

z-Scores and other scores in chemical proficiency testing

The **D** and **D**% score and $\delta_{\rm E}$

The z'-score

A d fica e - c e, $'=(-)/\sqrt{\sigma^2+^2(-)}$, the edf te e et ce a () a deede a ed ate t ffice are affec e - c e a ec ab . The transport to the edt ced by e a 4% eare. Te '- c e c ec e e a dade e de a from e are ed, at e, bt fa d ffee a e be ee a et a da are ed, at e.

The zeta-score and E_n

T e e a c e, $\zeta = (-)/\sqrt{\frac{2}{(+)^2}}$ ca be t ed a ce e e e a c a t b a e t a t ce a e ae (), ad ea ed ate ace fied efe e ce at e at ce a (). L e , e a c e t de ± 2 a e fte e a ded a $\pm t$ e ab e a d at e t de ± 3 a e cat e f ac a ea c ce . Zeace ceaeaee edea f e a ed ate ceae a ee edt ce a e ae, aaje eac eca dcaeaajee ,a t de e a ed t ce a , b . T a b , t ea e eeace e e a ta tdaca c e edtce e c eb e a (). e e a a e e a dedt ce a e . c e ae eefeabt affece deace, e caba aba e a a a caaba e.

The z_L -score

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