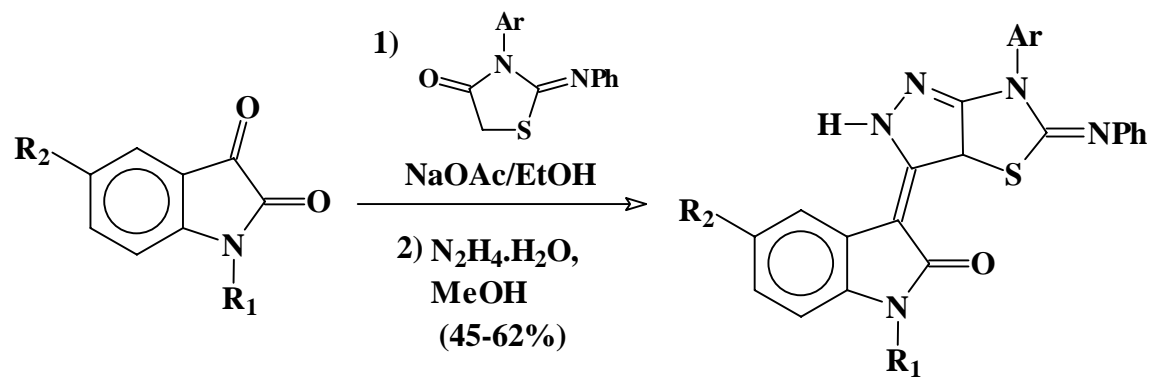


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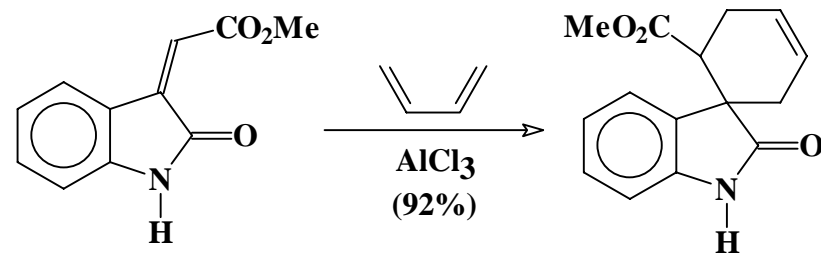
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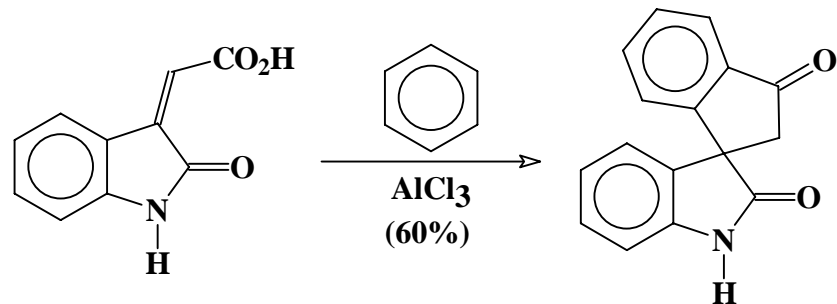
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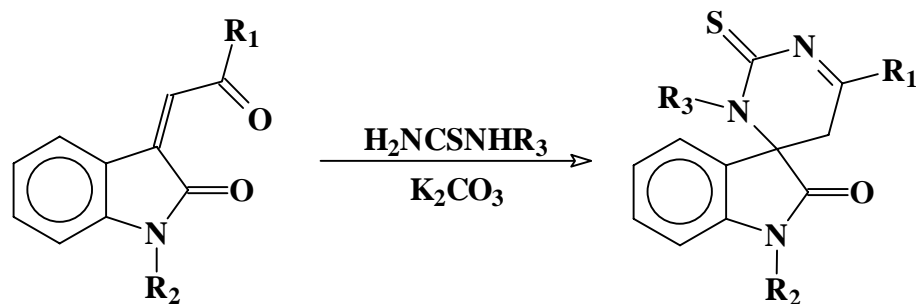
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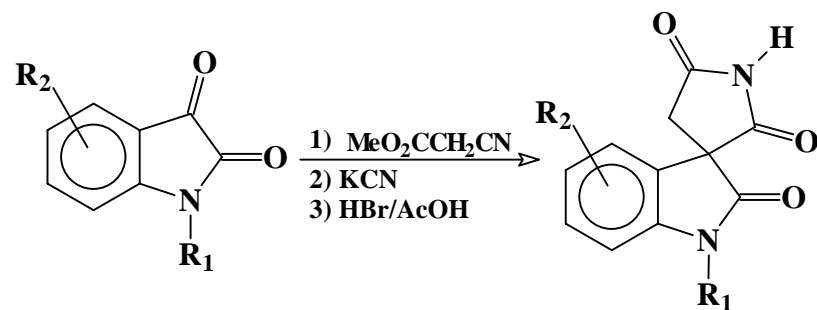
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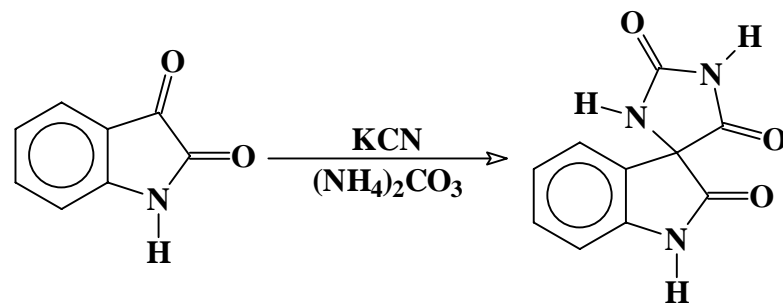


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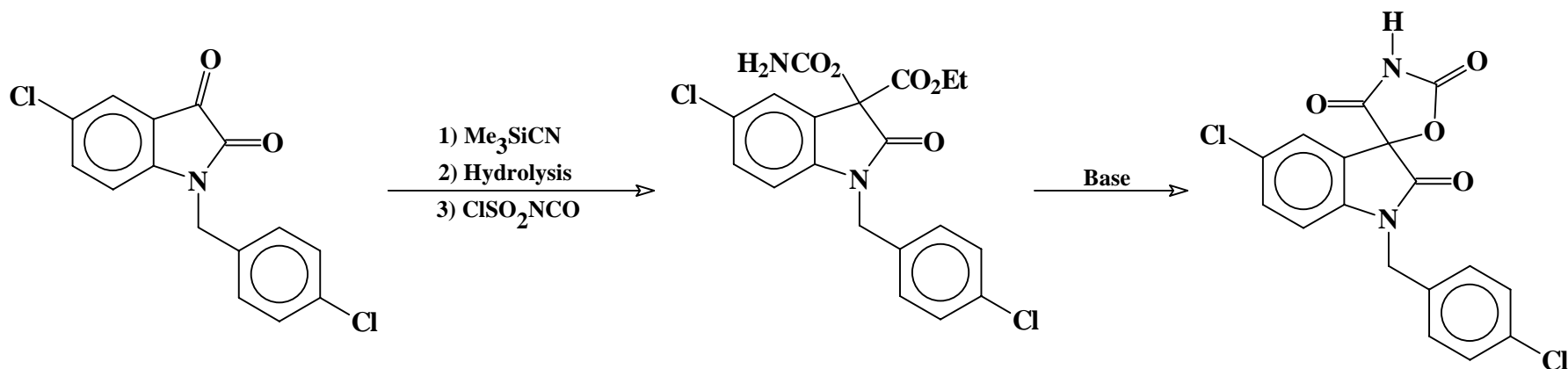
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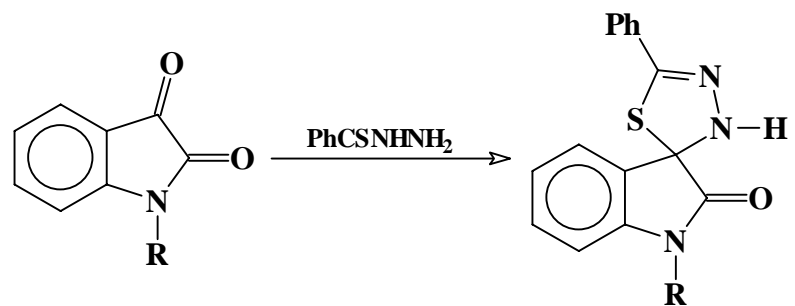




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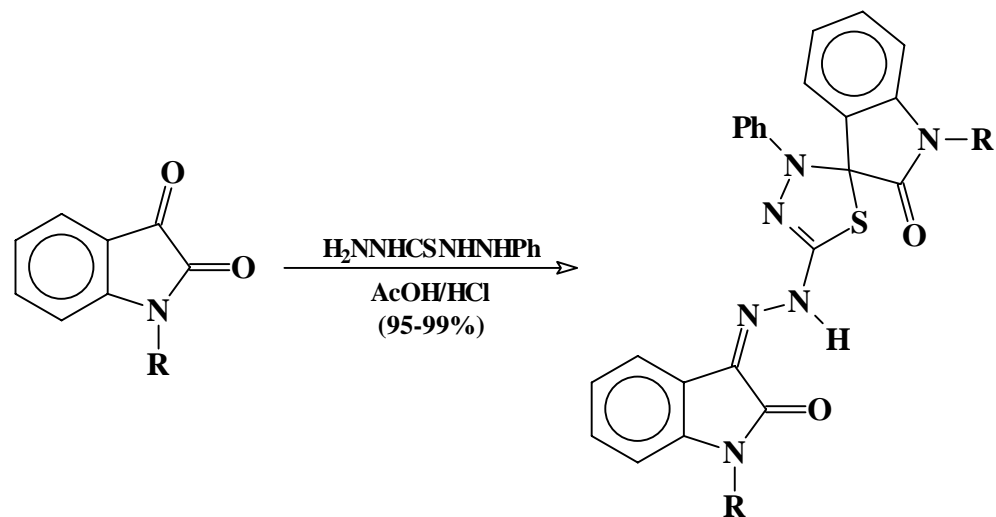


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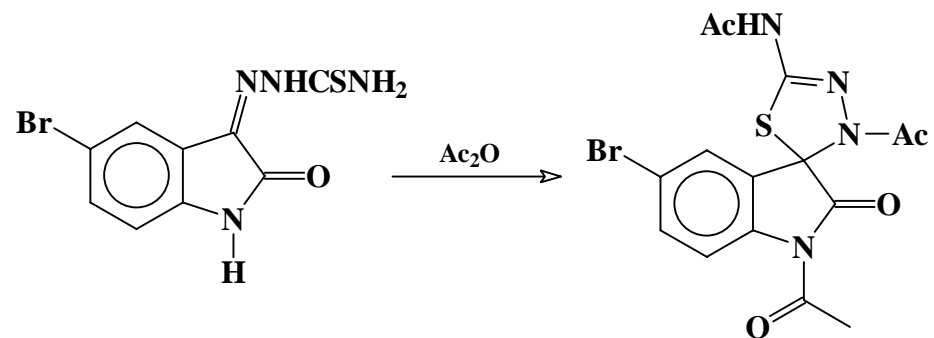


