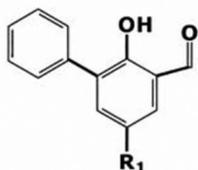
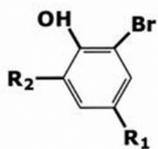


Normal Phase Made Easier

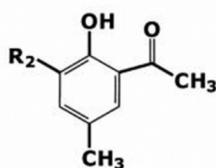
Drying Solvents in the Mobile Phase not Necessary



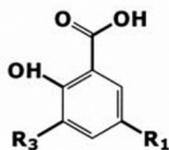
Compound 1



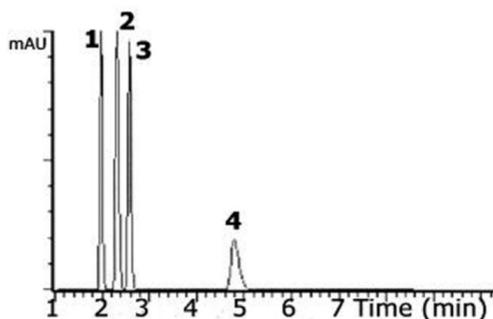
Compound 2



Compound 3



Compound 4



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: Photo Diode Array (UV)

Sample: 1 mg/mL of proprietary compounds were dissolved in the mobile phase

Peaks: 1. Phenolic compound with an aldehyde
2. Parent phenolic compound
3. Phenolic compound with a ketone
4. Phenolic compound with an acid group Photo Diode Array (UV)

Discussion

This Cogent Bidentate C18 column was used to quickly separate four proprietary phenolic compounds (precursors for a catalyst) under Normal Phase conditions. The separation shown is extremely reproducible (%RSD 0.2) and the solvents do not need to be dried before use as with other normal phase columns, saving time and lab resources.

Notes:

1. This method can also be used with Atmospheric Pressure Chemical Ionization in the positive or negative mode: APCI+, APCI-
2. The column used for this application was previously used under Reversed Phase condition. Switching the column to Normal Phase mode required flushing 100% methanol for 10 minutes followed by 100% Methylene Chloride for 10 minutes. This process can be repeated over and over without damage to the column and can go back and forth between modes.