

How Many Ml Is A Teaspoon

The Intriguing Discrepancy: Unveiling the "Teaspoon" in Milliliters

The seemingly simple question, "How many ml is a teaspoon?", delves into a fascinating interplay between standardized measurement, cultural variations, and the very nature of liquid volume. While seemingly straightforward, this inquiry reveals a surprising complexity, particularly when considering historical contexts, global variations, and the inherent limitations of any measurement system. This explores the intricacies of this seemingly simple question, examining the different interpretations and applications of the teaspoon and its equivalent in milliliters.

A Historical Perspective on Culinary

Measurement

Historically, cooking and medicine relied heavily on non-standardized measures like the teaspoon. These varied widely across regions and cultures, making accurate comparisons difficult. The very notion of a "teaspoon" originated from the common use of teaspoons, typically made from metal or other materials, for serving or measuring small quantities of liquids or powders. Early civilizations relied on estimations rather than precise measurements, employing everyday objects like spoons for cooking and dispensing remedies. However, the rise of scientific advancements spurred the need for standardized units, eventually leading to the adoption of the metric system and the milliliter as a fundamental unit of volume.

The Metric System and its Standardization

The metric system, adopted internationally, introduced a standardized approach to measurement, replacing the myriad of regional variations. The milliliter (mL) is a unit of volume, equal to one thousandth of a liter. This standardized approach vastly improved the accuracy and consistency of

scientific experiments, industrial processes, and even culinary recipes in modern times.

The Teaspoon: A Versatile and Ubiquitous Measuring Tool

The teaspoon, despite its seemingly simple nature, remains a widely used instrument for measuring small quantities of ingredients in cooking, medicine, and other applications. Its versatility stems from its ability to accommodate a range of materials, from liquids to powders.

Varying Teaspoon Sizes: A Critical Consideration

While the "teaspoon" is a standard unit in culinary contexts, the actual size of a teaspoon can vary. This variation arises from different manufacturing standards and cultural adaptations. Different regions may have their own subtly different teaspoon sizes and shapes. This variance has implications for accurate measurements, particularly in recipes requiring precise ingredient ratios. *(Figure 1: Comparison of Teaspoons – Insert an image here showing different sized teaspoons, ideally from different regions or eras. Indicate the dimensions in milliliters and centimeters for each.)*

The "Official" Teaspoon: A Closer Look

The International System of Units (SI) does not explicitly define a "teaspoon." However, several organizations, like the US Food and Drug Administration, acknowledge a commonly accepted standard for the teaspoon in culinary and pharmaceutical contexts. This standard, often derived from the historical norm, is approximately 5 ml.

Exploring the Discrepancy: Beyond the 5ml Mark

Despite the commonly cited 5ml equivalence, research and practical experiments demonstrate significant deviations. Variations in measurements can stem from factors like:

- Manufacturing Tolerances: Manufacturing processes for spoons can introduce slight variations in their volume.
- **Cultural Differences**: Historically, the concept of a "teaspoon" was not uniformly defined across cultures. *(Table 1: Variations in Teaspoon Size - Insert a table here comparing reported teaspoon sizes from different sources. This should highlight the discrepancy and the range of values found. Include region/country information.)*

Consequences of the Discrepancy

The difference in reported measurements has significant implications: • **Culinary Accuracy:**

Discrepancies in teaspoon size can impact the accuracy of recipes, leading to variations in taste and texture. • **Pharmaceutical Safety:** In

pharmaceutical contexts, precise dosages are crucial. Variations in teaspoon sizes can pose risks to patient health. • **Scientific Experiments:** Precision is paramount in scientific studies. Variations in measurement units can compromise the validity of research findings.

Related Themes: The Importance of Precision and Standardization

Precise measurements are crucial across various fields. The inherent variations in teaspoon sizes highlight the importance of standardized units and methods for accurate measurement: • **Scientific**

Inquiry: Maintaining consistent measurements in experiments is vital for scientific accuracy and reproducibility. • *Industrial Manufacturing:*

Standardized units ensure consistency in manufacturing processes, preventing discrepancies in products.

Conclusion

The quest to determine the precise milliliter equivalent of a teaspoon reveals a complex interplay of history, culture, and scientific standardization.

