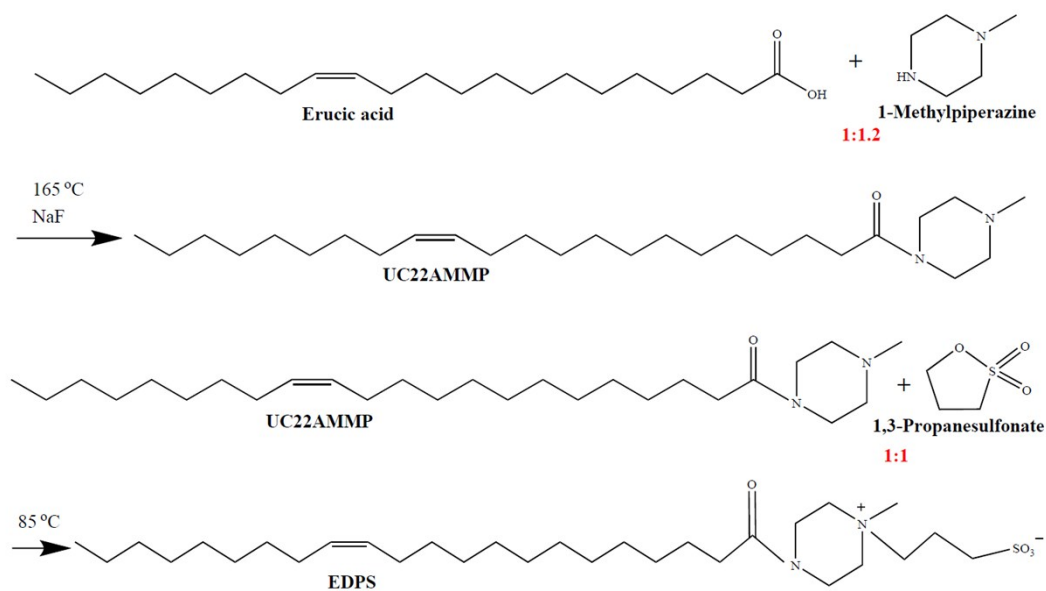


Electronic Supplementary Information



Scheme S1. The synthetic process of EDPS.

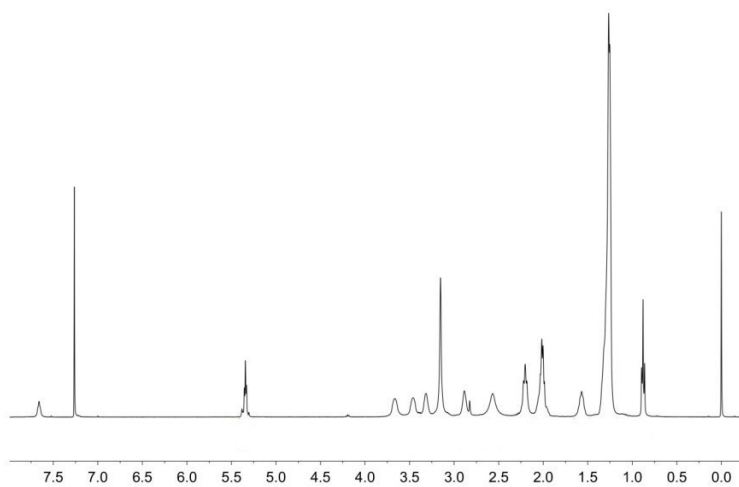


Figure S1. ^1H NMR spectrum of EDPS in CDCl_3 .

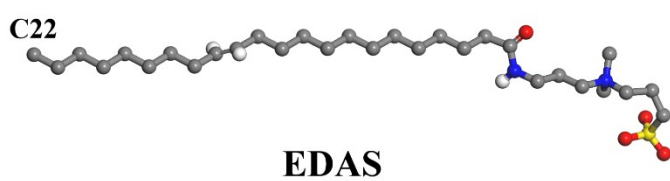
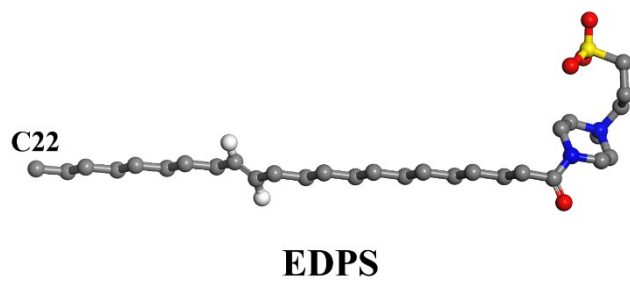


Figure S2. The structures of EDPS and EDAS molecules

Table S1. The viscosity comparison of different C₂₂-tailed surfactant systems

Surfactant	Concentration (mM)	Viscosity (mPa·s)	Temperature (°C)
EDPS	25	$\sim 1 \times 10^6$	25
EHAC/NaSal ³³	60/36	$\sim 3 \times 10^3$	25
EDAA ³⁵	30	$\sim 2 \times 10^4$	25
UC22AMPM ³⁵	30	$\sim 7 \times 10^2$	25
EDAS ⁴⁰	25	$\sim 1 \times 10^4$	25

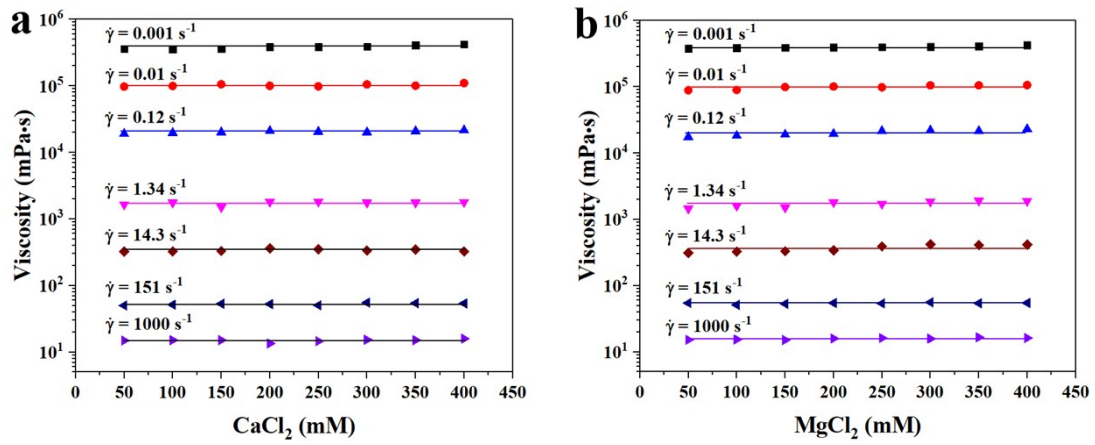


Figure S3. Effects of CaCl₂ (a) and MgCl₂ (b) concentrations on the steady shear viscosity of 25 mM EDPS solution at 25 °C.