

ADDITIONS AND CORRECTIONS

2008, Volume 112C

Mahamud Subir, Jian Liu, and Kenneth B. Eisenthal*:
Protonation at the Aqueous Interface of Polymer Nanoparticles
with Second Harmonic Generation.

Page 15809. A complete description of the E_{SHG} vs bulk pH data analysis was erroneously left out in the original manuscript. The term A in eq 13, which describes the $\chi^{(2)}$ contribution to the second harmonic signal, is also a function of f , fraction of carboxyl groups that are ionized. It was mistakenly written as a parameter. The value of A is given by the following equation:

$$A = A_{\text{HA}}(1 - f) + fA_{\text{A}^-} + A_{\text{water+polystyrene}}$$

The quantities $A_{\text{HA}} + A_{\text{water+polystyrene}}$, and $A_{\text{A}^-} + A_{\text{water+polystyrene}}$ were obtained from the SHG measurements on the neutral particles ($f = 0$) at pH 1 and the completely charged particles ($f = 1$) at pH 11, respectively. Accordingly, the entire E_{SHG} vs bulk pH data were fitted with the surface $\text{p}K_{\text{a}}^{\text{s}}$ as the fitting parameter.

10.1021/jp905613e

Published on Web 11/04/2009