While a general consensus exists around 5ml, significant variations exist in practice. The discrepancies underscore the importance of precise measurement in all fields, from the kitchen to the laboratory, emphasizing the need for clear definitions and standardization of units for accurate and reliable results.

Advanced FAQs

- 1. How can one accurately measure 5ml if using a non-standard teaspoon?** Using a calibrated measuring cylinder or pipette offers far greater precision than relying on a non-standard teaspoon.
- 2. *What are the historical context and evolution of measuring tools in different civilizations?*** Detailed historical research into specific civilizations reveals how varying measurement systems evolved to address unique societal needs.
- 3. How do different countries and regions define a teaspoon and what are the practical implications of these variations?** Regional variations highlight the

importance of standardizing units for accurate communication and transactions. 4. What are the potential health implications of inaccurate measurements in pharmaceutical contexts?

Inaccurate dosage measurements can lead to adverse effects, necessitating the use of standardized measuring equipment. 5. *How does the concept of a "teaspoon" exemplify the broader need for standardization in scientific, industrial, and everyday applications?* Standardization is crucial for effective communication, accurate results, and consistent outcomes, as exemplified by the "teaspoon"

controversy. References: (Insert a comprehensive list of academic sources and credible online resources here, citing books, journals, s, and websites relevant to the topic. Include details like author, publication date, title, and page numbers where appropriate.)

Note: The framework is complete. To make it a fully functional , the missing elements (like Figure 1, Table 1, and the reference list) need to be filled in with relevant data and visuals. Remember to properly cite all sources to avoid plagiarism.

How Many ML is a Teaspoon?

Unraveling the Mystery of Kitchen Measurements

Ah, the humble teaspoon. It's a staple in every kitchen, a reliable friend for measuring everything from baking soda to cough syrup. But have you ever stopped to wonder, when a recipe calls for a teaspoon, just how much liquid or solid are you actually adding? Specifically, if you're working with metric measurements, you might find yourself asking: **how many ml is a teaspoon?**

This is a question that pops up surprisingly often, especially for those who enjoy baking, cooking, or even just preparing a simple cup of tea. The answer, while seemingly straightforward, can have subtle nuances depending on the context and the measuring tools you're using. So, let's dive deep into the world of teaspoon conversions and get to the bottom of this common culinary query.

The Standard Answer: What the Experts Say

In most standard kitchen and pharmaceutical contexts, the accepted conversion for a teaspoon is:

1. 1 teaspoon = 5 milliliters (ml)

This 5ml standard is widely adopted across the globe and is the figure you'll most commonly encounter. It's a convenient and practical approximation that works for the vast majority of everyday cooking and baking. Think of it as the universal agreement among chefs, bakers, and health professionals.

Why the Confusion? Understanding Different Measurement Systems

The reason the "how many ml is a teaspoon" question arises so frequently is due to the existence of two dominant measurement systems: the imperial (or US customary) system and the metric system.

Historically, the imperial system, with its ounces, cups, and teaspoons, has been prevalent in countries like the United States. The metric system, on the other hand, with its milliliters, liters, and grams, is the standard in most other parts of the world.

When recipes are shared across these systems, or when using tools designed for one system while thinking in another, confusion can easily creep in. A recipe from the UK might call for grams and milliliters, while a recipe from the US might refer to cups and teaspoons. This is where understanding the

conversion becomes crucial for culinary success.

Teaspoons: A Measure of Volume, Not Just Capacity

It's important to remember that a teaspoon is primarily a measure of **volume**. This means it measures the amount of space something occupies. However, the weight of ingredients can vary significantly. For example, a teaspoon of flour will weigh less than a teaspoon of sugar, and both will weigh less than a teaspoon of butter. This is a key distinction, especially in baking where precise ratios are vital.

When we talk about **how many ml is a teaspoon**, we are referring to the volume that the teaspoon measure holds. The 5ml figure represents that specific volume, regardless of what substance is being measured.

The US Customary Teaspoon vs. Metric Teaspoon

While the 5ml standard is widely accepted, it's worth noting a slight historical divergence. In the US, a "fluid ounce" is approximately 29.57 ml. A US teaspoon is traditionally defined as 1/6 of a US fluid

ounce, which works out to about 4.93 ml. However, for practical purposes, this is rounded up to 5 ml.

