

EPA Method 8270: **Semi Volatile Organics by GC/MS**

I. Materials

Strata SPE Phase: SDBL 500mg/6mL
Part Number: 8B-S014-HCH
Conditioning Solvent: Methanol, DI Water
Wash Solvent: DI Water
Extraction Solvent: Acetone, Ethyl Acetate

II. Sample Preparation

Prepare the sample for analysis by acidifying the matrix to pH 2 using 50% H_2SO_4 and adding 10% NaCl. Fortify the solution with the desired analytes and surrogate analytes dissolved in MeOH.

III. Method

A. Condition:

1. 5mL of Methanol
2. 15mL of DI Water

B. Load:

Load sample into syringe barrel.

C. Wash:

Wash the sample with three 5mL portions of DI Water. Dry thoroughly for 30 – 60 seconds to insure removal of aqueous wash.

D. Elute:

1. Fill the syringe barrel with 5mL of Acetone and pull it through at a rate not to exceed 3 ml/min.
2. Rinse the sample bottle with two 5mL of Ethyl Acetate and decant the portions into the syringe barrel. Pull the volumes through under vacuum each time at a rate that is not to exceed 3 ml/min.

IV. Analysis



- A. Sample should be dried and diluted to a final volume as specified by EPA method 8270.
- B. Analyze by GC using a Zebron ZB-5.

Note: This information is designed to serve as a convenient summary of the solid phase extraction protocol contained in the referenced US EPA method. Phenomenex makes no guarantee regarding the accuracy or completeness of the method. Please contact the US EPA for a copy of the original, complete method.

