

## Index

### A

acetolysis

[1.8: Acids, Bases, and Solvents - Choosing a Solvent](#)

alcoholysis

[1.8: Acids, Bases, and Solvents - Choosing a Solvent](#)

alkaline earth metals

[4.1: The Alkaline Earth Elements](#)

aminoboranes

[6.10: Boron Compounds with Nitrogen Donors](#)

ammonation

[8.3: Hydrides](#)

ammonolysis

[1.8: Acids, Bases, and Solvents - Choosing a Solvent](#)

arsine

[8.3: Hydrides](#)

### B

Beryllium

[4.3: Differences for Beryllium and Magnesium](#)

Boranes

[6.4: Boron Hydrides](#)

borohydride

[6.4: Boron Hydrides](#)

boron hydroxides

[6.7: Boron Oxides, Hydroxides, and Oxyanions](#)

boron oxides

[6.7: Boron Oxides, Hydroxides, and Oxyanions](#)

boron oxyanions

[6.7: Boron Oxides, Hydroxides, and Oxyanions](#)

Bridgman technique

[6.12: Electronic Grade Gallium Arsenide](#)

### C

calcium

[4.2: Calcium the Archetypal Alkaline Earth Metal](#)

carbide lamp

[4.2: Calcium the Archetypal Alkaline Earth Metal](#)

combustion

[1.9: Chemical Reactivity - The Basics of Combustion](#)

crow ether

[3.2: Compounds of the Alkali Metals](#)

cryptands

[3.2: Compounds of the Alkali Metals](#)

### D

diagonal effect

[3.3: The Anomalous Chemistry of Lithium](#)

double titration

[3.4: Organolithium Compounds](#)

### G

Gallium

[6.11: Properties of Gallium Arsenide](#)

gallium arsenide

[6.11: Properties of Gallium Arsenide](#)

Grignard reagents

[4.4: Organometallic Compounds of Magnesium](#)

### H

halide bridge

[10.3: Compounds of Chlorine](#)

heavy water

[2.8: Isotopes of Hydrogen](#)

hydride

[2.6: Hydrides](#)

hydrogen bond

[2.7: The Hydrogen Bond](#)

hydrogen bridged bond

[2.6: Hydrides](#)

### I

interstitial hydrides

[2.6: Hydrides](#)

### L

lithium

[3.3: The Anomalous Chemistry of Lithium](#)

### M

Magnesium

[4.3: Differences for Beryllium and Magnesium](#)

mercuration

[5.4: Organomercury Compounds](#)

### N

nuclear fusion

[2.9: Nuclear Fusion](#)

### O

organolithium compounds

[3.4: Organolithium Compounds](#)

organomercury compounds

[5.4: Organomercury Compounds](#)

oxygen balance

[1.9: Chemical Reactivity - The Basics of Combustion](#)

Ozone

[9.2: Ozone](#)

### P

Pentaborane(9)

[6.4: Boron Hydrides](#)

phosphines

[8.3: Hydrides](#)

Portland cement

[4.2: Calcium the Archetypal Alkaline Earth Metal](#)

### S

skeletal electron pairs (SEP)

[6.5: Wade's Rules](#)

solvation

[1.8: Acids, Bases, and Solvents - Choosing a Solvent](#)

solvolysis

[1.8: Acids, Bases, and Solvents - Choosing a Solvent](#)

solvomercuration

[5.4: Organomercury Compounds](#)

specific solvation

[1.8: Acids, Bases, and Solvents - Choosing a Solvent](#)

### W

Wade's Rules

[6.5: Wade's Rules](#)

### Z

zinc

[5.3: Organometallic Chemistry of Zinc](#)