

[54] 3[(3-ALKYLAMINO-2-HYDROXYPROPOXY)PHENYL]-1,2-PROPANEDIOLS

[76] Inventors: Joseph W. Epstein, 19 Briarwood Ave., Monroe, N.Y. 10950; Leon Goldman, 126 Grandview Ave., Nanuet, N.Y. 10954; James D. Warren, 40 W. Nauraushaun Ave., Pearl River, N.Y. 10965

[21] Appl. No.: 182,280

[22] Filed: Aug. 28, 1980

Related U.S. Application Data

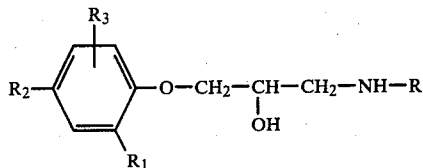
[63] Continuation of Ser. No. 90,966, Nov. 5, 1979, abandoned.

[51] Int. Cl.³ C07C 93/06

[52] U.S. Cl. 564/349; 260/348.15; 260/348.29; 260/348.63; 260/456 P; 260/459 R; 424/316; 424/330; 560/110; 560/142; 560/250; 568/630

[57] ABSTRACT

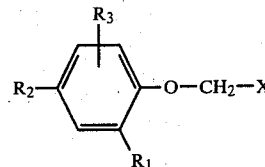
This invention concerns novel 3-[(3-alkylamino-2-hydroxypropoxy)phenyl]-1,2-propanediols of the formula:



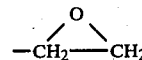
wherein R is selected from the group consisting of straight or branched-chain lower alkyls (C₁-C₆) and cycloalkyls (C₁-C₆); R₁ and R₂ are selected from the group consisting of hydrogen and 2,3-dihydroxypropyl, with the proviso that R₁ and R₂ may not be the same; and R₃ is selected from the group consisting of lower alkyls (C₁-C₄) and lower alkoxy (C₁-C₄); and the acid addition salts thereof. These novel compounds are use-

ful as antiarrhythmic agents and β-andrenergic blockers in mammals.

This invention also concerns novel compounds of the formula



wherein R₁ and R₂ are selected from the group consisting of hydrogen and 2,3-dihydroxypropyl, with the proviso that R₁ and R₂ may not be the same; R₃ is selected from the group consisting of lower alkyls (C₁-C₄) and lower alkoxy (C₁-C₄); and X is selected from the group consisting of



and -CHOH-CH₂-Z (or a mixture of these compounds wherein X has both meanings stated above) where Z may be halogen, alkoxy sulfonyl and aryloxysulfonyl; and the acid-addition salts thereof. These compounds are useful as intermediates for the preparation of the active antiarrhythmic and β-andrenergic blocking compounds described above.

This invention also concerns a process for preparing said antiarrhythmic and β-andrenergic blocking compounds from said intermediates.

8 Claims, No Sheets Drawing,
30 Pages Specification

The file of this unexamined application may be inspected and copies thereof may be purchased (849 O.G. 1221, Apr. 9, 1968).