

Poly(styrene)-b-poly(ethylene oxide)-b-poly(N,N-dimethyl-N-[carb-tert-butoxymethyl]aminoethyl methacrylate)

Sample #: P41683-SEOCBtBu

Mn x 10 ³ S-b-EO-CB-tBu	PDI
10.0-b-11.5-b-5.0	1.07

CCCCCCCCCCCCSS(=S)SC(C)(C)C(=O)O
$$\text{H}_2\text{C}(\text{CH}_3)_2 \left[\begin{array}{c} \text{CH}_3 \\ | \\ \text{CH}-\text{CH}_2-\text{CH} \\ | \quad | \\ \text{CH}_3 \quad \text{Ph} \end{array} \right]_n - \left[\text{CH}_2-\text{CH}_2-\text{O} \right]_m - \text{C}(=\text{O}) - \text{C}(\text{CH}_3)_2 - \text{S} - (\text{CH}_2)_{10} - \text{SH}$$

Chemical structure of $\text{CH}_3(\text{CH}_2)_{10}\text{CH}_2\text{S-C(=S)-S-C(CH}_3)_2\text{COOH}$ is shown above the spectrum. The spectrum displays several peaks, with the following chemical shifts (ppm) labeled above the baseline:

- 1.000
- 1.260
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Chemical structure of **P41655-Zwitter ionic -1** is shown above the spectrum. The structure is a zwitterionic molecule with a quaternary ammonium cation and a carboxylate anion. The chemical structure is:

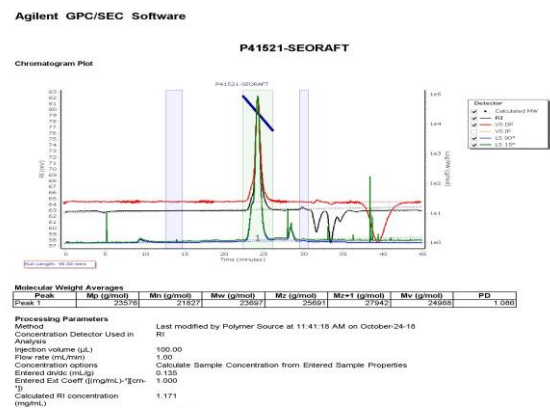
CC(C)(C)OC(=O)C[N+](C)(C)CCOC(=O)C

The spectrum shows peaks at the following chemical shifts (ppm):

Chemical Shift (ppm)	Integration
1.00	1.00
1.04	1.04
1.61	1.61
1.66	1.66
1.68	1.68
1.70	1.70
1.72	1.72
1.74	1.74
1.76	1.76
1.78	1.78
1.80	1.80
1.82	1.82
1.84	1.84
1.86	1.86
1.88	1.88
1.90	1.90
1.92	1.92
1.94	1.94
1.96	1.96
1.98	1.98
2.00	2.00
2.02	2.02
2.04	2.04
2.06	2.06
2.08	2.08
2.10	2.10
2.12	2.12
2.14	2.14
2.16	2.16
2.18	2.18
2.20	2.20
2.22	2.22
2.24	2.24
2.26	2.26
2.28	2.28
2.30	2.30
2.32	2.32
2.34	2.34
2.36	2.36
2.38	2.38
2.40	2.40
2.42	2.42
2.44	2.44
2.46	2.46
2.48	2.48
2.50	2.50
2.52	2.52
2.54	2.54
2.56	2.56
2.58	2.58
2.60	2.60
2.62	2.62
2.64	2.64
2.66	2.66
2.68	2.68
2.70	2.70
2.72	2.72
2.74	2.74
2.76	2.76
2.78	2.78
2.80	2.80
2.82	2.82
2.84	2.84
2.86	2.86
2.88	2.88
2.90	2.90
2.92	2.92
2.94	2.94
2.96	2.96
2.98	2.98
3.00	3.00
3.02	3.02
3.04	3.04
3.06	3.06
3.08	3.08
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3.12	3.12
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3.18	3.18
3.20	3.20
3.22	3.22
3.24	3.24
3.26	3.26
3.28	3.28
3.30	3.30
3.32	3.32
3.34	3.34
3.36	3.36
3.38	3.38
3.40	3.40
3.42	3.42
3.44	3.44
3.46	3.46
3.48	3.48
3.50	3.50
3.52	3.52
3.54	3.54
3.56	3.56
3.58	3.58
3.60	3.60
3.62	3.62
3.64	3.64
3.66	3.66
3.68	3.68
3.70	3.70
3.72	3.72
3.74	3.74
3.76	3.76
3.78	3.78
3.80	3.80
3.82	3.82
3.84	3.84
3.86	3.86
3.88	3.88
3.90	3.90
3.92	3.92
3.94	3.94
3.96	3.96
3.98	3.98
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4.04	4.04
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4.16	4.16
4.18	4.18
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4.22	4.22
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4.28	4.28
4.30	4.30
4.32	4.32
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4.66	4.66
4.68	4.68
4.70	4.70
4.72	4.72
4.74	4.74
4.76	4.76
4.78	4.78
4.80	4.80
4.82	4.82
4.84	4.84
4.86	4.86
4.88	4.88
4.90	4.90
4.92	4.92
4.94	4.94
4.96	4.96
4.98	4.98
5.00	4.44
5.02	4.44
5.04	4.44
5.06	4.44
5.08	4.44
5.10	4.44
5.12	4.44
5.14	4.44
5.16	4.44
5.18	4.44

In water: Opaque solution
In methanol : clear solution at 40 °C

SEC profile of the SEO RAFT Sample used:



SEC profile of the Sample:

