

Polyatomic Ions WS

Ammonium (NH_4)¹⁺
 Carbonate (CO_3)²⁻
 Chromate (CrO_4)²⁻

Dichromate (Cr_2O_7)²⁻
 Hydroxide (OH)¹⁻
 Nitrate (NO_3)¹⁻

Nitrite (NO_2)¹⁻
 Sulfate (SO_4)²⁻
 Sulfite (SO_3)²⁻

Phosphate (PO_4)³⁻

Write the **NAME** of each of the following compounds.

1. $(\text{NH}_4)\text{Cl}$ Ammonium Chloride
2. $\text{Be}(\text{SO}_4)$ Beryllium Sulfate
3. $(\text{NH}_4)_3\text{N}$ Ammonium Nitride
4. MgCl_2 Magnesium Chloride
5. $\text{NH}_4(\text{NO}_3)$ Ammonium Nitrate
6. $\text{Sr}_3(\text{PO}_4)_2$ Strontium Phosphate
7. $\text{Zn}(\text{CrO}_4)_2$ Zinc Dichromate
8. $\text{K}_2(\text{Cr}_2\text{O}_7)$ Potassium Dichromate

9. $\text{Ga}(\text{ClO}_3)_3$ Gallium Chlorate
10. $\text{Cu}(\text{OH})$ Copper I Hydroxide
11. $(\text{NH}_4)_3(\text{PO}_4)$ Ammonium Phosphate
12. $\text{Fe}(\text{SO}_4)$ Iron II Sulfate
13. $\text{Mg}(\text{NO}_2)_2$ Magnesium Nitrite
14. $(\text{NH}_4)\text{NO}_2$ Ammonium Nitrite
15. $\text{Na}_2(\text{Cr}_2\text{O}_7)$ Sodium Dichromate
16. $\text{Na}(\text{OH})$ Sodium Hydroxide

Write the **CHEMICAL FORMULA** for each of the given **NAMES**.....cross charges

- | | | | | | |
|-------------------------|---------------------------------------|---|-------------------------------|---|-----------------|
| 17. calcium carbonate | Ca^{2+} $(\text{CO}_3)^{2-}$ | = | $\text{Ca}_2(\text{CO}_3)_2$ | = | CaCO_3 |
| 18. barium nitrate | Ba^{+2} NO_3^{-1} | = | $\text{Ba}(\text{NO}_3)$ | = | |
| 19. ammonium sulfate | NH_4^{+1} SO_4^{-2} | = | $(\text{NH}_4)_2 \text{SO}_4$ | = | |
| 20. aluminum hydroxide | Al^{+3} OH^{-1} | = | $\text{Al}(\text{OH})_3$ | = | |
| 21. calcium phosphate | Ca^{+2} PO_4^{-3} | = | $\text{Ca}_3(\text{PO}_4)_2$ | = | |
| 22. cesium nitrate | Cs NO_2^{-1} | = | CsNO_3 | = | |
| 23. sodium nitrite | Na^{+1} NO_3^{-1} | = | NaNO_3 | = | |
| 24. calcium sulfate | Ca^{+2} SO_4^{-2} | = | CaSO_4 | = | |
| 25. beryllium sulfate | Be SO_4^{-2} | = | BeSO_4 | = | |
| 26. sodium carbonate | Na^{+1} CO_3^{-2} | = | Na_2CO_3 | = | |
| 27. magnesium phosphate | Mg^{+2} PO_4^{-3} | = | $\text{Mg}_3(\text{PO}_4)_2$ | = | |
| 28. calcium phosphate | Ca^{+2} PO_4^{-3} | = | $\text{Ca}_3(\text{PO}_4)_2$ | = | |

Polyatomic Ions Ws

G Orfield



Polyatomic Ions Ws:

