

CALCULATIONS USING STANDARD MOLAR VOLUME

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How do you calculate standard molar volume? At standard Temperature and Pressure (STP) the molar volume (V_m) is the volume occupied by one mole of a chemical element or a chemical compound. It can be calculated by dividing the molar mass (M) by mass density (ρ).

How to calculate volume from molar volume? The molar volume of gas is the measurement of the volume of one mole of gas. This can be in room temperature and pressure or non-room temperature and pressure. We can use the equation $\text{volume} = \text{moles} \times \text{molar volume}$ to calculate moles and volume using the molar volume of gas figure in room temperature and pressure.

How do you calculate the volume of STP? If you have the amount of gas in moles, simply multiply this amount by 22.4 Liters / mole to get the volume of the gas. For example, if you have 2 moles of N_2 gas, the gas takes up 44.8 Liters. If you have the mass of the gas, you can divide the mass by the molecular weight of the gas molecules to get the num.

How do you solve molar volume problems?

What is the standard molar volume law? The molar volume of a gas, V , is found using the formula for the ideal gas law: $PV = nRT$. In this equation, P is pressure, n is 1 mol, R is the universal gas constant, and T is the temperature in Kelvin. The value for R will vary depending on the units of pressure and volume used.

What is the formula for molar specific volume? Specific Volume Formulas $v = V / m$ where V is volume and m is mass. $v = 1 / \rho = \rho^{-1}$ where ρ is density. $v = RT / PM =$

RT / P where R is the ideal gas constant, T is temperature, P is pressure, and M is the molarity.

What is an example of a molar volume? The most common example to illustrate is the molar volume of a gas at STP (Standard Temperature and Pressure), which is equal to 22.4 L for 1 mole of any ideal gas at a temperature equal to 273.15 K and a pressure equal to 1.00 atm. Example: A sample of pure helium gas occupies a volume of 6.8 L at 0°C and 100 kPa.

When to use molar volume? This equation can be used to determine the volume or number of moles of a gas at standard temperature and pressure. It is important to recognize that the standard molar volume can only be used when the gas is held at a constant temperature of 0 °C and a constant pressure of 1 atm.

What is the formula for average molar volume? The volume of a molecule V_X is obtained from the molar volume based on the expression $V_X = V_m / N_A$ (N_A is Avogadro number) and it is different from van der Waals volume V_{vdW} [11]. Molar volumes can also be defined for mixtures forming solutions.

What is STP formula? STP for Gas This formula is written as $V = n R T / P$, where indicates V is the volume of the gas in L, n is the number of moles of the gas, R is the ideal gas constant, T is the temperature of the gas in K, and P is the pressure of the gas in atm.

What is the molar volume at STP? At STP, the molar volume of an ideal gas is 22.4 litre. Q.

How to find mass with volume at STP?

How do you measure molar volume? The molar volume close molar volumeThe volume occupied by one mole of any gas (24 dm³ or 24000 cm³ at room temperature and pressure). is the volume occupied by one mole of any gas, at room temperature and pressure. The molar volume is equal to 24 dm³ (24,000 cm³).

What is molar volume formula unit? The molar volume has the SI unit of cubic metres per mole (m³/mol), although it is more typical to use the units cubic decimetres per mole (dm³/mol) for gases, and cubic centimetres per mole (cm³/mol) for liquids and solids.

How do you convert volume to molar volume? For calculating the moles from the volume of pure liquid or solid first, we have to Multiply the volume by the density to get the mass. Then Divide the mass by the molar mass to get the number of moles.

How do you find the standard molar volume?

What is the volume at STP? The volume of a gas is a function of both pressure and temperature. At STP, 1 mol of gas occupies 22.4 liters (L) of volume. In other words, the molar volume of a gas at STP is 22.4 L.

What is standard molecular volume? The molar volume of a gas is the volume of one mole of a gas at STP. 2. At STP, one mole of any gas occupies a volume of 22.4 liters. 3. 22.4 is known as standard molar volume.

How to calculate the volume? Height \times width \times length = volume If the height, width and length are measured in cm, the answer will be cm^3 .

What is the molar volume equal to? Molar volume is the volume occupied by 1 mol of any (ideal) gas at standard temperature and pressure (STP : 1 atmospheric pressure, 0°C). Show that it is 22.4 litres.

What is the correct value of the molar volume? Standard Temperature and Pressure (STP) This refers to temperature of 0°C (273K) and pressure of 1 atmosphere. The molar volume of any gas at STP is 22.4 dm^3 (22.4 L).

How to calculate molar volume of water? $V = (1 \text{ mol})(18 \times 10^{-3} \text{ kg mol}^{-1}) \times 10^3 \text{ kg m}^{-3} = 1.8 \times 10^{-5} \text{ m}^3$. If we model the mole of water as a cube, since there are 6.022×10^{23} water molecules, each side of the cube would have 8.44×10^7 molecules.

What is the difference between volume and molar volume? Volume is the amount of space occupied by a specific sample and is infinitely variable, depending on the sample chosen. For instance, 1.00 g of water has a volume of 1.00 mL at 25°C , while a 500.0 g sample of water has a volume of 0.500 L. Molar volume is the volume occupied by a 1.00 mole sample.

How to calculate molarity? Calculating Molarity with Moles and Volume Molarity is equal to the number of moles of a solute divided by the volume of the solution in liters. As such, it is written as: $\text{molarity} = \text{moles of solute} / \text{liters of solution}$.

What is the formula for STP in chemistry? What is the formula of STP? There is no specific formula for STP. STP stands for Standard Temperature and Pressure, which refers to a set of standardized conditions used for calculations and comparisons in chemistry and physics.

What is the formula for average molar volume? The volume of a molecule V_X is obtained from the molar volume based on the expression $V_X = V_m / N$ (N is Avogadro number) and it is different from van der Waals volume V_{vdW} [11]. Molar volumes can also be defined for mixtures forming solutions.

What is STP molar volume? This makes for a very useful approximation: any gas at STP has a volume of 22.4 L per mole of gas; that is, the molar volume at STP is 22.4 L/mol (Figure 6.3 "Molar Volume"). This molar volume makes a useful conversion factor in stoichiometry problems if the conditions are at STP.

What is standard volume mol? What is the volume of 1 mole of an ideal gas at STP (Standard Temperature and Pressure = 0 °C, 1 atm)? So, the volume of an ideal gas is 22.41 L/mol at STP. This, 22.4 L, is probably the most remembered and least useful number in chemistry.

How is STP calculated? At STP, 1 mol of gas occupies 22.4 liters (L) of volume. In other words, the molar volume of a gas at STP is 22.4 L. This volume can be found using the ideal gas law: $PV=nRT$ (n = number of moles, R = gas constant).

How to do STP equations?

How do you calculate molecules at STP? The formula to find out the number of moles at STP is $\text{Number of moles} = \text{Molar volume at STP litres} / \text{Volume in litres}$.

How do you find the standard molar volume?

What is standard volume in chemistry? The molar volume of a gas is the volume of one mole of a gas at STP. 2. At STP, one mole of any gas occupies a volume of

22.4 liters. 3. 22.4 is known as standard molar volume.

What is the standard molar volume conversion? Molar volume at Standard Temperature and Pressure (STP) can be used to convert from moles to gas volume and vice versa, with the equality of 1 mole = 22.4 L serving as the basis for the conversion factor. The volume of a gas sample at STP can also be used to determine the mass present.

What is the formula to calculate volume at STP? How does one find out the volume of a gas at STP? At STP, a mole of gas takes up 22.4 Liters. The 22.4 Liters/mole quantity can be derived from the Ideal Gas Law, $PV = nRT$, plugging in STP conditions for P and T, and solving for V/n, which gets 22.4 Liters/mole.

How to calculate volume in chemistry? The formula for calculating the volume of a substance when given the mass and density is volume equals mass divided by density.

How to calculate mass at STP?

What is the standard formula for volume?

What is an example of a molar volume? The most common example to illustrate is the molar volume of a gas at STP (Standard Temperature and Pressure), which is equal to 22.4 L for 1 mole of any ideal gas at a temperature equal to 273.15 K and a pressure equal to 1.00 atm. Example: A sample of pure helium gas occupies a volume of 6.8 L at 0°C and 100 kPa.

How to calculate molar volume of water? $V = (1 \text{ mol})(18 \times 10^{-3} \text{ kg/mol}) \frac{1}{1 \times 10^3 \text{ kg/m}^3} = 1.8 \times 10^{-5} \text{ m}^3$. If we model the mole of water as a cube, since there are 6.022×10^{23} water molecules, each side of the cube would have 8.44×10^7 molecules.

How much is a Ford Escort RS Cosworth worth? Prices have skyrocketed since evo did a full buying guide on the Cossie (issue 042 if you're interested, way back in April 2002) when it was still possible to find cars for as little as £10,000, but today, it's not uncommon to see prices around the £65,000-75,000 mark.

How fast was the escort RS Cosworth? Performance. Maximum power officially from Ford was 227 PS (224 bhp; 167 kW) at 6,250 rpm and 304 N·m; 224 lbf·ft (31 kg·m) of torque at 3,500 rpm on 95 RON petrol and a max speed of 232 km/h (144 mph) (GPS) and 237 km/h (147 mph) without the big rear wing, while 0–100 km/h (62 mph) takes 5.7 sec.

What does the RS stand for in Ford Escort? Many believe Ford RS stands for 'Racing Sport', but this isn't the case. The acronym actually stands for 'Rallye Sport', and refers to a time when classic Fords were dominating rally driving.

What was the top speed of a 1992 Ford Escort RS Cosworth?

How many Cosworths are left?

What is the rarest Cosworth? The RS500 is peak Cosworth; it was unveiled in July 1987 with power boosted to 224bhp and extra winglets for its outrageous spoiler. Just 500 examples were hand-assembled by Aston Martin Tickford, underlining its appeal as the ultimate fast Ford.

Does Cosworth still make engines? What is Cosworth doing now? Costin and Duckworth engineering are doing the same as they have for the past 50 odd years, making engines for people that want extra power. They still supply many motorsport teams and also help manufacturers with R&D.

Which Ford Escort was the fastest? The Escort RS brought performance to the masses thanks to a £1,447 pricetag, plus a top-speed of 113mph from a car that weighed just 870kg.

Was the Ford Escort Cosworth sold in the US? The Escort Cosworth was a successful road car, and Ford ended up producing over 7,000 before the end of production in 1996. These Escort Cosworths were true “forbidden fruit” in the USA in the 1990s. Enter Sun International – the now defunct, but well-known importer of said fruit.

Which is faster Ford RS or ST? The Focus RS and Focus ST are both high-performance hatchbacks, with the former being the faster and more powerful. But the ST would be more than enough for most people – plus you can have it as an estate.

You can find plenty of used Ford models for a great price, for either the RS, ST or other variations.

Why did Ford stop the RS? Ford confirmed the news by releasing the following statement: 'As a result of pan-European emissions standards, increased CO2 taxation, and the high cost of developing an RS with some form of electrification for a relatively low volume of vehicles, we are not planning another RS version of the Focus.

What year is Ken Block's Ford Escort? Ken Block's 1978 Hoonigan Ford Escort MkII RS [888 x 592]

How much is an RS Cosworth worth? The very best examples can fetch around £150,000, but as ever, there are anomalies – not least the 5000-mile example that sold for nearly £600,000 at Silverstone Auctions this year. The nostalgic pull of fast Fords is irresistible for some...

What is the difference between RS 500 and Cosworth? As such, the RS500 featured an engine with thicker and more durable cylinder walls, a bigger T04 turbocharger was fitted as was a larger air-to-air intercooler, the oil cooling system was upgraded, the fuel pump was upgraded, and the induction system was reworked. All things that, on the road, made little difference.

How many Escort RS Turbos were made? Ford initially planned to build 5,000 RS Turbos, the minimum number required for homologation in Group A, however a total of 8,604 were built due to increased demand. The car was greeted with huge enthusiasm and was only sold through official Rallye Sport dealers.

Who owns Cosworth engines? In September, 2004 Ford announced that it was selling Cosworth, along with Cosworth Racing Ltd and its Jaguar Formula One team. On 15 November 2004, the sale of Cosworth was completed to Champ Car World Series owners Gerald Forsythe and Kevin Kalkhoven. They are the current owners of the Cosworth Group.