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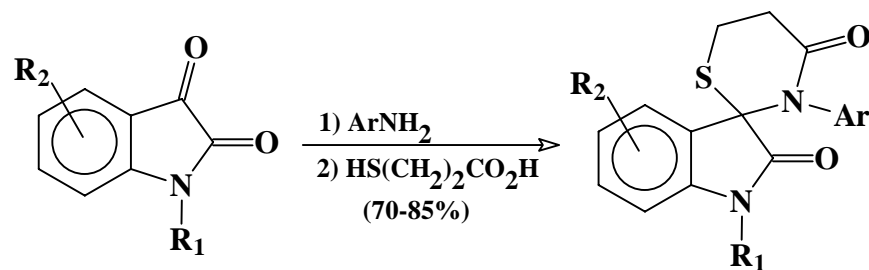
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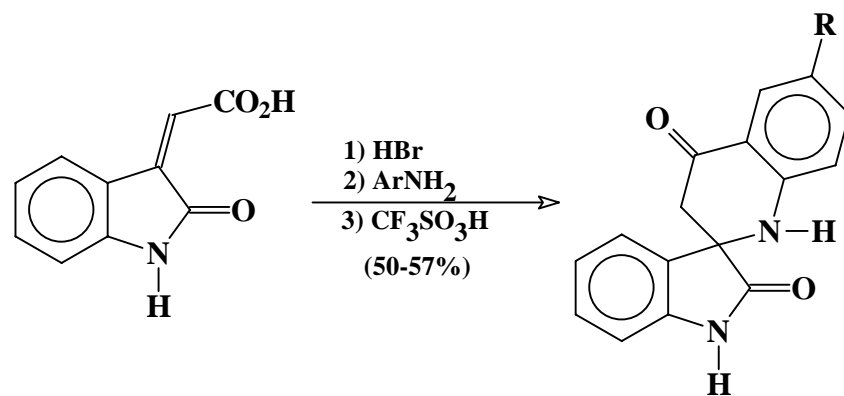
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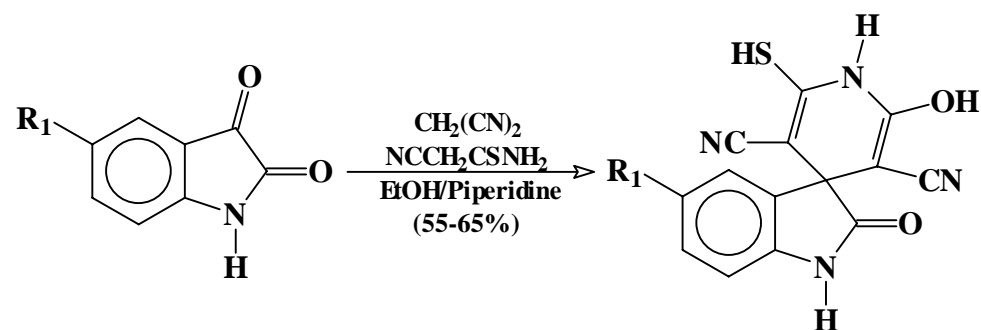
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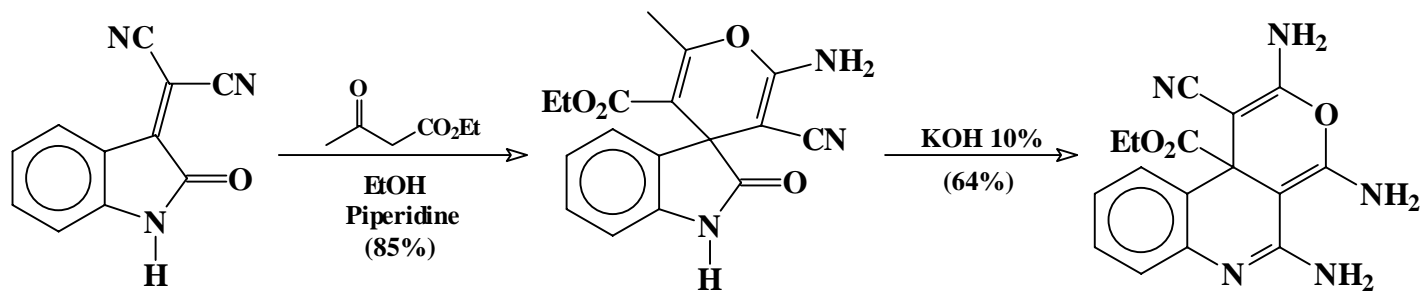
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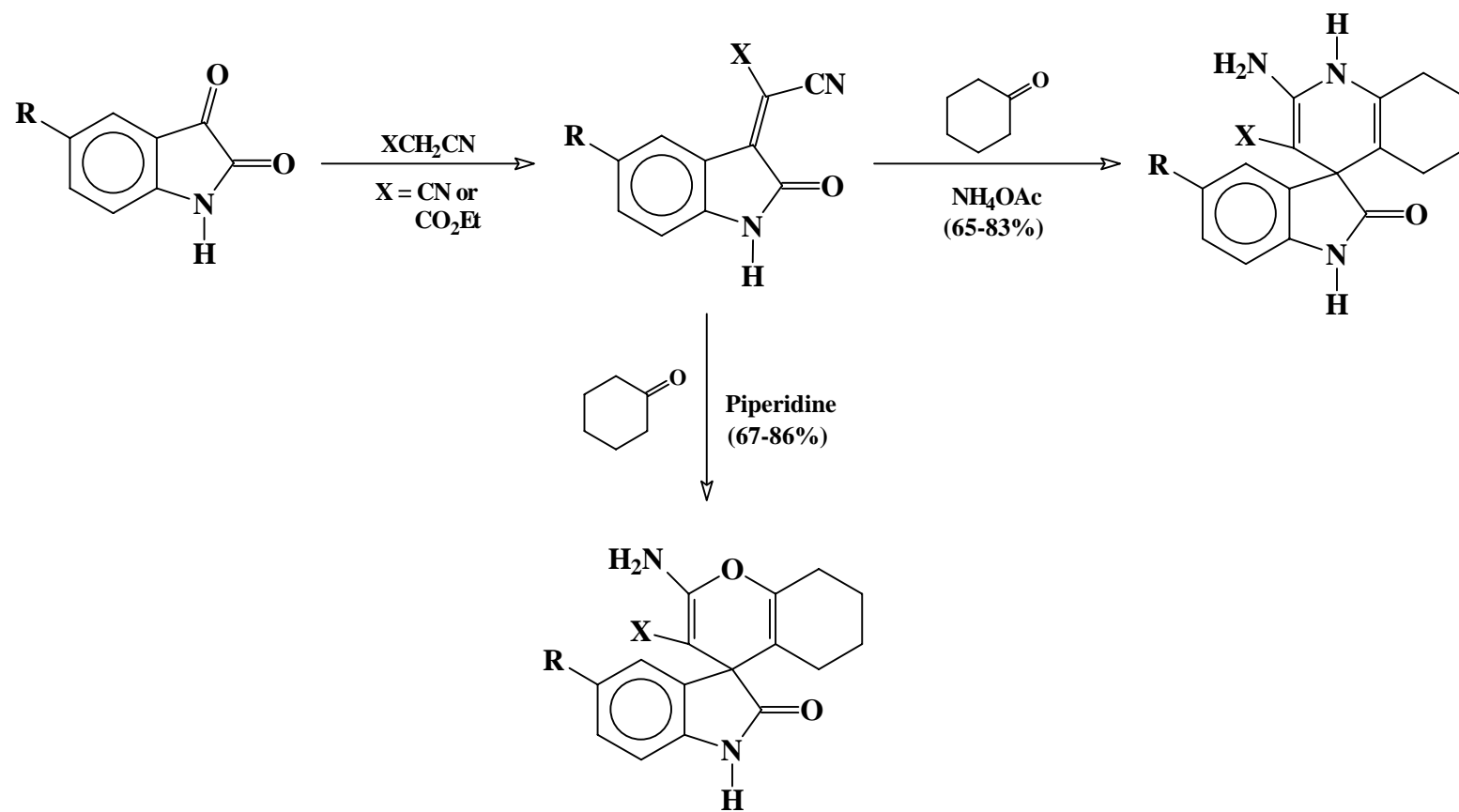
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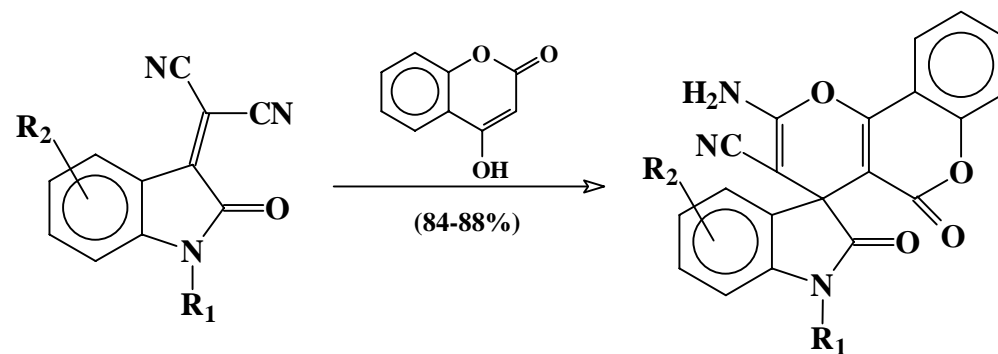
Abdel-Latif, F.F. *Phosph. Sulfur Silicon* **1990**, 53, 145



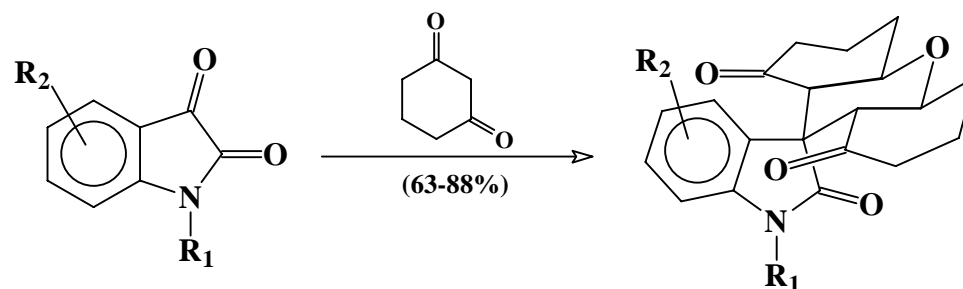
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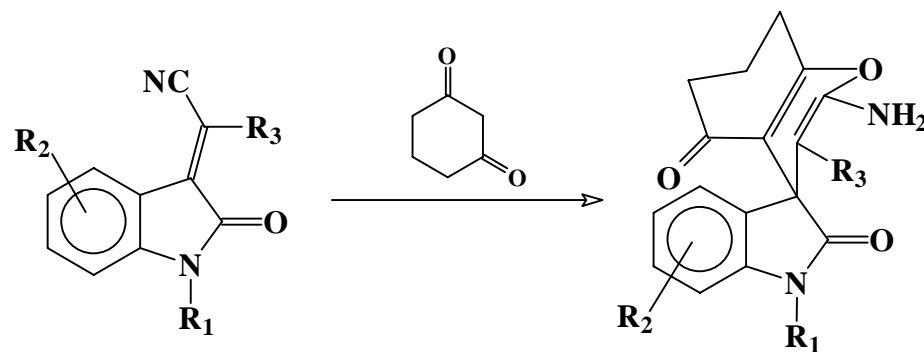
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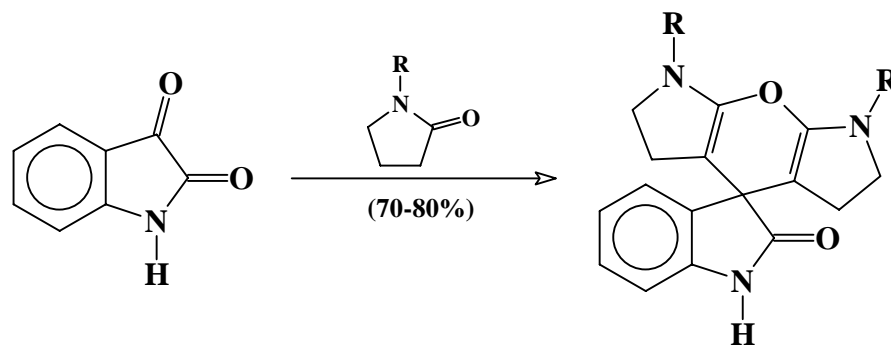
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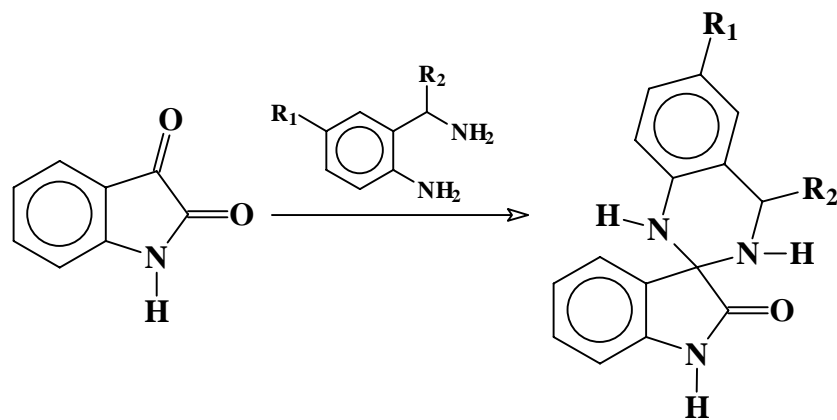
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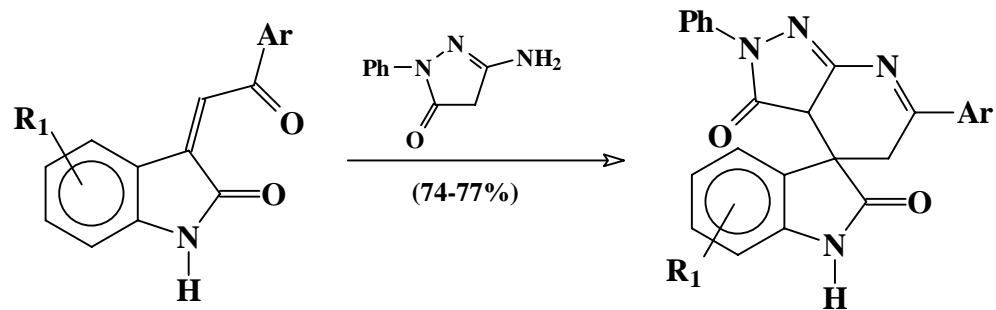


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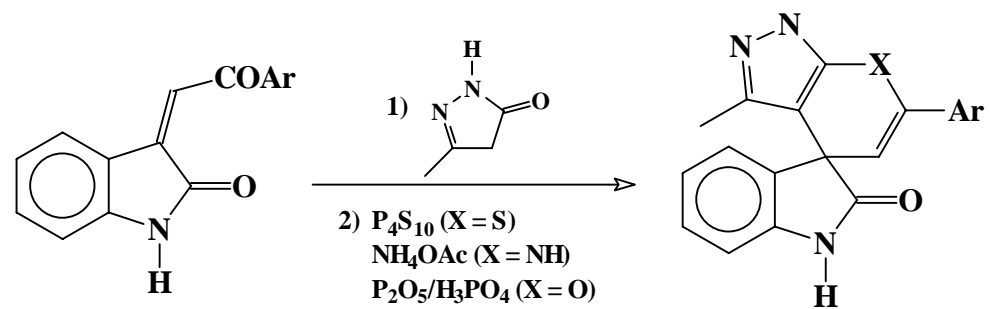


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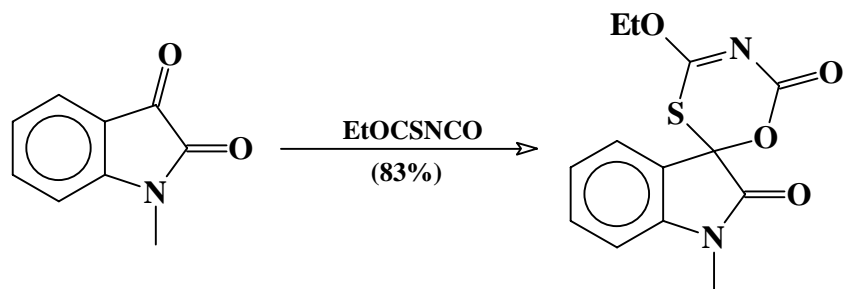
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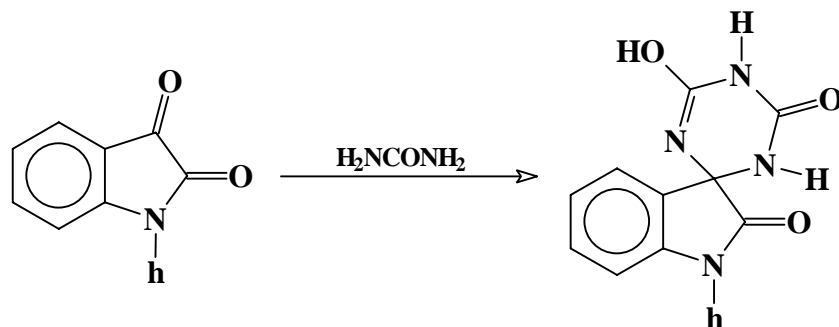


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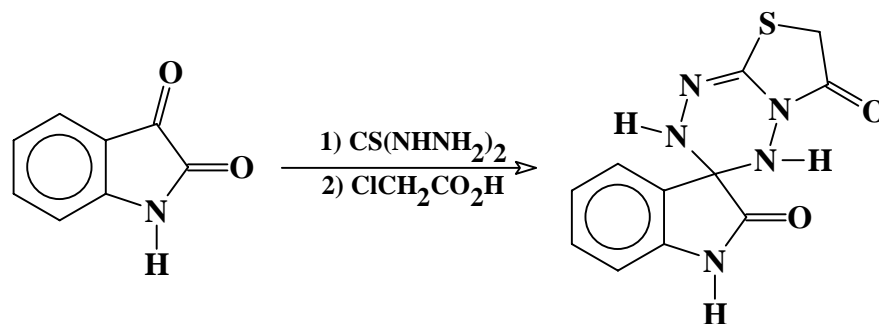


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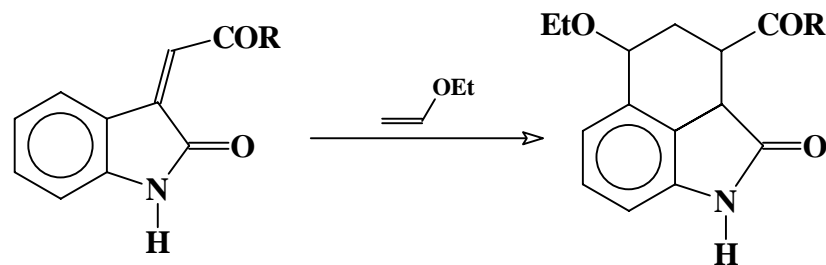


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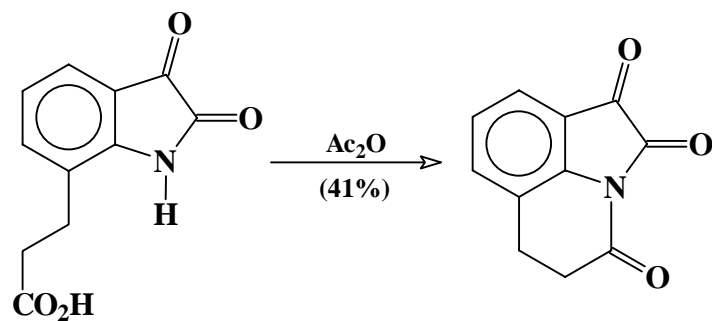