Polymer Surface Characterization Luigia Sabbatini, Elvira De Giglio, 2022-01-19 This fully updated edition provides a broad approach to the surface analysis of polymers being of high technological interest Modern analytical techniques potential applications and recent advances in instrumental apparatus are discussed The self consistent chapters are devoted to spectroscopic and microscopic techniques which represent powerful tools for the characterization of morphology and chemical physical mechanical properties of polymer surfaces interfaces and thin films Selection of techniques which can properly address very shallow depth of surfaces spanning from few angstroms to tens of nanometers Interaction of polymer surfaces with their surroundings is pointed out as a critical issue for specific applications **Ion/Molecule Attachment Reactions: Mass Spectrometry** Toshihiro Fujii, 2015-08-03 This book explores the mechanism of alkali metal ion molecule association reaction surveys the instrumental basis to study its kinetic and describes the instrumentation to the measurement of alkali metal ion affinities The applications of the ion complexation mechanism in the condensed phase in reaction to direct analysis MS are also covered Other topics include mechanism and reaction rate experimental and theoretical ion affinities applications of ion attachment reactions IAR to mass spectrometry such as alkali ion CIMS ion attachment MS and cationization mass spectrometry of ESI FAB FD LD MALDI and SIMS and topics of IAR based direct analysis mass spectrometry **Research in Progress**, 1983 **Recent Studies in Atomic and Molecular Processes** Arthur E. Kingston, 2012-12-06 Sir David Bates celebrated his seventieth birthday on the 18th November 1986 To mark this event a conference was held in the David Bates building at The Queen's University of Belfast on the 17th and 18th November 1986 At this conference ex students and colleagues of Sir David who are acknowledged world experts in their field of research gave in depth reviews of a particular area of atomic and molecular physics This book on the conference presents a unique account of recent studies in atomic and molecular processes in a wide range of research fields This volume is dedicated to Sir David by his friends as a token of their affection and respect It is hoped that it will provide a useful summary of current research in atomic and molecular physics and that it will also show the great contribution which Sir David made to atomic and molecular physics This conference was supported by the USAF European Office of Aerospace Research and Development who we wish to thank for their generous support Arthur E Kingston v CONTENTS Interstellar Cloud Chemistry Revisited 1 D R Bates Photo ionisation of Atomic Oxygen 29 M J Seaton The Formation of Complex Interstellar Molecules **Research in Progress** United States. Army Research Office, 1983 Vols for 1977 consist of two parts Chemistry biological sciences engineering sciences metallurgy and materials science issued in the spring and Physics electronics mathematics geosciences issued in the fall **Journal of Physical Chemistry** American Chemical Society, 1983 *Mass Spectrometry* R. A. W. Johnstone, 1975-12-31 Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research Written by experts in their specialist fields the series creates a unique service for the active

research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry For over 80 years the Royal Society of Chemistry and its predecessor the Chemical Society have been publishing reports charting developments in chemistry which originally took the form of Annual Reports However by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic Organic and Physical Chemistry For more general coverage of the highlights in chemistry they remain a must Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry Some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued The current list of Specialist Periodical Reports can be seen on the inside flap of this volume

Infrared and Raman Characteristic Group Frequencies George Socrates, 2004-06-18 The third edition of this highly successful manual is not only a revised text but has been extended to meet the interpretive needs of Raman users as well as those working in the IR region The result is a uniquely practical comprehensive and detailed source for spectral interpretation Combining in one volume the correlation charts and tables for spectral interpretation for these two complementary techniques this book will be of great benefit to those using or considering either technique In addition to the new Raman coverage the new edition offers new section on macromolecules including synthetic polymers and biomolecules expansion of the section on NIR near infrared region to reflect recent growth in this area extended chapter on inorganic compounds including minerals and glasses redrawn and updated charts plus a number of new charts covering data new to this edition This new edition will be invaluable in every industrial university government and hospital laboratory where infrared FT IR and Raman spectral data need to be analysed *Mass Spectrometry Bulletin*, 1999 **Energy Research**

Abstracts, 1993 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes **Interaction Between Ions and Molecules** Pierre

Ausloos, 1975-02 *Molecular Ions* Joseph Berkowitz, Karl-Ontjes E. Groeneveld, 2012-12-06 The present volume contains contributions presented at the NATO Advanced Study Institute on Molecular Ions held on the island of Kos Greece from September 30 to October 10 1980 The meeting was attended by some 60 participants from 15 different countries It was the first meeting devoted exclusively to the topic of molecular ions Its vitality derived from bringing together experts and students from a wide variety of disciplines whose studies bear upon the structure of molecular ions The aim of the meeting was to assemble these scientists representing many countries in Europe and North America to discuss the advances and

capabilities of the various experimental and theoretical approaches and to point out unsolved problems and directions for future research. The format involving lecturers and students served as a tutorial. Molecular ions play an important role in very diverse fields of nature such as reactions in the ionosphere, the processes of formation of molecules in dense interstellar clouds and the magnetohydrodynamics of plasmas used for energy generation. Our understanding of the properties of molecular ions, their electronic and geometric structures, has been developing from a variety of sources as far removed as tickling ions with radiofrequency radiation and smashing them apart at relativistic energies. Various laser techniques are described and the queen of structural determination spectroscopy is well represented. On the instrumental side, older techniques have been perfected and new methods have evolved.

Bibliography of Low Energy Electron and Photon Cross Section Data (through December 1974) Lee Joseph Kieffer, 1976 **NBS Special Publication**, 1976 Publications United States. National Bureau of Standards, 1972 **Publications of the National Bureau of Standards** United States. National Bureau of Standards, 1986 Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.), 1971 NASA's University Program United States. National Aeronautics and Space Administration. Office of University Affairs, **Catalog of National Bureau of Standards Publications, 1966-1976: Citations and abstracts** United States. National Bureau of Standards. Technical Information and Publications Division, 1978 *Publications of the National Bureau of Standards, 1972 Catalog* United States. National Bureau of Standards, 1973

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