Electronic Supplementary Material (ESI) for Polymer Chemistry.

Supporting Information for:

Triethylene Glycol-Based Poly(1,2,3-Triazolium Acrylate)s with Enhanced Ionic Conductivity

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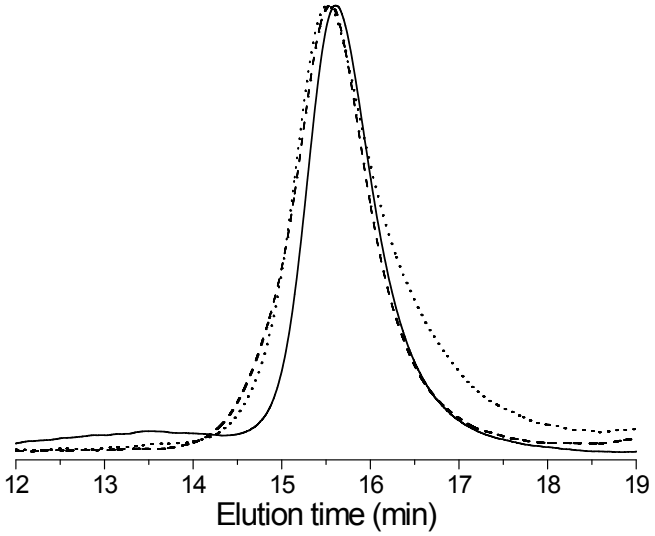

Figure S1. SEC traces (25 °C, $CHCl_3$) of chloride-functionalized polyacrylate **3** (solid line), azide-functionalized polyacrylate **4** (dashed line) and 1,2,3-triazole-functionalized polyacrylate **6** (dotted line).

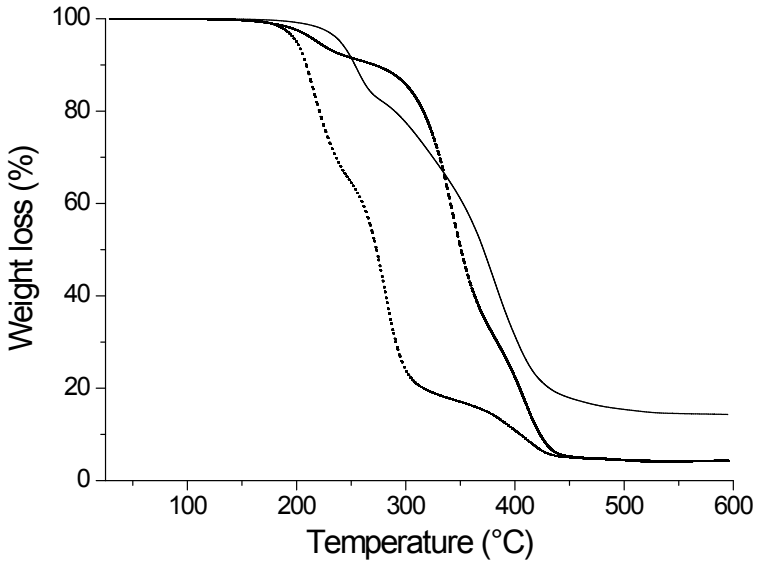

Figure S2. TGA of azide-functionalized polyacrylate **4** (solid line), 1,2,3-triazole-functionalized polyacrylate **6** (dashed line) and poly(1,2,3-triazolium acrylate) **7** (dotted line).

Table S1. Solubility of azide-functionalized polyacrylate **4**, 1,2,3-triazole-funtionalized polyacrylate **6**, and poly(1,2,3-triazolium acrylate)s **7-10**.

N°	H_2O	Heptane	MeOH	EtOAc	Acetone	Et_2O	THF	CH_2Cl_2	$CHCl_3$	CH_3CN	$PhCH_3$	DMF	DMSO
4	-	-	-	++	++	-	++	++	++	++	++	++	++
6	-	-	++	-	++	-	++	++	++	++	-	++	++
7	++	-	++	-	~	-	~	~	-	++	-	++	++
8	-	-	-	-	++	-	~	-	-	++	-	++	++
9	-	-	++	-	++	-	~	-	-	++	-	++	++
10	++	-	~	-	++	-	~	-	-	++	-	++	++

"++" indicates solubility at 10 mg/mL, "+" indicates solubility at 1 mg/mL, "~" indicates partial solubility at 0.1 mg/mL, while "-" indicates no detectable solubility even at 0.1 mg/mL