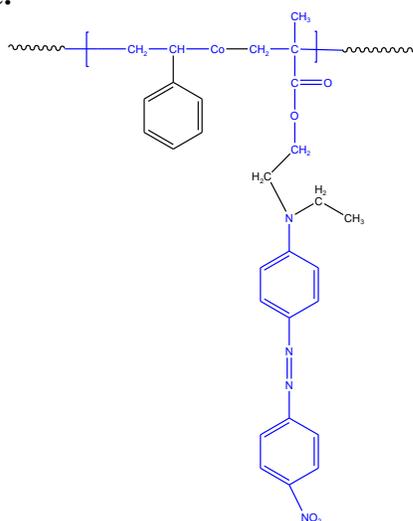


Sample Name: Random Copolymer Poly (Styrene-co-Disperse Red-1 Methacrylate)

Or: Random copolymer of styrene with *N*-Ethyl-*N*-(2-hydroxyethyl)-4-(4-nitrophenylazo) aniline methacrylate

Sample #: P14780-SDR1MAran

Structure:



Composition:

Mn x 10 ³	PDI
PS-co-PDR1MA	
115.0	1.62
PS (mol%) : 99%	

Synthesis procedure:

The polymer is prepared by controlled radical (NMP) process.

Solubility:

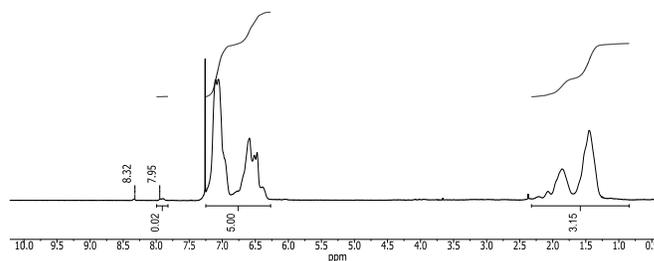
The polymer is soluble in acetone, insoluble in ether and hexane.

Characterization:

The copolymer composition was calculated from ¹H-NMR spectroscopy.

The molecular weight and polydispersity index were determined by size exclusion chromatography (SEC) in DMF at 50°C.

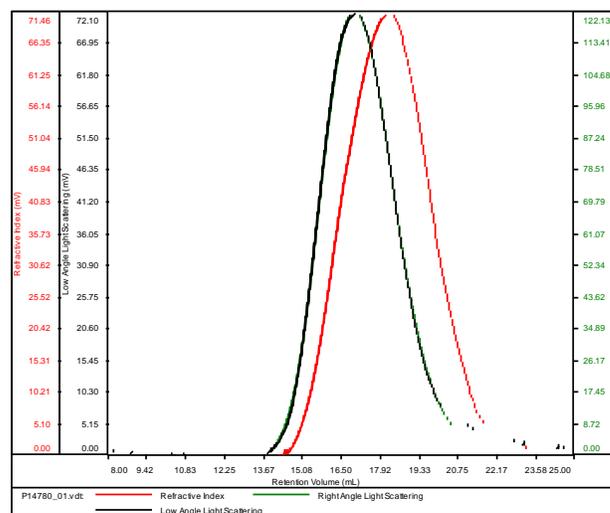
¹H NMR spectrum of the polymer:



SEC elugram of the copolymer:

P14780

Conc	6.1130
dn/dc	0.1650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS80k_2018-02-22-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P14780_01.vdt	114,829	186,242	147,069	1.622	0.1119