



## Improved synthesis of an adrenergic antagonist drug-Carvedilol

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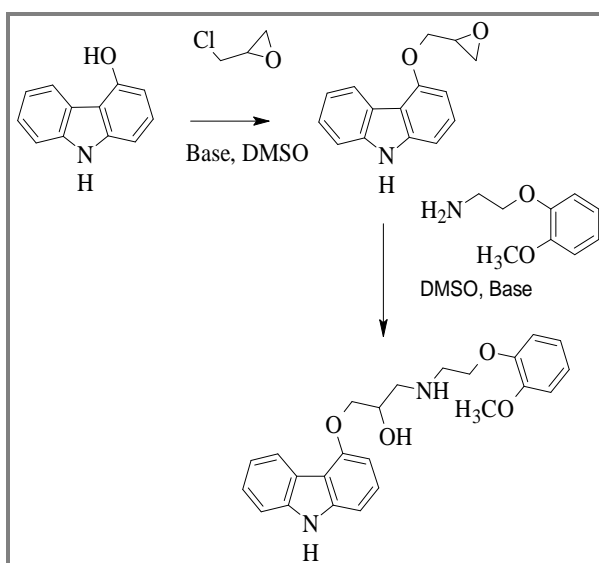
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### ABSTRACT

The present communication reports the preparation of carvedilol an adrenergic antagonist drug by a novel design of synthesis which has improved the yield. An optimized synthesis by screening different solvents and bases was proposed using R software. Finally, better conditions for preparation of carvedilol in high yields were established.

### Graphical Abstract



Synthesis of Carvedilol

**Keywords:** 4-hydroxy carbazole, epichlorohydrin, 4-(2,3-epoxypropoxy) carbazole, R software, 2-(2-methoxyphenoxy) ethanamine.