List of Abbreviation and Symbols:

Aggregation number	N_{agg}
Activity coefficient	f^{m}_{i}
Alkyl chain length	***m***
Apparent solubility of organic compound at the cmc	S_{cmc}
Apparent solubility of organic compounds at the particular	S_{t}
Area per molecule at the interface	A_{min}
Butane-1,4-diyl bis(N,N-dimethyl-N-hexadecyl-ammonium) dibromide	CG3
Butanediyl-1,4-bis(N,N-dimethyl-N-dodecyl-ammonium) dibromide	CG1
Butanediyl-1,4-bis(N,N-dimethyl-N-tetradecyl-ammonium) dibromide	CG2
Cloud point	CP
Cloud-point extraction	CPE
Concentration	[ ]
Critical micelle concentration	***cmc***
Degree of counter-ion binding	β
Degree of micellar ionization	α
Dodecyltrimethylammonium bromide	DTAB
Ethane-1,2-diyl bis(N,N-dimethyl-N-dodecyl-ammonium acetoamide) dichloride	CG4
Ethane-1,2-diyl bis(N,N-dimethyl-N-hexadecyl-ammonium acetoamide) dichloride	CG6
Ethane-1,2-diyl bis(N,N-dimethyl-N-tetradecyl-ammonium acetoamide) dichloride	CG5
Hexadecyltrimethylammonium bromide	CTAB
Ideal gas constant	R
Ideal micelle mole fraction of first component	X^{i}_{1}
Interaction parameter	β^{m}
Lower consolute solution temperature	LCST
Maximum surface excess concentration	Γ_{max}

Micelle-water partition coefficient	K_m
Micellar mole fraction	$X^m{}_1$
Molar concentrations of the micellar concentration	C_m
Total surfactant concentration	C_t
Molar extinction coefficient	ε
Molar Solubilization ratio	MSR
Molar volume of water	V_m
Phosphoric acid, P,P'-1,4-butanediyl P,P'-ditetradecyl ester, disodium salt	12-4-12
Polycyclic aromatic hydrocarbon	PAH
Sodium dodecyl sulfate	SDS
Sodium dodecylsulfonate	SDSo
Sodium dodecylbenzenesulfonate	SDBS
Sodium cholate	SC
Sodium deoxycholate	SDC
Spacer	**s**
Specific conductance	***κ***
Standard enthalpy of micellization	$\Delta H°_{mic}$
Standard entropy of micellization	$\Delta S°_{mic}$
Standard Gibbs free energy of micellization	$\Delta G°_S$
Standard Gibbs free energy of solubilization	$G°_S$
Surface pressure at the cmc	Π_{cmc}
Surface tension at cmc	γ_{cmc}
Surfactant concentration required to reduce the surface tension of water 20 mN/m	C_{20}
Temperature	T
Tetradecyltrimethylammonium bromide	TTAB
Tetrabutylammonium tetradecyl sulfate	TBATS
tetra-*n*-butylammonium bromide	TBAB
tetra-n-butylphosphonium bromide	TBPB
Benzyl trimethylammonium chloride	BTAC
tetra-n-phenylphosphonium bromide	TPhPB
tetra-n-pentylammonium bromide	TPeAB

Upper consolute solution temperature	UCST
Ultraviolet-visible	UV-Vis
Wavelength at maximum absorbance	λ_{max}