

Nitrogen-15 NMR studies of the binding of nitrogen-15 labeled cyanide ion with gold(I) drugs. Isab, Anvarhusein A.; Ghazi, Ibrahim H.; Wazeer, Mohammed I. M.; Perzanowski, Herman P. Chem. Dep., King Fahad Univ. Pet. Miner., Dhahran, Saudi Arabia. Journal of Inorganic Biochemistry (1993), 50(4), 299-304.

Abstract

¹⁵N NMR studies of the interaction of ¹⁵N cyanide ion with gold(I)-thiomalate (Autm) and gold(I)-thioglucose (Autg) have been carried out at pH 7.40. The chem. shifts of the two ¹⁵N ions contg. species Au(C¹⁵N)₂⁻ and RS-Au-C¹⁵N⁻ (where RS- = tm- or tg-) were identified at 265.94 and 260.30 ppm, resp. From the broadened ¹⁵N NMR signals, approx. life times of the RS-Au-CN-species were calcd.