

Supporting Information for

**Modulation of Dynamics and Reactivity of Water in Reverse
Micelles of Mixed Surfactants**

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TABLE S1: Compressibility measurements of the AOT/Brij-30/isooctane/water mixed surfactant reverse micellar systems at $w_0=2.5$

$X_{\text{Brij-30}}$	Density of RM with ($w_0=0$) (kg m^{-3})	Density of RM with ($w_0=2.5$) (kg m^{-3})	Sound velocity in RM with ($w_0=0$) (m s^{-1})	Sound velocity in RM with ($w_0=2.5$) (m s^{-1})	$\phi_v \times 10^{-4}$ (m^3kg^{-1})	$\phi_k \times 10^{-13}$ ($\text{m}^3\text{kg}^{-1}\text{Pa}^{-1}$)
0.0	721.885	725.462	1083.95	1081.00	8.347	10.49
0.2	719.301	722.756	1086.25	1083.65	8.565	10.07
0.4	716.752	720.052	1089.55	1087.50	8.836	9.279
0.6	713.461	716.538	1092.50	1091.00	9.224	8.774
0.8	710.498	713.528	1095.50	1094.20	9.336	8.469
1.0	709.350	712.109	1100.40	1099.60	9.776	8.210