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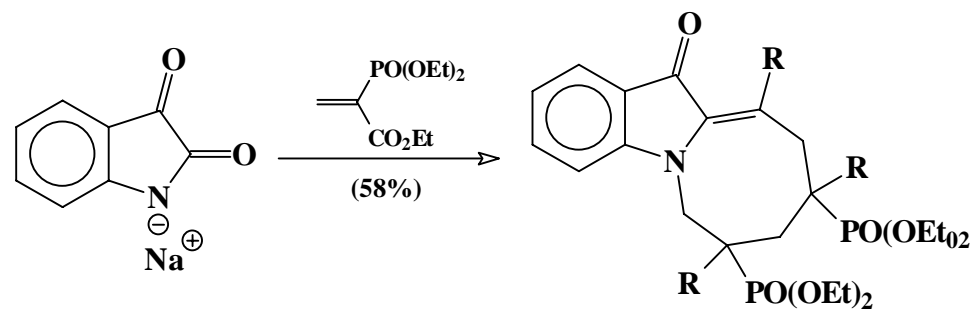
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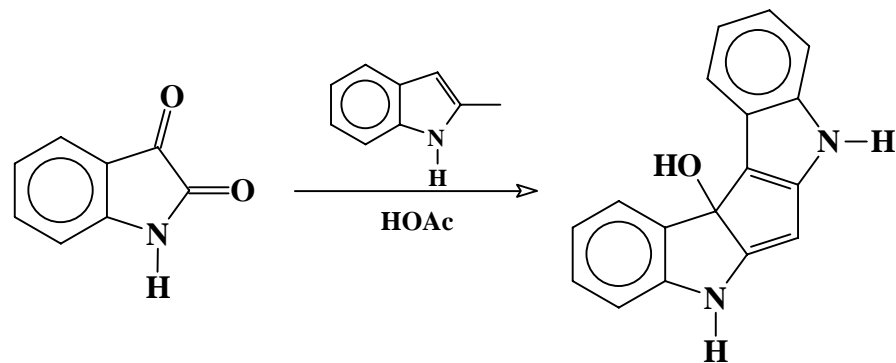
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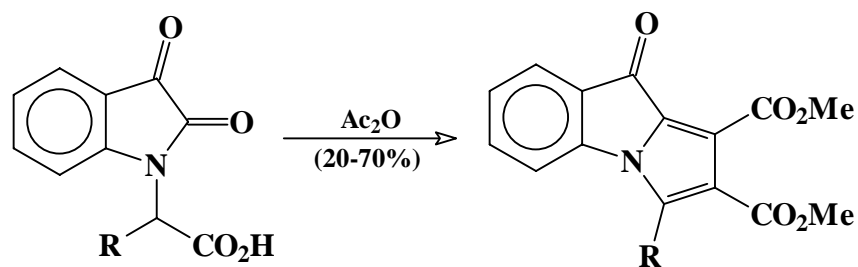
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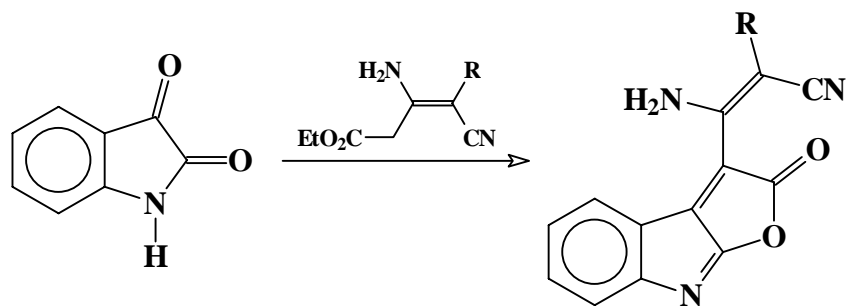
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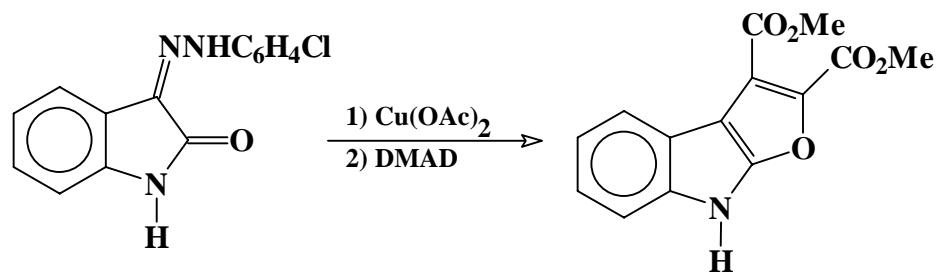
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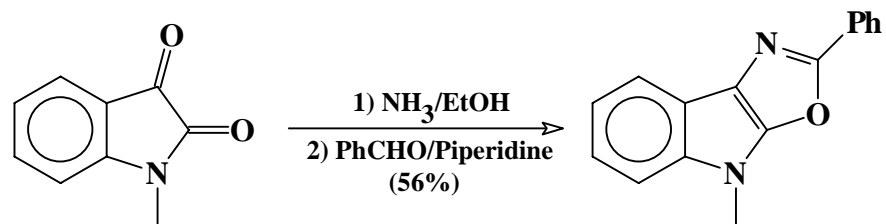


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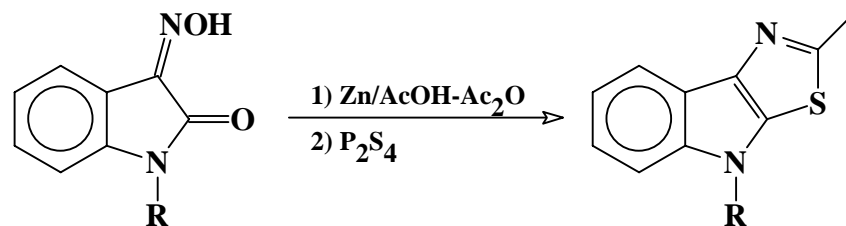


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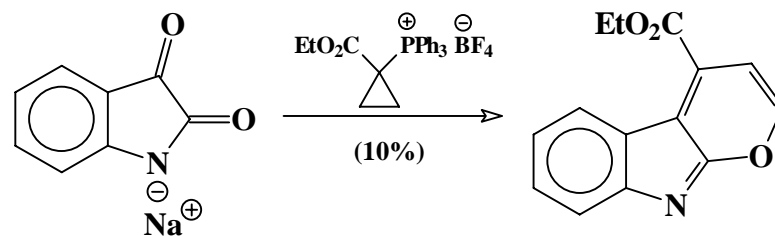
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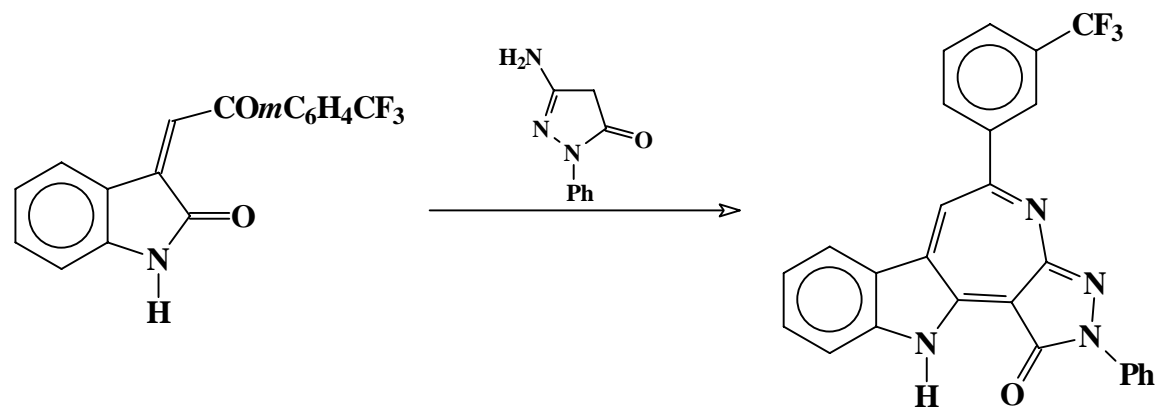
Youssef, M.S.K., Metwally, S.A.M., El-Maghraby, M.A., Younes, M.I. *Indian J. Chem.* **1983**, 22B, 878



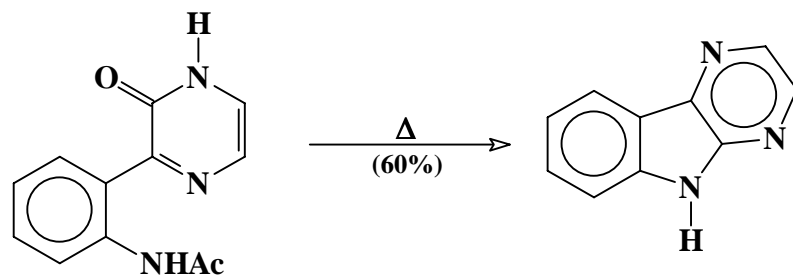
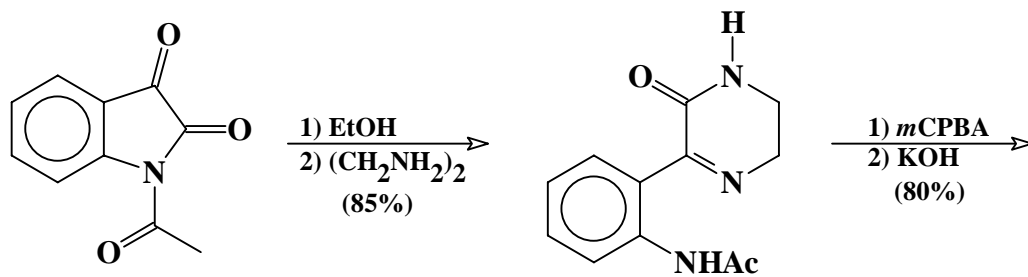
Abramenko, P.I., Ponomareva, T.K., Priklonskikh, G.I. *Zh. Vses. Khim. O-va.* **1978**, 23, 711



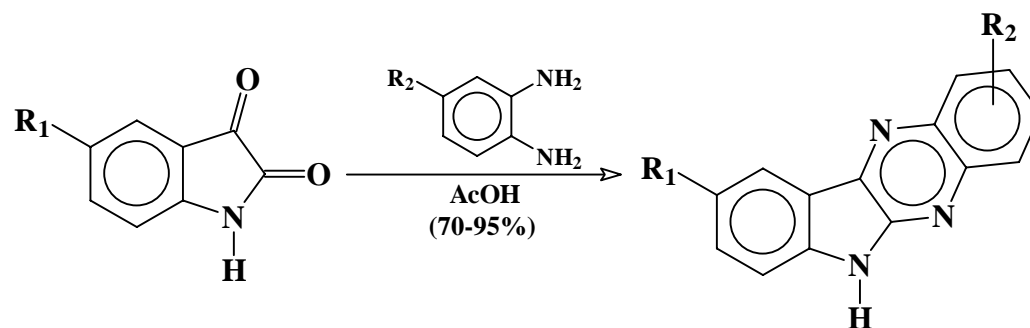
Muchowski, J.M., Nelson, P.H. *Tetrahedron Lett.* **1980**, 21, 4585



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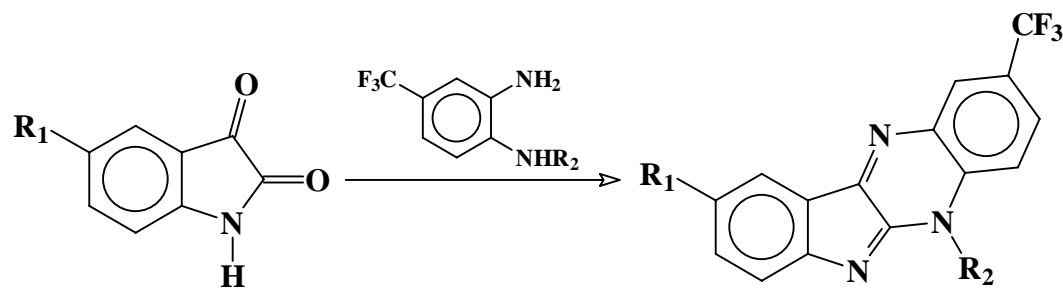
Varma, R.S., Khan, I.A. *J. Indian Chem. Soc.* **1978**, 55, 1043

Varma, R.S., Pandey, R.K. *Arch. Pharm.* **1981**, 314, 307

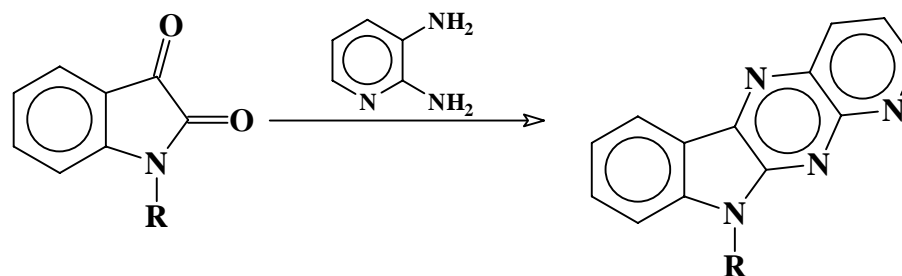
Sarkis, G.Y., Al-Badri, H.T. *J. Heterocycl. Chem.* **1980**, 17, 813

Kallmayer, H.J. *Arch. Pharm.* **1975**, 308, 742

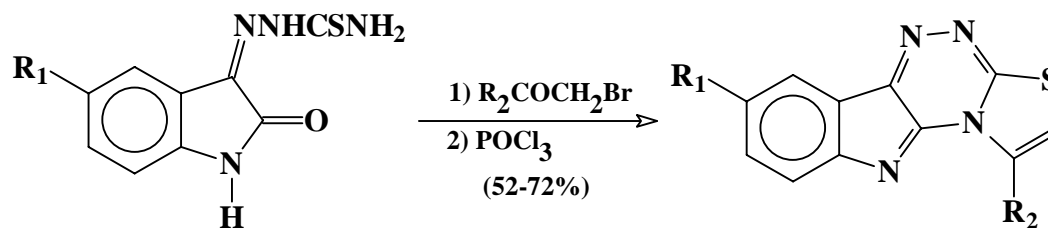
Banerji, K.D., Mazumdar, A.K.D., Saha, N.K., Guha, S.K. *J. Indian Chem. Soc.* **1980**, 57, 86



