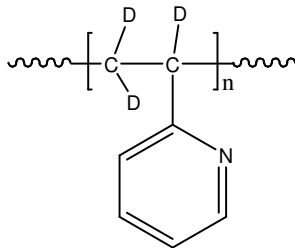


Sample Name:

Deuterated (d3) Poly(2-vinyl pyridine)
(ethyl groups are deuterated)

Sample #: **P18880-d3P2VP**

Structure:



Composition:

Mn x 10 ³	PDI
55.0	1.12

Synthesis Procedure:

The polymer was prepared by anionic living polymerization process.

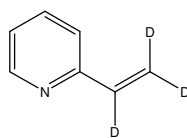
Characterization:

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 DMF, THF, toluene, methanol, ethanol and CHCl₃. It precipitates from water and hexanes, ether.

Structure: For the monomer used

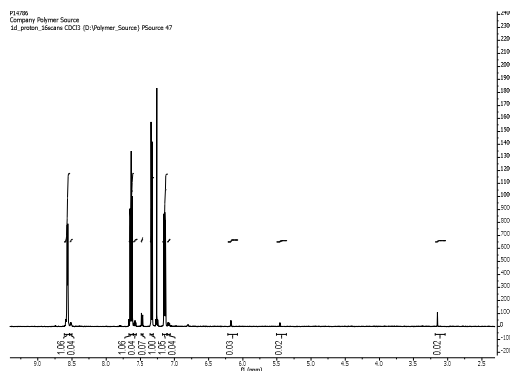


C₇H₄D₃N
Mol. Wt.: 108.16
2-vinylpyridine-d3 (P14786)

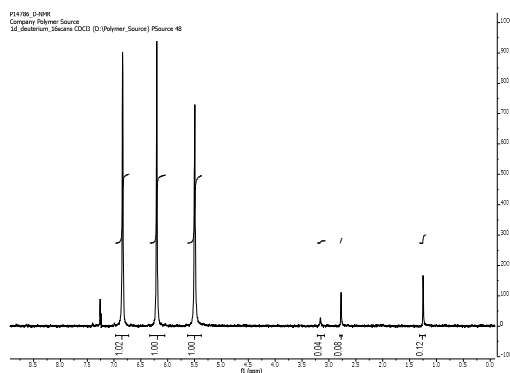
Characterization:

CAS	352530-46-2
D atom purity	98 %
Chemical Purity	90 %
2-Ethynylpyridine (impurity)	6 %
2-Ethylpyridine-d5 (impurity)	4%

¹H NMR of P14786



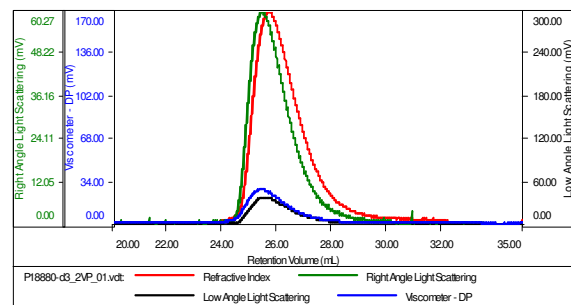
²D NMR of P14786



SEC elugram:

Sample ID: P18880-d3 2VP

Concentration (mg/mL)	2.4075
Sample dn/dc (mL/g)	0.1670
Method File	PS80K-0803-2014-0000.vcm
Column Set	3x PL 1113-6000
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P18880-d3_2VP_01.vct	54,878	61,441	64,887	1.120	0.3886