J Math Chem (2009) 45:867
DOI 10.1007/s10910-008-9449-5

ERRATUM

Calculation of two-center overlap integral in molecular coordinate system over Slater type orbital using Löwdin α-radial and Guseinov rotation–angular functions

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Received: 29 July 2008 / Accepted: 5 August 2008 / Published online: 5 September 2008

Erratum to: J Math Chem (2008) 44:365 DOI 10.1007/s10910-007-9313-z

The authors regret that in the above article Equations (6) and (7) were some misprints. They are now reproduced correctly below:

$$S_{nl\lambda,n'l'\lambda}(\zeta,\zeta',R) = N_{nl,n'l'\lambda}(-1)^{l'+\lambda}\left(\frac{\zeta}{\zeta'}\right)^{n+\frac{1}{2}} \times \sum_{i=0}^{n'+l'+l}\sum_{j=0}^{n'+l}(n-l+j)!C_l^{n'l'\lambda}(i,j)(\zeta' R)^{n-2l-l'+i+j} \times \left[e^{-\zeta' R}\left(\frac{(-1)^j}{[R(\zeta-\zeta')]^{n-l+j+1}} - \frac{1}{[R(\zeta+\zeta')]^{n-l+j+1}}\right) + e^{-\zeta R}\sum_{k=0}^{n-l+j}\frac{1}{(n-l+j-k)!}\left(\frac{(-1)^i}{[R(\zeta+\zeta')]^{k+1}} - \frac{(-1)^j}{[R(\zeta-\zeta')]^{k+1}}\right)\right] \quad \text{for } \zeta \neq \zeta' \tag{6}$$

$$N_{nl,n'l'\lambda} = (-1)^{\lambda}2^{n'+n}\left[\frac{(2l+1)(2l'+1)(l'+\lambda)!(l-\lambda)!}{(2n)!(2n')!(l+\lambda)!(l'-\lambda)!}\right]^{\frac{1}{2}} \tag{7}$$

The online version of the original article can be found under doi:10.1007/s10910-007-9313-z.

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