



CONCEPT LIFE SCIENCES

METHOD STATEMENT FOR THE DETERMINATION OF ACRYLAMIDE BY GC/MS

INTRODUCTION

This method is not UKAS accredited.

This procedure describes the determination of acrylamide in waters by direct injection analysis by gas chromatography with mass spectrometric detection (GC / MS).

PRINCIPLE

An aliquot of the as received sample is spiked with internal standard and injected directly onto a suitable GC column and analysed by GC / MS.

PERFORMANCE CHARACTERISTICS

SUBSTANCES DETERMINED

This method is suitable for the analysis of acrylamide in water samples.

RANGE OF APPLICATION

- Waters 1.0 to 100 mg / l

LIMIT OF DETECTION

- Waters 1.0 mg / l

ANALYTICAL QUALITY CONTROL

Analytical quality control is maintained by a number of measures:

- Multi-point calibration with authentic standards (with defined minimum performance characteristics)
- Analysis of control samples within each analytical batch, such as independent standards, matrix spikes or reference materials
- Analysis of reagent/method blanks within each analytical batch