

IN THIS CHAPTER YOU WILL LEARN

1. The names, electronic configurations and occurrence of IIIA and IVA group elements.
2. The peculiar properties of boron and carbon in their respective groups.
3. The preparation and properties of borax and orthoboric acid.
4. The reactions of aluminium.
5. Structures and properties of oxides of carbon and silicon, silicates, silicones and their uses.
6. The uses of silicon and germanium in semi-conductor industries and lead in paints.

3.1 GROUP IIIA ELEMENTS

The Group IIIA of the Periodic Table comprises the elements boron, aluminium, gallium, indium and thallium. Electronic configurations and some physical properties of group IIIA elements are shown in Table 3.1.

Table 3.1 Electronic Configurations and Physical Properties of Group IIIA Elements

Properties	B	Al	Ga	In	Tl
Atomic number	5	13	31	49	81
Electronic configurations	[He]2s ² 2p ¹	[Ne]3s ² 3p ¹	[Ar] 3d ¹⁰ 4s ² 4p ¹	[Kr]4d ¹⁰ 5s ² 5p ¹	[Xe]4f ¹⁴ 5d ¹⁰ 6s ² 6p ¹
Ionization energy (kJ/mol)	801	577	579	558	589
Electron affinity (kJ/mol)	-27	-45	-29	-29	-30
Electronegativity	2.0	1.5	1.6	1.7	1.8
Atomic radius (pm)	80	125	126	144	148
Ionic radius of 1+ion (pm)	20	52	60	81	95
Melting points (°C)	2300	660	30	157	304
Boiling points (°C)	2550	2467	2403	2080	1457
Density (g/cm ³)	2.33	2.7	5.93	7.3	11.85

Elements Compounds Of Group Iva Volume 7 C

JR Anderson



Elements Compounds Of Group Iva Volume 7 C:

Unveiling the Power of Verbal Art: An Emotional Sojourn through **Elements Compounds Of Group Iva Volume 7 C**

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Table of Contents Elements Compounds Of Group Iva Volume 7 C

1. Understanding the eBook Elements Compounds Of Group Iva Volume 7 C
 - The Rise of Digital Reading Elements Compounds Of Group Iva Volume 7 C
 - Advantages of eBooks Over Traditional Books
2. Identifying Elements Compounds Of Group Iva Volume 7 C
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Elements Compounds Of Group Iva Volume 7 C
 - User-Friendly Interface
4. Exploring eBook Recommendations from Elements Compounds Of Group Iva Volume 7 C

- Personalized Recommendations
 - Elements Compounds Of Group Iva Volume 7 C User Reviews and Ratings
 - Elements Compounds Of Group Iva Volume 7 C and Bestseller Lists
5. Accessing Elements Compounds Of Group Iva Volume 7 C Free and Paid eBooks
 - Elements Compounds Of Group Iva Volume 7 C Public Domain eBooks
 - Elements Compounds Of Group Iva Volume 7 C eBook Subscription Services
 - Elements Compounds Of Group Iva Volume 7 C Budget-Friendly Options
 6. Navigating Elements Compounds Of Group Iva Volume 7 C eBook Formats
 - ePub, PDF, MOBI, and More
 - Elements Compounds Of Group Iva Volume 7 C Compatibility with Devices
 - Elements Compounds Of Group Iva Volume 7 C Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Elements Compounds Of Group Iva Volume 7 C
 - Highlighting and Note-Taking Elements Compounds Of Group Iva Volume 7 C
 - Interactive Elements Elements Compounds Of Group Iva Volume 7 C
 8. Staying Engaged with Elements Compounds Of Group Iva Volume 7 C
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Elements Compounds Of Group Iva Volume 7 C
 9. Balancing eBooks and Physical Books Elements Compounds Of Group Iva Volume 7 C
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Elements Compounds Of Group Iva Volume 7 C
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Elements Compounds Of Group Iva Volume 7 C
 - Setting Reading Goals Elements Compounds Of Group Iva Volume 7 C
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Elements Compounds Of Group Iva Volume 7 C

- Fact-Checking eBook Content of Elements Compounds Of Group Iva Volume 7 C
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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