Application Report 279

Separation of Aromatic Compounds Using Ascentis™ C18

This application demonstrates the suitability of Ascentis C18 in for the separation of amylbenzene, butylbenzene, o-terphenyl and triphenylene by HPLC.

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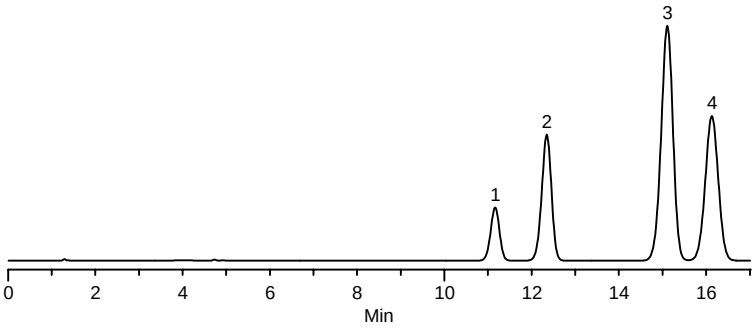
Acquisition System: Waters
Notebook Reference: 1550-35

Key Words

Ascentis C18, 581324-U, aromatics, selectivity, amylbenzene 11, 317-4, 538-68-1, butylbenzene B9, 020-3, 104-51-8, o-terphenyl, T2800, 84-15-1, triphenylene, T8,260-0, 217-59-4



G003040

Conditions

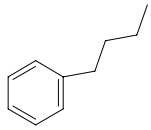
column: Ascentis C18, 15 cm x 4.6 mm I.D., 5 µm particles (581324-U)
mobile phase: 30:70, water:acetonitrile
flow rate: 1.0 mL/min.
temp.: 35 °C
det.: UV at 254 nm
injection: 2 µL
sample: as indicated in acetonitrile

Peak IDs

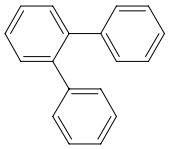
1. Butylbenzene (2.5 µL/mL)
2. o-terphenyl (150 µg/mL)
3. Triphenylene (50 µg/mL)
4. Amylbenzene (2.5 µL/mL)

Structures

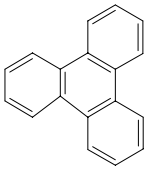
Butylbenzene - G002604



o-terphenyl - G002606



Triphenylene - G002608



Amylbenzene - G002605