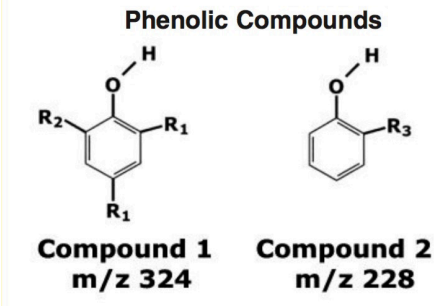
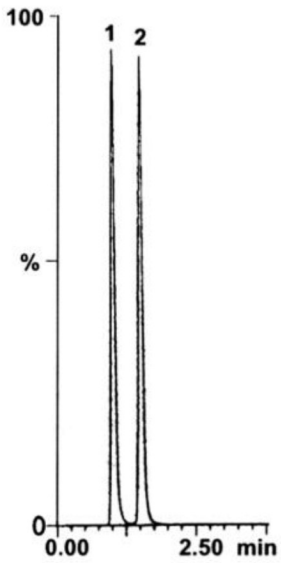
Separation by Functional Groups on a C18

Substituted Phenols





Notes: Because silanols on the silica surface are substituted with Si-H, water is not retained by the stationary phase, so drying of all the solvents is not essential and analyses are very reproducible.

Method Conditions

Column: **Cogent Bidentate C18™**, 4µm, 100Å

Catalog No.: 40018-75P

Dimensions: 4.6 x 75 mm

Mobile Phase: 95% Hexane/ 5% ethyl acetate

Injection vol.: 1µL

Flow rate: 1 mL/min

Detection: Mass Spec: Atmospheric Pressure Chemical Ionization in positive mode: APCI+ Single Ion Monitoring

Sample: 1 mg/mL of proprietary compound. 1 (m/z 324) and 2 (m/z 228) dissolved in the mobile phase

Peaks: 1. Compound 1
2. Compound 2

Discussion

Two proprietary compounds, which are precursors for a catalyst are analyzed using a C18 column under normal phase conditions. Due to the column's properties of the C18, the silica and the lack of silanol groups, separation of the two compounds is extremely reproducible (%RSD 0.1) and is very easy. With this column, there is no need to be concerned with the amount of moisture in your mobile phase.

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