In many other countries that use the metric system, the definition of a teaspoon is directly set at 5 ml. So, while there's a tiny technical difference in the historical origins, the practical application and the number you'll most likely use in your kitchen are the same: **5 ml per teaspoon.**

When Precision Matters: Level Teaspoons vs. Heaping Teaspoons

This is where things can get a little subjective, even with a defined volume. When a recipe calls for a "teaspoon," it almost always implies a **level teaspoon**. This means filling the teaspoon and then leveling off the excess so that it's flush with the rim. This ensures consistency in your measurements.

A **heaping teaspoon**, on the other hand, is where you scoop up more than what fits levelly, creating a small mound. This can significantly increase the amount of ingredient you're adding, potentially throwing off the balance of your recipe, especially in delicate baked goods. If a recipe specifically calls for a heaping teaspoon, it will usually state so explicitly.

Practical Applications: From Baking to Medicine

Understanding **how many ml is a teaspoon** is incredibly useful in a variety of situations:

Baking and Cooking

For most recipes, using standard measuring spoons that are marked in both teaspoons and milliliters (or are designed for the 5ml standard) will be sufficient. If you're adapting a recipe from a different system, converting teaspoons to milliliters (or vice versa) is a common step. For instance, if a recipe calls for 2 teaspoons of vanilla extract, you'll be adding approximately 10 ml.

When measuring dry ingredients like flour or sugar, it's still about volume, but as mentioned, weight can differ. For most home cooks, a level teaspoon measured with standard spoons is fine. For professional bakers or those seeking extreme precision, a kitchen scale might be used to measure ingredients by weight.

Medicine and Supplements

This is perhaps where the 5ml teaspoon conversion is

most critical. Liquid medications, vitamins, and supplements are often prescribed in milliliters. If your medicine bottle comes with a dosing cup or syringe marked in ml, that's the most accurate tool to use. However, if you only have a standard teaspoon and the instructions are given in ml, knowing that 1 teaspoon equals 5 ml can be a lifesaver.

For example, if your doctor prescribes 10 ml of liquid medicine, you would measure out two level teaspoons. Conversely, if your child's medication says to give 1 teaspoon, you're administering 5 ml. Always double-check the markings on your medication's dosing device if available for the utmost accuracy, as specialized medical spoons may have slightly different volumes.

Household and DIY

From mixing cleaning solutions to creating homemade beauty products, understanding volume measurements can be helpful. If a recipe calls for a few teaspoons of a particular ingredient, you can easily estimate or measure out the equivalent in milliliters.

Tools for Accurate Measurement

To ensure you're getting the most accurate measurement when asking yourself **how many ml is a teaspoon**, consider using:

1. **Standard Measuring Spoons:** These are readily available in kitchen stores and supermarkets. Many sets are marked with both imperial (tsp, tbs) and metric (ml) measurements, taking the guesswork out of conversions. Look for a set that includes a 5 ml (or 1 teaspoon) measure.
2. **Liquid Measuring Cups:** For larger liquid volumes, these are essential. They often have ml markings alongside fluid ounces and cups.
3. **Syringes (without needles):** These are excellent for precise measurement of small liquid volumes, especially for medicine or when adding small amounts of potent flavorings in cooking. Many come marked in milliliters.

When using measuring spoons for dry ingredients like flour or sugar, the "scoop and level" method is key for consistency. For liquids, pour the liquid into the spoon until it reaches the rim, but avoid overfilling.

Common Conversions and Their Importance

Beyond the basic teaspoon, understanding other common conversions can make your kitchen adventures smoother:

1. **1 tablespoon (tbsp) = 3 teaspoons (tsp) = 15 ml**
2. **1 fluid ounce (fl oz) = approximately 29.57 ml (US) / 30 ml (UK/common metric approximation)**
3. **1 cup = 8 fluid ounces = approximately 240 ml**

Knowing these can help you quickly adjust recipes or understand instructions from different sources. If a recipe calls for 1 tablespoon of something, you know it's the equivalent of 15 ml.

The Takeaway: Consistency is Key

So, to finally answer the burning question: **how many ml is a teaspoon?** The universally accepted answer is **5 ml**. This approximation serves as a vital bridge between different measurement systems in kitchens and beyond.

While the slight historical variations exist, for all practical purposes, treat one teaspoon as equivalent

to 5 milliliters. Whether you're measuring out spices for a curry, adjusting the sweetness of your tea, or administering medication, understanding this simple conversion will enhance your accuracy and confidence in the kitchen and in managing your health.

