

Questions et réponses en chimie sur chemistry.stackexchange

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Le site est une des nombreuses déclinaisons proposées par [Stack Exchange](#), un système multi-domaine de questions et réponses né d'un site initial dédié à l'informatique : [Stack Overflow](#). Il existe d'[autres sous-sites](#) pour de nombreuses disciplines : [mathématiques](#), [physique](#), [biologie](#),...

Le niveau de qualité des questions et réponses est mis en évidence, le contenu est trié suivant un ordre de notation, et le niveau général augmente constamment. Certaines interventions restent cependant de faible qualité, mais ne sont pas présentées en priorité.

Des questions sont simplement intéressantes pour leur aspect scientifique. Quelques unes émanent d'élèves ou étudiants en recherche d'explications qui peuvent apparaître éventuellement triviales. C'est alors la démarche, la formulation, et parfois les réponses de moindre qualité qui sont intéressantes, dans le cadre d'une formation en enseignement de la chimie.

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Sélection de questions intéressantes

- [How to balance more complex redox reactions?](#) → **Comment équilibrer des réactions redox complexes**
- [sp⁵ hybridization in cyclopropane](#)
 - [Is hybridization of the cyclopropyl anion sp⁵?](#)
- [What determines the coefficients in the wavefunction of a hybrid orbital?](#)
- [How do I figure out the hybridization of a particular atom in a molecule?](#)
- [HCH bond angle in cyclopropane and cyclobutane](#)
- [When can a molecule be considered freely rotating at room temperature?](#)
- [What is the definition of 'compound', 'mixture', 'element' and 'molecule'?](#)
 - cf. <http://pubs.acs.org/doi/abs/10.1021/ed200269e>
 - <http://pubs.acs.org/doi/abs/10.1021/ed3004275>
- [Chemistry behind Gale's Coffee Maker in Breaking Bad](#)
- [Why do salts such as NaCl dissolve?](#) → **Pourquoi les sels tels que le NaCl se dissolvent**

dans l'eau ?

- Non bonded orbitals in water
- White powder observed after boiling water in electric kettle for many weeks
- Conflict Between Organic and Physical Chemists--explaining the intensities of IR absorptions
- Estimation of the bond angle of water
- What is the real difference between ΔG and ΔG° ?
- Are non-exothermic explosions possible?
- Will a strong acid still dissociate "completely" even in the presence of a stronger acid?
- During a phase change in matter, why doesn't the temperature change?
- Does an onion completely remove "fresh" paint VOCs and other chemicals emitted?
- Why doesn't calcium carbonate dissolve in water even though it is an ionic compound?
- Why is the minus sign (-) not allowed in Chemistry?
- Reason behind Le Chatelier's principle
- maximum number of electrons each shell
- When is there hybridization and when is there no hybridization?
- Why calcium chloride is used to melt ice over sodium chloride
- Why do we write NH_3 ?
- Can you make napalm out of gasoline and orange juice concentrate?
- Why is Borax used as a primary standard? → **Pourquoi le borax est-il utilisé comme standard primaire**
- What is the origin of the "positive-to-negative" convention concerning dipole moments in chemistry?
- Is there a chemical reaction that speeds up when the temperature gets lower?
- CuCl_2 has colour but CuCl does not
- Why is phenolphthalein an appropriate indicator for titration of a strong acid with a strong base?
→ **Pourquoi la phénolphthaléine est un indicateur approprié pour le titrage d'un acide fort par une base forte ?**
- Why does CaCO_3 react with HCl , but not with H_2SO_4 ?
- Why is HCl a stronger acid than Acetic Acid?
- Why is adsorption exothermic
- Iron nomenclature differences between Iron(III) and Ferric
- Why do the atoms in molecular models have the colors they have?
- Can an atom have more than 8 valence electrons? If not, why is 8 the limit ?
- Is there a difference between NaCl or table salt (processed) and salt from the Himalayas?
- Weird Wikipedia Section on Oxidizing Behavior of Nitric and Sulfuric Acids
- During a phase change in matter, why doesn't the temperature change?
- How to calculate melting/boiling points at different pressures
- Why does entropy increase when the difference in temperatures is decreased?
- Why doesn't copper react with hydrochloric acid while the other metals do?
- Reaction of silver nitrate and hydrochloric acid
- How could a change in alkalinity explain Rio 2016 pool water turning green?
- Is a negative pH level physically possible?
- To which block of the periodic table does helium belong?
- Why does the ionization energy decrease anytime the atom size increases? → **Pourquoi l'énergie d'ionisation diminue-t-elle lorsque la taille de l'atome augmente ?**
- Why do raisins bob up and down in carbonated water?
- Are any bonds broken when NO_2 becomes N_2O_4 ?
- What is the physical basis for Hund's first rule?
- Entropy change when indistinguishable particles suddenly become distinguishable
- How do you melt metals with super high melting points?