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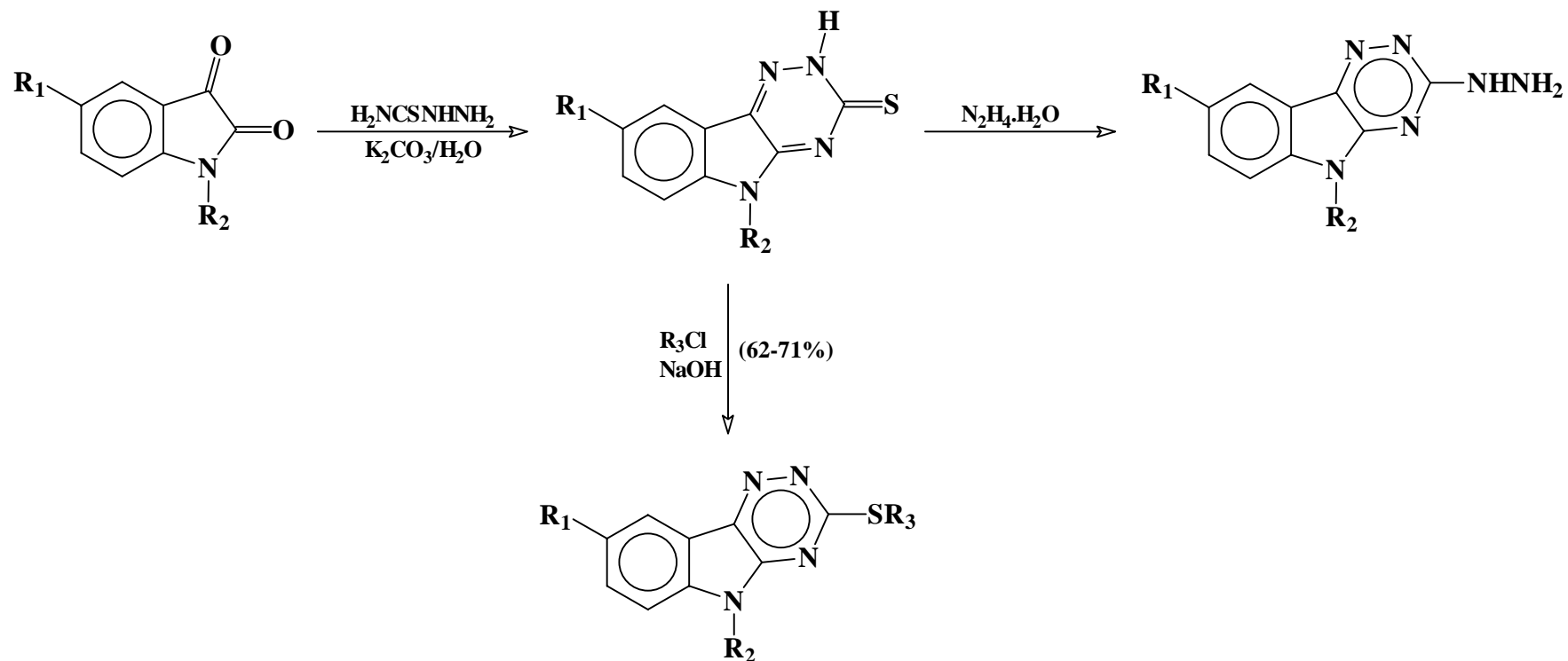
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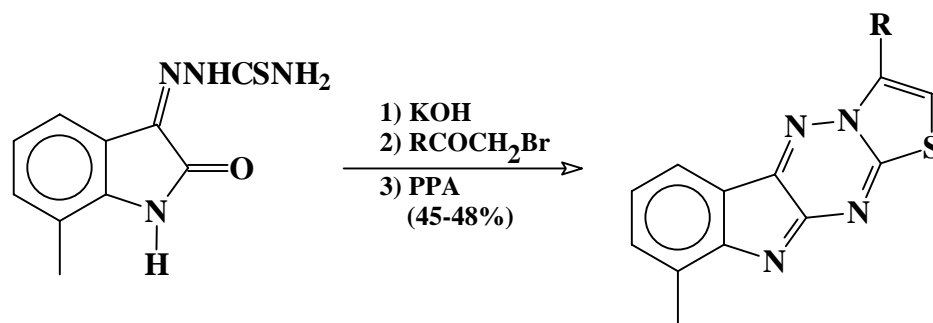
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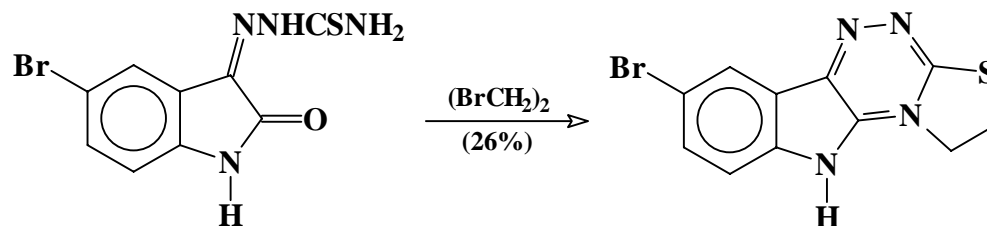


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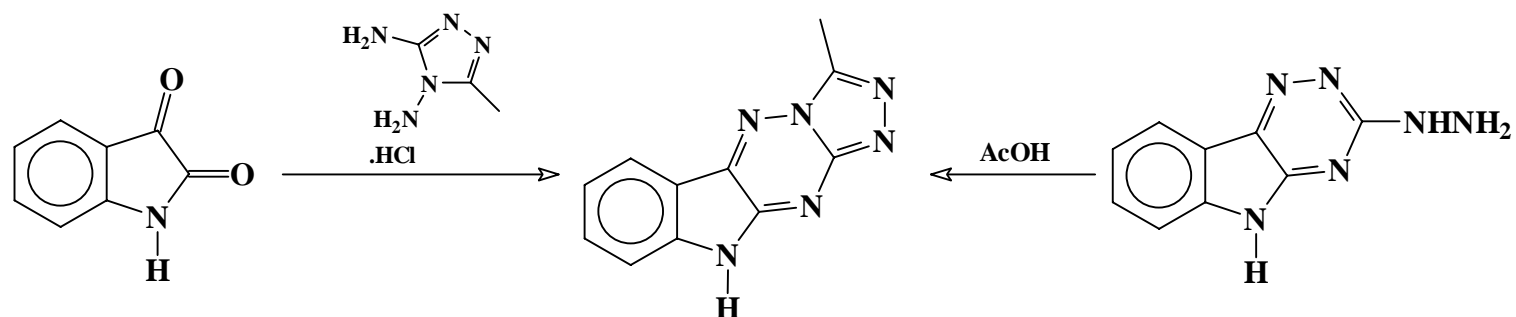
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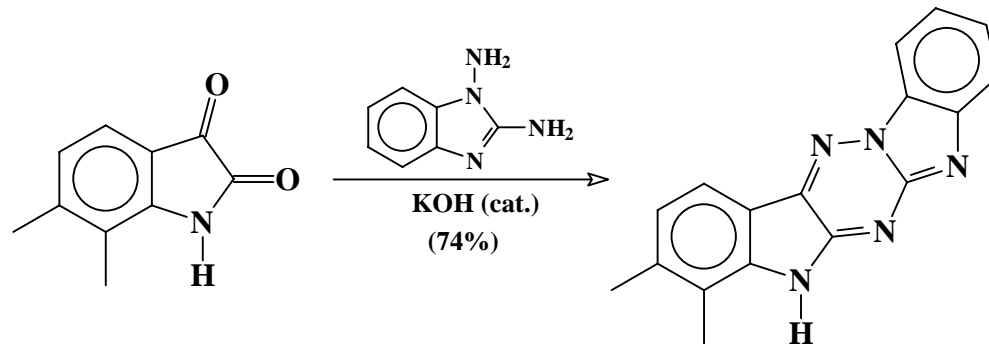
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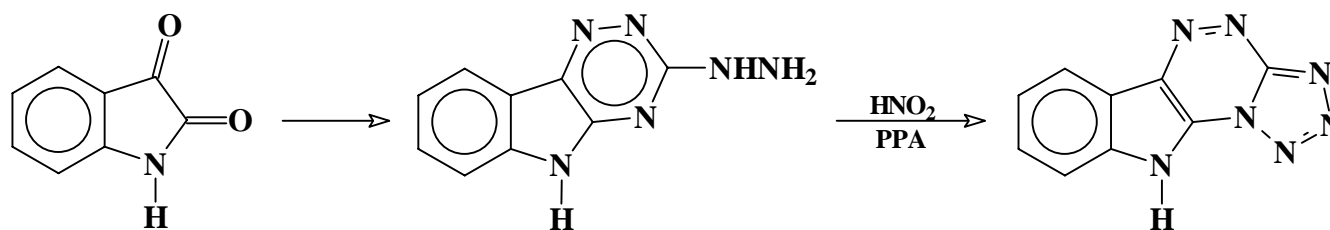
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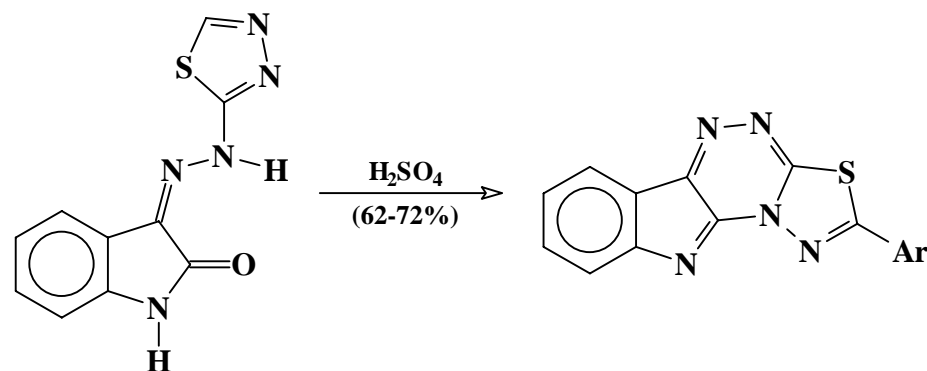
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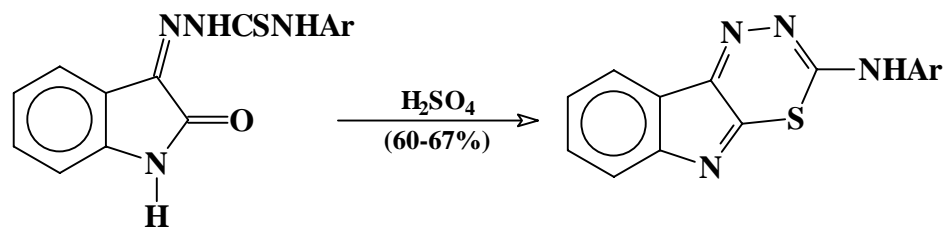
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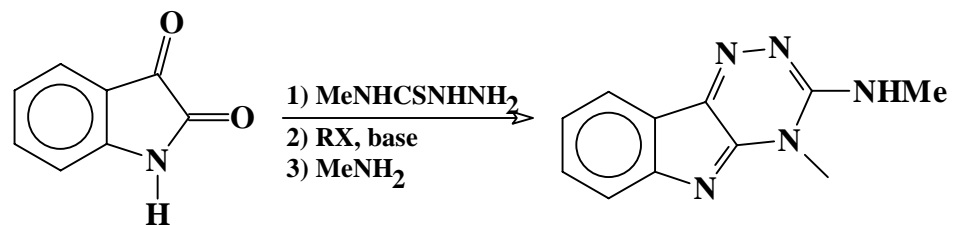
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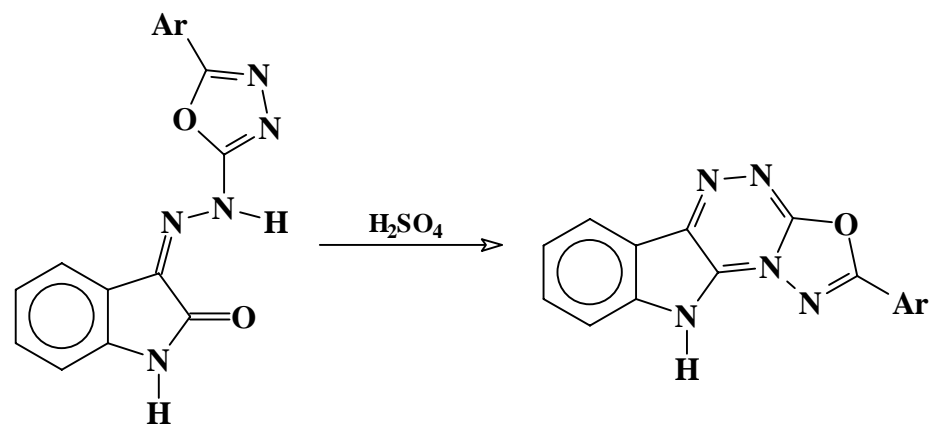
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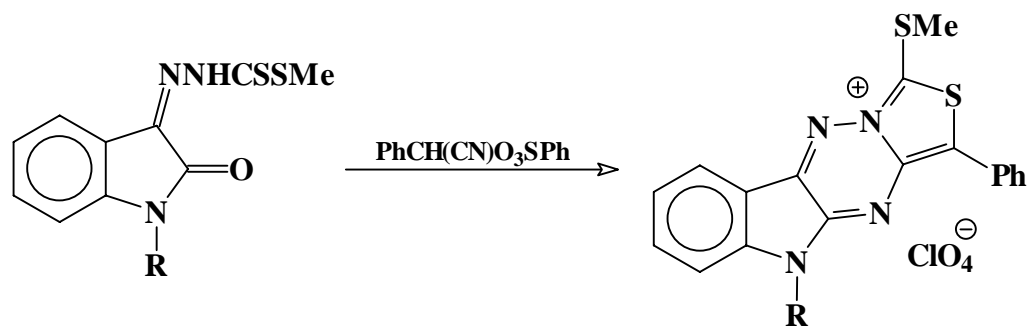
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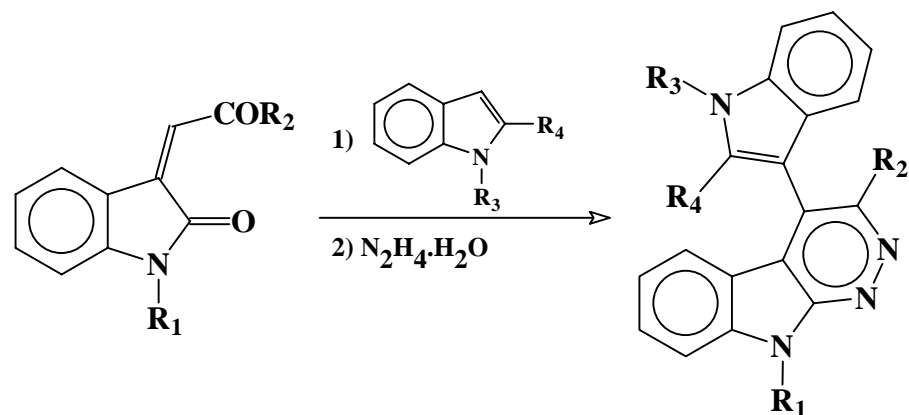
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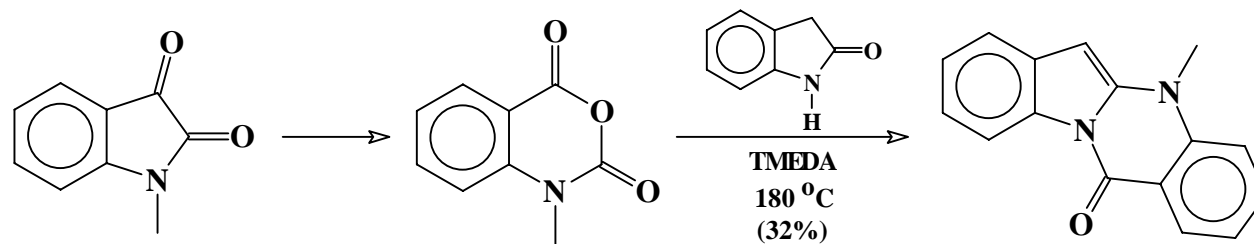
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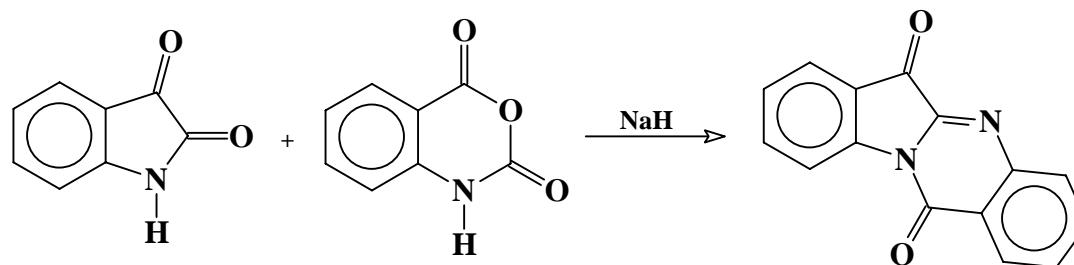
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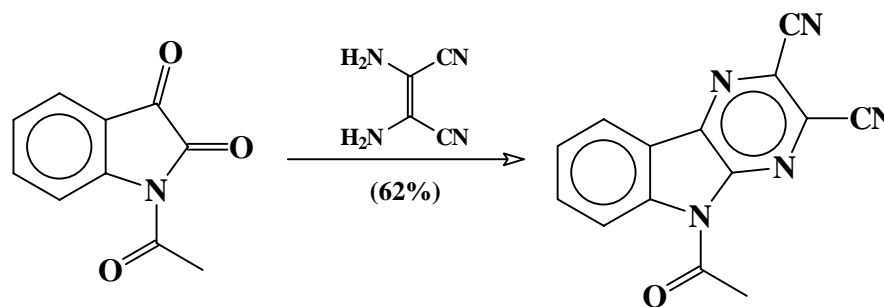
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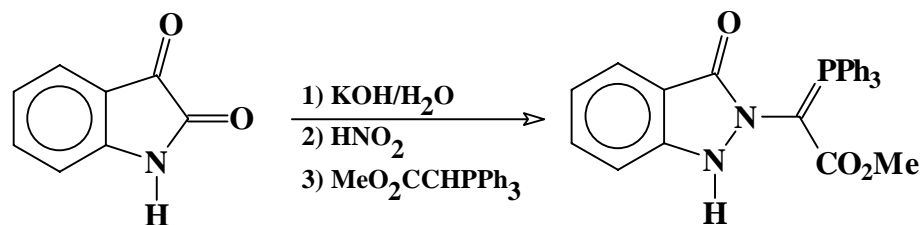
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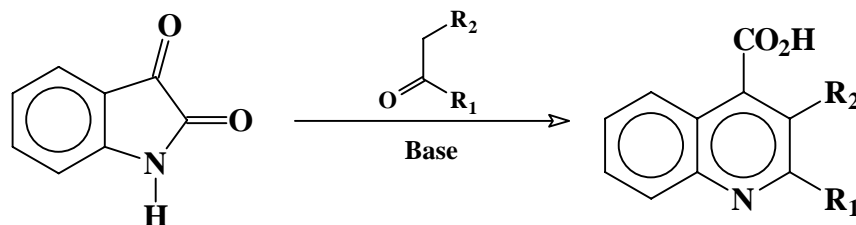
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### Indazoles