Remember to always aim for level measurements unless otherwise specified, and invest in a good set of measuring spoons marked in both systems if you frequently work with recipes from different regions. Happy measuring!

Understanding the Conversion: How Many Milliliters Are in a Teaspoon

When navigating recipes, medical dosages, or household measurements, precise conversions are essential for accuracy and safety. One of the most frequently asked questions is how many milliliters constitute a single teaspoon. While this may seem like a simple query, understanding the exact volume bridges everyday practicality with scientific clarity. A teaspoon, commonly used in cooking and dosing

instructions, is universally defined as a standardized volume, but its exact milliliter equivalent depends on the system being applied.

In the metric system, which is the foundation for most scientific and international measurements, a teaspoon is approximately 5 milliliters (mL). This standardization allows for consistency across global recipes, pharmaceutical guidelines, and clinical settings. However, it's important to recognize that teaspoons are not universally defined—particularly when cross-referencing with imperial units. In the United States, where the imperial system remains in common use for household applications, a U.S. teaspoon is equal to about 4.93 milliliters. While this slight difference is minor, precision matters in contexts such as medication dosing or chemical formulations, where even small volume variances can impact outcomes. The distinction between metric and imperial teaspoons reflects broader differences in measurement traditions, underscoring the importance of context in interpretation.

Applications Across Domains

Understanding the exact volume of a

teaspoon enhances usability in numerous fields. In culinary arts, accurate conversions ensure that flavor profiles and textures remain consistent, whether scaling a recipe up or down. Home cooks and professional chefs alike rely on this knowledge to maintain precision, particularly when substituting ingredients or following international recipes. In healthcare, precise dosing is critical—many over-the-counter medications list instructions in teaspoons, and mistaking 5 mL for 4.93 mL could alter therapeutic effectiveness or safety. Pharmacists and patients benefit from clear understanding of these conversions to avoid dosage errors.

Beyond food and medicine, teashpoons play roles in laboratory work, personal care product formulation, and even

brewing. Here, milliliter accuracy supports reproducibility and quality control, ensuring consistency across batches and experiments. The teaspoon's role as a versatile, human-friendly unit—easy to measure without tools—makes it indispensable, even as digital tools expand measurement capabilities. Its continued use reflects both practicality and tradition in measurement practices worldwide.

Benefits of Precise Measurement

Accurate conversion from teaspoons to milliliters fosters reliability and trust across applications. In cooking, it prevents recipe failures and supports consistent results, especially when precision is key. In healthcare, it minimizes risks associated with

incorrect dosing, reinforcing patient safety. For formulators and manufacturers, precise volume standards enable reliable product consistency, crucial for consumer confidence and regulatory compliance. Beyond direct outcomes, mastering these conversions empowers individuals to engage more confidently with measurement-dependent tasks, reducing errors and enhancing outcomes in both domestic and professional settings.

The Future of Volume Measurement As technology advances, traditional units like the teaspoon remain vital, yet digital tools are reshaping how we approach measurement. Smart kitchen scales, digital measuring spoons, and

mobile apps now offer real-time conversions, making accurate dosing more accessible than ever. These innovations reduce reliance on memory and manual calculations, supporting greater precision at the point of use. However, understanding the underlying metric standard—5 mL per U.S. teaspoon or 4.93 mL in metric—remains essential for interpreting these tools correctly. Looking ahead, the integration of standardized measurement systems with digital interfaces promises to enhance clarity, reduce confusion, and uphold accuracy across global practices. While units may evolve, the fundamental need for precise volume understanding endures, anchoring practical knowledge in a world

increasingly shaped by technology.

Unraveling the Mystery: How Many ML is a Teaspoon?

In the culinary world, in the realm of baking, and even in the precise measurements of medicine, the humble teaspoon reigns supreme. It's a ubiquitous unit of measurement, often assumed to be universally understood. Yet, a simple question can spark considerable debate and confusion: "How many ml is a teaspoon?" This article delves deep into the precise volume of a teaspoon, exploring its historical roots, international variations, and practical implications, while optimizing for relevant SEO terms like "teaspoon to ml conversion," "tsp in ml," "standard teaspoon

volume," and "cooking measurements."

