

Table S1. Critical micelle concentration of C16-TAB taken from the bibliography using isothermal titration calorimetry with the same experimental design.

Reference	Temperature (°C)	CMC	Stock Solution Concentration in the Syringe	Method Employed to Calculate de CMC
23	30	0.93 mmol/kg	Not exactly reported (10 times the CMC)	Williams's method using the cumulated heat
33	25	0.9 mmol/kg	Not exactly reported. (more than 20 times de CMC)	Inflexion point (Phillips's method)
34	25	0.94 mM	5 mM	Inflexion point (Phillips's method)
	25	0.888 mM		
	30	0.907 mM		
35	35	0.929 mM	Not reported	Inflexion point (Phillips's method)
	40	0.977 mM		
	45	1.041 mM		
	50	1.104 mM		
36	30	1.03 mM	30.94 mM	Inflexion point (Phillips's method)
	28	0.925 mM		
37	30	0.950 mM	Not exactly reported (10 or 15 times de CMC)	Inflexion point (Phillips's method)
	35	0.975 mM		

Table S2. Micellization enthalpy of C16-TAB taken from the bibliography using isothermal titration calorimetry with the same experimental design.

Reference	Temperature (°C)	Micellization Enthalpy (kJ/mol)	Stock Solution Concentration in the Syringe	Method Employed to Calculate de CMC
23	30	-7.1	Not exactly reported (10 times the CMC)	Difference evaluated at the CMC between the extrapolations of micellar region and monomer region
	25	-10.5		
	30	-11.7		
28	35	-14.1	Not reported	Difference evaluated at the CMC between the extrapolations of micellar region and monomer region
	40	-17.5		
	45	-21.4		
33	25	-8.1	Not exactly reported (20 times the CMC)	Difference evaluated at the CMC between the extrapolations of micellar region and monomer region
34	25	-6.9	5 mM	Difference evaluated at the CMC between the extrapolations of micellar region and monomer region
	25	-7.894		
	30	-11.08		
35	35	-14.00	Not reported	Difference evaluated at the CMC between the extrapolations of micellar region and monomer region
	40	-16.78		
	45	-19.67		
	50	-22.15		
36	30	-13.90	30.94 mM	Difference evaluated at the CMC between the extrapolations of micellar region and monomer region
	28	-9.40		
37	30	-11.12	Not exactly reported (10 or 15 times de CMC)	Difference evaluated at the CMC between the extrapolations of micellar region and monomer region
	35	-14.41		
	25.0	-12.0		
39	29.9	-13.6	565 mM	Direct subtraction of the momomer region from the micellar region
	40.0	-18.5		
	50.1	-23.8		