



Aromatics $C_6 - C_{10}$ + alkanes $C_3 - C_{10}$ Determination of impurities in cumene on a capillary column

Application Note

Energy & Fuels

Authors

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Introduction

Gas chromatography using an Agilent TCEP column identifies seven C_6 to C_{10} aromatic and C_3 to C_{10} alkane impurities in cumene in nine minutes.



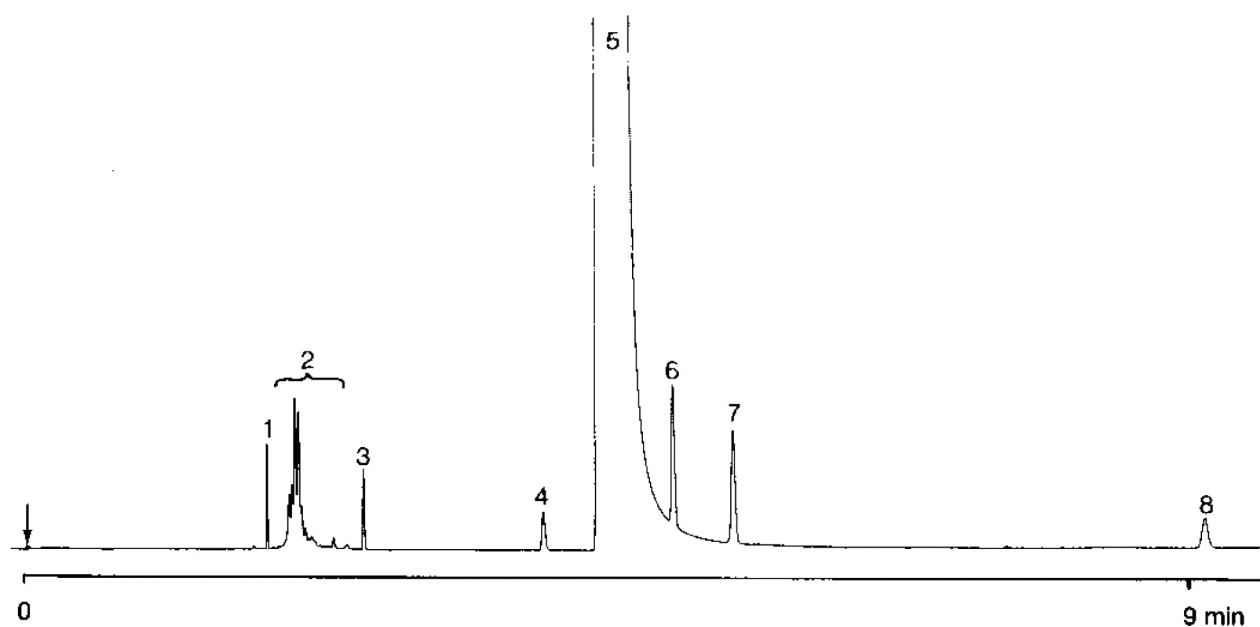
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Conditions

Technique : GC-capillary
Column : Agilent TCEP, 0.22 mm x 50 m fused silica
WCOT TCEP (0.4 μ m) (Part no. CP7525)
Temperature : 80 °C
Carrier Gas : H₂, 180 kPa (1.8 bar), 46 cm/s
Injector : Splitter 100 mL/min
Detector : FID, 32 x 10⁻¹² Afs
Sample Size : 0.2 μ L

Peak identification

1. cyclohexane
2. C₈-C₁₀-alkanes
3. benzene
4. ethylbenzene
5. cumene
6. propylbenzene
7. n-butylbenzene
8. α -methylstyrene



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