The Standard Teaspoon: A Global Benchmark (Mostly)

For most practical purposes, particularly in kitchens across the United States and many English-speaking countries, a standard teaspoon is defined as precisely 5 milliliters (ml). This 5 ml benchmark is the most widely accepted and consistently applied measurement in recipes and for dosage instructions. When you see a recipe calling for "1 tsp of vanilla extract" or a medication label indicating "5 ml of children's cough syrup," the assumption is almost always 5 ml.

Why 5ml? A Look at Standardization

The standardization of measurements

is crucial for consistency and reproducibility. While the exact origins are a bit murky, the 5 ml figure has become the de facto international standard for a teaspoon in culinary and pharmaceutical contexts. This standardization is vital for bakers who rely on precise ingredient ratios for successful outcomes, and for healthcare professionals ensuring accurate medication administration. Without this agreement, recipes could fail, and dosages could be dangerously inaccurate.

The Role of Measuring Spoons

The advent of standardized measuring spoons has been instrumental in solidifying the 5 ml teaspoon. Modern measuring spoon sets, readily available in kitchen stores and online, are

typically calibrated to this standard. You'll find marked teaspoons indicating the 5 ml volume, ensuring home cooks and bakers can accurately measure their ingredients. These tools are invaluable for anyone who wants to move beyond the guesswork and achieve consistent results.

Beyond the Standard: Exploring Variations and Nuances

While 5 ml is the dominant standard, it's important to acknowledge that historical and regional variations do exist. These differences, though often minor, can sometimes lead to confusion, especially when working with older recipes or international sources.

Historical Teaspoons: A Moving Target

Historically, the volume of a teaspoon was not as rigidly defined as it is today. Before widespread standardization, teaspoons were often based on actual silverware used for eating. This meant the size could vary considerably depending on the era and the silversmith. Some historical accounts suggest a teaspoon could hold anywhere from 3 to 7 ml. This variability is a fascinating glimpse into how measurement practices have evolved over time, driven by the need for greater accuracy in both domestic and scientific pursuits.

Imperial vs. Metric: The Subtle Divide

In some older British recipes or contexts that lean more towards imperial measurements, you might

encounter a slightly different interpretation. While the 5 ml metric equivalent is still widely adopted, some discussions might loosely equate a teaspoon to approximately 1/6th of an imperial fluid ounce. An imperial fluid ounce is roughly 28.41 ml, making 1/6th of that approximately 4.73 ml. However, this is a less common and often less precise understanding in modern usage, and the 5 ml metric standard is overwhelmingly prevalent.

US Customary vs. Metric: The Dominant 5ml

It's crucial to reiterate that in the United States, the US Customary system is prevalent in everyday life and cooking. Within this system, the standard teaspoon is unequivocally set at 5 ml. This aligns perfectly with the

metric system's standard, creating a convenient overlap. Therefore, whether you're using a recipe from a US-based cookbook or following instructions in milliliters, the "tsp in ml" conversion remains a reliable 5 ml.

Practical Implications: Why This Matters

Understanding the precise volume of a teaspoon isn't just an academic exercise; it has tangible consequences in various aspects of our lives.

Baking: The Art of Precision

Baking is often described as a science, and for good reason. The ratios of ingredients are critical. A slight over- or under-measurement of a key ingredient, whether it's baking soda, salt, or a liquid flavoring, can

dramatically alter the texture, rise, and overall success of a baked good. When a recipe calls for "1 teaspoon of baking soda," that 5 ml measurement is paramount. Using a teaspoon that holds, say, 7 ml could result in a cake that has an unpleasant alkaline taste or an undesirable dense texture. Conversely, a teaspoon that only holds 3 ml might lead to a cake that doesn't rise properly. This is why investing in a good set of calibrated measuring spoons is a worthwhile endeavor for any serious baker.

Cooking: Flavor and Consistency

While baking often demands stricter precision, cooking also benefits from accurate teaspoon measurements. A teaspoon of chili powder, cumin, or a potent spice can significantly influence

the flavor profile of a dish. Overdoing it can make a meal unpalatable, while under-seasoning can leave it bland. Consistency is also key in cooking. If you're making a batch of chili or soup that you plan to replicate, adhering to precise measurements, including your teaspoon quantities, will ensure you achieve the same delicious result each time.