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## Quinolines



$R_1 = CF_3$   $R_2 = H$

Tsao, H.-W. US 4,267,333 12 May 1981, 5 pp

$R_1 = Ar$   $R_2 = OR$

Quimby, D.J. US 4,251,661 17 Feb 1981 4 pp

$R_1 = 2\text{-Pyridyl}$   $R_2 = Alkyl$

Sutherland, L.H., Sloboda, A.E., Child, R.G., Poletto, J.F., Powell, D.W. Eur. Pat. Appl. EP 305,952 08 Mar 1989, 26 pp

$R_1 = 3\text{-Pyridyl}$   $R_2 = Alkyl$

Sund, E.H., Cashon, R.E., Taylor, R.L. *Tex. J. Sci.* **1980**, 32, 93

$R_1 = Ph$   $R_2 = Br$

Sund, E.H., McDonald, E.A., Gillespie, T.H. *Tex. J. Sci.* **1981**, 33, 308

$R_1 = 8\text{-Quinolyl}$   $R_2 = H$

Yurovskaya, M.A., Druzhinina, V.V., Bundel, Y.G. *Khim. Geterotsikl. Soedin.* **1982**, 1130

$R_1 = Alkyl$   $R_2 = CH_2Ar$

Pustovar, P.R., Kirsenko, V.N. *Ukr. Khim. Zh.* **1978**, 44, 1314

$R_1 = Aryl$   $R_2 = H$

Greenlee, W.J., Johnston, D.B.R., Malcolm, M. Eur. Pat. Appl. EP 507,594 07 Oct 1992, 45 pp

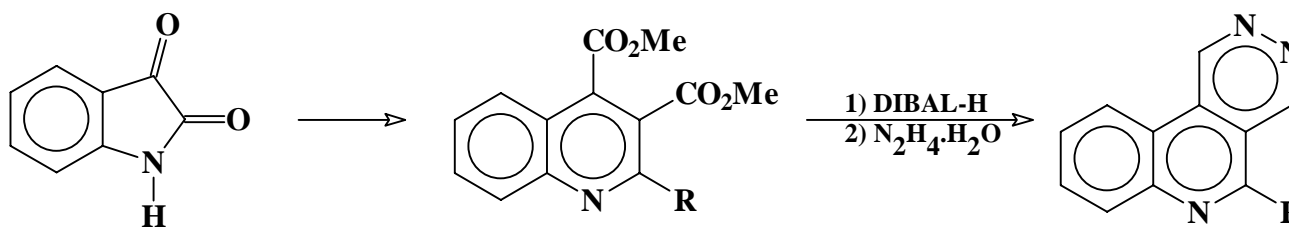
$R_1 = Aryl$   $R_2 = H, Alkyl$  or  $OR$

Rangnekar, D.W., Shenoy, G.R. *Dyes Pigm.* **1987**, 8, 281

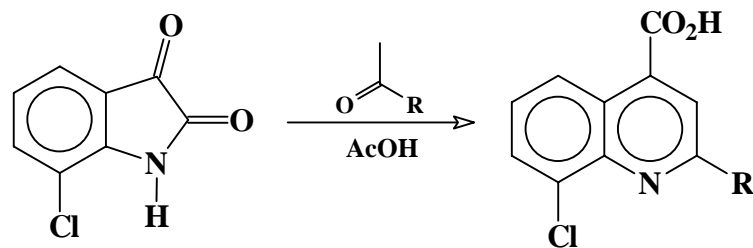
$R_1 = 2\text{-Carboxyphenyl}$   $R_2 = H$

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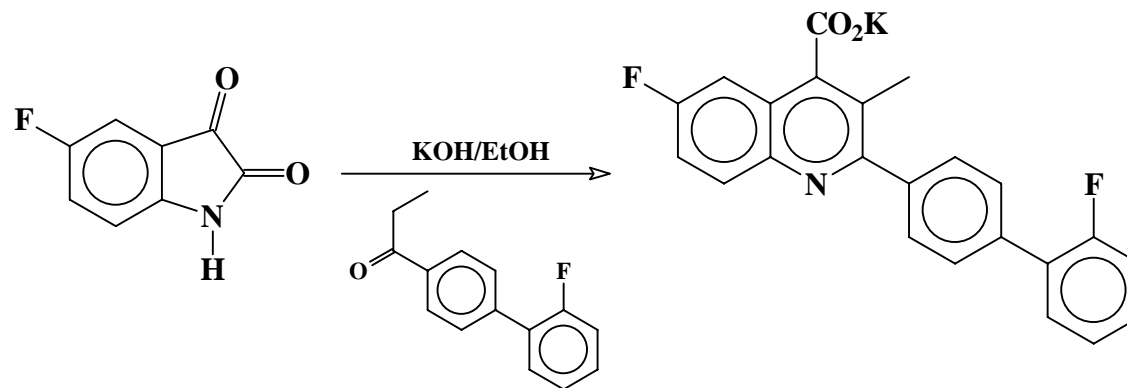
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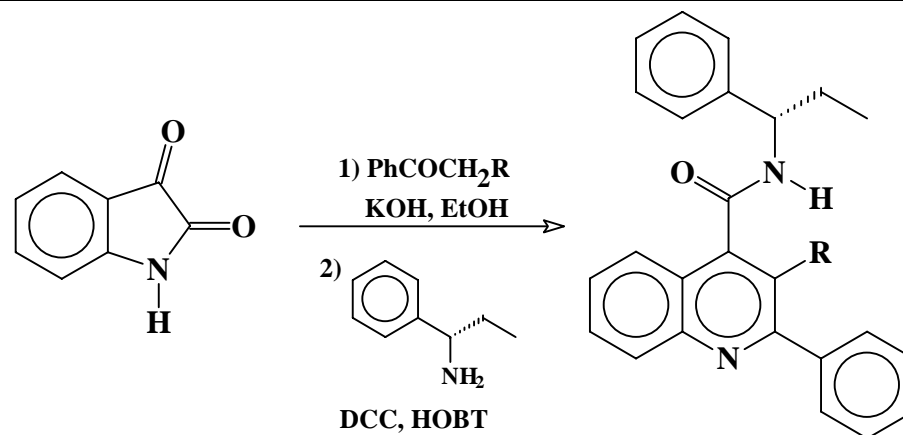


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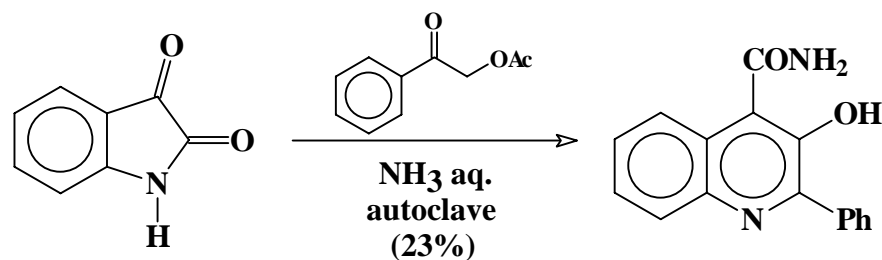


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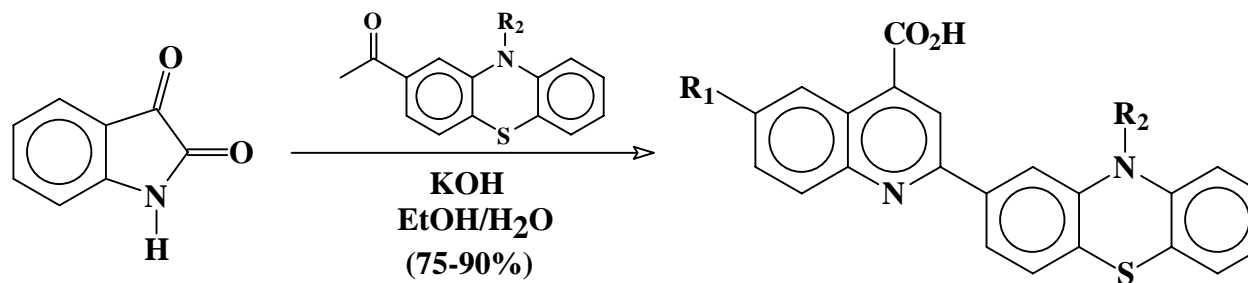
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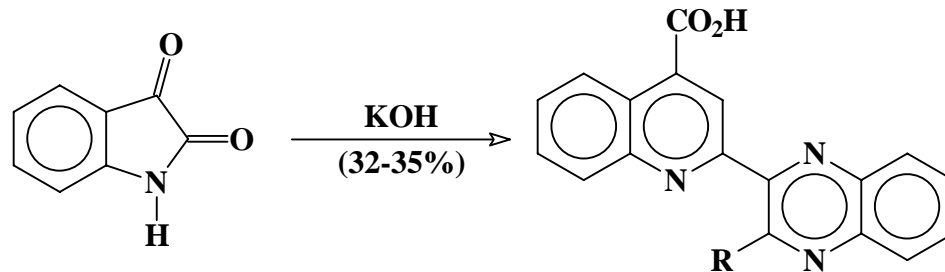
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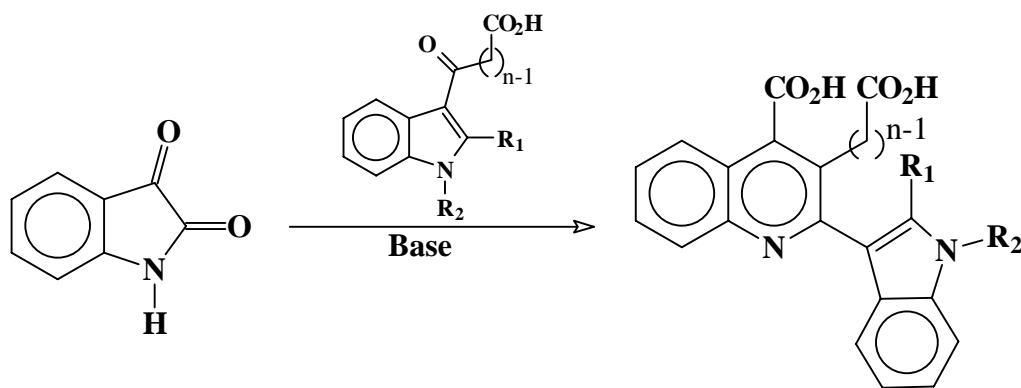
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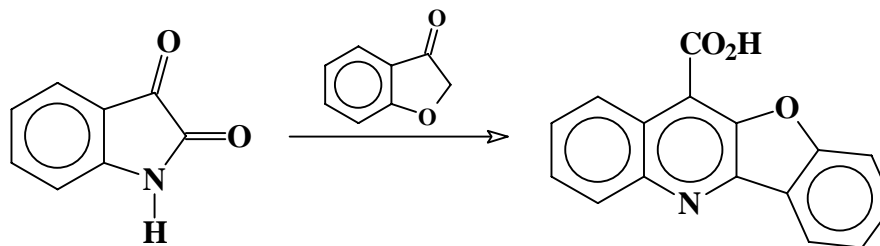


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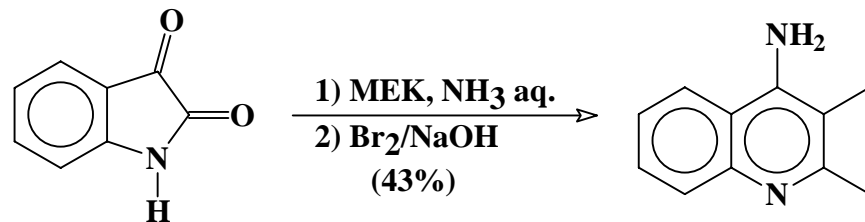


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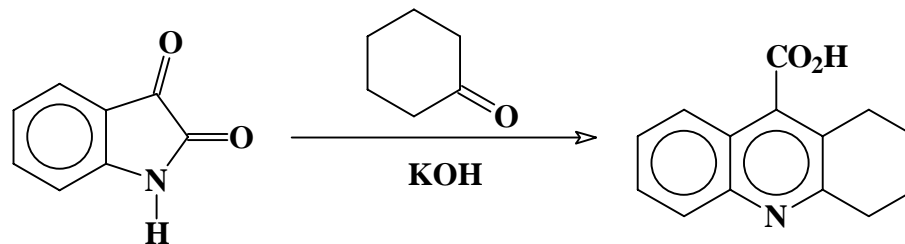
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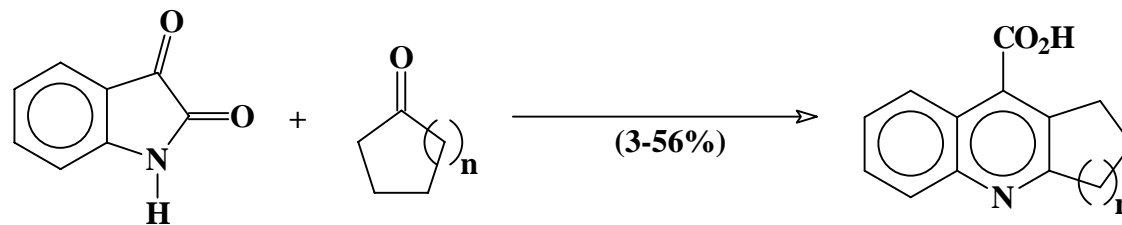
Yamaguchi, S., Tsuzuki, K., Sannomiya, y., Oh-hira, Y., Kawase, Y. *J. Heterocycl. Chem.* **1989**, 26, 285



