

Polyatomic Ions

Can a group of atoms have a charge?

Why?

Do you know you eat a lot of "-ates"? Next time you look at a food label, read the ingredients and you will likely find a number of ingredients that end with "-ate," such as sodium phosphate or calcium carbonate. Did you ever wonder what the chemical formulas of these ingredients look like? In this activity we will explore polyatomic ions, which are groups of atoms that carry a charge. These ions are found in our food ingredients, natural waterways, and many other chemical compounds you encounter every day.

Model 1 – Types of Ions

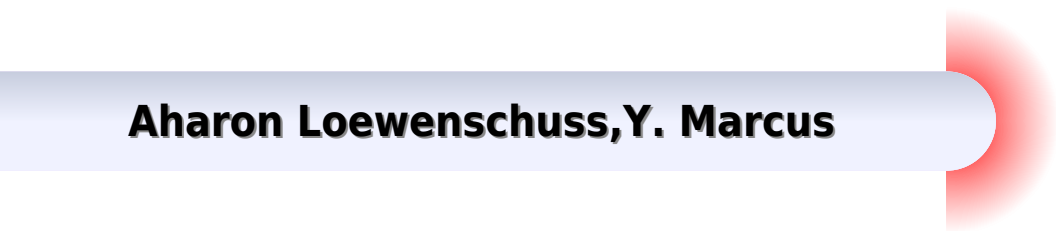
Monatomic Ions	Nitride 	Sulfide 	Chloride 
Polyatomic Ions	Nitrate 	Sulfate 	Ammonium 
	Nitrite 	Sulfite 	Hydroxide 

1. Use Model 1 to complete the table below.

Name of Ion	Nitride	Nitrate	Sulfate	Sulfite	Ammonium
Charge on Ion	-3	-1	-2	-2	+1
Type and Number of Atoms	1 nitrogen	1 nitrogen 3 oxygen	1 sulfur 4 oxygen	1 sulfur 3 oxygen	1 nitrogen 4 hydrogen
Chemical Formula	N^{3-}	NO_3^{1-}	SO_4^{2-}	SO_3^{2-}	NH_4^{1+}

Polyatomic Ions Pogil Activities For High School Chemistry

Aharon Loewenschuss, Y. Marcus



Polyatomic Ions Pogil Activities For High School Chemistry:

Polyatomic Ions for Surface Analysis and Modification Erick Ryan Fuoco, 2003 *Unimolecular and Collision-induced*
Dissociation Study of Polyatomic Ions at High Collision Energy Xuedong Zhou, 2001 **Quick Practice Reproducibles for**
Chemistry I Tim McDowell, 2012-05-18 A collection of reproducible practice for high school chemistry and middle school
physical science Topics include Metric Units Chemical Symbols for elements Atomic Numbers Isotopes Chemical Formulas
and Polyatomic Ions *Investigations Into the Origins of Polyatomic Ions in Inductively Coupled Plasma-mass Spectrometry*
, 2010 An inductively coupled plasma mass spectrometer ICP MS is an elemental analytical instrument capable of determining
nearly all elements in the periodic table at limits of detection in the parts per quadrillion and with a linear analytical range
over 8 10 orders of magnitude Three concentric quartz tubes make up the plasma torch Argon gas is spiraled through the
outer tube and generates the plasma powered by a looped load coil operating at 27 1 or 40 6 MHz The argon flow of the
middle channel is used to keep the plasma above the innermost tube through which solid or aqueous sample is carried in a
third argon stream A sample is progressively desolvated atomized and ionized The torch is operated at atmospheric pressure
To reach the reduced pressures of mass spectrometers ions are extracted through a series of two approximately one
millimeter wide circular apertures set in water cooled metal cones The space between the cones is evacuated to
approximately one torr The space behind the second cone is pumped down to or near to the pressure needed for the mass
spectrometer MS The first cone called the sampler is placed directly in the plasma plume and its position is adjusted to the
point where atomic ions are most abundant The hot plasma gas expands through the sampler orifice and in this expansion is
placed the second cone called the skimmer After the skimmer traditional MS designs are employed id est quadrupoles
magnetic sectors time of flight ICP MS is the leading trace element analysis technique One of its weaknesses are polyatomic
ions This dissertation has added to the fundamental understanding of some of these polyatomic ions their origins and
behavior Although mainly continuing the work of others certain novel approaches have been introduced here Chapter 2
includes the first reported efforts to include high temperature corrections to the partition functions of the polyatomic ions in
ICP MS This and other objections to preceeding papers in this area were addressed Errors in the measured Tgas values were
found for given errors in the experimental and spectroscopic values The ionization energy of the neutral polyatomic ion was
included in calculations to prove the validity of ignoring more complicated equilibria Work was begun on the question of
agreement between kinetics of the plasma and interface and the increase and depletion seen in certain polyatomic ions This
dissertation was also the first to report day to day ranges for Tgas values and to use a statistical test to compare different
operating conditions This will help guide comparisons of previous and future work Chapter 4 was the first attempt to include
the excited electronic state 2 in the partition function of ArO as well as the first to address the different dissociation products
of the ground and first electronic levels of ArO Chapter 5 reports an interesting source of memory in ICP MS that could affect