What are Cosworth doing now? We collaborate with global partners, driving the future of engineering and technology across the automotive, motorsport, aerospace, and marine sectors. Thinking outside the box to deliver power, performance and

vehicle intelligence solutions that exceeds expectation and takes our customers to new heights.

What is the highest selling Cosworth? An ultra-rare 1987 Ford Sierra RS500 Cosworth has broken records after selling for an astonishing £596,250 – or more than \$AU1 million – at auction in the UK.

What's the rarest Ford in the world?

What is the most legendary Ford?

How much was a Cosworth new? In 1987 the black RS500 would have set its first owner back £20,000.

Is Cosworth a good engine? In Formula 1, no engine comes close to matching the success of this 3.0-liter V-8. The engine was so good it became critical to the success of the sport; F1 might not have survived without it. It might be impossible to name the greatest racing engine of all time, but the Cosworth DFV certainly makes a case for itself.

How did Cosworth get its name? Corporate history The company was founded as a British racing internal combustion engine maker in 1958 by Mike Costin and Keith Duckworth. Its company name, "Cosworth", was derived as a portmanteau of the surnames of its two founders (Costin and Duckworth).

How much horsepower does a Ford Cosworth engine have?

What is the most famous Ford Escort? The most famous edition of the Twin Cam was raced on behalf of Ford by Alan Mann Racing in the British Saloon Car Championship in 1968 and 1969, sporting a full Formula 2 Ford FVA 16-valve engine, producing over 200 hp.

What is the top speed of the Ford Escort Cosworth?

What replaced a Ford Escort? Ford introduced the Ford Focus in North America for 2000 as its third "world car", phasing it in as the successor of the Escort.

How much is a RS 500 Cosworth worth? It sold for almost £600,000. A world record? You bet. The previous highest-priced Sierra Cosworth RS500 was £135,700,

achieved last year.

Was the Ford Escort Cosworth sold in the US? The Escort Cosworth was a successful road car, and Ford ended up producing over 7,000 before the end of production in 1996. These Escort Cosworths were true “forbidden fruit” in the USA in the 1990s. Enter Sun International – the now defunct, but well-known importer of said fruit.

What is the top speed of a RS 500 Cosworth? Max speed: 149 mph. 0-60 mph: 6.5 sec.

How much did the Cosworth sell for? Millions watched Cosworths sweep all before them in the British Touring Car Championship at Brands Hatch and Silverstone. The one auctioned last year for a jaw-dropping £596,000 went to a multi-millionaire fan living in Dubai.

Does Cosworth still exist? For the last 65 years Cosworth has continued to deliver firsts on the racetrack and the road, as they have since 1958, when Mike Costin and Keith Duckworth formed their new company to “make a living messing around with racing engines.”

What is the difference between RS500 and Cosworth? As such, the RS500 featured an engine with thicker and more durable cylinder walls, a bigger T04 turbocharger was fitted as was a larger air-to-air intercooler, the oil cooling system was upgraded, the fuel pump was upgraded, and the induction system was reworked. All things that, on the road, made little difference.

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What colors did the Escort Cosworth come in? The Monte Carlo was offered with or without the Aero Pack and in a choice of three colours: Mallard Green, Ash Black or Jewel Violet. A mere 73 RHD Monte Carlos were made for the British market of which just 12 are in Jewel Violet. (Source: Factory-Original Ford RS Cosworths by

Dan Williamson and the RS Owners Club).

Is Ford bringing back the Escort? RS200 and Escort Mk1 to be brought back to life – with Ford's official approval. Two of the most revered Fords ever built are to be brought back to life, via limited run of Continuation and 'remastered' cars, with the backing of the Blue Oval itself.

What Ford escort was in fast and furious?

How many RS 500 were built? In response Ford produced a total of 5545 Sierra RS Cosworths. Of those, 500 (which gave the RS500 its name) were subsequently shipped to Aston Martin Tickford to be turned into the even more powerful RS500.

How many Cosworth were made? A total of 5,545 Cosworths were made, with 500 of them being converted by Aston Martin Tickford into the Sierra RS500 Cosworth. These iconic cars had their 2.0-litre turbo engine power boosted to 224bhp, with an extra stabilisation fin added to the back.

