



BSI Standards Publication

Pulp, paper and board - Determination of primary aromatic amines (PAA) in a water extract by a LC-MS method

National foreword

This British Standard is the UK implementation of EN 17163:2019.

The UK participation in its preparation was entrusted to Technical Committee CW/47/3, Paper and board in contact with food.

A list of organizations represented on this committee can be obtained on request to its secretary.

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English Version

**Pulp, paper and board - Determination of primary
aromatic amines (PAA) in a water extract by a
LC-MS method**

Pâtes, papier et carton - Détermination des
amines aromatiques primaires (AAP) dans
un extrait aqueux par méthode LC-MS

Papier, Pappe und Faserstoff - Bestimmung
von primären aromatischen Aminen in
Wasserextrakten mittels LC-MS

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European foreword

This document (EN 17163:2019) has been prepared by Technical Committee CEN/TC 172 “Pulp, paper and board”, the secretariat of which is held by DIN.

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Introduction

Primary aromatic amines (PAAs) can occur in paper and board materials as residual basic chemicals for the production of azodyes and azo pigments. Furthermore, hydrolysis products of isocyanates especially from paper laminates may be a possible source.

A draft of a European Standard EN 13130-XX concerning the “Determination of Primary Aromatic Amines (PAAs) in Food Simulants” has been prepared by the standardization committee CEN/TC 194/SC1/TG9.

When preparing this standard it has been assessed by the laboratories participating that the photometric screening method described in part A of the draft of standard EN 13130-XX is not applicable for the examination of water extracts of paper and board materials due to interferences of extractable paper components which caused irreproducible test results.

Due to the advantages of the MS/MS-detection regarding selectivity and sensitivity the determination of primary aromatic amines by means of LC-MS/MS was found to be capable for water extracts of paper and board materials when preparing this standard.