

The state-of-the-art chemical analytical method for detection of sodium azide by ^{14}N NMR spectroscopy. / T. Chachibaia, M. M. Pastor. / Nano Studies. – 2015. – # 11. – pp. 191-200. – eng.

Sodium azide is acute poison similar to cyanide. Due to its attractive chemical and physical properties it is widely used in many spheres including automotive industry, medicine, pharmacology, agriculture and even everyday life. Detection of sodium azide becomes more demanding nowadays than several decades ago. There is proposed to use of ^{14}N NMR spectroscopy to detect and quantify sodium azide in aqueous solutions and extrapolate calibration results for real time detection of unknown concentrations. The results of this methodology relying in measurement of 1D ^{14}N NMR spectra at the lowest concentration of sodium azide aqueous solutions. Fig. 5, Ref. 15.

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