

CHEMICAL EQUATIONS REACTIONS

SECTION 2 ANSWERS

[Download Complete File](#)

Which element is more active F₂ or I₂? F₂ is a better oxidizing agent than I₂ because its standard reduction potential is more positive. The standard reduction potential of $\text{F}_2(\text{g}) + 2\text{e}^- \rightarrow 2\text{F}^-(\text{aq})$ is +2.87, and the standard reduction potential of $\text{I}_2(\text{s}) + 2\text{e}^- \rightarrow 2\text{I}^-(\text{aq})$ is +0.54.

Is the reaction of rubidium with water faster and more violent than the reaction of Na with water? The reaction of rubidium, Rb, with water is faster and more violent than the reaction of Na with water. Use the atomic structure and radius of each metal to account for this difference. Both are alkali metals and readily form a stable 1 ion by ejecting an s¹ electron.

What is for a substance to bind with a particular enzyme? The chemical reactants to which an enzyme binds are called the enzyme's substrates. There may be one or more substrates, depending on the particular chemical reaction. In some reactions, a single reactant substrate is broken down into multiple products.

What is the equation for the solids aluminum and sulfur react to produce aluminum sulfide? The balanced chemical equation $2\text{Al}(\text{s}) + 3\text{S}(\text{s}) \rightarrow \text{Al}_2\text{S}_3(\text{s})$ represents the reaction of aluminum with sulfur to form aluminum sulfide. It states that two moles of solid aluminum (Al) react with three moles of solid sulfur (S) to produce one mole of solid aluminum sulfide (Al₂S₃).

Why is F₂ more reactive than I₂? Due to small size, high electronic density, greater inter electronic repulsion (lower F-F bond energy) F₂ is highly reactive among halogens. Hence the order, $\text{F}_2 > \text{Cl}_2 > \text{Br}_2 > \text{I}_2$.

What are the 2 most reactive element groups? The two most reactive groups of elements are the alkali metals and the halogens, because of their valence electrons. Was this answer helpful?

Is Na or K more reactive with water? First difference: Potassium reacts more vigorously and explosively with water while Sodium reacts less violently with water when compared to potassium.

Which reacts more violently with water sodium or potassium? Potassium (K) reacts most vigorously with cold water and hydrogen gas produced as a result of it immediately catches fire and burns with lilac coloured flame because of the presence of potassium vapours in it. Order of reactivity with water is $K > Na > Ca > Mg$ etc.

Which reaction is more faster? If the phase of matter (solid, liquid, or gas) of the reactants results in more collisions, the reaction will be faster. Gas molecules move fast, so gases usually react faster than liquids. Liquids move faster than solids, so liquids react faster than solids.

What is the simple definition of active site? The active site of an enzyme is the part of the enzyme where substrate molecules bind and a chemical reaction takes place. The active site is made up of amino acid residues that establish temporary bonds with the substrate (binding site) as well as residues that catalyse that substrate's reaction (catalytic site).

How does induced fit work? The induced-fit model states a substrate binds to an active site and both change shape slightly, creating an ideal fit for catalysis. Enzymes promote chemical reactions by bringing substrates together in an optimal orientation, thus creating an ideal chemical environment for the reaction to occur.

What is the primary function of an enzyme or any biological catalyst? Enzymes (and other catalysts) act by reducing the activation energy, thereby increasing the rate of reaction. The increased rate is the same in both the forward and reverse directions, since both must pass through the same transition state.

What is the chemical formula of the product formed when the aluminum and sulfide ions combine?

What is the balanced equation for aluminum sulfide reacts with water to form aluminum hydroxide and hydrogen sulfide? The balanced chemical equation for the reaction between aluminum sulfide and water is: $\text{Al}_2\text{S}_3 + 6\text{H}_2\text{O} \rightarrow 2\text{Al}(\text{OH})_3 + 3\text{H}_2\text{S}$.

What is the chemical formula of the compound formed when aluminum and oxygen react? Aluminium reacts with oxygen results in the formation of Aluminum oxide with molecular formula Al_2O_3 .

Is F or I more reactive? Among the halogens, fluorine, chlorine, bromine, and iodine, fluorine is the most reactive one.

What is the bond energy of F_2 ? The bond energy in the gaseous diatomic species F_2 is $158.78 \text{ kJ mol}^{-1}$.

Which is more electronegative, Br or I? Thus increase in size leads to less attraction of electrons by the same nucleus. Accordingly the order of electronegativity of the given elements would be: Fluorine > Chlorine > Bromine > Iodine. (Fluorine has the highest electronegativity.)

What happens when alkali metals are exposed to water? Alkali metals react with water to produce heat, hydrogen gas, and the corresponding metal hydroxide. The heat produced by this reaction may ignite the hydrogen or the metal itself, resulting in a fire or an explosion. The heavier alkali metals will react more violently with water.

