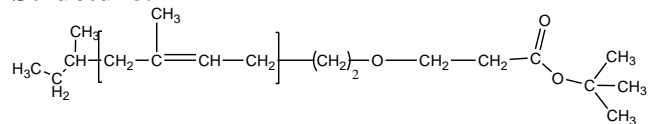


Sample Name: tert. Butyl ester Terminated Polyisoprene, 1,4 -rich microstructure
Sample #: P10805-IPCOOtBu

Structure:



Composition:

$M_n \times 10^3$	PDI
3.5	1.10
COOtBu functionality	>90%

Synthesis Procedure:

Buy anionic polymerization process.

Characterization:

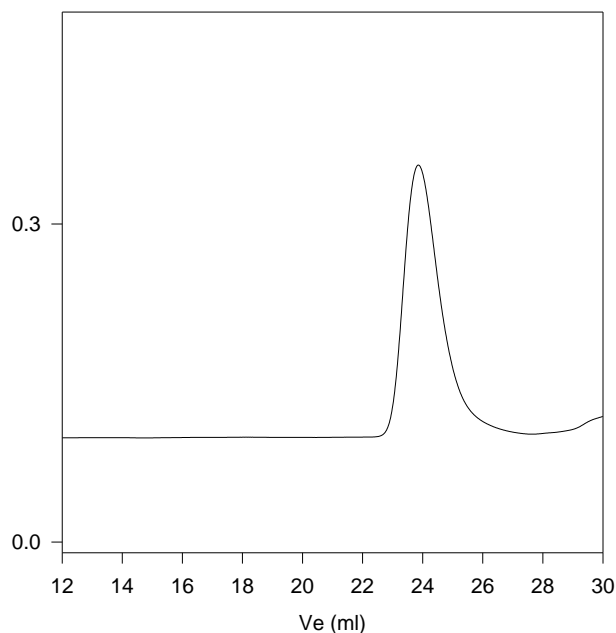
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple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

Solubility:

Polymer is soluble in THF, toluene, hexane, cyclohexane and CHCl_3 . It precipitates from methanol, ethanol and water.

SEC of Sample:

P10805-IPCOOtBu(1,4 rich addition)



Size Exclusion Chromatogram Polymer:

— Polyisoprene: $M_n=3500$, $M_w=3800$, $M_w/M_n=1.10$

^1H NMR of the polymer:

