Aromatic hydrocarbons, C$_7$ – C$_9$
Analysis of impurities in o-xylene

Application Note

Materials Testing & Research

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Introduction
Gas chromatography with an Agilent CP-Wax 52 CB column separates nine C$_7$ to C$_9$ aromatic hydrocarbon impurities in o-xylene in 16 minutes.
Conditions

Technique: GC-capillary

Column: Agilent CP-Wax 52 CB, 0.32 mm x 25 m fused silica

Temperature: 100 °C (isothermal)

Carrier Gas: nitrogen

Injector: Splitter 1:20

Detector: FID

Peak identification

1. C₃ - C₄ paraffins
2. toluene
3. ethylbenzene
4. p-xylene
5. m-xylene
6. iso-propylbenzene
7. n-propylbenzene
8. ethyltoluene
9. styrene