

Supporting Information

**The Role of Hydroxyethyl in the Construction of Wormlike
Micelles in the System of Quaternary Ammonium
Surfactant and Sodium Salicylate**

Caili Dai,^a Xuepeng Wu,^a Weitao Li,^a Qin You,^b Mingwei Zhao,^{a*}

Mingyong Du,^a Yifei Liu,^a Yuyang Li^a

*^a School of Petroleum Engineering, State Key Laboratory of Heavy Oil Processing,
China University of Petroleum (East China), Qingdao, Shandong, 266580, People's*

Republic of China

^b School of Energy Resources, China University of Geosciences, Beijing 100083,

People's Republic of China

* Mingwei Zhao Email: zhaomingwei@upc.edu.cn

Tel: +86-532-86981183 Fax: +86-532-86981161

Table S1 Selected of bond lengths (Å) and angles (°) for complex 5

Bonds	Dist.[Å]	Angles	[°]
N(1)-C(17)	1.494(9)	C(17)-N(1)-C(16)	110.6(5)
N(1)-C(16)	1.520(7)	C(17)-N(1)-C(20)	107.2(5)
N(1)-C(20)	1.524(8)	C(16)-N(1)-C(20)	111.3(5)
N(1)-C(18)	1.528(6)	C(17)-N(1)-C(18)	110.8(5)
O(2)-C(21)	1.400(9)	C(16)-N(1)-C(18)	105.6(4)
O(1)-C(19)	1.410(7)	C(20)-N(1)-C(18)	111.4(5)
C(18)-C(19)	1.510(8)	C(19)-C(18)-N(1)	116.1(5)
C(21)-C(20)	1.531(11)	O(1)-C(19)-C(18)	109.0(5)
C(16)-C(15)	1.518(7)	O(2)-C(21)-C(20)	114.7(6)
C(14)-C(13)	1.509(8)	C(15)-C(16)-N(1)	116.0(5)
C(14)-C(15)	1.523(9)	C(13)-C(14)-C(15)	114.1(6)
C(12)-C(13)	1.507(9)	N(1)-C(20)-C(21)	116.8(5)
C(12)-C(11)	1.507(8)	C(13)-C(12)-C(11)	115.2(6)
C(6)-C(5)	1.493(9)	C(16)-C(15)-C(14)	109.3(6)
C(6)-C(7)	1.498(9)	C(5)-C(6)-C(7)	116.7(7)
C(7)-C(8)	1.483(9)	C(8)-C(7)-C(6)	117.3(7)
C(9)-C(8)	1.494(9)	C(8)-C(9)-C(10)	116.8(7)
C(9)-C(10)	1.498(8)	C(11)-C(10)-C(9)	116.3(6)
C(10)-C(11)	1.495(9)	C(7)-C(8)-C(9)	117.5(7)
C(5)-C(4)	1.492(10)	C(4)-C(5)-C(6)	117.0(7)
C(4)-C(3)	1.487(9)	C(3)-C(4)-C(5)	117.2(7)
C(3)-C(2)	1.481(10)	C(10)-C(11)-C(12)	115.8(6)
C(2)-C(1)	1.485(11)	C(12)-C(13)-C(14)	114.7(6)
		C(2)-C(3)-C(4)	117.4(8)
		C(3)-C(2)-C(1)	117.7(8)

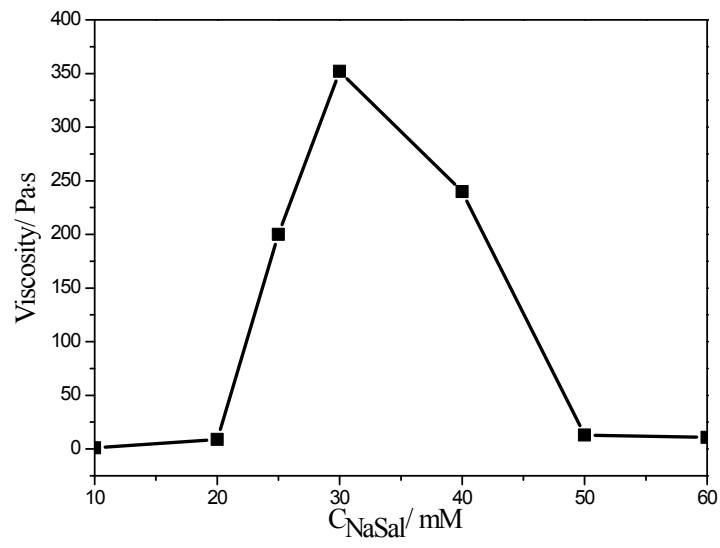


Fig. S1 Variation zero-shear viscosity (η_0) as a function of different concentration of NaSal for the 50 mM CDHAB at 25 °C .