



Method Summary

Determination of Turbidity in Waters and Associated matrices

Scope and Range

This method is applicable to waters and associated matrices. The system is an instrumental system based upon Nephelometric measurements the standard units being Nephelometric Turbidity Units (NTU).

The LOD for this method is <0.1NTU.

The analysis is accredited to ISO17025 for treated and untreated sewage, ground waters, surface waters and trade effluents

References

Colour and Turbidity of water. Methods for the Examination of Waters and Associated Materials. HMSO, 1981, ISBN 0 11 751955 3.

Principle

Turbidity is an expression of the optical property of a liquid that causes light to be scattered and absorbed rather than transmitted in straight lines through the sample. It is usually used as a measure of clarity of waters. The clarity being important not only for aesthetic purposes, but for other reasons related to the water treatment processes, such as filtration and flocculation. Turbidity is caused by suspended or colloidal particles within the solution and is also affected by their respective particle size distributions.

The unit of measurement is the Nephelometric Turbidity Unit (NTU) and the range of calibration is zero to 400 NTU, without dilution.

The instrument is used in ratio mode for increased detector response.

Interferences

None known