

# High-Temperature Analysis System



The Viscotek HT-GPC (high-temperature gel-permeation chromatography) from Malvern Instruments is a powerful, fully automated, multi-detector system designed to prepare and analyze polymers, such as polyethylene and polypropylene, which demand temperatures as high as 160°C in order to dissolve for successful analysis. The company says that the system is:

- Capable of generating molecular weight, molecular weight distribution and structural information in a single experiment, and produces an information-rich data stream for intelligent polymer engineering.
- Fully automated, with excellent temperature control, and it is designed to minimize the risk of exposure to the hazardous solvents necessary for these materials.
- Made up of refractive index (RI), viscometry and low-angle light scattering (LALS) detection.
- Able to provide absolute molecular weight without extrapolation or correction, molecular size, intrinsic viscosity and branching information, from a single experiment.
- Characterized by advanced OmniSEC software that drives analysis with full polymer branching calculations capability and an intuitive Branching View function that simplifies the study of long chain branching.

## High-Temperature Analysis System

Published on Chem.Info (<http://www.chem.info>)

---

**Source URL (retrieved on 01/27/2015 - 5:28pm):**

<http://www.chem.info/product-releases/2012/05/high-temperature-analysis-system>

**Links:**

[1] <http://www.malvern.com>