

TABLE 1. β -Amidinoethanesulfonic Acids

Compound	Ar	Yield, %	mp, °C	Found (in %)		Empirical formula	Calculated (in %)		$\begin{array}{c} \text{NH}_2^+ \\ \diagup \text{C} \\ \diagdown \text{NH}^- \end{array}$ (cm ⁻¹)	νSO_3^- (cm ⁻¹)
				N	S		N	S		
III	Phenyl	78	285 (from 80% methanol solution)	12.05	14.05	C ₉ H ₁₂ N ₂ O ₃ S	12.15	14.14	1650 1700	1050
IV	p-Methoxyphenyl	67	308 (from water)	11.13	11.60	C ₁₀ H ₁₄ N ₂ O ₄ S	10.75	12.03	1642 1703	1044
V	3,4-Dimethoxyphenyl	70	328 (from 90% ethanol solution)	9.69	11.70	C ₁₁ H ₁₆ N ₂ O ₅ S	9.70	11.38	1630 1697	1051
VI	3,4,5-Trimethoxyphenyl	68	180	8.40	10.5	C ₁₂ H ₁₈ N ₂ O ₆ S	8.54	10.05	1639 1696	1053
VII	N-Formylindolyl-3	50	300	12.88	10.90	C ₁₂ H ₁₃ N ₃ O ₄ S	13.20	10.70	1654 1687	1049
VIII	Indol-3-methyl	75	300	13.80	10.80	C ₁₂ H ₁₅ N ₃ O ₃ S	14.10	10.80	1633 1679	1045

EXPERIMENTAL

N-(α -Imino-3,4-dimethoxybenzyl)- β -aminoethanesulfonic Acid (V). A mixture of 0.19 g (1.5 mole) of taurine, 0.32 g (1.5 mole) of 3,4-dimethoxybenzimidino ester, and 15 ml of 80% methanol was boiled with vigorous agitation for 45 min. Then the transparent solution was evaporated to dryness in vacuo. The oily residue was treated with 15 ml of methanol, the insoluble portion was filtered off, and from the mother liquor a white crystalline product was precipitated by the addition of anhydrous ethyl ester. There was obtained 0.3 g of compound V.

The rest of the β -amidinoalkanesulfonic acids, the characteristics of which are shown in Table 1, were prepared by the method described above, except that products III and IV were isolated by way of cooling the reaction mass and filtering the precipitated products.

LITERATURE CITED

1. N. A. Kogan, I. M. Nurova, and I. Kh. Fel'dman, *Khim.-Farm. Zh.*, **5**, No. 2, 12 (1969).
2. USSR Patent No. 223,815, *Byull. Izobret.*, **1968**, No. 25, p. 25.