Supporting Information

Design of Hydrophilic Ruthenium Catalyst for Metal-

Catalyzed Living Radical Polymerization:

Highly Active Catalysis in Water

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Figure S1. ³¹P NMR spectra of P-PhOH and Cp*-based ruthenium complexes prepared with 1:2 ratio ([Ru]₀:[Lignad]₀) in toluene- d_8 at r.t.: [P-PhOH]₀ = 8.0 mM; [[Cp*Ru(μ_3 -Cl)]₄]₀ = 1.0 mM, [P- $PhOH_{0} = 8.0 mM.$



Figure S2. ¹H NMR spectrum (500 MHz) of P-TEG in DMSO- d_6 at r.t.