- What is "heating under reflux"?
- How could I cause metal to rust rapidly?
- Is it possible for halogens to show oxidation states less than -1?
- Why does ice water get colder when salt is added?
- Pi electron stacking, how does it work?
- What exactly is a mole?
- How are the atomic orbitals for multi electron atoms obtained?
- Why can't alcohols form hydrogen-bonded dimers like carboxylic acids?
- What are oxidation states used for?
- Why do we use helium in balloons?
- Why would breathing pure oxygen be a bad idea?
- Why is the reduction by sugars more efficient in basic solutions than in acidic ones?
- Chemical bonding and dipole moment
- How do I type a simple chemical equation in Microsoft Word?
- How can I safely handle a concentrated (fuming) nitric acid spill?
- How to separate alloys?
- How does osmosis work?
- How does one tell if a specific molecule is acidic or basic?
- Why is ammonium a weak acid if ammonia is a weak base?
 - *cf.* What is the pKa of water? (chemistry libretexts)
- Ammonium Hydroxide Name
- **pKa de l'ion hydronium ou oxonium...**
 - How to calculate Ka for hydronium and Kb for hydroxide?
 - What is the pKa of the hydronium, or oxonium, ion (H₃O⁺)?
- Why are snowflakes shaped as they are?
- Is there an easy way to find number of "valence electrons"?
- What is the difference between "atomic hydrogen" and "nascent hydrogen"?
- Can drinking a lot of water be fatal?
- How to determine number of structural isomers?
- Structure of Br₃O₈
- How do I figure out the hybridization of a particular atom in a molecule?
- What is the white substance left behind after boiling down water
- An introduction to "oxidation state"/"oxidation number"
- Does water have a chemical name?
- Do acids really donate a proton? → **Les acides donnent-ils vraiment un proton ?**
- Is this a violation of Equipartition theorem?
- Why alkanes containing even number of carbons can be packed more efficiently than alkanes with odd number of carbon atoms?
- Choosing the right condenser
- Is there such a thing as an acid without a hydrogen?
- Why do different H⁺ in polyprotic acids have different K?
- What is charge density?
- How was it concluded that the H₃O⁺ rather than H⁺ is the "acid" ion?
- Can other substances be dissolved in a saturated solution?
- Can sodium bicarbonate be considered an acid?
- Is it possible for a compound to be soluble in a mixture of solvents but not the individual solvents?
- Why doesn't tetraiodine exist?
- Is the term "heteroatom" reserved for exclusive elements?
- Why is it important to use a salt bridge in a voltaic cell? Can a wire be used?
- Why are dipoles "permanent/induced dipole permanent/induced dipole" and not just

“permanent/induced dipole” once?

