

List of abbreviations / symbols

Aggregation number	N_{agg}
Anionic gemini surfactant	AGS
Alkyl chain length	m
Apparent dielectric constant	ϵ_a
Apparent solubility of organic compound at the cmc	SCMC
Apparent solubility of organic compounds at the particular surfactant	
Concentration	S_a
Area per molecule at the interface	A_{min}
Avogadro's number	N_A
Brunauer- Emmett- Teller	BET
Cationic gemini surfactant	CGS
Cetyl trimethylammonium bromide	CTAB
Chemical shift value in NMR	δ
Chloroform	$CHCl_3$
Cloud point	CP
Cloud point extraction	CPE
Correlation coefficient	R
Concentration	$[]$
Critical aggregation concentration	cac
Critical micelle concentration	cmc
cmc minimum	$cmcm$
cmc expressed in mole fraction unit	X_{cmc}
Deuterium oxide	D_2O
Dichloromethane	DCM
Differential scattering cross-section per unit volume	$d\Sigma/d\Omega$
Dodecyltrimethylammonium bromide	DTAB
Dynamic Light Scattering	DLS
Fourier transform infrared spectroscopy	FT-IR
Graphene Oxide	GO
Hydrodynamic diameter	D_h
Ideal micelle mole fraction	X_i
Interaction parameter	β_m

Ideal gas constant	R
Micelle to vesicle transition	MVT
Micelle-water partition coefficient	K_m
Molar concentrations of the micellar concentration	C_m
Molar concentrations of the total surfactant concentration	C_s
Molar extinction coefficient	ε
Molar solubilization ratio	MSR
Molar volume of water	V_m
Mole fraction of 12-4-12-A	$X_{12-4-12A}$
Nitrogen	N_2
Nuclear Magnetic Resonance	NMR
Polarized optical microscope	POM
Polycyclic aromatic hydrocarbon	PAH
Small angle neutron scattering	SANS
Specific conductance	κ
Tetra <i>n</i> -pentylammonium Bromide	TPeAB
Transmission Electron Microscopy	TEM
Ultraviolet-visible	UV-Vis
Wavelength of maximum absorbance	λ_{max}