What is the only non-metal found on the metal side of the periodic table? Detailed Solution. Hydrogen is the only non-metal placed at the left side of the Modern Periodic Table.

What are four properties of metals? Physical Properties of Metals Metals are lustrous, malleable, ductile, good conductors of heat and electricity.

Is fluorine or iodine more active? Fluorine is the most electronegative halogen, so it is the most reactive halogen. Iodine is the least electronegative (except astatine), so it is the least reactive.

Which is stronger F₂ or I₂? The bond energies for the molecules in decreasing order are: F₂ > Cl₂ > Br₂ > I₂. Fluorine has the highest bond energy, while iodine has the lowest. Fluorine's small atomic size leads to a strong F-F bond, making F₂ the highest in bond energy. Chlorine follows, with a moderately strong Cl-Cl bond.

Which is most likely solid F₂ or I₂? Iodine is a solid while fluorine is a gas although both are halogens because the metal (reducer) character of elements increases when you going down the groups of the Periodic table. Iodine has even brilliance, similarly as metal.

Is Cl₂ or F₂ more chemically active? 2) The electronegativity of fluorine is more than that of chlorine . F₂ is highly reactive then Cl₂. Order of reactivity towards halogenation is F₂>Cl₂>Br₂>I₂.

How much oil does a lc4 640 take? You need to fill it with 1.3 litres.

How much does a 2002 KTM 640 lc4 weigh? Wet-Weight 175 kg (389 lb.) Fuel Capacity 28 l (7.4 gal.)

What is the top speed of the LC4 640?

How much horsepower does the LC4 engine have?

How much does a KTM LC4 640 Enduro weigh? The KTM LC4-E 640 Enduro weighs 136.0 kg (299.8 pounds).

How much does a KTM exhaust weight? cooler surface of the exhaust. weight: WINGS 6,06 lbs (2,75 kg) / original exhaust 15,32 lbs (6,95 kg)

How heavy is a KTM 450?

How much oil does a 640 BMW take? 6.9 quarts (with filter). After refill check oil level.

How much oil does a Minneapolis Moline hold? the minnie U takes 9 quarts of oil.

How many gallons of oil does a isx15 take?

How much oil does a Thermo King APU hold?

Standard Operating Procedures (SOPs) for Food Safety and Hygiene

Q1: What are SOPs for food safety and hygiene? SOPs are detailed, written instructions that provide specific guidelines for employees to follow in order to maintain food safety and hygiene standards. They cover all aspects of food handling, from receiving and storing, to preparing and serving.

Q2: Why are SOPs important for food safety? SOPs help ensure consistency in food safety practices, reducing the risk of contamination and foodborne illness. They provide clear instructions for employees to follow, eliminating confusion and reducing the likelihood of errors.

Q3: What are the key elements of an SOP for food safety and hygiene? SOPs for food safety and hygiene should include:

- **Scope:** The purpose and objectives of the SOP
- **Responsibilities:** The roles and responsibilities of employees involved in the process
- **Procedures:** Step-by-step instructions for carrying out the task
- **Monitoring and verification:** Methods for monitoring compliance and verifying the effectiveness of the SOP
- **Records:** Instructions for maintaining records of food safety and hygiene checks

Q4: How are SOPs implemented and maintained? SOPs should be developed and implemented with the involvement of relevant stakeholders, including employees and management. They should be reviewed and updated regularly to reflect any changes in regulations, best practices, or equipment. Employees should be trained on the SOPs and have access to them at all times.

Q5: What are the benefits of implementing SOPs for food safety and hygiene? Implementing SOPs for food safety and hygiene offers numerous benefits, including:

- Reduced risk of foodborne illness outbreaks
- Improved food safety culture

- Enhanced employee training and accountability
- Increased customer confidence
- Improved compliance with regulatory requirements

What are the notes for cocaine by Eric Clapton? The progression is E5, D5, C5, and B5. We use the same chord shape for the four chords and slide it up and down the guitar - no need to jump strings here.

What key is Eric Clapton's cocaine in? Cocaine is written in the key of E Mixolydian. According to the Theorytab database, it is the 2nd most popular key among Mixolydian keys and the 26th most popular among all keys. The E Mixolydian scale is similar to the E Major scale except that its 7th note (D) is a half step lower.

What is the meaning behind the song "Cocaine" by Eric Clapton? Clapton described the song as an anti-drug song intended to warn listeners about cocaine's addictiveness and deadliness. He called the song "quite cleverly anti-cocaine", noting: It's no good to write a deliberate anti-drug song and hope that it will catch.

What tuning is Cocaine in? If you want the guitar tab for this riff and all of my other riffs you can get them in my "LICKS" course on Guitarmy All-Access Membership.

Which scales does Eric Clapton use? In the right hands, especially those that have been blessed by mythical crossroads, the pentatonic scale is a powerful tool for any guitarist. Eric Clapton Songs usually offer a generous use of the scale. If you're not yet familiar with the pentatonic scale, check it out here.

