

Supplementary Information for:

Cationic and dicationic 1,2,3-triazolium-based poly(ethylene glycol ionic liquid)s

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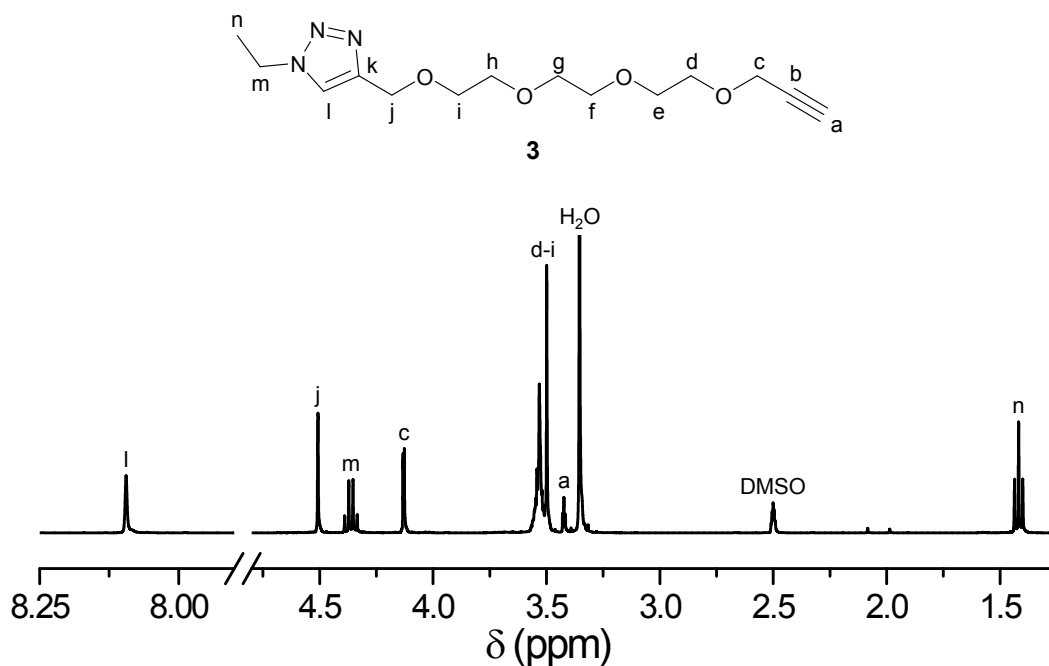


Figure S1. ¹H NMR (DMSO-*d*₆, 400 MHz) of 1,2,3-triazole-functionalized alkyne **3**.

