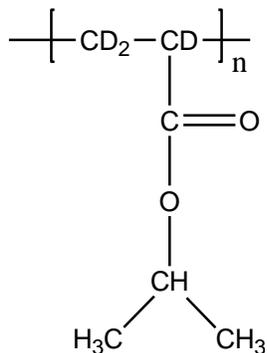


Sample Name:

**Deuterated (d3) Poly(isopropyl acrylate)**  
Backbone protons are deuterated

Sample #: P9153-d3PIPRA

**Structure:**



**Composition:**

$M_n \times 10^3$	PDI
2.2	1.6

**Synthesis Procedure:**

Poly(d3 isopropyl acrylate) is obtained by GTP polymerization process.

**Characterization:**

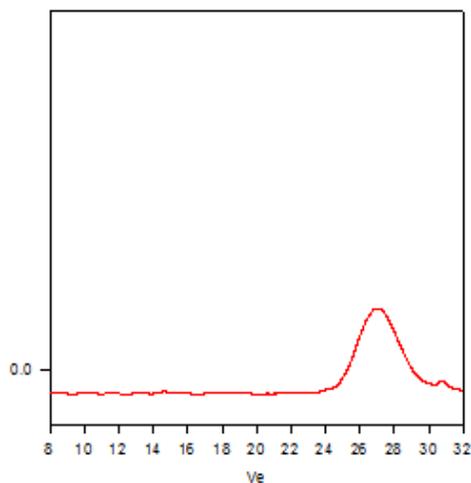
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co.

**Solubility:**

Polymer is soluble in THF, hexanes (low MW), toluene and  $\text{CHCl}_3$ . This polymer precipitates from ethanol and methanol containing 10-15% water.

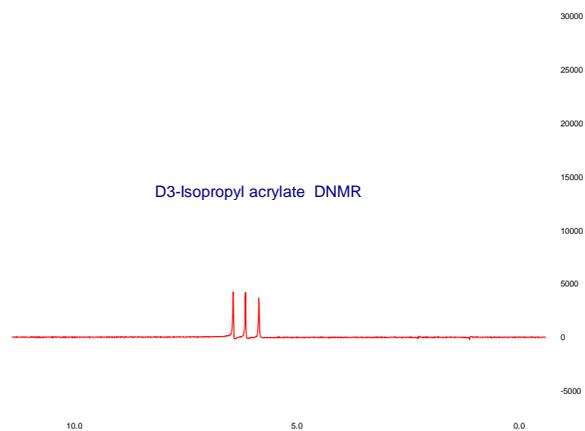
SEC of Sample:

P9153 -d3PIPRA



Size Exclusion Chromatography of Deuterated Poly(Isopropyl acrylate) d3:  
 $M_n = 2200$ ,  $M_w = 3500$ ,  $M_w/M_n = 1.6$

D NMR of isopropyl acrylate monomer:



H NMR of the Monomer:

