

UV and IR analysis of water waste dispersions of trinitrotoluene and dinitronaphthalene

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Abstract

Water waste dispersions of mixture of trinitrotoluene (TNT) and dinitronaphthalene (DNN) – the explosive TD-50, obtained from dismantle of weapons, made in 1983 year were investigated with UV-VIS and FTIR spectrometers. The obtained of samples for UV-VIS and FTIR analysis and most suitable conditions of analysis were determined. The ratio between TNT and DNN in the investigated mixture was 50:50. With quantitative UV-VIS and FTIR analyses this content was confirmed and in this way were determined the most suitable conditions for these analyses.