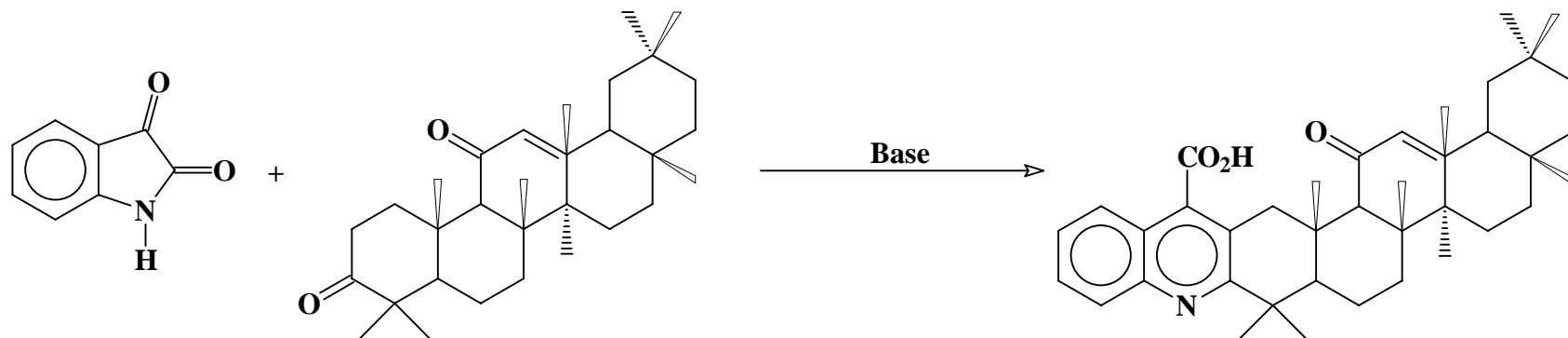
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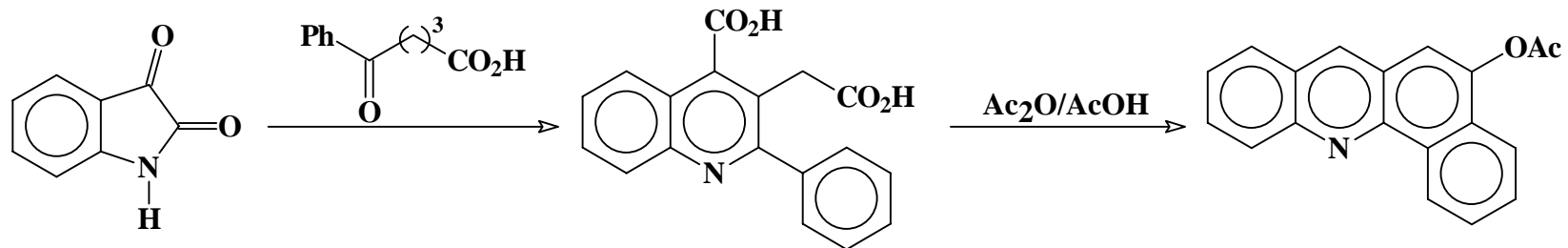
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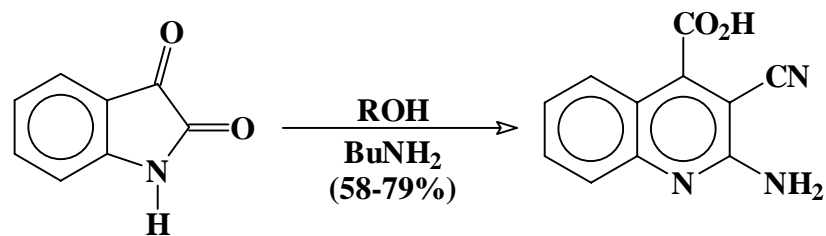
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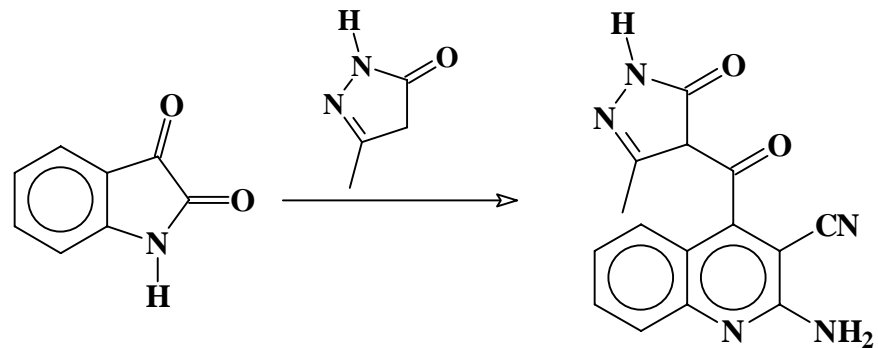
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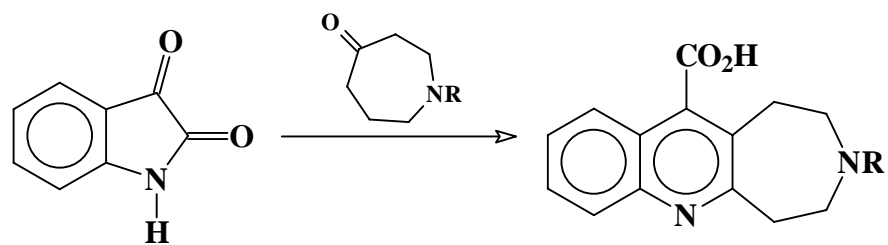
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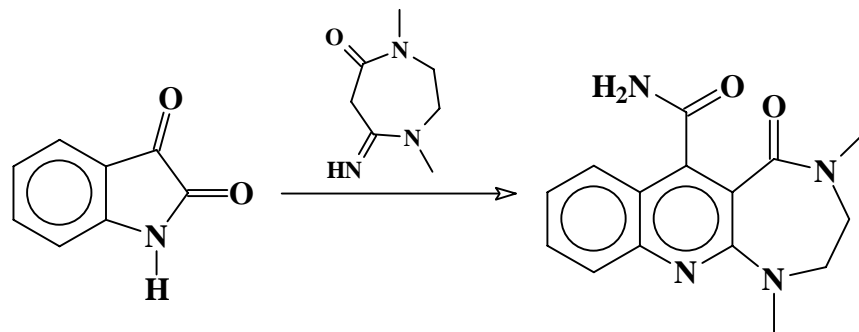
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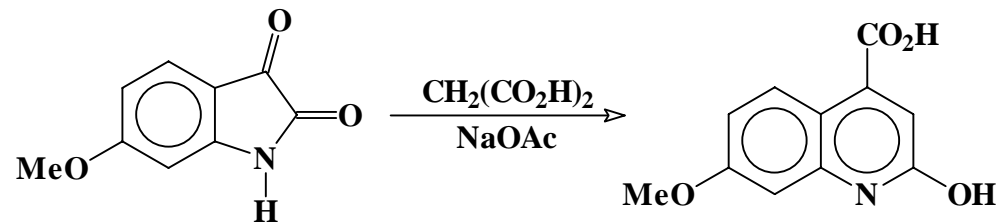
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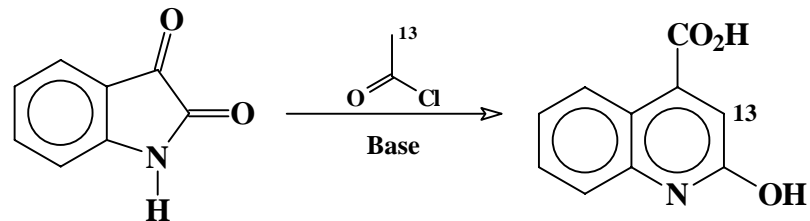
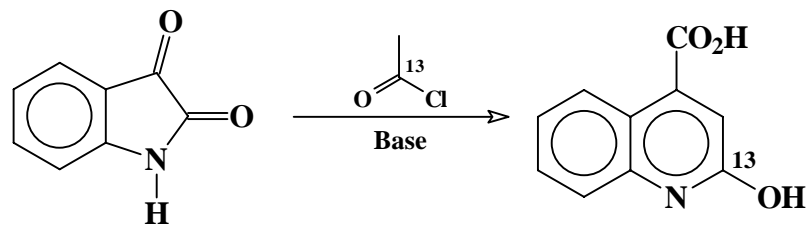
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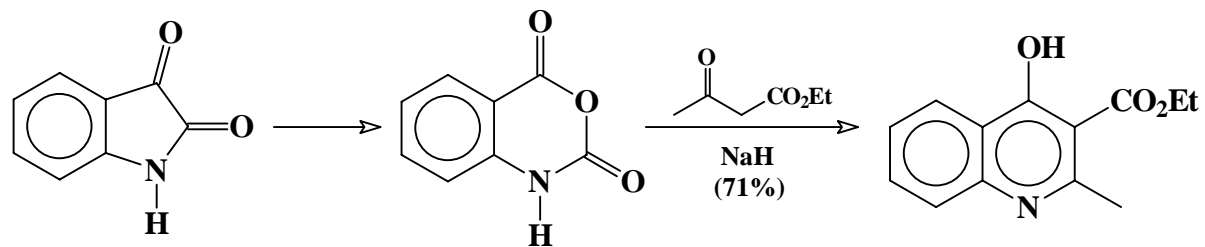
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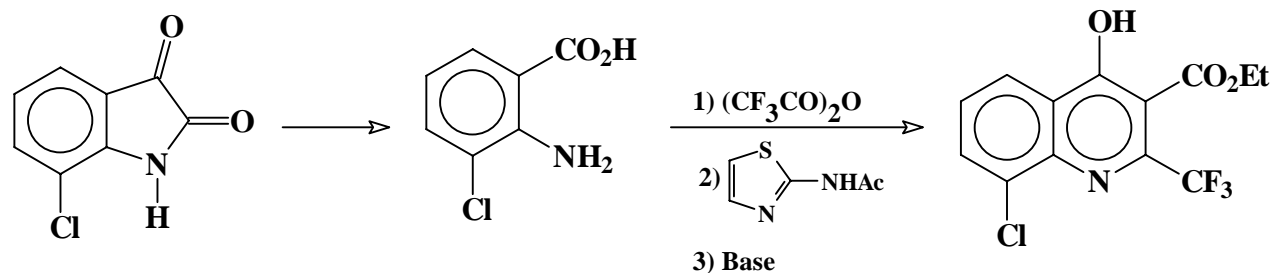
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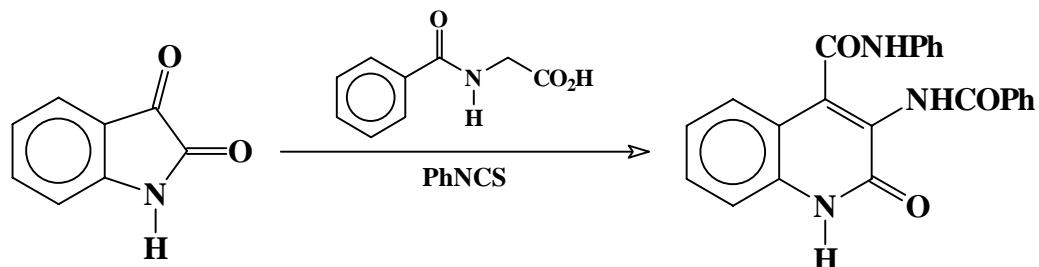
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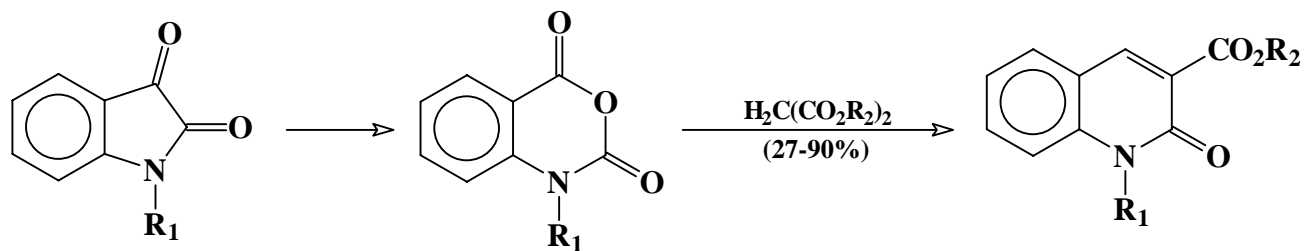
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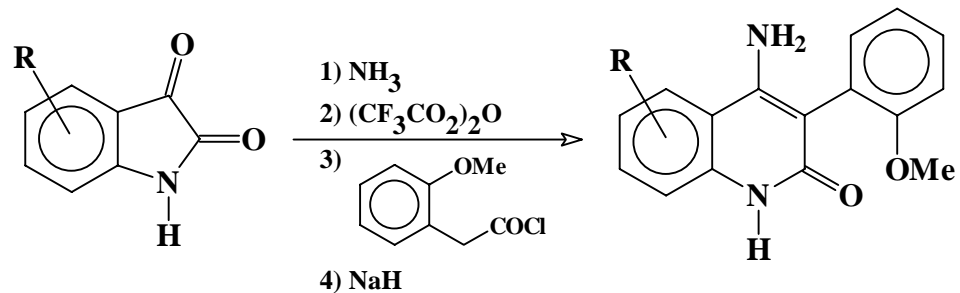
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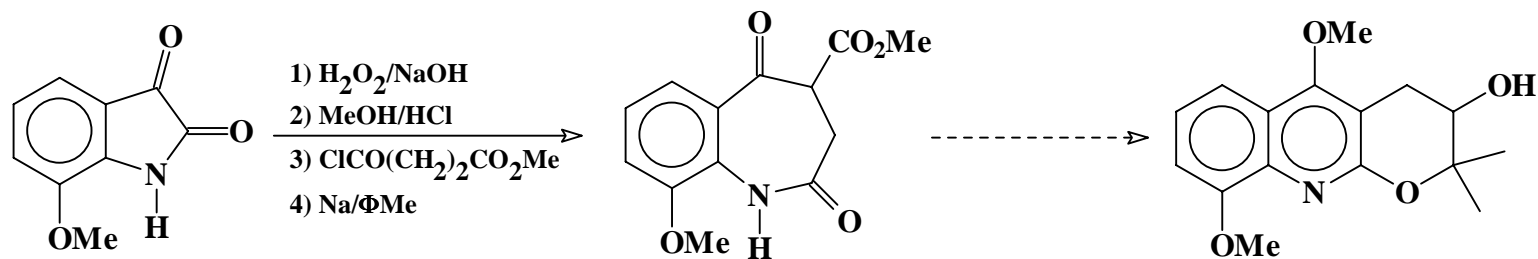
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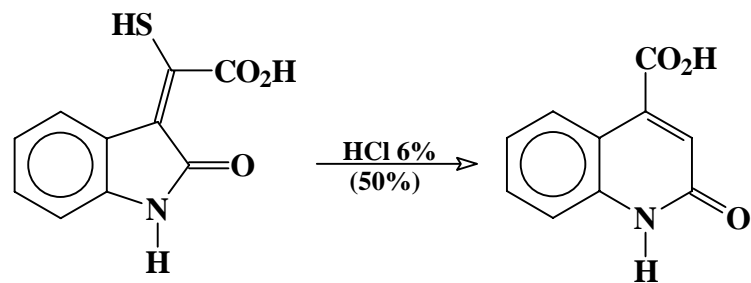
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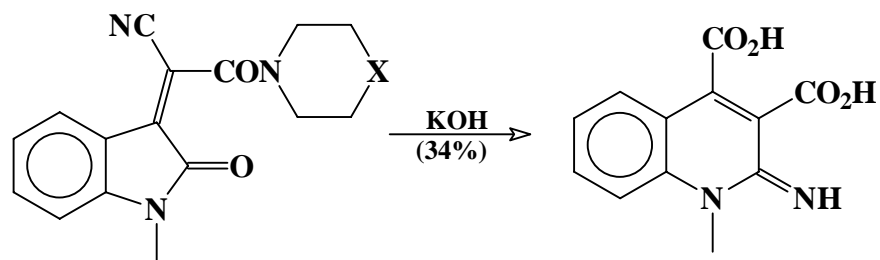
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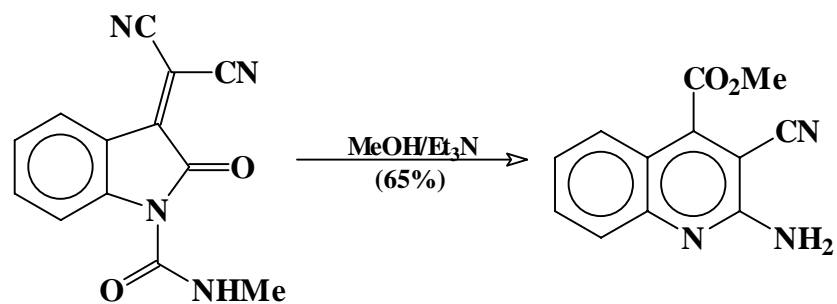
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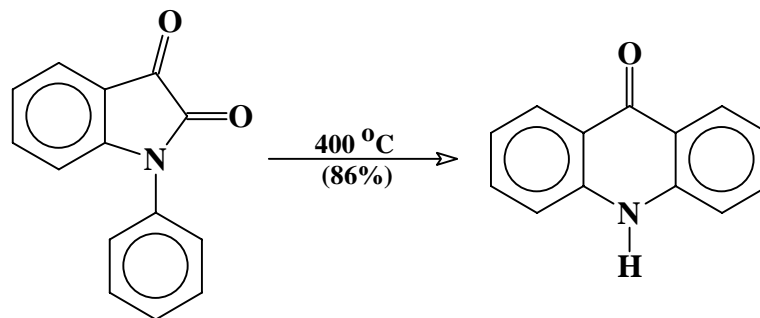
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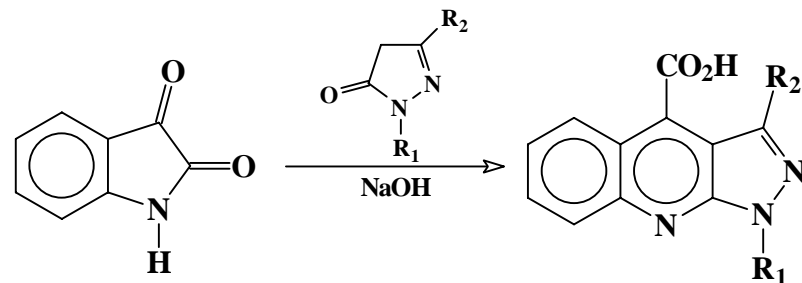


