

Product Profile

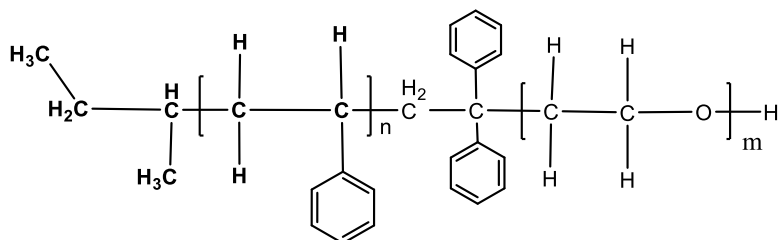
Identification

Product Name: Poly(styrene-b-ethylene oxide)

Product Lot Number: P44806-SEO

CAS #: Not Available

Product Chemical Architecture:



Composition:

Composition (S-b-EO)	11,000-b-25,000
EO mole%	70
Mn (g/mole)	36,000
Mw (g/mole)	38,000
Mw/Mn	1.05
dn/dc (mL/g) in THF at 30 °C	0.103

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Method of Synthesis

The polymer is synthesized by anionic polymerization process.

Solubility in different solvents:

THF	√	DMF	√
Alcohol	X	CHCl ₃	√
Toluene	√	Water	X

Validation of Architecture

A. Gel Permeation Chromatography (GPC), SEC Profile:

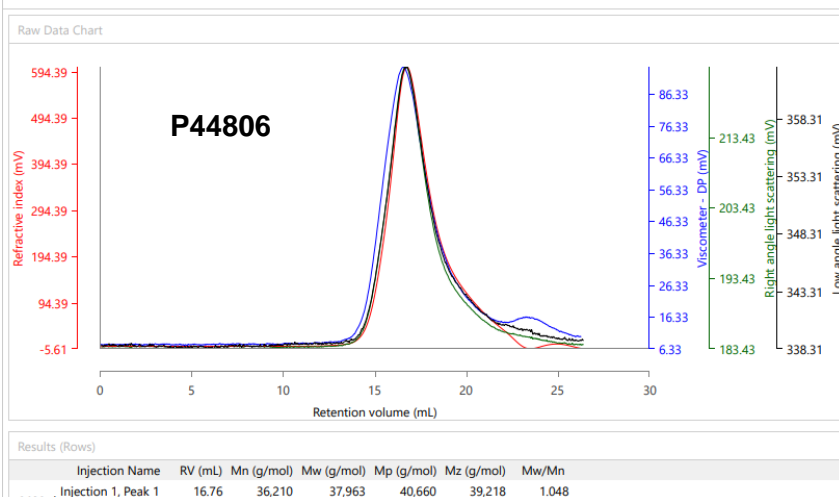
Molecular weights were determined by Malvern OmniSec Reveal & Resolve GPC/SEC System equipped with Triple detector (RI, Viscometer, RALS 90° and LALS 7°) and two columns (PSS, SDV, 8x300 mm). DMF with 0.023M LiBr was the eluent. The flow rate was 0.7 ml/min.

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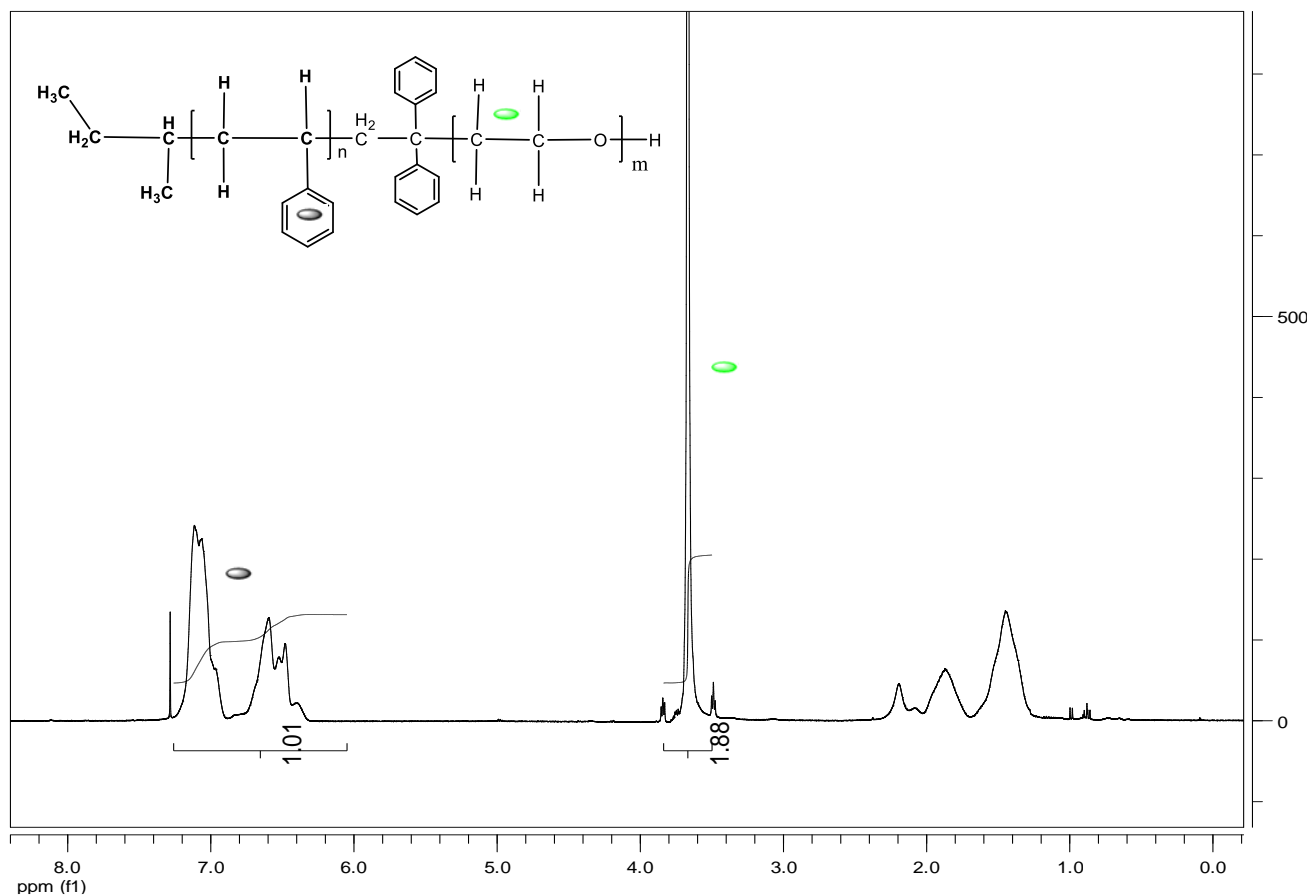
Polymer Source

Malvern Panalytical



B. NMR (¹H NMR) of SEO

SMMA sample was dissolved in CDCl₃. ¹H NMR spectra was determined using a 500 MHz. Bruker Avance III spectrometer.



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