# DETERMINATION OF THIAMINE AS A COMPLEX WITH 11-MOLYBDOBISMUTHO(III) PHOSPHATE IN SEQUENTIAL INJECTION LAB-AT-VALVE SYSTEM

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**References:**


1. Pope M.T. Heteropoly and isopoly oxometalates. Springer: N.Y., 1983. P. 180.
2. Baker L.C.W., Figgis J.S. J. *Amer. Chem. Soc*. 1970, 92, 3794-3795.
3. Kozhevnikov I. Catalysis by polyoxometalates. J. Wiley&Sons: Chichester, 2002. P. 196.
4. Nagul E.A., McKelvie I.D., Worsfold P., Kolev S. *Anal. Chim. Acta*. 2015, 890, 60–82.
5. Vishnikin A.B., Svinarenko T.Ye., Sklenářová H., Solich P., Bazel Ya.R., Andruch V. *Talanta*. 2010, 80(5), 1838-1845.
6. Weakley T.J.R. *J. Chem. Soc. Dalton Trans*. 1973, 341–346.
7. Zonnevijlle F., Tourne C.M., Tourne G.F. *Inorg. Chem.* 1982, 21(7), 2742–2750.
8. Zonnevijlle F., Tourne C.M., Tourne G.F. *Inorg. Chem*. 1982, 21(7), 2751-2757.
9. Katsoulis D.E., Pope M.T. *J. Amer. Chem. Soc*. 1984, 106, 2737-2738.
10. Svinarenko T.E.. Vishnikin A.B.. Timofeyeva M.N. Russ. *J. Inorg. Chem*. 2008, 53(9), 1359-1365.
11. Vishnikin A.B. Modified forms of heteropoly anions in spectroscopic methods of analysis: Thesis Doctor Chem. Sci.: 02.00.02, A.V. Bogatsky Physico-Chemical institute of NAS of Ukraine, Odesa, 2012.
12. Trokhimenko O.M., Trachevskiy V.V. *Ukr. Khim. Zhurn*. 1996, 62(11), 46-50 (in Russ.).
13. Pearson R.G. *J. Chem. Educ*. 1968, 45, 581-586.
14. Alonso A., Almendral M.J., Porras M.J., Curto Y. *J. Pharm. Biomed. Anal*. 2006, 42(2), 171–177.
15. Mohamed A.-M.I., Mohamed H.A., Abdel-Latif N.M., Mohamed M.R. *J. AOAC Int*. 2011, 94(6), 1758-1769.
16. Martínez-Lozano C., Pérez-Ruiz T., Tomás V., Abellán C. Analyst. 1990, 115, 217-220.
17. Pérez-Ruiz T., Martínez-Lozano C., García-Martínez M.D. J. *Pharm. Biomed. Anal*. 2009, 50(3), 315–319.
18. Vishnikin A.B., Sklenařova H., Solich P., Petrushina G.A., Tsiganok L.P. *Anal. Lett*. 2011, 44(1-3), 514-527.
19. Sweileh J.A., Dasgupta P.K. *Anal. Chim. Acta*. 1988, 214, 107-120.
20. Honorato R.S., Araújo M.C.U., Lima R.A.C., Zagatto E.A.G., Lapa R.A.S., Costa Lima J.L.F. *Anal. Chim. Acta*.1999, 396, 91-97.
21. Diniz P.H.G.D., Almeida L.F., Harding D.P., Araújo M.C.U. *Trends Anal. Chem*. 2012, 35, 39-49.
22. Bulatov A.V., Moskvin A.L., Moskvin L.N., Mozhuhin A.V. *J. Flow Injection Anal*. 2010, 27, 13-19.
23. Grudpan K. *Talanta*. 2004, 64, 1084-1090.
24. Al-Shwaiyat M.K.E.A., Miekh Y.V., Denisenko T.A., Vishnikin A.B., Andruch V., Bazel Ya.R. *J. Pharm. Biomed. Anal*. 2018, 149, 179-184.
25. Alerm L., Bartroli H. *Anal. Chem*. 1996, 68, 1394-1400.
26. Guzman M., Pollema C., Ruzicka J., Christian G.D. *Talanta* 1993, 40, 81-87.
27. Vishnikin A.B., Al-Shwaiyat M.K.E.A., Petrushina G.A., Tsiganok L.P., Andruch V., Bazel Ya.R., Sklenarova H., Solich P. *Talanta*. 2012, 96, 230-235.
28. Vishnikin A.B. *J. Molec. Liquids*. 2005, 118(1-3), 51-55.
29. Melchert W.R., Reis B.F., Rocha F.R.P. *Anal. Chim. Acta*. 2012, 714, 8-19.