How much horsepower does a Ford Cosworth engine have?

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What was the last Ford Cosworth? Series production of the car stopped in 1996. The last Ford Escort RS Cosworth ever made is going under the hammer at auction. Offered by online auction platform Collecting Cars, this particular RS Cosworth was owned for the last 24 years by Dieter Hahne, former manager of Ford's Special Vehicle Engineering department.

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Why is texting bad for language? Research designed to understand the effect of text messaging on language found that texting has a negative impact on people's

linguistic ability to interpret and accept words. The study, conducted by Joan Lee for her master's thesis in linguistics, revealed that those who texted more were less accepting of new words.

What did David Crystal say about texting? David Crystal Text messaging was never originally envisioned as a means of communication between individuals, certainly not one that would rival or replace voice messages. It was originally conceived as having commercial use, or possibly as a service for mobile phones to signal the arrival of a voicemail message.

Is TXT ruining the English language? One study of “Generation Txt” students showed that scores on grammar assessment tests decreased as text-speak use increased. However, a separate British study of students ages 8–12 discovered a link between text messages and high performance on standardized spelling tests.

How is texting changing our language? Even punctuation symbols such as "@" have become a constant in not only typing, but also handwritten papers. Though abbreviations do allow for faster communication, they take away the eloquence of the language and lead to a less professional impact and potentially a loss of understanding between people.

Why texting is a bad idea? 'Fexting' — or fighting via text — can hurt your relationship. You miss nonverbal clues, and it's easier to misinterpret what's being said. Fighting or arguing over text is also known as "fexting." While for some it might be more practical, it can harm relationships.

Why is texting ruining your writing? Plus, a study from the Netherlands suggests there's nothing to worry about. Researchers found that texting regularly doesn't hurt kids' writing. In fact, the more shortcuts kids used in texts, the better they performed on grammar tests.

What is David Crystal's theory? Crystal believes that language acquisition is not just about producing sounds, but also about being able to perceive sounds and understand the meaning of utterances that people make. · He says that babies respond to different types of sounds by being able to distinguish between different voices.

Why is text speak good? Being able to write more rapidly can help an interesting discussion, for instance, on a blog or online forum, move more quickly without being bogged down by considerations of spelling and syntax. And not only is it easier, textspeak can even make a message more personal when communicating with a friend.

How many languages does David Crystal speak?

Are we losing vocabulary due to texting? The texting is definitely affecting the general English. It depends from people to people how they are going to use the language. Some people are learning while some people are getting away from the basic rules of English which is adversely affecting the vocabulary.

Who speaks fluent English in txt? All of them understand English. For speaking, Yeonjun, Hueningkai, and Taehyun are more fluent than the rest. Yet Soobin and Beomgyu can speak English too although their accents are still Korean.

Why is texting not killing language? Texting properly isn't writing at all — it's actually more akin to spoken language. And it's a “spoken” language that is getting richer and more complex by the year. First, some historical perspective. Writing was only invented 5,500 years ago, whereas language probably traces back at least 80,000 years.

How has text messaging damaged literacy? participants took longer and made more errors when they had to read textese messages as opposed to reading Standard English (Kemp and Bushnell 18). Even with all the possibly negative effects that texting can possibly have on their literacy, children still continue to text.

Why text instead of talk? It's more private – Anyone can overhear a phone call, but a text message is a more private form of communication. Especially in some business contexts, it's much easier for people to tap out a quick text than it is to find a private conference room or step outside to make a phone call.

Is textese hurting our verbal communication? This unruly code-switching is what led the girl to write her essay in Textese (Taylor, 2005:76), and what led many researchers to hypothesize that Textese was damaging people's ability to use English properly. However, this 'damaging' of language is actually just language

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change.

Why is text to speech so bad? While text to speech voices can be helpful in some situations, there are also some drawbacks to using them. One of the main problems is that they can often sound robotic and unnatural. This can make it difficult for listeners to understand what is being said, and it can also be quite jarring to hear.

Is texting bad for literacy? In fact, several researchers have found positive correlations between texting and people's literacy skills. For example, Kate Fox finds that texting improves texters' summarizing skills and their overall ability to write more concisely along with their diplomacy skills.

