

Halogenated compounds and CO_{2} in ethylene

Application Note

Materials Testing & Research

Authors

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Introduction

GC/MS analysis of impurities (halogenated and carbon dioxide) in ethylene is achieved in seven minutes with an Agilent CarboBOND column.



Conditions

Technique	:	GC
Column	:	Agilent CarboBOND, 0.53 mm x 25 m fused silica (df = 10 μ m) (Part no. CP7374) connected with 0.1 mm x 20 cm methyl deactivated fused silica at inlet
Temperature	:	80 °C (1 min) \rightarrow 300 °C, 25 °C/min
Carrier Gas	:	Helium, 20 kPa
Injector	:	Split, 10:1
Detector	:	MS
Sample Size	:	0.5 mL
Concentration Range	:	standard with approx. 100 ppm impurities
Matrix	:	ethylene

Courtesy

: Jim Luong, Dow Chemical Canada

Peak identification

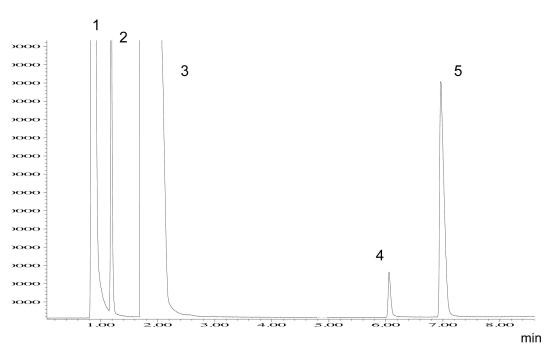


2. carbon dioxide

3. ethylene

4. vinyl chloride

5. ethyl chloride



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