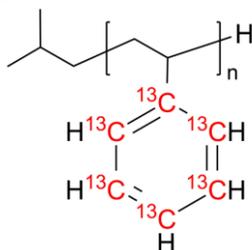


Sample Name: Poly(styrene), C13-labelled
(Six carbons in aryl group are labelled with [13]C)

Sample #: P43157-13C6PS

Structure:

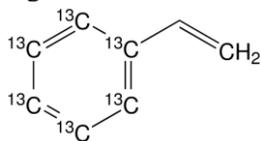


Composition:

Mn x 10 ³	PDI
20.5	1.02

Synthesis Procedure:

The product was synthesized by anionic polymerization process, ¹³C label obtained from Sigma-Aldrich.



CoA from the Supplier :

Sigma-Aldrich

3050 Spruce Street, Saint Louis, MO 63103, USA
 Website: www.sigmaaldrich.com
 Email USA: techserv@sial.com
 Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name: Styrene-(phenyl-¹³C₆) - ≥99 atcm % ¹³C, ≥98% (CP), contains 4-tert-butylcatechol as stabilizer

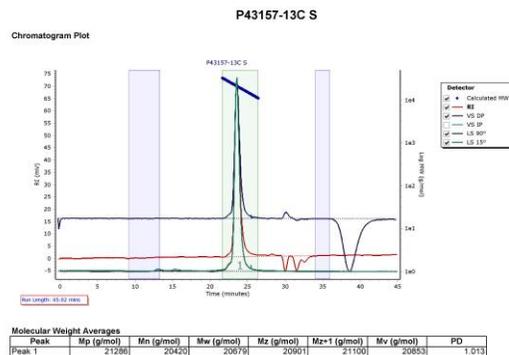
Product Number: 606642
 Batch Number: M6801028
 Brand: ALDRICH
 CAS Number: 287399-41-1
 Formula: ¹³C₆H₅CH=CH₂
 Formula Weight: 110.10 g/mol
 Storage Temperature: Store at -20 °C
 Quality Release Date: 15 FEB 2021
 Recommended Retest Date: MAR 2022



Test	Specification	Result
Appearance (Clarity)	Clear	Clear
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Liquid	Liquid
Purity (GC)	≥ 98 %	99 %
Proton NMR Spectrum	Conforms	Conforms
¹³ C NMR Spectrum	Conforms	Conforms
Water (by Karl Fischer)	≤ 0.5 %	0.0 %
¹³ C Enrichment	≥ 99 %	100 %

Laura E. Baird, Manager
 Quality Assurance & Control
 Mansfield, Ohio US

SEC elugram of Homopolymer:



Characterization:

The product was characterized by size exclusion chromatography (SEC).