- In the bicarbonate ion, why can the hydrogen not bond to the carbon?
- Will KOH work in place of NaOH as the electrolyte in the electrolysis of water?
- Why does chocolate melt so easily?
- Why does a substance with an endothermic heat of solution dissolve?
- What allows sulfur and phosphorus to expand their octet?
- Why does Zn react with NaOH?
- An ionic compound dissociates into 3 ions of 3 different elements?
- If polyethylene glycol (PEG) is hygroscopic, how does it protect wood?
- Relation between molar mass and van der Waals force
- Difference between electropositivity and electronegativity
- Why does whipped cream use nitrous oxide instead of nitrogen gas?
- What is the reaction between oxalic acid and potassium permanganate?
- A glass of water with ice-cubes in it. Where's the water the coldest; at the top or bottom?
- Why is it wrong to use the concept of “hybridization” while studying complexes?
- Why does mercury decolourise a gold ring?
- Saturated vs unsaturated fats - Structure in relation to room temperature state?
- What is the difference between D and L configuration, and + and -?
- Can I eat the lemons after I have used them as a battery?
- Explanation of Lemon Juice-Invisible Ink
- Percentage ionic character if electronegativity is given
- Reviving Li-ion battery in freezer?
- What volume does one mole of an ideal gas occupy? → **Quel volume occupe une mole de gaz idéal**
- What are the side effects of adding dry ice to a swimming pool?
- What is the pKa Range for weak acids and bases?
- What properties of carbon dioxide make it a greenhouse gas?
- Why is fluorine a gas, but lithium isn't?
- Freezing point of oxygen-18 water
- Why do branched chain compounds have lower boiling points than the corresponding straight chain isomers?
- Why do transition elements make colored compounds?
- Improving Elephant Toothpaste experiment
- What's the difference between reactant, excess reactant and limited reactant in a balanced equation?
- Michaelis-Menten mechanism of enzyme-catalyzed reactions
- Why add water first then acid? → **Pourquoi faut-il toujours mettre l'eau en premier et l'acide ensuite**
- What is the molecular structure of xenon hexafluoride?
- Choice of preferred IUPAC names
- What is the analogue of “molecule” for ionic compounds?
- What are the products of the dissociation of sodium bicarbonate in water? What is the relative pH of the solution?
- What is the difference between ignition temperature and flash point?
- Why are covalent bonds directional?
- Why do methane molecules have 15 degrees of freedom?
- What is $K_2O \cdot nSiO_2 \cdot xH_2O$?
- What do the different grades of chemicals mean?
- Reviving Li-ion battery in freezer?
- How to properly store acids at home?

- Does a diatomic gas have one or two vibrational degrees of freedom?
- Is it actually possible to dispose of a body with hydrofluoric acid?
- Na^+ or Ca^{2+} . Which ion has the larger radius?
- How does water evaporate completely when at room temperature?
- Do electronic balance weighings still need to be corrected for buoyancy error?
- Most probable point for finding an electron in the 1s orbital of a Hydrogen atom
- Misleading features of Lewis Dot Representation
- Why are indicators used only in the form of dilute solutions?
- Is it correct to say that ethenol is an alcohol?
- What visual observations can confirm that a reactant is the limiting reagent?
- How exactly do sulfites prevent oxidation of wine?
- Is there a way to "electroplate" wood with copper?
- Elements which do not form oxides
- What is the differences between partial pressure and vapour pressure?
- The shapes of molecules
- Etymology of saturation degrees (-ane, -ene, -yne) in aliphatic compounds
- The impossibility of 100% ionic bond
- Arrows used in chemical reactions
- Dipole moment - calculation of percentage ionic character
- Is melting/boiling point of ionically bonded substance higher than of covalently bound?
- What happens to the argon in the Haber-Bosch process?
- How do I figure out the hybridization of a particular atom in a molecule?
- How do they ensure there is one electron on an oil drop in Millikan's oil drop experiment?
- Image of crystal structure
- Would the concentration of oxygen around fire increase as we get close to the fire (from the outside)
- What is the condensation point of water?
- Are children's sparklers based on a magnesium reaction?
- Oxidation of aluminum and manufacturing of electrolytic capacitors
- Why is entropy favorable?
- How is aqua regia stored?
- Why exactly does precipitation occur?
- What is the melting point of diamond?
- Why do we use $J(J+1)$ instead of J^2 in the rigid body rotor energy equation?
- Le Chatelier's principle: Are there any exceptions?
- What is the difference between a coefficient and a subscript in a chemical equation?
- How do I calculate the degree of dissociation in equilibrium?
- Which is the most acidic hydrogen in vitamin C
- What is the carbon dioxide content of a soda can or bottle?
- Why do different substances have different boiling points?
- Why copper sulphate is a catalyst in this reaction
- Enrichment of D2O
- Why do we use helium in balloons?
- Positive or Negative Anode/Cathode in Electrolytic/Galvanic Cell
- What makes Coke acidic?
- Why do the melting and boiling points of the noble gases increase when the atomic number increases?
- Preparation of iodine solution
- What is the difference between ψ , $|\psi|^2$, radial probability, and radial distribution of electrons?
- Minimal basis for Li
- Volume of orbitals

