

ERRATUM

A.B. Teplitsky, I.K. Yanson, O.T. Glukhova, A. Zielenkiewicz, W. Zielenkiewicz and K.L. Wierzchowski, Thermochemistry of aqueous solutions of alkylated nucleic acid bases. Part III. Enthalpies of hydration of uracil, thymine and their derivatives. *Biophys. Chem.* 11 (1980) 17.

Calculated ΔH_{int}^0 values in table 2 and referred to in the text should read: -122.6 , -123.7 , -126.2 , 140 , -136.5 , -138.9 , -144.6 and -140.2 $\text{kJ} \cdot \text{mole}^{-1}$ for Ura, m^1Ura , $\text{m}_2^{1,3}\text{Ura}$, $\text{m}_3^{1,3,6}\text{Ura}$, Thy, m^1Thy , $\text{m}_2^{1,3}\text{Thy}$ and $\text{e}_2^{1,3}\text{Thy}$, respectively. Accordingly redrawn plots of ΔH_{int}^0 versus n_{CH_2} (fig. 1b) should look as shown below.

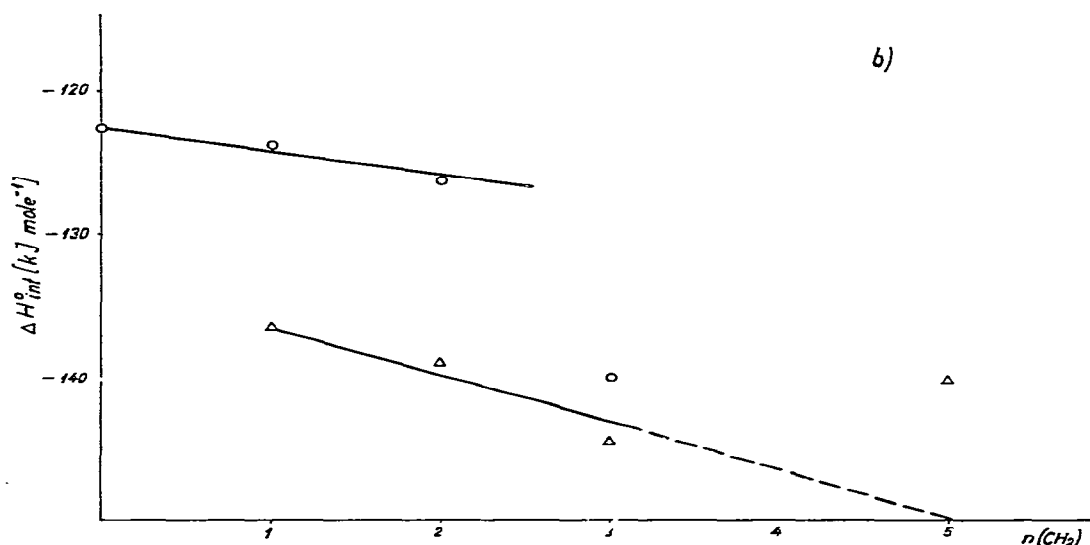


Fig. 1b

The sentence (page 19, right column, line 5 from the bottom) beginning with “While an increase...” should be replaced by following paragraph: “Successive N-methyl substitution brings about slight increase in $|\Delta H_{\text{int}}^0|$ in both series of derivatives with a mean increment of $1.5 \text{ kJ}(\text{mole CH}_2)^{-1}$ in the uracil series and an about twofold higher one in the thymine series (except for $\text{e}_2^{1,3}\text{Thy}$). Substitution of methyl group either at C(5) or C(6) gives much larger effect, viz. an increase in the absolute energy of interaction in the range of $13.9\text{--}18.4 \text{ kJ}(\text{mole CH}_2)^{-1}$, the actual value of which seems to depend both on the number of N-CH₃ groups already present in the molecule and the position of C—substitution”. On page 20, left column after the sentence ending with “... a new equilibrium structure” following sentence should be added: “Our data do indicate that in this structure the expected loss in energy of interaction, due to less energetically favorable hydrogen bonding scheme between tertiary amide group(s) and water, is slightly more than compensated by gain in this energy connected with an increased number of inter-atomic contacts”. In the sentence beginning with “Opposite effects...” (page 20, left column, first line from the bottom) delete word “Opposite”.

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