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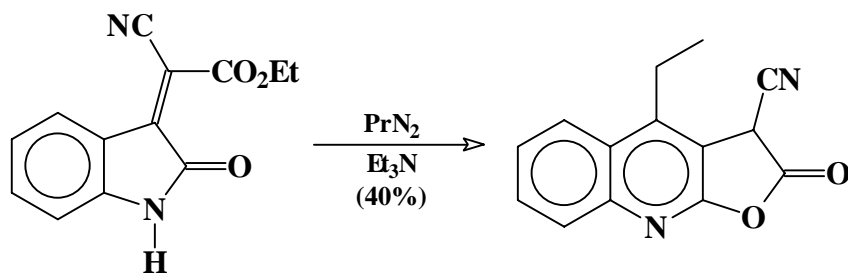


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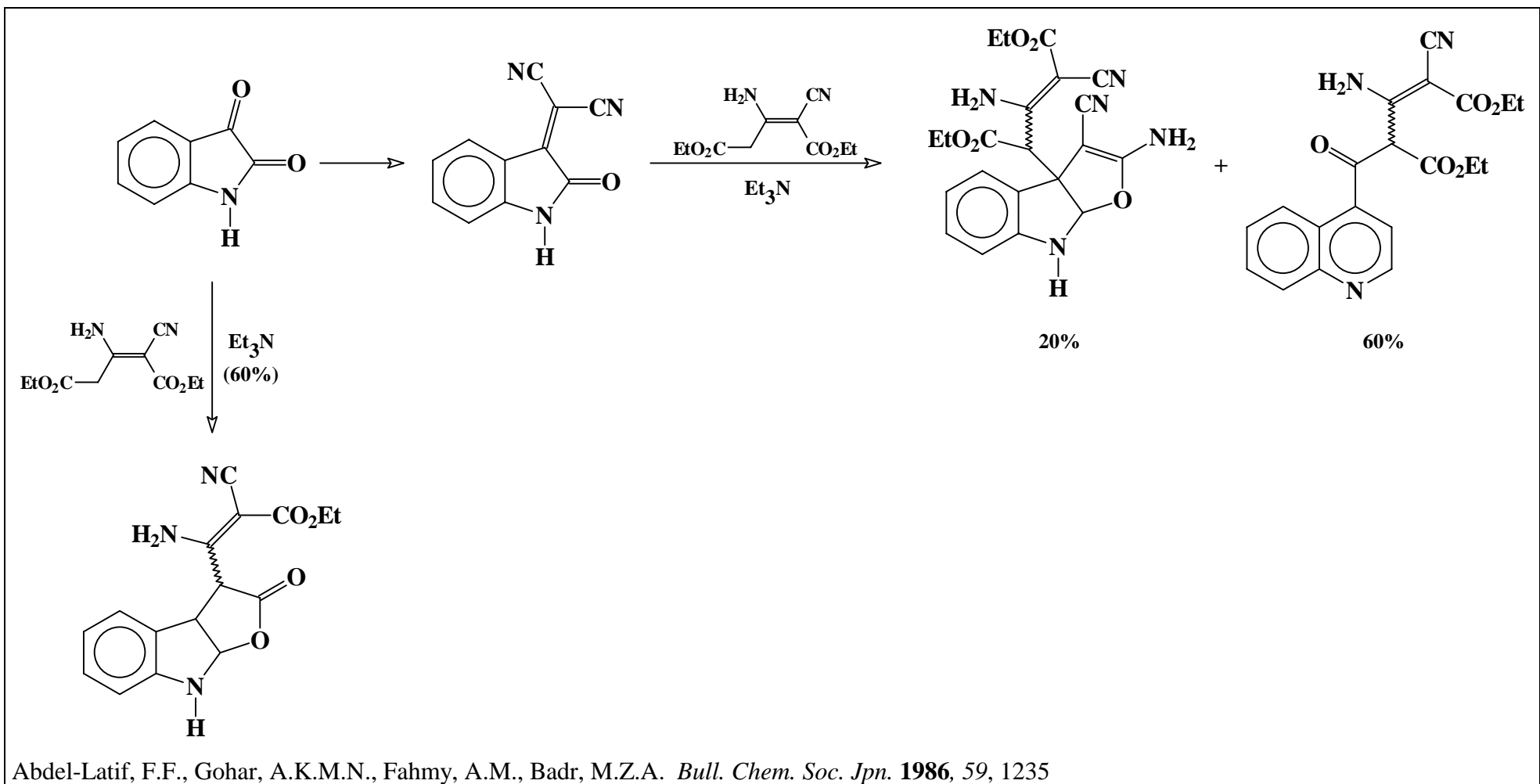


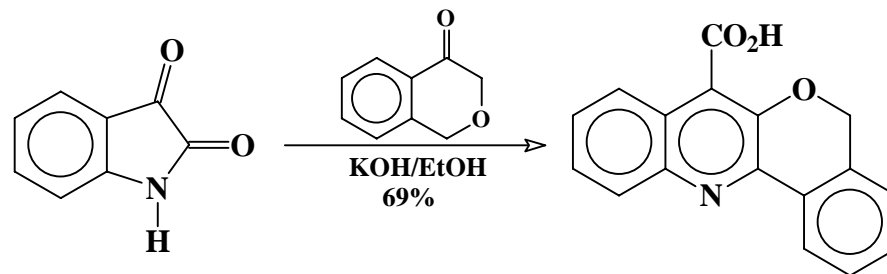


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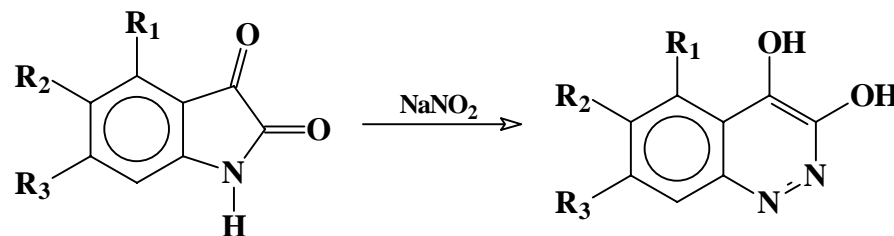
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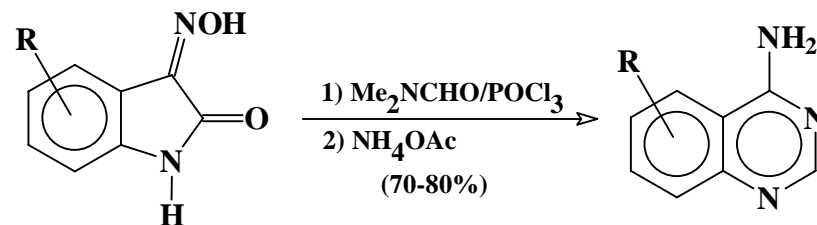
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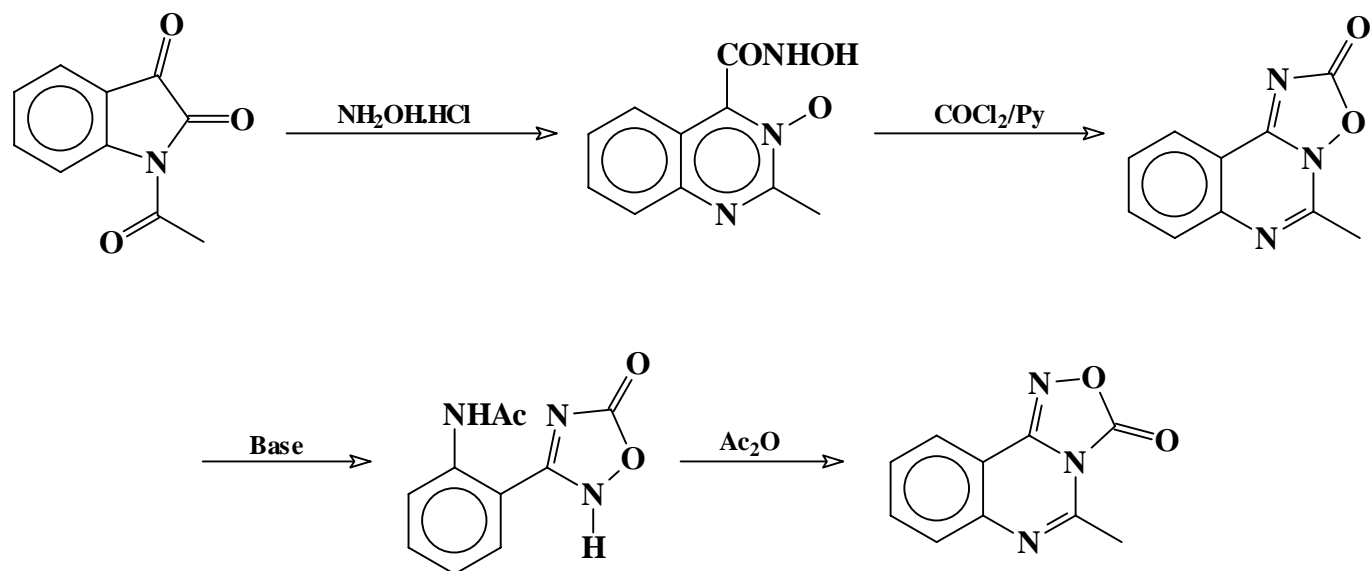


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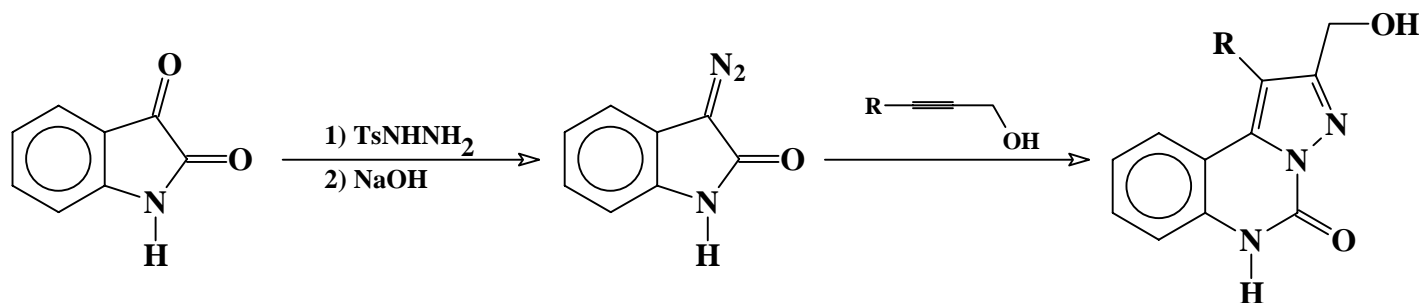
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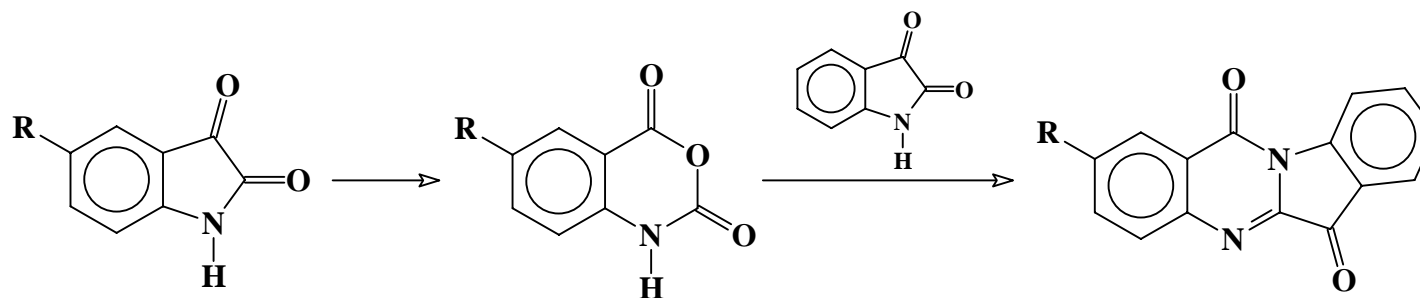
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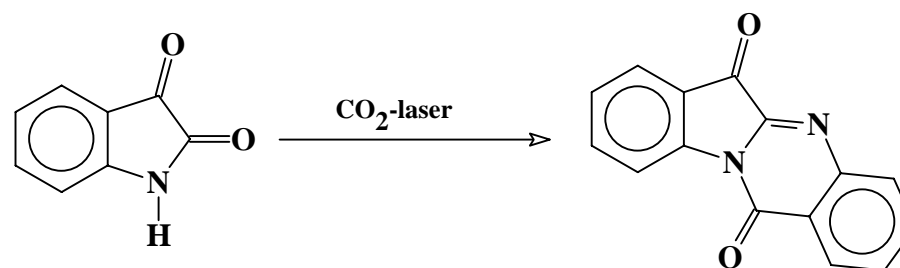


