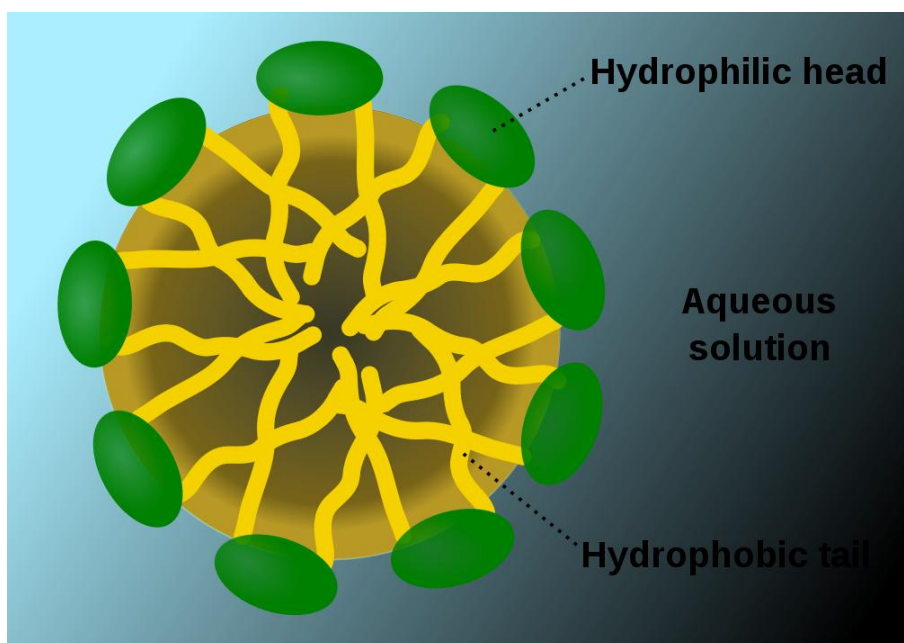


Electronic Supplementary Information

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Sketch 1 A figurative representation of a micelle taken from Wikipedia

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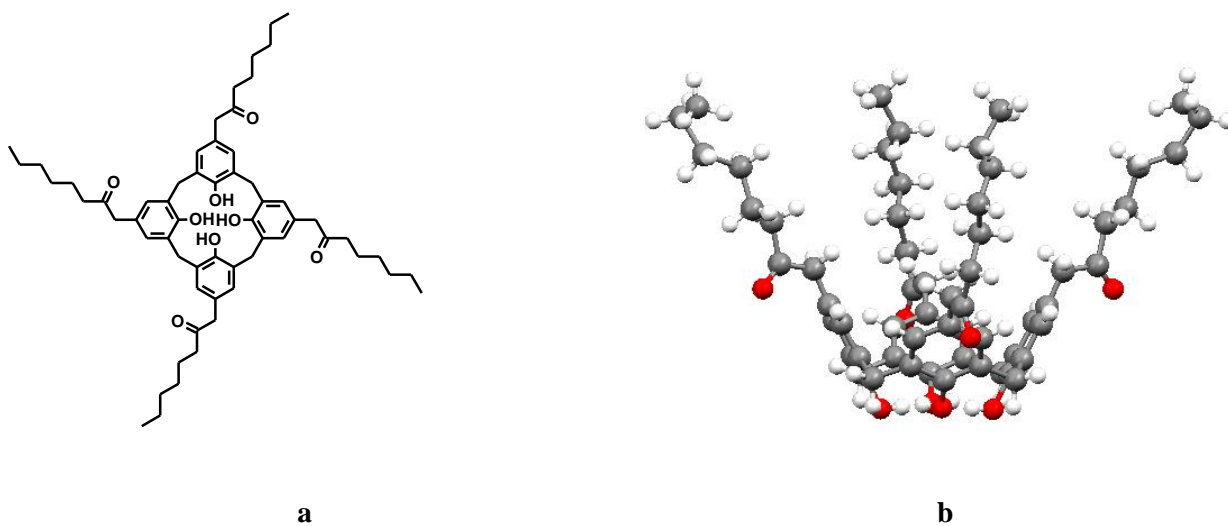


Figure 1. β -Carbonyl-*para*-octyl-calix[4]arene: (a) molecular formula, (b) the molecular structure as found in cubic structure.

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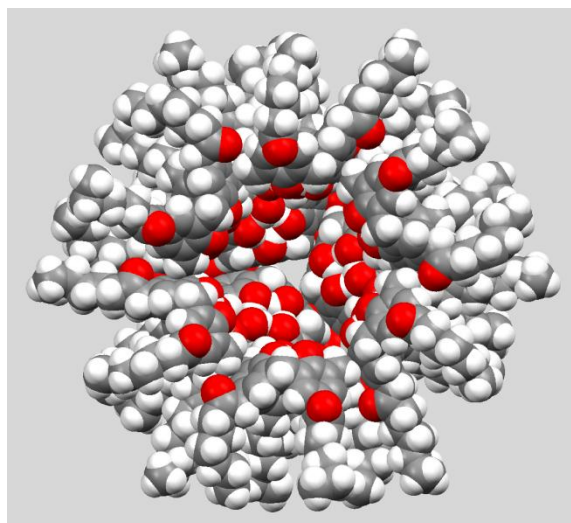


Figure 2. The structure of β -carbonyl-*para*-octyl-calix[4]arene inverted micelle: the space filling presentation – 3 top molecules have been removed to allow the central hydrophilic void to be seen.

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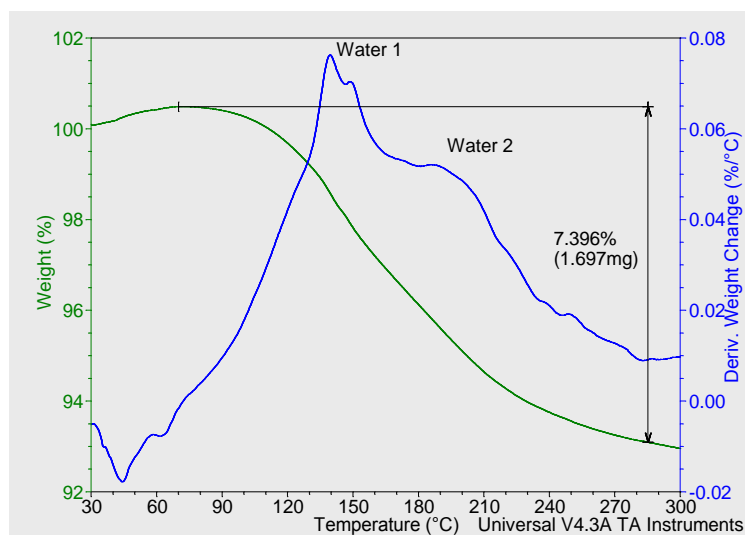


Figure 3. TGA curves (Du Pont Thermal Analyst System 2100, TGA 951; thermal program: heat from room temperature at 10 °C/min; sample mass 22.9 mg, the sample was dried on air for 24 hours; purge gas: argon; sample pan: platinum).

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