mathematical corrections for polyatomic ions For future work on these topics I suggest the following experiments and investigations Clearly not an extensive list they are instead the first topics curiosity brings to mind 1 Measurement of Tgas values when using the flow injection technique of Appendix B It was believed that there was a fundamental difference in the plasma when the auto sampler was used versus a continuous injection Is this reflected in Tgas values 2 The work of Chapter 3 can be expanded and supplemented with more trials new cone materials i e copper stainless steel and more cone geometries Some of this equipment is already present in the laboratory others could be purchased or made 3 Tgas values from Chapter 3 could be correlated with instrument pressures during the experiment Pressures after the skimmer cone were recorded for many days but have yet to be collated with the measured Tgas values 4 The Particulate Nature of Polyatomic Ions ,2007 **Investigations Into the Origins of Polyatomic Ions in Inductively Coupled Plasma-mass Spectrometry** Sally M. McIntyre,2010 Fragmentation of Diatomic and Polyatomic Ions in the Gas Phase Christopher John Proctor,1981 **Standard Thermodynamic Functions of Gaseous Polyatomic Ions at 100-1000 K** Aharon Loewenschuss,Y. Marcus,1987 *Experimental Studies of Polyatomic Ion Interactions with Clean and Adsorbate Covered Metal Surfaces* Samuel B. Wainhaus,1997

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web graad 10 ekonomie vraestel 1 11 2 uur punte 100 11 bladsye b o gautengse departement van onderwys provinsiale eksamen ekonomie vraestel 1 tyd 11 2 uur punte 100 instruksies en inligting beantwoord drie vrae soos volg in die antwoordboek afdeling a verpligtend afdeling b beantwoord

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web vraestelle vir 2019 graad 8 2 taal gr 8 nov 2018 2 taal gr 8 nasienriglyne nov 2018 2 graad 8 afrikaans vraestel 2 taal en begrip 1 assessering voorbeeldvraestelle 1 en 3 graad 10 afrikaans huistaal 2013 2 besigheidstudies gr 10 1dbe 2018 besigheidstudies gr 10 2dbe 2018 gasvryheidstudies gr 10 junie 2018 gr10v2november

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web jun 28 2023 hierdie produk bestaan uit n aflaaibare graad 10 lewenswetenskappe september eksamen memo vraag 1 organiese verbindings basiese strukture van selle mitose plantweefsel diereweefsel vraag 2 plant en diersel chloroplaste vraag 3 mitose organiese en anorganiese verbindings die vraestel bestaan uit 7 bladsye vir 65 punte

vraestelle wiskunderocks - Oct 01 2022

web vraestel 2 v2 februarie maart 2010 2019 v2 junie 2015 2019 vraestelle graad 8 junie september november graad 9 junie september graad 10 vraestel 1 junie 2012 2018 vraestel 2 november 2012 2017 graad 11 vraestel 1 junie 2012 2018 vraestel 2 november 2012 2017 graad 12 vraestel 1 v1 februarie maart 2010 2019 v1 junie 2016 2019