- Why are metal oxides basic and non-metals' acidic or neutral
- What would be the effect of the addition of an inert gas to a reaction at equilibrium?
- Are metallic/ionic bonds weaker than covalent bonds?
- Which is the strongest base?
- Derivation of the Temperature Dependence of the Boltzmann Distribution
- How to find the hybridization of an atom in a molecule?
- What are the differences between diesel and unleaded gasoline?
- How to calculate the concentration H_3O^+ in a solution with $pH=6.99$?
- Why do we use helium in balloons?
- Why does potassium react more violently with water than lithium?
- What role does sulfuric acid play in the titration of oxalic acid and potassium permanganate?
- How do I extract cyanide from apple seeds?
- Why are there multiple lines in the hydrogen line spectrum?
- What is SPDF configuration?
- Why do we not generally have "enneane"?
- Which has stronger hydrogen bonds: water or ice?
- Why does adding salt to boiling water cause it to flare up suddenly?
- What bond exists in "red oxygen", and can something similar happen with hydrogen?
- Why DNA is negatively charged and what makes it so?
- Melting points and boiling points of primary alcohols do not follow the same trend
- Differences between phenols and alcohols
- Why does carbon monoxide have a greater affinity for hemoglobin than oxygen?
- Why doesn't water burn?
- Half-Life of Radioactive Isotopes: Why? How?
- Would it be possible to destroy gold?
- are half of "H2SO4 pH sample problem" webpages just wrong, or am I wrong?
- How to name binary (inorganic) compounds given their chemical formula, and vice-versa?
- Why does $C=O$ have a larger dipole moment than $C-O$?
- Why do most carboxylic acids have high pK_a (~5) in spite of having a conjugate base ion that is stabilized by resonance?
- Search by CAS Registry name to obtain trackable accession: ie InChi?
- Calculate pH of a weak acid and weak base neutralization reaction
- What is the proof of complete ionic dissociation in water?
- What causes the "rotting fish smell"?
- Which chemical reactions don't involve bond breaking?
- What is a neutral atom?
- Difference between conformational, constitutional, and structural isomers and the same and different molecules
- Lewis structure for magnesium diboride
- Rules of naming ionic compounds
- Chemical equation that can be balanced in infinite number of ways?
- Would standing next to a pool of mercury do you any harm?
- Why does the melting point get lower going down the Alkali Metal Group with increase in atomic number?
- How can melting point equal freezing point?
- Difference between thermodynamic and kinetic stability
- What is the correct name of 3-isopropyl-4-methylhexane?
- How does chlorine in water evaporate?
- How to decide acidic or basic nature of oxides
- Why is it OH^- and not HO^- ? (duplicate)

- Why is methane's molecular formula conventionally "CH₄", while water is "H₂O" (among others)?
- How is the light from a fire emitted?
- What is the strongest oxidising agent?
- Why don't we explode after drinking water?
- How to choose wavelength in spectrophotometry? How to use Beer-Lambert Law?
- Reason for the stronger acidic property of phenol than alcohol
- Why does wood burn but not sugar?
- How can the solid state structure of cyclopentadienyllithium be explained?
- Why do we use Δ to mean heating?
- Is there an easy way to remember charges on ions?
- How to find pH by mixing two solutions of different concentrations?
- Why can the acidic strength between H₂S and HCl be explained on the basis of electronegativity but H₂S and H₂O can't?
- Does a neutral dimercury molecule exist?
- Properties of Water
- Which is anode and which is cathode?
- How could the ideal gas law be discovered from experiments on real gases?
- Why does the beryllium 2+ ion have a larger radius than a helium atom?
- Why does zinc react with sodium hydroxide?
- Why can a diamond be broken using a hammer if it's the hardest natural substance known?
- Can a long polymer chain interact with itself via van der Waals forces?
- Why proton concentration is divided by 10⁻⁷?
- Reaction between NaOH and CO₂
- Flame Test Spectrograms Not Lining Up With Reality
- Why doesn't H₄O²⁺ exist?
- amu and g/mol relation
- Difference between shells, subshells and orbitals
- How do non-polar substances dissolve in non-polar solvents?
- Storing hydrofluoric acid before the invention of plastics
- When a candle burns, why does the top of wick glow if bottom of flame is hottest?
- Does the main washing effect of soap come from foam?
- Why does electrolysis of aqueous concentrated sodium bromide produce bromine at the anode?
- How is the potential energy between two atoms measured?
- Does concentration of salt increase or decrease rate of rusting?
- Tetrahedral or Square Planar
- What purpose does mercury dichloride have in fireworks?
- Why is it considered acid rain with pH < 5.6?
- How do you explain pK_a to non-professional?
- Why is only the carbonate anion used to precipitate Barium?
- What's the biggest organic molecule that could have a smell?
- How to predict the decomposition products of for example barium carbonate?
- organophosphorus compounds - How to convert P₂O₅ concentration to H₃PO₄ concentration?
- everyday chemistry - Will alcohol or soap damage plastic or rubber?
- Covalent Bond/Hydrogen Bond
- Explanation for why nickel turns green in hydrochloric acid
- Is black tea a pH indicator?
- Calcium ion and sulfate did not form precipitate
- How do Precipitation Reactions behave in the Absence of Gravity?
- Heat involved in isenthalpic process
- Unexpected result (sodium hypochlorite & steel wool)

