PCB Articles

Stat. ph./concn.: 1% OV-17
Support/mesh size: 70-80 mesh Chromosorb G, a.w. and DMCS
Oper. temp.: 50°C 6 min, then 2°C/min to 250°C

89-88-62-35c-35a

11-71 No. 71-2160 2160

ESTRIOL DETERMINATION IN PREGNANCY URINE BY GAS CHROMATOGRAPHY

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Clin. Chim. Acta 31, No. 1: 255-62 (Jan. 1971)

A GC method was developed for detn. of free estriol in pregnancy urine and shown to be comparable in accuracy to GC of estriol triacetate. IR, NMR and MS studies on estriol and its triacetate after passage through the GC col. indicated that neither underwent structural modification on the col. Preferred method for sample prepn. consisted of hydrolysis of a 24 hr urine specimen with conc. HCL, extrn. of estriol with diethyl ether, removal of estrogens from the ether ext. with NaOH-$NaHCO_3$ & reextrn. of estrogens from the NaOH-$NaHCO_3$ with fresh ether. Conditions for GC of estriol or its triacetate: Hewlett-Packard 402 app. with FID and 4 ft x 3 mm, i.d., cols. packed with 3.8% UC-W982 on 80-100 mesh Diatoport S, oper. temp. 230°, He flow rate 75 ml/min. Data from anal. on random 24 hr urine specimens from pregnant women are reported.

89-88-68-39-35c

11-71 No. 71-2161 2161

INPUT OF POLYCHLORINATED BIPHENYLS INTO CALIFORNIA COASTAL WATERS FROM URBAN SEWAGE OUTFALLS

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Bull. Environ. Contam. Toxicol. 6, No. 3: 235-43 (May-June 1971)

In this paper is reptd., the polychlorinated biphenyls detected in outfalls from 9 sewage treatment plants that discharge waste to the sea in California, including San Francisco Bay. Aliquots were analyzed by GC using a MicroTek 220 GC with a nickel 63 ECD. A 3% QF-1 col. on Chromosorb W, 80-100 mesh, a.w. and DMCS treated was used. Nitrogen carrier flow rate was 95 ml/min. Col. temp. was 190°C. A chromatogram, p. 239. Daily outputs of PCB in the order of two kilograms are equivalent to a ton per year.

89-64-61a-54b

11-71 No. 71-2162 2162

THERMODYNAMICS OF SOLUTIONS WITH LIQUID CRYSTAL SOLVENTS. SURFACE EFFECTS WITH CHOLESTERIC COMPOUNDS

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Anal. Chem. 43, No. 10: 1201-03 (Aug. 1971)

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