

Irish Standard I.S. EN 15527:2008

Characterization of waste Determination of polycyclic aromatic
hydrocarbons (PAH) in waste using gas
chromatography mass spectrometry
(GC/MS)

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English Version

Characterization of waste - Determination of polycyclic aromatic hydrocarbons (PAH) in waste using gas chromatography mass spectrometry (GC/MS)

Caractérisation des déchets - Dosage des hydrocarbures aromatiques polycycliques (HAP) dans les déchets par chromatographie en phase gazeuse/spectrométrie de masse (CG/SM) Charakterisierung von Abfällen - Bestimmung von polycyclischen aromatischen Kohlenwasserstoffen (PAK) in Abfall mittels Gaschromatographie-Massenspektrometrie (GC/MS)

This European Standard was approved by CEN on 29 May 2008.

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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EN 15527:2008 (E)

Contents				
Forewo	ord	3		
Introdu	uction	4		
1	Scope	5		
2	Normative references			
3	Terms and definitions			
4	Principle			
5	Reagents			
5.1	General	6		
5.2 5.3	Reagents for extraction proceduresReagents for clean-up procedures			
5.4	Reagents for gas chromatographic analysis			
5.5	Standards	7		
6	Apparatus			
6.1	Extraction and clean-up procedures			
6.2 6.3	Gas chromatograph Capillary columns			
6.4	Preparation of standard solutions			
7	Hazards	11		
8	Interference			
8.1	Interference during sampling, storage and extraction			
8.2	Interference due to co-elution			
9	Sample conservation			
10	Pretreatment			
10.1 10.2	GeneralDrying			
10.3	Particle size reduction			
11	Procedure	13		
11.1	Blank			
11.2 11.3	Extraction Addition of the internal standard solution			
11.4	Concentration or dilution			
11.5	Clean up of the extract	14		
11.6	Addition of the injection standard			
11.7	Gas chromatographic analysis with mass spectrometric detection			
12	Performance characteristics			
13	Test report			
	A (informative) Representative chromatograms			
	B (informative) Additional validation data			
	C (informative) Summary of general requirements and recommendations			
Biblion	uranhy	37		

EN 15527:2008 (E)

Foreword

This document (EN 15527:2008) has been prepared by Technical Committee CEN/TC 292 "Characterization of waste", the secretariat of which is held by NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 2009, and conflicting national standards shall be withdrawn at the latest by January 2009.

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EN 15527:2008 (E)

Introduction

Polynuclear aromatic hydrocarbons (PAH) are ubiquitous because of the fact that they are released in appreciable quantities every year into the environment through the combustion of organic materials such as coal, fuel oils, petrol, wood, refuse and plant materials. Since some of these PAH compounds are carcinogenic or mutagenic, their presence in the environment (air, water, soil, sediment and waste) are regularly monitored and controlled. At present, the determination of PAH is carried out in these matrices in most of the routine laboratories following the preceding steps for sampling, pre-treatment, extraction, clean-up by measurement of specific PAH by means of gas chromatography in combination with mass spectrometric detection(GC-MS) or by HPLC in combination with UV-DAD- or Fluorescence-detection (HPLC-UV-DAD/FLD). However, the different matrices covered in this standard may contain a lot of contaminants. For this reason, the GC-MS method seems to be most appropriate for waste analysis.



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