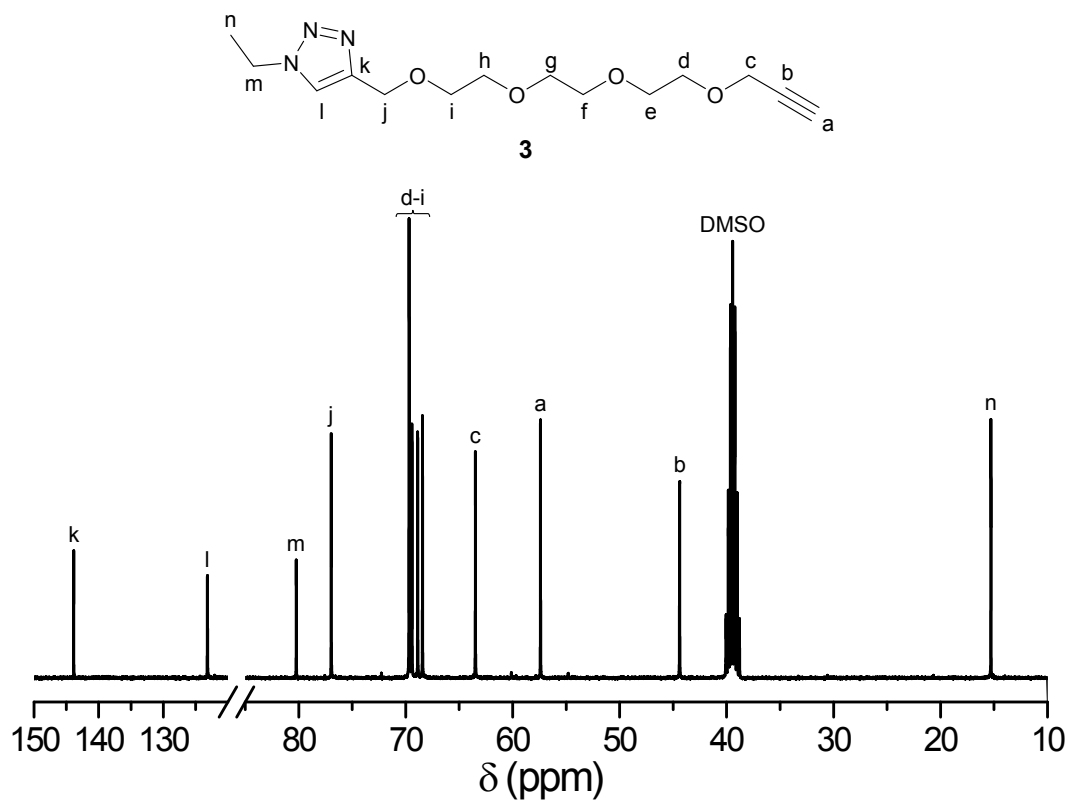


Figure S2. ^{13}C NMR (DMSO- d_6 , 400 MHz) of 1,2,3-triazole-functionalized alkyne **3**.

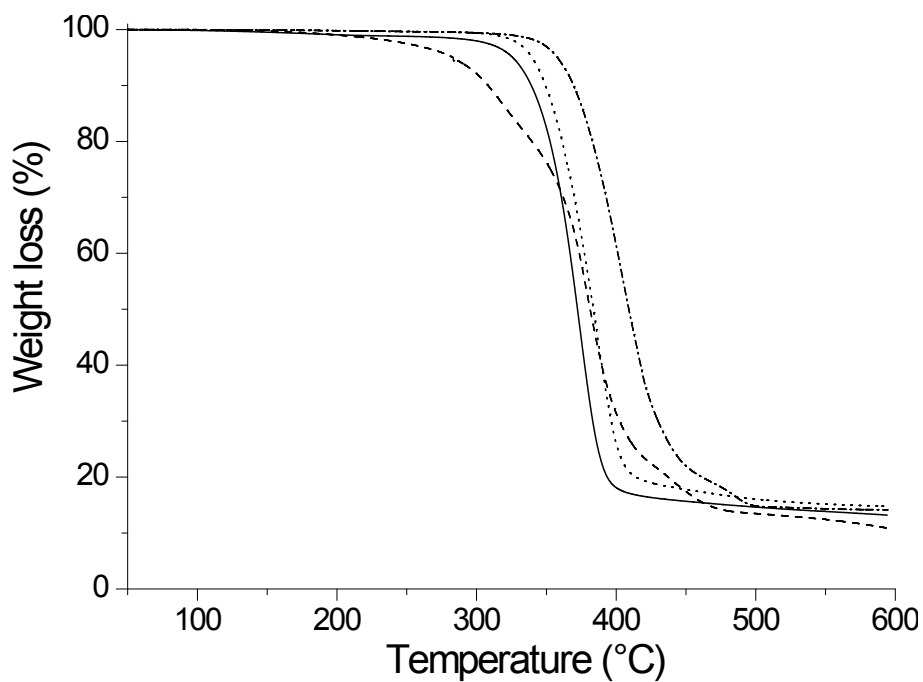


Figure S3. TGA of poly(1,2,3-triazole)s **4** (solid line) and **7** (dotted line), and poly(1,2,3-triazolium)s **5** (dashed line) and **8** (dash-dotted line).

Table S1. Solubility of poly(1,2,3-triazole)s **4,7** and poly(1,2,3-triazolium)s **6,8**.

Entry	H ₂ O ^[a]	Heptane	MeOH	EtOAc	Acetone	Et ₂ O	THF	CH ₂ Cl ₂	CHCl ₃	CH ₃ CN	PhCH ₃	DMF	DMSO
4	–	–	~	+	+	–	+	+	+	+	–	+	~
6	–	–	+	+	–	–	+	+	+	+	–	+	+
7	–	–	+	–	+	–	–	+	+	+	–	+	+
8	–	–	++	~	++	–	~	~	–	++	–	++	++

^[a] “++” indicates solubility at 10 mg mL^{–1}, “+” indicates solubility at 1 mg mL^{–1}, “~” indicates partial solubility at 1 mg mL^{–1}, while “–” indicates no detectable solubility even at 1 mg mL^{–1}.