Cresols

Analysis of cresol soap

Application Note

Materials Testing & Research

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Introduction

Gas chromatography with an Agilent CP-Cresol column separates eight cresols in a sample of cresol soap in 20 minutes.

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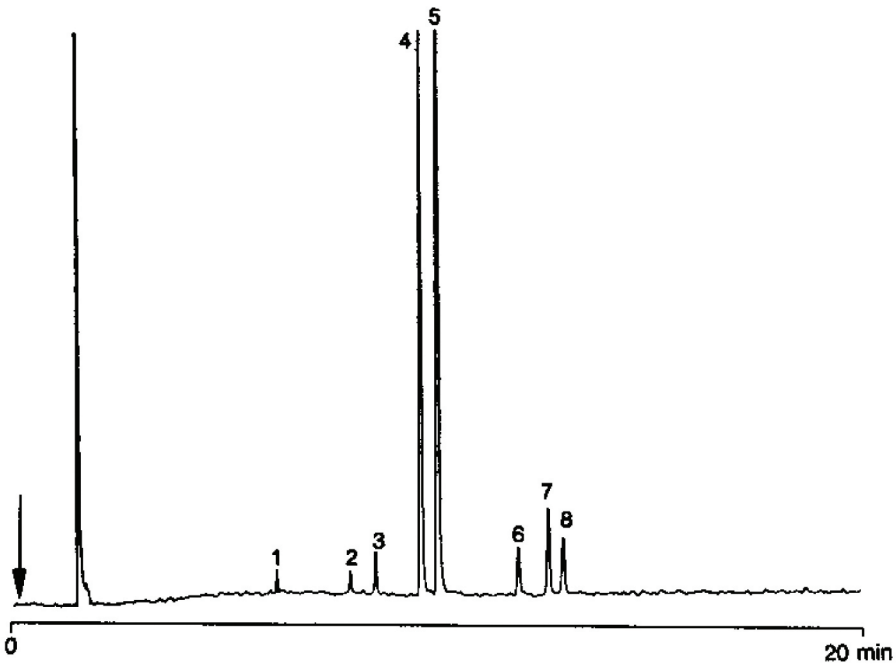
Conditions

Technique	:	GC-capillary
Column	:	Agilent CP-Cresol, 0.25 mm x 50 m fused silica WCOT CP-Cresol (df = 0.2 µm) (Part no. CP7526) plus 0.25 mm x 2.5 m polar retention gap (Part no. CP8087)
Temperature	:	130 °C
Carrier Gas	:	H_2, 150 kPa (1.5 bar, 22 psi)
Injector	:	Split, 150 mL/min T = 200 °C
Detector	:	FID T = 200 °C
Sample Size	:	0.2 µL
Concentration range	:	0.5% (the solution 500 g/L was diluted 100 times with methanol)
Solvent sample	:	methanol

Peak identification

1. phenol
2. o-cresol
3. 2,6-xylenol
4. p-cresol
5. m-cresol
6. o-ethylphenol
7. 2,4-xylenol
8. 2,5-xylenol



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