

CONTENTS

NOTE TO THE READER	5
LIST OF PARTICIPANTS	7
IN MEMORIAM: LEON M. SHABAD and CHARLES HEIDELBERGER	10
PREAMBLE	
Background	13
Objective and Scope	13
Selection of Chemicals for Monographs	14
Working Procedures	15
Data for Evaluations	15
The Working Group	15
General Principles for Evaluating the Carcinogenic Risk of Chemicals	16
Explanatory Notes on the Monograph Contents	22
EXPLANATORY NOTE TO VOLUME 32	32
GENERAL REMARKS ON THE SUBSTANCES CONSIDERED	33
Introduction	33
Sources and Occurrence of Polynuclear Aromatic Compounds	35
Analysis	48
Absorption, Distribution, Metabolism and Excretion of Polynuclear Aromatic Compounds in Experimental Animals	53
Metabolism and Distribution of Polynuclear Aromatic Compounds in Human Tissues	62
Mouse Skin Assay for Carcinogenicity	66
Short-term Tests	67
References	68
THE MONOGRAPHS	
Anthanthrene	95
Anthracene	105
Benz[<i>a</i>]acridine	122
Benz[<i>c</i>]acridine	129
Benz[<i>a</i>]anthracene	135
Benzo[<i>b</i>]fluoranthene	147
Benzo[<i>j</i>]fluoranthene	155
Benzo[<i>k</i>]fluoranthene	163
Benzo[<i>ghi</i>]fluoranthene	171
Benzo[<i>a</i>]fluorene	177
Benzo[<i>b</i>]fluorene	183
Benzo[<i>c</i>]fluorene	189
Benzo[<i>ghi</i>]perylene	195
Benzo[<i>c</i>]phenanthrene	205

Benzo[<i>a</i>]pyrene	211
Benzo[<i>e</i>]pyrene	225
Carbazole	239
Chrysene	247
Coronene	263
Cyclopenta[<i>cd</i>]pyrene	269
Dibenz[<i>a,h</i>]acridine	277
Dibenz[<i>a,j</i>]acridine	283
Dibenz[<i>a,c</i>]anthracene	289
Dibenz[<i>a,h</i>]anthracene	299
Dibenz[<i>a,j</i>]anthracene	309
7 <i>H</i> -Dibenzo[<i>c,g</i>]carbazole	315
Dibenzo[<i>a,e</i>]fluoranthene	321
Dibenzo[<i>a,e</i>]pyrene	327
Dibenzo[<i>a,h</i>]pyrene	331
Dibenzo[<i>a,i</i>]pyrene	337
Dibenzo[<i>a,l</i>]pyrene	343
1,4-Dimethylphenanthrene	349
Fluoranthene	355
Fluorene	365
Indeno[1,2,3- <i>cd</i>]pyrene	373
1-, 2-, 3-, 4-, 5- and 6-Methylchrysenes	379
2- and 3-Methylfluoranthenes	399
1-Methylphenanthrene	405
Perylene	411
Phenanthrene	419
Pyrene	431
Triphenylene	447
 APPENDIX: Abbreviations used in tables of results of short-term tests	 453
 SUPPLEMENTARY CORRIGENDA TO VOLUMES 1-31	 455
 CUMULATIVE INDEX TO THE MONOGRAPH SERIES	 457