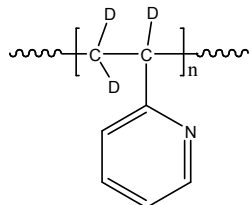


Sample Name:

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

Sample #: **P40449-d3P2VP**

Structure:



Composition:

Mn x 10 ³	PDI
39.0	1.16

Synthesis Procedure:

The polymer was prepared by RADICAL polymerization process.

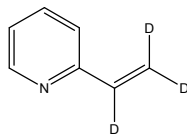
Characterization:

The product was characterized 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, hexanes and ether.

Structure: For the monomer used



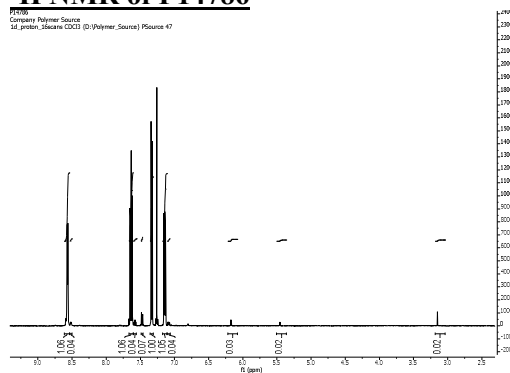
C₇H₄D₃N
Mol. Wt.: 108.16

2-vinylpyridine-d3 (P14786)

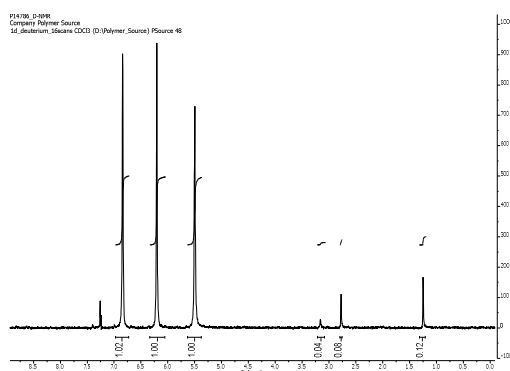
Characterization:

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

¹H NMR of P14786



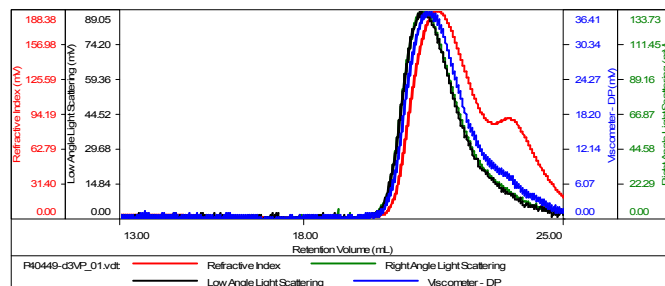
²D NMR of P14786



SEC elugram:

P40449-d32VP

Concentration (mg/mL)	3.2651
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-Feb2017-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P40449-d3VP_01.vdt	39,039	45,392	1.163	0.5180	45,568