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Erratum: "Hard sphere radial distribution function again"

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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[1] where they read

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

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

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

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[1] M. S. Wertheim, Phys. Rev. Lett. **10**, 321 (1963).

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