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## Erratum: “Hard sphere radial distribution function again” [J. Chem. Phys. **123**, 024501 (2005)]

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Some misprints have been found for parameters  $\mu \equiv \mu_o$  and  $\gamma \equiv \gamma_o$  given by Eqs. (29) and (30) and the relevant equations in the Appendix. Both of these parameters can be evaluated directly using the original Wertheim solution<sup>1</sup> where they read

$$\mu\sigma \equiv \mu_o\sigma = \frac{2\eta}{1-\eta} \left( -1 - \frac{d}{2\eta} + \frac{\eta}{d} \right), \quad (29)$$

$$\gamma \equiv \gamma_o = \arctan \left\{ - \frac{1}{\beta_o} \frac{[\sigma(\alpha_o[\alpha_o^2 + \beta_o^2] - \mu_o[\alpha_o^2 - \beta_o^2])(1 + \frac{1}{2}\eta) + (\alpha_o^2 + \beta_o^2 - \mu_o\alpha_o)(1 + 2\eta)]}{\sigma(\alpha_o^2 + \beta_o^2 - 2\mu_o\alpha_o)(1 + \frac{1}{2}\eta) - \mu_o(1 + 2\eta)} \right\}. \quad (30)$$

The calculations have been performed using correct equations and all results reported are not affected by these misprints.

The authors thank Monte Pettitt, Marcelo Marucho, Sorin Bastea, and Andreas Santos for their interest in the application of our equation that led to the discovery of the above misprints.

<sup>1</sup>M. S. Wertheim, Phys. Rev. Lett. **10**, 321 (1963).

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