- Why does chlorine have a higher electron affinity than fluorine?
- Lewis Structure of OF⁺
- Why is O₂ a biradical?
- Reason for the generation of London Dispersion Forces
- Why London Dispersion force is attractive not repulsive
- How are the number of tetrahedral voids twice the number of octahedral voids in a CCP structure?
- What are the correct resonance structures of nitrous oxide?
 - + question "Socratic" : What is the Lewis electron dot formula (Lewis structure) of Nitrous Oxide (N₂O)?
- atmospheric chemistry - Why does nitrous oxide have 300 times the global warming potential of CO₂?
- experimental chemistry - How come water would not affect the results of a titration?
- gas laws - Pressure Vs Volume plot for real and ideal gasses
- aqueous solution - Taking volume contraction into account when mixing water with ethanol
- inorganic chemistry - Calculating pH of rain water
- nomenclature - What is a word for "atom or molecule"?
- everyday chemistry - How would I measure the Carbon Dioxide content in Coca Cola over a period of time?
- Software to assist drawing of complex, three-dimensional skeletal formula from scratch or from existing crystal structure
- How does acetone remove pencil marks?
- Neutralizing a sulfuric acid spill
- How quickly is converting a H₂O + D₂O mixture to HDO?
- Is anode actually ever negative?
- Dimethylethylamine or Ethyldimethylamine?
- Why does N(OH)₃ not exist?
- membrane for a reverse osmosis desalination experiment
- Can someone intuitively explain the reason for the units of entropy (J/K)?
 - Why can entropy be measured in joules per kelvin?
- How does pH of soda drink vary with time
- Tools for Molecular Simulation
- What exactly is temperature?
- How to create black precipitate in clear liquid
- What is this copper compound I made?
- Is the salt of a weak acid and a weak base also a weak electrolyte?
- is there any difference between glycerin and glycerol?
- Can reactions produce microwave or radio wave radiation?
- What is the definition of organic compounds?
 - Difference between organic and inorganic chemistry
 - How can a thermometer ever show the actual temperature of an object if the object loses heat to the thermometer?
- How can I properly calculate the isoelectric point (pI) of amino acids?
- How does ammonium nitrate explode on its own?
- Can aluminium form blue-colored solution in liquid ammonia?
- What are the correct equilibrium arrows?
- physical chemistry - Can carbon dioxide be reduced to carbon monoxide and oxygen to produce energy?
- everyday chemistry - Are food calorie values really integers?
- experimental chemistry - How to differentiate between iron and sodium flames?

