

Accepted Manuscript

Effective binding of perhalogenated *closo*-borates to serum albumins revealed by spectroscopic and ITC studies

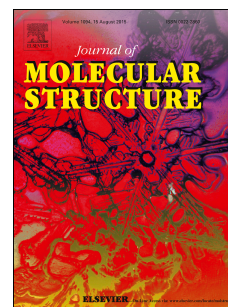
Marina V. Kuperman, Mykhaylo Yu. Losytskyy, Alexander Yu. Bykov, Sergiy M. Yarmoluk, Konstantin Yu. Zhizhin, Nikolay T. Kuznetsov, Oleg A. Varzatskii, Elzbieta Gumienna-Kontecka, Vladyslava B. Kovalska

PII: S0022-2860(17)30332-0

DOI: [10.1016/j.molstruc.2017.03.059](https://doi.org/10.1016/j.molstruc.2017.03.059)

Reference: MOLSTR 23555

To appear in: *Journal of Molecular Structure*



Please cite this article as: Marina V. Kuperman, Mykhaylo Yu. Losytskyy, Alexander Yu. Bykov, Sergiy M. Yarmoluk, Konstantin Yu. Zhizhin, Nikolay T. Kuznetsov, Oleg A. Varzatskii, Elzbieta Gumienna-Kontecka, Vladyslava B. Kovalska, Effective binding of perhalogenated *closo*-borates to serum albumins revealed by spectroscopic and ITC studies, *Journal of Molecular Structure* (2017), doi: 10.1016/j.molstruc.2017.03.059

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Highlights

halogen *closo*-borates $[\text{B}_{10}\text{Hal}_{10}]^{2-}$ and $[\text{B}_{12}\text{Hal}_{12}]^{2-}$ bind to serum albumins

binding leads to the protein fluorescence quenching due to heavy atom effect

binding constants for *closo*-borate-albumin interactions are in the range 10^4 - 10^6 M^{-1}

one albumin globule can bind up to 5 halogen *closo*-borate anions

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