Medicine and Health: Dosage Matters

Perhaps the most critical area where the accurate measurement of a teaspoon is paramount is in the administration of liquid medications, particularly for children. Overdosing or underdosing can have serious health consequences. This is why pharmaceutical companies meticulously calibrate their liquid

medication packaging and oral syringes to ensure that the stated dosage corresponds to the correct volume. While many parents might instinctively reach for a regular teaspoon to administer medicine, it is strongly recommended to use the provided dosing syringe or a specialized medicine spoon, which are calibrated to ensure accuracy. The 5 ml standard is the bedrock upon which these safe dosages are built. When a doctor prescribes "5 ml of medication," they are relying on that precise volume, not a loosely measured spoonful.

Teaspoon to ML Conversion: A Quick Reference Guide

To summarize the key takeaway for most users:

1. 1 Teaspoon (tsp) = 5 Milliliters (ml)

This simple conversion is the most reliable and widely accepted. When in doubt, always refer to the markings on your measuring spoons or any accompanying dosing device provided with medication.

Beyond the Teaspoon: Related Measurement Units

Understanding the teaspoon in milliliters also helps contextualize other common cooking measurements:

- 1. 1 Tablespoon (tbsp) = 3 Teaspoons (tsp) = 15 ml**
- 2. 1 Fluid Ounce (fl oz) $\approx$ 30 ml (specifically 29.57 ml in US customary)**

Knowing these related conversions can be helpful when scaling recipes or

when working with recipes that use a mix of measurement systems. For example, if a recipe calls for 1 tablespoon of an ingredient, you can easily calculate that it's equivalent to 15 ml.

Conclusion: Precision in Every Drop

The question "how many ml is a teaspoon" might seem trivial, but its answer has significant implications for the success of our culinary endeavors, the accuracy of our cooking, and the safety of medication administration. While historical and regional variations exist, the modern, globally recognized standard for a teaspoon is a precise 5 milliliters. By understanding and adhering to this standard, whether through calibrated measuring spoons

or carefully designed dosing devices, we can ensure precision in every drop, leading to more delicious results and safer practices.

So, the next time you reach for that trusty teaspoon, remember its defined volume. It's a small but mighty unit of measurement, and understanding its worth in milliliters is key to unlocking consistent success in the kitchen and beyond. The "teaspoon to ml conversion" of 5 ml is a fundamental piece of knowledge for anyone involved in cooking, baking, or any activity requiring accurate liquid measurements.

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Questions & Answers About how many ml is a teaspoon

No	Question	Answer
1	So, the big question: how much liquid is actually in a teaspoon?	A standard teaspoon holds approximately 5 milliliters (ml) of liquid. This is a common measurement used in cooking and medicine.
2	Is a teaspoon always 5ml, or can it vary?	In most parts of the world, a standard teaspoon is indeed 5ml. However, there can be slight variations in older recipes or in specific regions. For precise measurements, it's always best to use measuring spoons.

3	I'm baking and a recipe calls for '1 tsp'. How much is that in milliliters?	If a recipe calls for 1 teaspoon (tsp), you can generally assume it means 5 milliliters (ml). This is a widely accepted conversion for baking and cooking.
4	What's the difference between a teaspoon and a tablespoon in ml?	A tablespoon is significantly larger than a teaspoon. One tablespoon is equivalent to 3 teaspoons, which means a tablespoon holds about 15 milliliters (ml).
5	When I see 'ml' on medicine bottles, how does that relate to teaspoons?	Many liquid medications are dosed in milliliters for accuracy. A common dosage for children's medicine might be 5ml, which is equivalent to one teaspoon. Always follow the dosage instructions on the bottle or from your doctor.
6	Can I use a regular spoon from my kitchen as a precise teaspoon measure?	While a regular kitchen spoon might approximate a teaspoon, it's not precise. For cooking, baking, or administering medication, it's highly recommended to use actual measuring spoons calibrated in milliliters to ensure accuracy.

milliliters in a teaspoon, how many milliliters in a
teaspoon, teaspoon to milliliters conversion, ml
measurement of a teaspoon, teaspoon volume in
milliliters, ml to teaspoon conversion, teaspoon

milliliter equivalent, ml equaling a teaspoon, standard teaspoon ml measurement, how many ml per teaspoon

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