SUPPLEMENTARY INFORMATION FOR "REAGENT CHEMICALS", 5TH EDITION

The Committee on Analytical Reagents wishes to announce several changes in requirements and tests for the 5th Edition of *Reagent Chemicals*.

Barium Carbonate

On page 116 raise the limit for the requirement for Strontium (Sr) from "0.3%" to "0.7%".

Bromocresol Green

On page 137 in the procedure for Visual transition interval, line 9, change "1.3 mL" to "2.0 mL". Also see the announcement in Anal. Chem., 48, 1432 (1976).

Morpholine

On page 412 for the requirement for *Color (APHA)* change "Not more than 10" to "Not more than 15". On page 413 for the test for *Color (APHA)* on line 1, change "2.0 mL" to "3.0 mL" and on line 3 change "APHA No. 10" to "APHA No. 15".

Potassium Nitrate

On page 495 change the title for the requirement and test for "Chlorine, total (as Cl)" to "Chloride (Cl)". For the procedure delete the first sentence, and change the second sentence to "Dissolve 1.0 g in about 20 mL...."

Sodium Molybdate

On page 580 change the upper limit for the requirement for pH of a 5% solution from "10.0" to "10.5".

Sodium Nitrate

On page 582 change the title for the requirement and test for "Chlorine, total (as Cl)" to "Chloride (Cl)". For the procedure delete the first sentence, and change the second sentence to "Dissolve 1.0 g in about 20 mL...."

Sodium Phosphate, Dibasic, Anhydrous

On page 593-594 change the requirement and test for "pH of a 0.1 M solution" to "pH of a 5% solution" having the limits "From 8.7 to 9.3 at 25°C".

Sodium Thiocyanate

On page 611 raise the requirement for Chloride~(Cl) from "0.005%" to "0.01%".

CORRECTIONS

Interferometric Concentration Determination of Dextran after Gel Chromatography

In this article by Lars Hagel, Anal. Chem., 50, 569 (1978), due to some unfortunate approximations, the relative error caused by optical activity of the sample as expressed by Equation 15 (p 571) is too small. The following estimations yields a correct order of the relative error.

$$a \le \frac{1}{4} A_{o} \alpha_{r} \tag{11}$$

$$b \le \frac{1}{4}A_{\rm o}(\alpha_{\rm r} + 2) \tag{12}$$

$$\frac{a^2}{b^2}\cot\left(\beta + \Delta\varphi/2\right) \le \frac{1}{4}\alpha_{\rm r}^2 \tag{13}$$

This yields

$$A_{\mathrm{p},\alpha} \simeq 2b \sin (\beta + \Delta \varphi/2) \le \frac{1}{2} A_{\mathrm{o}} (2 + \alpha_{\mathrm{r}}) \sin (\beta + \Delta \varphi/2)$$
 (14)

and

$$f_{\rm rel} \simeq \frac{\alpha_{\rm r}}{1 - \left(\frac{\sin \beta}{\sin (\beta + \Delta \varphi/2)}\right)^2} < 5 \times 10^{-5}$$
 (15)

As stated earlier, this relative error is negligible.

Flow Photometric Monitor for Uranium in Carbonate Solutions

In this article by B. B. Jablonski and D. E. Leyden, *Anal. Chem.*, **50**, 404 (1978), the operating wavelength of 420 nm should be added to the Experimental section.