

CHAP.

Alcohols, 179. Halogen-Substituted Phenols, 181. Halogen-Substituted Aldehydes, 182. Halogen-Substituted Ketones, 184. Carboxylic Acid Halides, 185. Alkyl Chloroformates, 185. Aliphatic Halogen-Substituted Carboxylic Acids, 186. Aromatic Halogen-Substituted Carboxylic Acids, 188. Halogen-Substituted Carboxylic Esters, 189. Aliphatic Primary Amines, 191. Aliphatic Secondary Amines, 194. Aliphatic Tertiary Amines, 195. Aromatic Primary Amines, 196. Aromatic Secondary Amines, 201. Aromatic Tertiary Amines, 203. Heterocyclic Bases, 205. Aminophenols, 207. Aldehyde-Ammonias, 209. Simple Amides and Imides, 210. Substituted Amides and Imides, 216. Esters Amides, 222. Amino Acids, Esters, and Amides, 223. Purines, 228. Aldoximes, 229. Ketoximes, 229. Simple Nitriles, 231. Substituted Nitriles, 232. *iso*Cyanates, 234. Hydrazine Derivatives, 234. Hydrazones, 236. Aliphatic Nitro-Hydrocarbons, 237. Aromatic Nitro-Hydrocarbons, 238. Nitro Ethers, 241. Nitro Alcohols, 243. Nitrophenols, 244. Nitro Aldehydes, 245. Nitro Carboxylic Acids, 247. Nitroso Compounds, 249. Azo Compounds, 251. Azoxy Compounds, 253. Nitro Amino Compounds, 253. Nitro Carboxylic Amides, 255. Alkyl Nitrates and Nitrites, 257. Halogen-Substituted Amines, 257. Halogen-Substituted Amides, 259. Halogen-Substituted Nitro-Hydrocarbons, 259. Mercaptans, 262. Sulphides and Disulphides, 264. Sulphoxides and Sulphones, 265. Simple Sulphonic Acids, 266. Substituted Sulphonic Acids, 268. Sulphonic Esters, 270. Alkyl Sulphates, 271. Alkylsulphuric Acids, 272. Sulphinic Acids, 272. Thiocarboxylic Acids, 273. Sulphochlorides, 273. Sulphonamides, 274. Substituted Sulphonamides, 275. Thioamides, 275. Sulphur-containing Amino Acid, 276. Aminosulphonic Acids, 277. Nitrosulphonic Acids, 277. Thiocyanates, 278. *iso*Thiocyanates, 278. Phenolic Phosphates, 279. Alkaloids, 279. Dyes, 285.

V QUANTITATIVE DETERMINATION OF CONSTITUENT ELEMENTS

Carbon and Hydrogen, 290. Nitrogen, 297. Halogens, 306. Sulphur, 311. Phosphorus, 312.

VI QUANTITATIVE DETERMINATION OF RADICLES.

Decomposition of Metallic Derivatives, 314. Hydrolysis of Esters and Amides, 317. Estimation of Primary and Secondary Amines, 319. Methoxyl or Ethoxyl Groups, 320. Estimation of Unsaturation, 324. Fehling's Solution, 327. Pavy's Solution, 330.

CONTENTS

ix

	PAGE
DETERMINATION OF SOME PHYSICAL PROPERTIES .	333
Molecular Weight, 333. Vapour-density, 338. Density of Liquids, 344. Optical Rotation, 347.	
INDEX OF SUBSTANCES	352
GENERAL INDEX	360