Analysis of Silicone Fluids with Good Detector Response

Agilent PLgel 5 µm MIXED-C Columns

Technical Overview

Introduction

PLgel MIXED-C columns are well suited to the analysis of silicone fluids.

With its linear calibration up to 2 million MW, this is the column of choice for highest resolution and accuracy in molecular weight distribution analyses.

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Figure 1 shows the analysis of polydimethylsiloxane fluid with a quoted kinematic viscosity of 60,000 cS. Toluene is ideal as the eluent for this type of polymer because of the high dn/dc value, providing good detector response.

Rapid solvent change capability, excellent temperature stability and the high resolution of the PLgel 5 µm MIXED-C provide the versatility essential for today's R&D laboratory.

Conditions

Column:	3 x PLgel 5 µm MIXED-C, 300 x 7.5 mm (part number PL1110-6500)
Eluent:	Toluene
Flow Rate:	1.0 mL/min
Detection:	RI

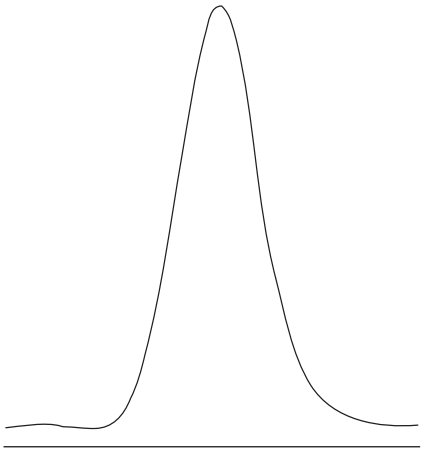

Figure 1. Analysis of a polydimethylsiloxane fluid with a quoted kinematic viscosity of 60,000 cS

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