

Ionization degrees and critical micelle concentrations of hexadecyltrimethylammonium and tetradecyltrimethylammonium micelles with different counterions

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Ionization degrees (α) of micelles of hexadecyltrimethylammonium (CTAX) and tetradecyltrimethylammonium (TTAX) ($X = OH^-, Br^-, Cl^-, NO_3^-, SO_4^{2-},$ and CO_3^{2-}) were measured by a modified free electrophoresis method and by Evan's method. Cmc values for the CTAX and TTAX surfactants were also measured. Whenever possible the α and cmc values thus obtained were compared with those reported in the literature. © 1985 American Chemical Society.