
**Cigarettes — Determination
of benzo[a]pyrene in cigarette
mainstream smoke using GC/MS —
Part 1: Method using methanol as
extraction solvent**

*Cigarettes — Dosage du benzo[a]pyrène dans le courant principal
de la fumée de cigarette par CG/SM — Partie 1: Méthode utilisant
du méthanol comme solvant d'extraction*

(<https://standards.iteh.ai>)
Document Preview

[ISO 22634-1:2017](https://standards.iteh.ai/catalog/standards/iso/6d14a515-ff4c-4c5c-9764-bb92fd546c89/iso-22634-1-2017)

<https://standards.iteh.ai/catalog/standards/iso/6d14a515-ff4c-4c5c-9764-bb92fd546c89/iso-22634-1-2017>



iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[ISO 22634-1:2017](https://standards.iteh.ai/catalog/standards/iso/6d14a515-ff4c-4c5c-9764-bb92fd546c89/iso-22634-1-2017)

<https://standards.iteh.ai/catalog/standards/iso/6d14a515-ff4c-4c5c-9764-bb92fd546c89/iso-22634-1-2017>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2017, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

Page

| | |
|---|-----------|
| Foreword | iv |
| Introduction | v |
| 1 Scope | 1 |
| 2 Normative references | 1 |
| 3 Terms and definitions | 1 |
| 4 Principle | 1 |
| 5 Apparatus | 2 |
| 6 Reagents | 2 |
| 7 Standards | 3 |
| 7.1 General..... | 3 |
| 7.2 Primary B[a]P stock solution..... | 3 |
| 7.3 Secondary B[a]P stock solution..... | 3 |
| 7.4 B[a]P-d12 stock solution..... | 3 |
| 7.5 B[a]P-d12 spiking solution..... | 3 |
| 7.6 Working standard solutions..... | 3 |
| 7.7 Storage of standard solutions..... | 3 |
| 8 Preparation of sample | 3 |
| 8.1 Sampling..... | 3 |
| 8.2 Smoking..... | 4 |
| 8.3 Filter pads extraction..... | 4 |
| 8.4 Sample clean-up..... | 4 |
| 9 Determination | 5 |
| 9.1 GC/MS operating conditions..... | 5 |
| 9.2 Calibration..... | 5 |
| 9.3 Determination of B[a]P..... | 5 |
| 9.4 Calculation..... | 6 |
| 10 Repeatability and reproducibility | 6 |
| 11 Test report | 6 |
| 11.1 General..... | 6 |
| 11.2 Characteristic data about the cigarette..... | 7 |
| 11.3 Data about sampling..... | 7 |
| 11.4 Description of the test..... | 7 |
| 11.5 Test results..... | 8 |
| Annex A (informative) Example of a chromatogram of a cigarette smoke extract | 9 |
| Bibliography | 11 |