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**Method Summary****Determination of Total Dissolved Solids Dried at 180°C for Waters, Wastewaters and Leachates using a gravimetric procedure****Scope and Range**

This method accredited to ISO 17025, applicable to ground waters, surface waters, leachates (from landfill), treated and untreated industrial and sewage effluents and prepared leachates but can be used to analyse other aqueous environmental samples.

Detection limit: 40 mg/l

Working range: 40- 2000 mg/l

References

Standard Methods for the examination of waters and wastewaters 20th Edition, ALPHA, Washington DC, USA. ISBN 0-87553-131-8.

Methods for the Examination of Waters and Associated Materials, HMSO, 1980, ISBN 0 11 751957X
Suspended, Settleable, and Total Dissolved Solids in Waters and Effluents, SCA 1980.

Principle

Samples are filtered through a 0.45µm filter.

A portion of filtered sample is measured into a pre-weighed glass beaker. The beaker is dried in an oven at 105°C, then placed in a second oven at 180°C for one hour and then re-weighed. The dissolved solid content of the sample is calculated from the difference in the two weights.

Interferences

Waters containing bicarbonate may require prolonged drying at 180°C.