

Notes

Gas chromatographic separation of pyridine homologues

Tween 20 was found to be an excellent liquid phase for the gas chromatographic separation of pyridine homologues. Fig. 1 shows a curve run with 2 μ l of a mixture on a 2 m column of 25 % Tween 20 on Embacel 60-100 mesh at 70°, 100 ml of He/min,

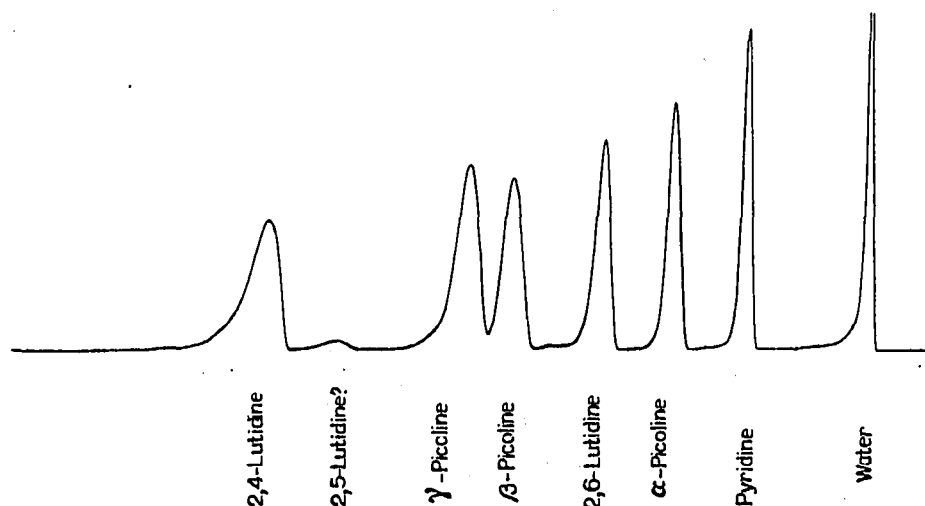


Fig. 1. Gas chromatographic curve of pyridine homologues.

sensitivity 1/2 in a Perkin-Elmer Fraktometer 116 E. The retention time of the last peak (2,4-lutidine) is 76 minutes. The use of Tween 80 (polyoxyethylene sorbitan monooleate) for lower fatty acids has been reported by SMITH¹ and EMERY AND KOERNER². Tween 20 (polyoxyethylene sorbitan monolaurate) was chosen because it has the highest hydrophilic character of the Tween series³ and no double bond.

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¹ B. SMITH, *Acta Chem. Scand.*, 13 (1959) 480.

² E. M. EMERY AND W. E. KOERNER, *Anal. Chem.*, 33 (1961) 146.

³ *Guide to the Use of Atlas Sorbitol and Surfactants in Cosmetics*, Atlas Powder Co., Wilmington, Del., U.S.A., 1956, p. 20.

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