



Method Summary

Gravimetric Determination of Fats, Oils and Greases by Cyclohexane Extraction

Scope and Range

Petroleum Hydrocarbons is a complex mixture of aliphatic and aromatic species. This method describes a procedure for the gravimetric analysis of solvent (cyclohexane) Extractable fats, oils and greases (FOG). This method is applicable to contaminated waters and leachates.

Detection Limit: FOG = 5mg/l

The detection limit for this method is based on 150ml of sample being used for the extraction; however, the detection limit will vary if less sample is available for extraction. Any dilution factor required is taken into account in the calculation of results.

Principle

Preparation and Extraction

A 150g portion of sample is extracted with cyclohexane and the residual mass of fats, oils and greases is measured gravimetrically.

Interferences

Solvents, reagent glassware and other sample processing hardware may yield artifacts to sample analysis. All these materials must be demonstrated to be free from artifacts under the conditions of the analysis. This is undertaken by analysis of method blanks.

If extraction of a sample is prevented due to emulsion, it may be necessary to dilute and re-extract the sample in order to eliminate the effect.