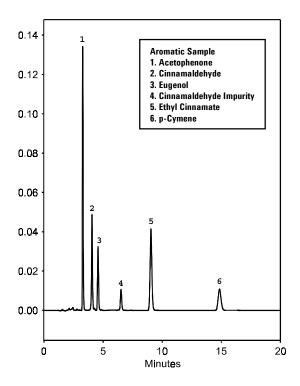


Aromatics are used in both the flavor and fragrance industries. Only a few of the many compounds that can be classified as aromatic were separated for this application note. The odors of the various aromatics in this study are as follows: acetophenone has an orange-blossom-like odor; cinnamaldehyde is found in some cinnamon oils and has a characteristic cinnamon odor; eugenol has an odor of cloves and is also used as a dental analgesic; ethyl cinnamate has a fruity and balsamic odor reminiscent of cinnamon. Cymene occurs in a number of essential oils, but no odor is described in the literature.



Conditions:
Column: ZORBAX Eclipse XDB-Phenyl, 4.6 x 150 mm (3.5µm) Agilent P/N: 963967-912
Mobile Phase: H₂O: MeOH, 40:60
UV: 254 nm; Flow: 1.0 mL / min.; 35°C

Highlights

- Neutral compounds have excellent peak shape on Agilent ZORBAX Eclipse XDB-Phenyl columns.
- Efficiency can be increased with the use of smaller size (3.5 μm vs. 5.0 μm) particles. Plate counts of 13,000 -18,000 were achieved for the five compounds in this application.



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