METHOD FOR ANALYSIS OF BIPHENYL FOR DIBENZOFURAN AND DIBENZO-P-DIOXIN

PRINCIPLE

Biphenyl is dissolved in a suitable solvent and analyzed for dibenzofuran and dibenzo-p-dioxin by gas chromatography/mass spectrometry.

EXPERIMENTAL

1. Biphenyl dissolved in Nanograde® methylene chloride.
2. Solution analyzed using gas chromatograph/mass spectometer/computer system.
3. Concentrations of dibenzofuran and dibenzo-p-dioxin analyzed using identical conditions.
4. Concentrations of components, if found, are calculated as follows:

$$\text{Concentration (ppm)} = \frac{\text{area sample}}{\text{area standard}} \times \frac{\text{concentration standard (mg/ml)}}{\text{biphenyl concentration (g/ml)}}$$

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