How does texting affect speech? Speech modifications: When children and teenagers rely on texting too much, their speech can start to reflect their typing habits. They may respond with incomplete sentences or use cyber slang during everyday in-person conversations.

Is texting bad for grammar? The results of the survey and the test, which were reported in the journal *New Media & Society*, showed a link between poor grammar scores and frequent texting. What's more, both sending and receiving techspeak-riddled texts seemed to affect how poorly the students performed on the test.

What are the topics for grade 12 life science?

Where to find sample lesson plans?

How to write a lesson plan for science?

What is lesson plan PDF? lesson plan is define as a source or tool that guides teachers through their working. learning process. It is imperative for a teacher to plan his/her lessons since this. has the content, method, activity, practice and material the teacher will use in the. development of the class.

What are the difficult life science topics? Protista, Monera, and Virus were the first, second, and third most difficult topics in X grade. Genetics, Immune System, and Metabolism also selected into three topics of all grades that were considered most difficult by undergraduate students majoring in Biology.

How to ace life science? Practise every day: Try to spend at least 40 minutes a day on your Life Sciences study. You can use this time to make diagrams, make flashcards, and go through practice questions or short quizzes on Studyclix. Keep all your notes and study from these when exams come around.

What are the 5 parts of lesson plan?

What are the 5 steps in a lesson plan? The five stepped system of lesson planning was started by J. Friedrich Herbert, a German psychologist. His five-stage system of lesson planning involves five discrete steps including preparation, presentation, association, generalization, and application.

What are the 5 in lesson plan? The 5E lesson plan is based on an instructional model that consists of five phases or steps: Engage, Explore, Explain, Elaborate, and Evaluate. This model enables teachers to create cohesive and engaging lessons that build up from one section to the next.

What are the five major parts of a science lesson plan? Engage Students' Curiosity One approach to inquiry science is the 5E instructional model (Engage, Explore, Explain, Elaborate, Evaluate). The 5E model is a planning tool for inquiry teaching that provides a structure for students to connect science ideas with their experiences and apply their learning to new contexts.

What is a good lesson plan format? A lesson plan typically consists of an introduction, instruction, guided practice, independent practice and a conclusion. Letting these 5 parts guide your structure ensures that essential content is covered while maintaining a balanced flow of activities throughout the class time.

How do I start my lesson plan?

What are the 3ps of lesson plan format? Presentation, Practice, and Production. "Presentation" is the part of the lesson when the target language (the language to be taught to the students) is presented to the students generally through eliciting and cueing of the students to see if they know it and then providing the language if no one does.

What are the 3 types of lesson plan?

What is a standard lesson plan? Standards-based daily lesson plans are composed of objectives and activities that are based on the unit plans. The standards-based daily lesson plan allows the teacher to make academic learning relevant to students by intertwining content knowledge, information-processing skills, and life experiences.

What is the hardest life science major?

What is the easiest life science class? Human Biology or Anatomy: If you're interested in the human body, these courses might be appealing. They generally focus on the structure and function of different body systems and organs, without getting into complex biochemical processes.

What are the three challenges of life science? Three Challenges in Life Sciences: Medical Affairs, Compliance, and Regulatory Affairs.

What is life science grade 12? Life Sciences is the scientific study of living things from molecular level to their interactions with one another and their environments. Knowledge production in science is an ongoing endeavor.

What is the best way to study life science?

How to study and remember life science?

What is the topic of life science? Life science is the study of living things and life processes. A few of the major sciences included in this category are zoology, botany, marine biology, microbiology, and entomology. Zoology is the study of animals while botany is the study of plants.

What is the syllabus of life sciences? Structure of atoms, molecules and chemical bonds; Principles of physical chemistry; Thermodynamics, Kinetics, dissociation and association constants; Nucleic acid structure, genetic code, replication, transcription and translation, Structure, function and metabolism of carbohydrates, lipids and proteins; Enzymes and ...

What is the human nervous system grade 12? The human nervous system is subdivided into two main sections i.e. ? Central nervous system – consisting of the

brain and spinal cord ? Peripheral nervous system – consisting of nerves that conduct impulses to and from the brain and spinal cord. It includes 12 pairs of cranial nerves and 31 pairs of spinal nerves.

What are the topics in earth and life science?

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