
**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 22634-1:2019](https://standards.iteh.ai/catalog/standards/iso/649276fc-6959-4e62-889a-2890e5cf2e9d/iso-22634-1-2019)

<https://standards.iteh.ai/catalog/standards/iso/649276fc-6959-4e62-889a-2890e5cf2e9d/iso-22634-1-2019>



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

[ISO 22634-1:2019](https://standards.iteh.ai/catalog/standards/iso/649276fc-6959-4e62-889a-2890e5cf2e9d/iso-22634-1-2019)

<https://standards.iteh.ai/catalog/standards/iso/649276fc-6959-4e62-889a-2890e5cf2e9d/iso-22634-1-2019>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2019

All rights reserved. Unless otherwise specified, or required in the context of its implementation, 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
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

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 Glass-fibre filter pad 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.....	6
9.4 Calculation.....	6
10 Repeatability and reproducibility	6
11 Test report	7
11.1 General.....	7
11.2 Characteristic data about the cigarette.....	7
11.3 Data about sampling.....	7
11.4 Description of the test.....	8
11.5 Test results.....	8
Annex A (informative) Example of a chromatogram of a cigarette smoke extract	9
Bibliography	11