



Oligosiloxanes in silicone oil

Application Note

Materials Testing & Research

Authors

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Introduction

Head space analysis of siloxanes in silicone oil by with GC-FID in 14 minutes using an Agilent FactorFour VF-5ms GC column.



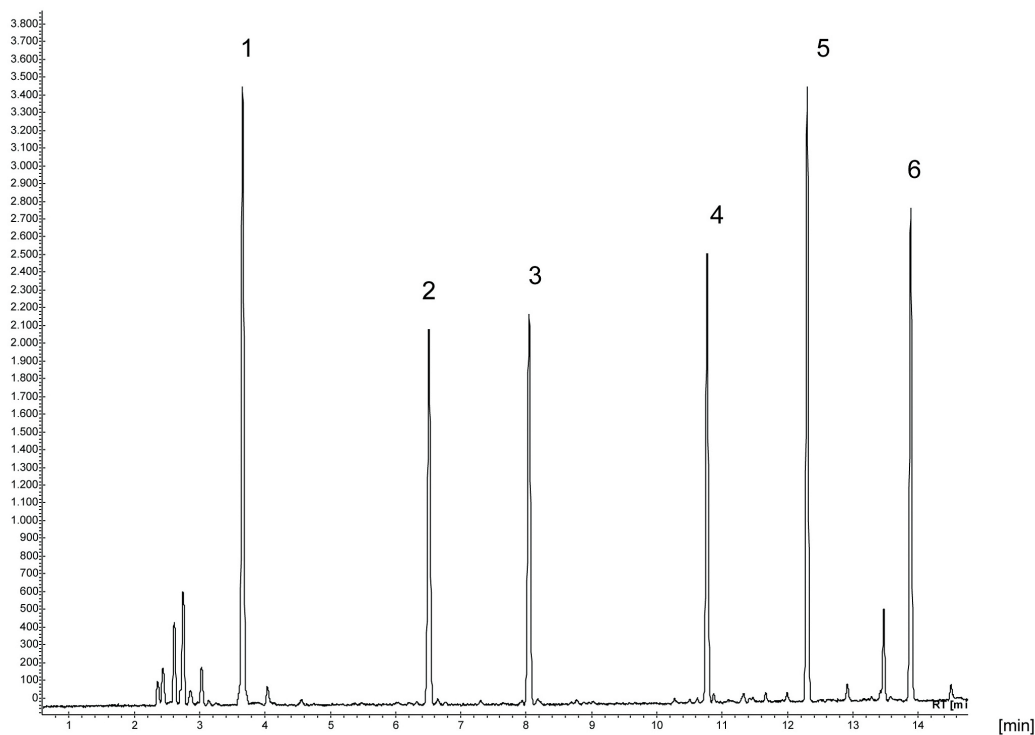
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Conditions

Technique : GC-capillary
Column : Agilent FactorFour VF-5ms, 0.32 mm x 30 m fused silica (df = 0.25 μ m) (Part no: CP8955)
Temperature : 50 °C (5 min) \rightarrow 160 °C, 10 °C/min; 160 °C \rightarrow 220 °C, 20 °C/min, 220 °C (20 min)
Carrier Gas : N₂, 40 kPa, 5.8 Psi
Injector : Headspace, CombiPal
Incubation : 110 °C (60 min)
Syringe : 115 °C
Sample Size : 500 μ L
Injection : Split, 1:10, T : 250 °C
Detector : FID, T : 290 °C

Peak identification

1. hexamethyldisiloxane	14 ppm
2. hexamethylcyclotrisiloxane	23 ppm
3. octamethyltrisiloxane	31 ppm
4. octamethylcyclotetrasiloxane	66 ppm
5. decamethyltetrasiloxane	143 ppm
6. decamethylcyclopentasiloxane	206 ppm



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This information is subject to change without notice.

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