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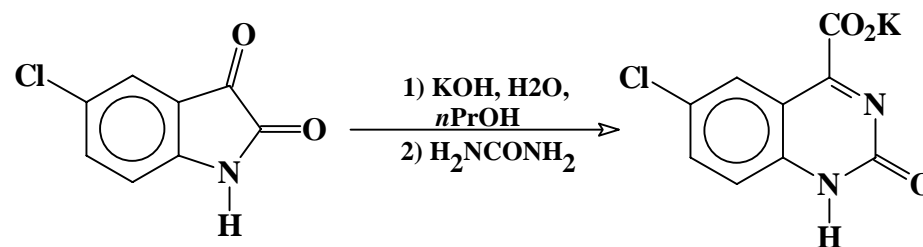


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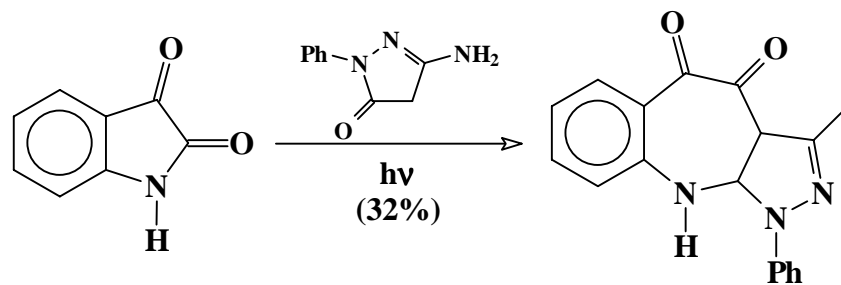


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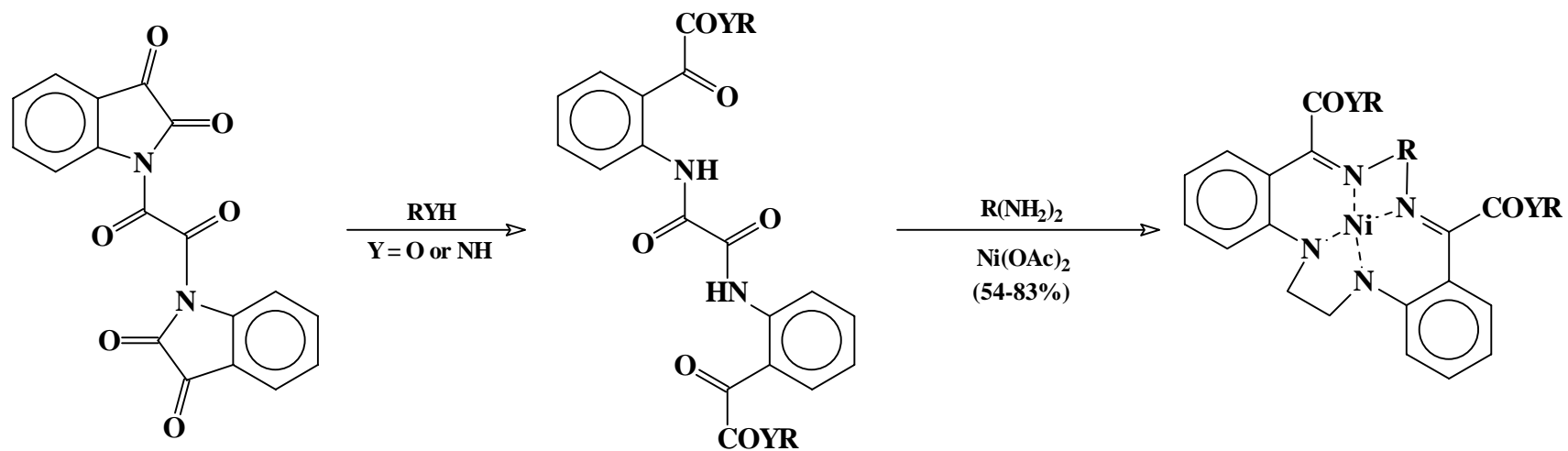


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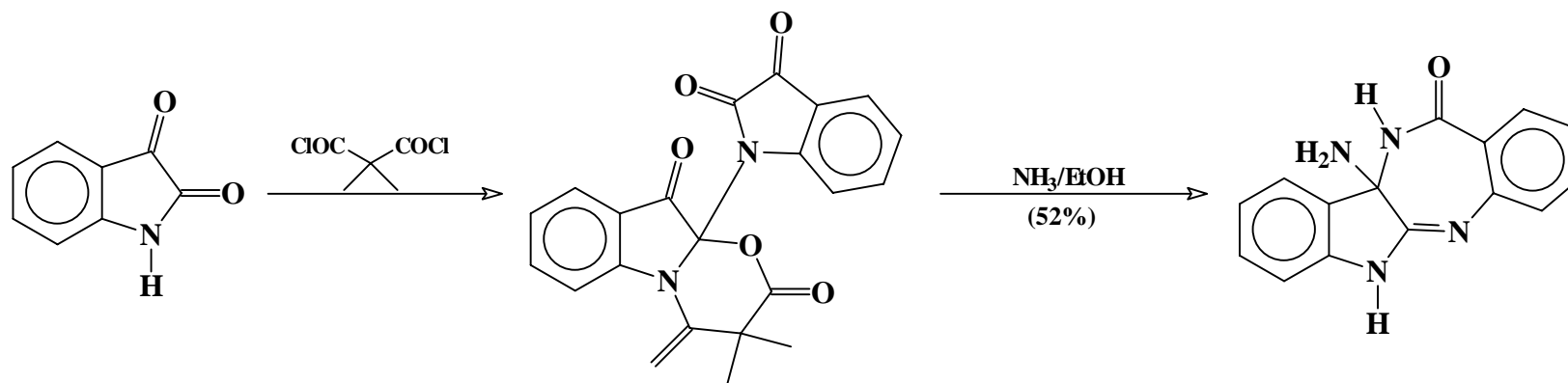


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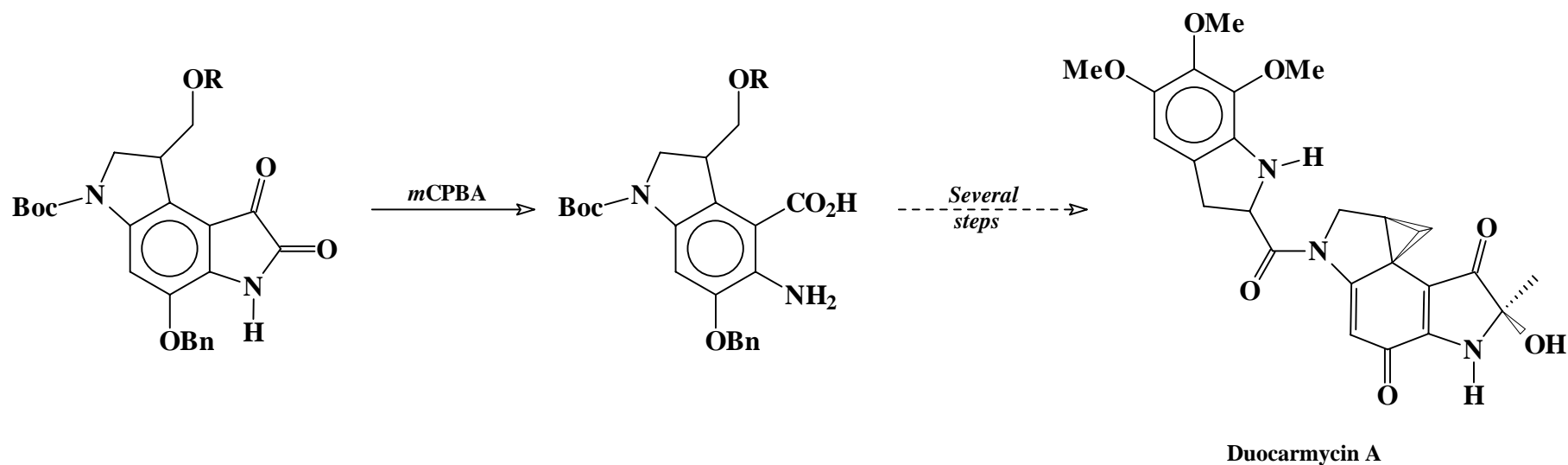


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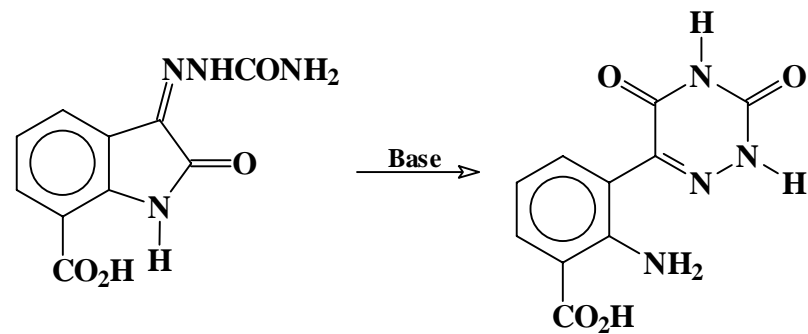
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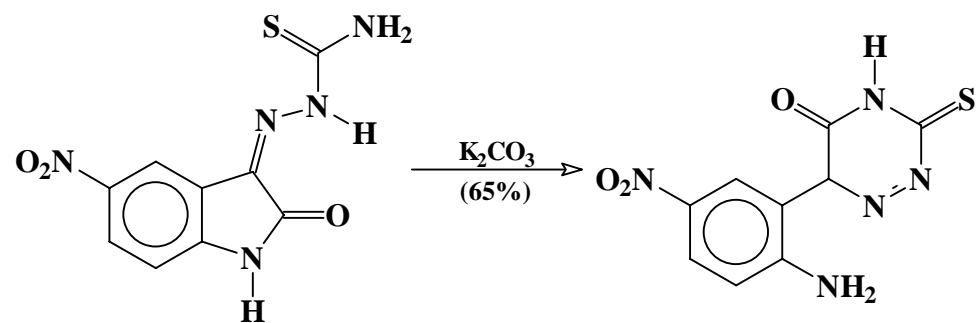


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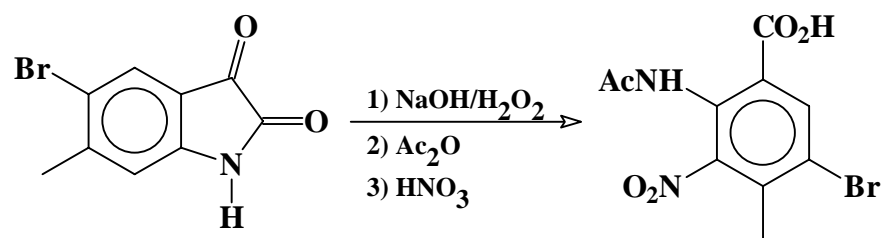


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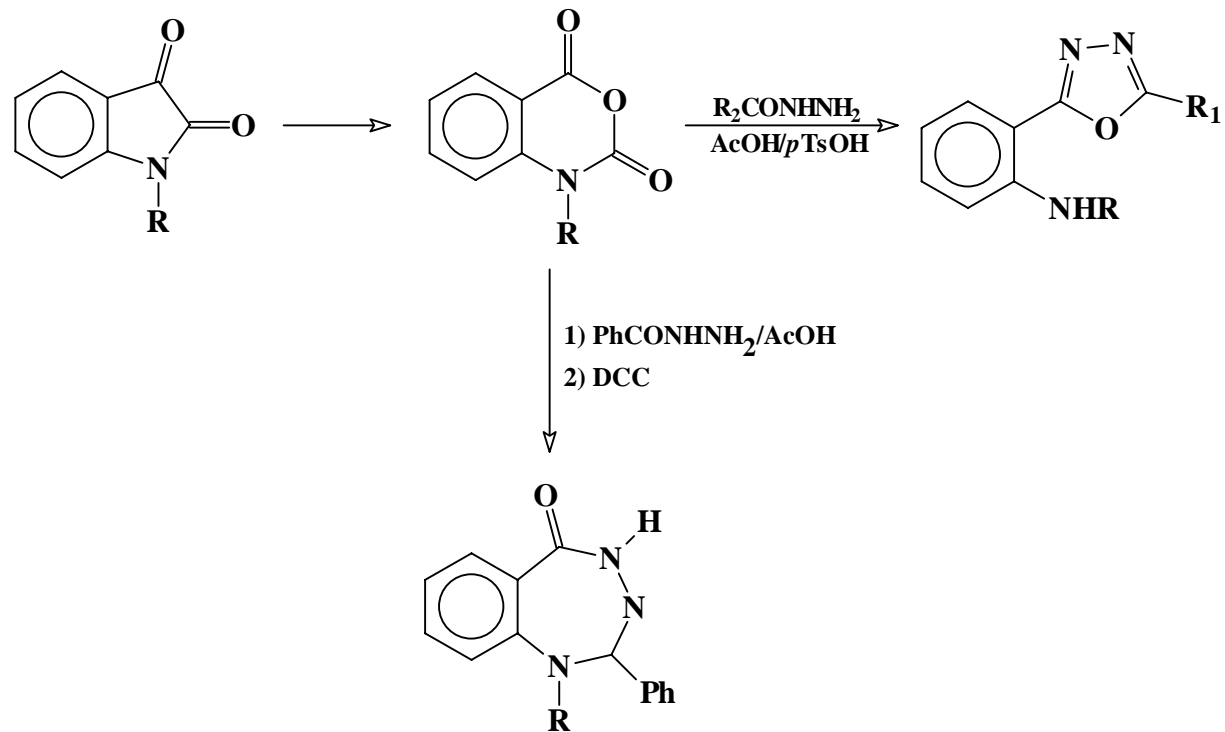




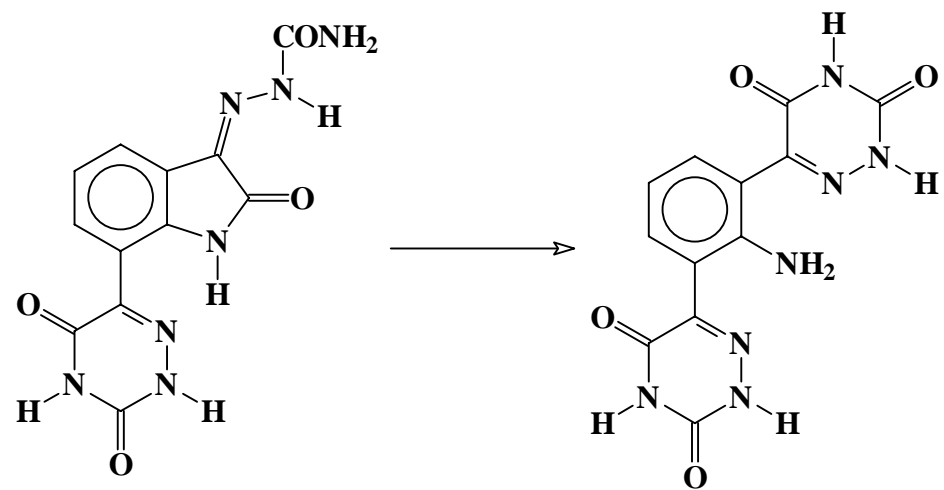
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