

Relationship between liquid metals surface tension and their atomization energy. / A. A. Kapanadze, G. D. Tabatadze, M. S. Taktakishvili. / Nano Studies. – 2015. – # 12. – pp. 115-118. – rus.

The relationship between the liquid Bi and Hg metals surface tension and their atomization energy is investigated. Observations were carried out at insertion of liquid metals into one-dimensional channels of NaM zeolite. It is shown that the term 'surface tension' is useful even in case when the single atoms are inserted into the channels. Thus, in the first approximation the surface tension is the surface energy of a free atom. But, it is valid only for atoms with spherically symmetrical configuration of outer electron shells. Such atoms manifest the direct relationship between the surface tension and the heat of evaporation. Tab. 1, Ref. 3.

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