



Method Summary

Determination of Nitrosamines in Liquids by GCMSMS

Scope and Range

This method details the preparations of Nitrosamines in liquid by SPE extraction. A proof of concept has been done. The concentration range is 400ng/L to 10ng/L. This method is not accredited.

The below table shows the list of compounds and LODs.

Compound	LODs (ng/L)
N-nitrosodimethylamine (NDMA)	10
N-nitrosomethylethylamine (NMEA)	10
N-nitrosodiethylamine (NDEA)	10
N-nitroso-di-n-propylamine (NDPA)	10
N-nitrosopyrrolidine (NPYR)	10
N-nitrosodi-n-butylamine (NDBA)	10
N-nitrosopiperidine (NPIP)	10

Principle

100ml of water is filtered through the carbon SPE cartridge. This is dried before DCM is passed through the cartridge to collect the analytes. This is blown down and run on a GCMSMS for analysis.

Interferences

Interferences, high levels of analytes or suppression may occur. In these cases, the sample may be diluted to mitigate these effects.