- organic chemistry - What is the name origin of ester?
- phase - At what pressure will hydrogen start to liquefy at room temperature?
- Why does pH affect fermentation?
- inorganic chemistry - How to extract pure potassium carbonate from ash?
- molecular structure - how to obtain potential curves from database?
- inorganic chemistry - Why does the solubility of Group II hydroxides increase and the solubility of sulphates decrease down the group?
- bond - Is melting/boiling point of ionically bonded substance higher than of covalently bound?
- terminology - What is the intuition behind 'mol' as a unit 'symbol'?
- inorganic chemistry - What is the equation for the reduction of water?
- thermodynamics - Work done on a Gas?
- terminology - Can precipitation occur in states of matter other than liquids?
- inorganic chemistry - Explanation for a basic decomposition of water experiment
- physical chemistry - Why is a third body needed in the recombination of two hydrogen atoms?
- How many electric vehicles can our current supply of lithium power?
- Cleaning with vinegar and sodium bicarbonate
- What has been the accepted value for the Avogadro constant in the "CRC Handbook of Chemistry and Physics" over the years?
- Why does entropy increase in reactions that make more molecules?
- Why do electrons jump back after absorbing energy and moving to a higher energy level?
- hydrocarbons - What is the carbon content, by weight, of vegetable oil?
- aqueous solution - leaving a spoon in a cup of tap water for about 12 hours makes a pattern of bubbles, why?
- thermodynamics - What would be the physical interpretation of the equation $dG = Vdp - SdT$?
- acid base - What pH value of 1M sodium crotonate solution supposed to be?
- How is it determined how many electrons are transferred in redox reactions?
- What happens inside salt bridges?
- Balancing reaction between copper and nitric acid given the ratio of formed nitrogen oxides
- Why do sulfur and oxygen form sulfur dioxide?
- organic chemistry - Why hydrogen bonding in some acids make them a stronger acid when it is present even before deprotonation?
- physical chemistry - Is the origin of non-integral atomic masses the difference in masses of the proton and neutron?
- physical chemistry - Can the equilibrium constant ever be exactly 1?
- reaction mechanism - How exactly does UV light break bonds?
- inorganic chemistry - Does ammonia exhibit hydrogen bonding in its gaseous state?
- Why are protons more common than hydride ion?
- How much CO₂ is produced when burning 1GJ of Natural Gas
- Peak in beer freezing temperature plot
- distillation - Does distilled water still have ions in it? Does deionized water lack ions, but still have other "stuff" in it?
- nomenclature - Why use "molecular equation" to refer to a chemical equation describing a precipitation reaction?
- organic chemistry - How can I tell whether or not a molecule is planar?
- How does H₂SO₄ dissociate?
- chemical formula - Combustion analysis of hydrocarbon
- Why are almost all fruits acidic?
- Why is carbonic acid often ignored?
- inorganic chemistry - Why do diluted sulfuric acid and hydrogen peroxide etch copper only when chloride ions are present?
- Where does the energy from combustion come from?

- electronic configuration - Reasoning for why anions have larger radius
- physical chemistry - Why is supersaturated sodium acetate so (meta)stable?
- What is the origin of the word salt as used in chemistry?
- Molar conductivity calculation in a titration curve
- How should you report measurements and uncertainty for a measuring cylinder with 0.5 mL graduations?
- nomenclature - Are there separate quantity symbols for the pKa of a substance and the pKa of its conjugate acid?
- solutions - Name of particles in a suspension
- physical chemistry - Why does aluminum have a lower first ionization energy than magnesium?
- aqueous solution - How to convert from w/w% to molarity?
- thermodynamics - Prigogine vs. Bronsted and the minimum entropy production principle
- physical chemistry - How do thermodynamic variables behave in reversible and irreversible processes?
- Why do sp³ orbitals have tetrahedral symmetry when they are linear combinations of orbitals with octahedral symmetry?
- What is the difference between the KLMN and SPDF methods of finding electronic configuration?
- Why is there a decrease in the total volume when NaOH dissolves in water?
- acid base - Is it appropriate to call an element an amphoteric substance?
- physical chemistry - Equilibrium Bond Length & Diatomic Molecules
- analytical chemistry - Difference between a "cartoon" flame test and a "real" flame test? How do chemists do flame tests correctly?
- acid base - Why doesn't hydroxide associate with water analogously to proton forming hydronium?
- inorganic chemistry - Equilibrium constant for isothermal double equilibrium "shift"
- What happens when you add a weak acid to a solution buffered at a pH of 8.0?
- stoichiometry - Does stoichiometric gas mixture produce the highest explosion pressure (or energy) compared with other explosive limit mixture?
- acid base - How do you explain pKa to non-professional?
- ...

Autres sites de questions et réponses

- <https://socratic.org/chemistry> (licence CC-BY-NC-SA)
- <https://www.quora.com/topic/Chemistry>
- Reddit Chemistry
- Reddit Science Education
- For .gifs that provide knowledge!
- ...

Questions diverses

- Ça sent le gaz, mais pourquoi le gaz sent? Michel Alberganti — 22 janvier 2013
- Can Gibbs energy of formation be calculated from enthalpy and entropy?

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