

CONTENTS

PREFACE	v
-------------------	---

INTRODUCTION

1. OBJECT OF THE WORK	3
2. PHYSICAL PROPERTIES AND CRITERIA OF PURITY	
A. Constants of heterogeneous equilibria	4
B. Constants of homogeneous phases	5
C. Chemical criteria of purity	6
3. RULES EMPLOYED TO ASSESS THE ACCURACY AND PRECISION OF THE PUBLISHED VALUES OF CONSTANTS	
A. Authenticity of published values	7
B. Intrinsic criteria	7
C. Criteria of comparison	9
4. ARRANGEMENT OF THE TEXT	
A. Order of the compounds	10
B. Order of subject matter	10
C. Numerical values given	11
D. Bibliographical references	11
E. Bibliographical table	11
F. Table of formulae	11
5. NOTES CONCERNING SYMBOLS AND UNITS	
A. Symbols	11
B. Units	12

TABLES

1. HYDROCARBONS *	
A. Paraffins	19
B. Ethylenic hydrocarbons	115
C. Dienes	135
D. Acetylenes	138
E. Aromatic hydrocarbons	140
F. Polycyclic aromatic hydrocarbons	174
G. Condensed polycyclic aromatic hydrocarbons	177
H. Polymethylenes	183
2. HALOGENATED DERIVATIVES	
A. Halogenated derivatives of methane	210
B. Halogenated derivatives of ethane	231
C. Halogenated derivatives of propane	250
D. Halogenated derivatives of butane	261
E. Halogenated derivatives of the higher homologous paraffins	270
F. Halogenated derivatives of unsaturated aliphatic hydrocarbons	276
G. Halogenated derivatives of the aromatic series	281
H. Halogenated derivatives of the cycloparaffins	301

3. OXYGENATED DERIVATIVES OF THE ALIPHATIC SERIES	
A. Alcohols	302
B. Ethers and acetals	339
C. Aldehydes	352
D. Ketones	353
E. Oxides	365
F. Anhydrides	375
G. Fatty acids	377
H. Dibasic acids	403
I. Unsaturated acids	404
J. Esters	406
4. OXYGENATED DERIVATIVES OF THE AROMATIC SERIES	
A. Alcohols and phenols	457
B. Phenol ethers	469
C. Aldehydes, quinones, ketones	474
D. Acids	480
E. Esters	482
5. OXYGENATED DERIVATIVES OF POLYMETHYLENES	489
6. HETEROCYCLIC OXYGEN COMPOUNDS	499
7. SUGARS	504
8. MIXED OXYHALOGENATED DERIVATIVES	506
9. NITROGEN DERIVATIVES OF THE ALIPHATIC SERIES	
A. Amines	517
B. Hydrocyanic acid; nitriles	525
10. NITROGEN DERIVATIVES OF THE CYCLIC SERIES	
A. Aromatic amines	551
B. Aromatic nitriles	566
C. Nitrogen derivatives of the polymethylenes	567
D. Heterocyclic derivatives	568
11. OXY-NITROGEN DERIVATIVES	
A. Aliphatic nitro derivatives	577
B. Aliphatic amides	582
C. Miscellaneous derivatives	588
D. Aromatic nitro derivatives	591
12. MIXED HALOGENATED NITROGEN DERIVATIVES	602
13. SULPHUR DERIVATIVES.	610
14. DERIVATIVES WITH OTHER ELEMENTS	625
15. ADDENDA	628
BIBLIOGRAPHY	
1. HISTORICAL	631
2. REFERENCES	634
INDEXES	
1. FORMULA INDEX	663
2. SUBJECT INDEX	679