What is the devil's key in music? But back in the day, the devil was said to exist in a particular musical tone. For centuries, it was called the devil's interval — or, in Latin, diabolus in musica. In music theory, it's called the "tritone" because it's made of three whole steps.

What is the saddest sounding key in music? The key of D minor. It's the key, some people say, which often triggers immediate weeping. When we turn to the scholars over the centuries and ending in this one, among many musicologists, composers, songwriters, there is an ever-expanding consensus that D minor leads all others in its evocation of melancholy.

Does Eric Clapton have a partner now?

Did Eric Clapton know his son?

What song is Eric Clapton known for? He wrote undoubtedly his finest and most devastating song, 'Layla', about Boyd when she was married to his best friend George Harrison no less. During his time in one-off project Derek & the Dominos, Clapton wrote his most iconic song whilst his love was at boiling point.

What is the saddest tuning? Unofficially dubbed “the saddest tuning of all,” open D minor tuning is one of the easiest tunings to learn and also one of the most expressive.

What tuning does Eric Clapton use? Open G Tuning in the Blues Genre Clapton's version added more of a rock element while still keeping a fairly traditional blues sound, true to its roots.

What is the b chord on guitar?

What are the notes of Coke? The primary modern flavorings in a cola drink are citrus oils (from orange, lime, and lemon peels), cinnamon, vanilla, and an acidic flavorant. Manufacturers of cola drinks add trace flavorings to create distinctive tastes for each brand.

What is the meaning of the song cocaine blues? Background. A container of Wellcome-brand cocaine, 1948. The song is the tale of a man, Willy Lee, who murders his unfaithful girlfriend while under the influence of whiskey and cocaine. He flees to Mexico and works as a musician to fund his continued drug use.

What key is cocaine blues?

Did Eric Clapton know his son?

[ktm 640 lc 4 service manual](#), [standard operation procedures food safety hygiene](#), [eric clapton cocaine chords and lyrics mychordbook](#)

modern operating systems solution manual 3rd edition zumdahl chemistry 7th edition
 small field dosimetry for imrt and radiosurgery aapm chapter chilton manual
 oldsmobile aurora 2008 hyundai sonata repair manual inventing vietnam the war in
 film and television culture and the moving image nothing rhymes with orange perfect
 words for poets songwriters and rhymers zafira b haynes manual acl surgery how to
 get it right the first time and what to do if it fails bach acl surgery dell d620 docking
 station manual the gospel in genesis from fig leaves to faith truth for all time analysis
 and correctness of algebraic graph and model transformations biomedical
 information technology biomedical engineering gcse business studies aqa answers
 for workbook chapter 5 trigonometric identities the tempest case studies in critical
 controversy mission drift the unspoken crisis facing leaders charities and churches
 by peter greer chris horst anna haggard 2014 hardcover john deere 14st lawn mower
 owners manual sabbath school program idea yardman he 4160 manual big primary
 resources primate atherosclerosis monographs on atherosclerosis vol 7 funk
 transmission service manual holt mcdougal accelerated analytic geometry
 badvanced algebra georgia student workbook analytic geometry badvanced algebra
 mitsubishi lancer evolution 6 2001 factory service repair manual succeeding in
 business with microsoft access 2013 a problem solving approach new perspectives
 soil organic matter websters timeline history 1910 2007
 pathophysiologyofshock sepsisand organfailureby lindas costanzo1951ford
 shopmanualhow tokeepyour teethfor alifetime whatyou shouldknowabout caringfor
 yourteethevolutionary epistemologylanguageand culturea nonadaptationist
 systemstheoreticalapproach theoryand decisionlibrary ahonda preludemmanual
 transmissionoil clymerhondagl 1800gold wing20012005 clymermotorcycle
 repairclymercolor wiringdiagramsflorida cosmetologylicensetest study guidemanualeboot
 tricoreaptitudetest numericalreasoning questionsandanswers withsolutionsarrow
 accountingmanualnelson scomplete ofbible mapsandcharts 3406cat enginemanual
 lennoxcompleteheat installationmanual 3rdgradescience crctreview hondastream
 2001manual themasculine marinehomoeroticism inthe usmarine corpshaworthgay
 lesbianstudiesblacketts warthemen whodefeatedthe naziuboats andbroughtscience
 totheheart ofwarfarethe sorcererof bayreuthrichardwagner hiswork andhis worldjohn
 deeremanual tm1520felt withlove felthearts flowersandmuch moresaxon
 math87answer keytransparencies vol3 ihcub cadetservice manualabc guideto

mineral fertilizers yara international a/c scrima double stick drills a good uk pin interest english
shorthand dictation question paper installation manual multimedia adapter audi imabox
bmw n47 manual feedback control system solution manual download hp business
inkjet 2200 manual drilling fundamentals of exploration and production by yamaha grizzly
3502 wd4wd repair manual 07 08 09 r1850a sharp manual