

MCP SERVER

NO CODE

CLOUD HOSTED

# Oral Syringe Volume Converter MCP for AI Agents

Accurate liquid medication dosing using household measurements

Oral Syringe Volume Converter lets you accurately convert liquid medication doses from milliliters (ml) into common household measurements like teaspoons, tablespoons, and drops. Stop guessing when measuring medicine; this MCP provides reliable conversions for caregivers who need precision using standard kitchen tools.

**A+** Quality Score 100/100

conversion

dosage

medicine

ml

household



# The connectivity layer between AI and the world's software.



Vinkius sits between AI and every application. All communication passes through Vinkius Cloud via the Model Context Protocol (MCP) — with governance, observability, and security at every layer.

# Your AI Connections Run Through Vinkius Cloud

The world's largest  
managed MCP catalog

Vinkius is the connectivity layer where AI connects to the software your business already runs. We handle the hosting, the security, the credentials, the uptime — you get agents that actually do things.

We operate the world's largest managed MCP catalog. Major SaaS platforms, CRMs, databases, and cloud providers — running, monitored, production-ready. This MCP server is hosted and maintained by the Vinkius Cloud for AI Agents.

*The agent doesn't manage credentials, doesn't manage uptime, doesn't manage security. Vinkius does.*

— Architecture principle

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## Four Pillars of the Vinkius Runtime

### 01 — Security by design

Credentials stay encrypted at rest via AES-256. The AI agent never touches raw keys — they're injected into a sandboxed V8 isolate at runtime. Actions are logged, and connections have an emergency kill switch.

### 03 — Deterministic observability

Eight immutable metrics per endpoint: request volume, p95 latency, error rate, active connections, cost attribution. A live payload feed logs every tool call with mutation detection.

### 02 — Built on MCP Fusion

This MCP server was built with **MCP Fusion**, the open-source framework (Apache 2.0) that powers the entire Vinkius catalog. Schema-as-firewall strips undeclared fields, compiled PII redaction runs at zero overhead, and cryptographic lockfiles produce git-diffable audit trails.

### 04 — Autonomous operations

Servers are deployed, monitored, and patched autonomously. New capabilities and security patches ship weekly. Zero-downtime deployments ensure continuous availability across all managed MCP servers.

**AES-256**

Encryption at rest

**Ed25519**

PKI vault signatures

**24h TTL**

Ephemeral session keys

**V8 Isolate**

Sandboxed execution

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## One Token. Instant Access.

Every MCP server on Vinkius is accessed through a **Connection Token**. Tokens are generated in the cloud dashboard and produce a unique MCP endpoint URL. Paste this URL into any MCP-compatible client — no SDK required.

A single token can serve **multiple AI clients simultaneously**, or you can issue separate tokens per client for granular access control. Each token tracks its own request count, last activity timestamp, and can be individually enabled or revoked.

MCP ENDPOINT

`https://edge.vinkius.com/{token}/mcp`

Claude



Cursor



VS Code



Windsurf



Grok



Gemini

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## Security Is the Architecture

Security in Vinkius is not a feature — it's the foundation of the runtime. The gateway enforces multiple independent protection layers between AI agents and third-party APIs.

**01 — Ed25519 PKI Vault**

Every workspace has an Ed25519 Master Key. Session keys are generated ephemerally (24h TTL) and signed by the Master Key. Credentials never leave the vault boundary.

**02 — V8 Isolate Sandboxing**

Tool code runs inside isolated-vm V8 isolates with 64 MB memory caps and per-request timeouts. No filesystem access, no network access except through the SSRF-guarded fetch bridge.

### 03 — SSRF Guard

All outbound HTTP requests are DNS-resolved and validated before execution. Private IP ranges (10.x, 172.16-31.x, 192.168.x, AWS metadata 169.254.x) are blocked at the network layer.

### 05 — Cryptographic Audit Trail

Every request is signed into a SHA-256 hash chain with Ed25519 signatures. Events form a tamper-proof, SIEM-exportable forensic record.

### 04 — DLP & PII Redaction

A ResponseGuard pipeline intercepts every tool response. Configurable redaction patterns strip sensitive fields (emails, SSNs, card numbers) before data reaches the AI agent.

### 06 — Honeypot Trap System

Phantom credentials are injected into isolated environments. If a honeypot is used outside Vinkius infrastructure, the server is quarantined instantly.

## Emergency Kill Switch

EU AI Act Art. 14(1)  
Compliant

The kill switch is an **emergency halt** mechanism — not a simple toggle. When triggered, it executes three actions atomically:

#### 01 — Server deactivated

The MCP server is immediately taken offline across the entire cluster.

#### 02 — All tokens revoked

Every connection token is invalidated. Total lockout — reconnection blocked until new tokens are issued.

#### 03 — WebSocket connections killed

Active connections terminated via Redis pubsub broadcast. Propagates to every runtime node in the cluster.

## Full Visibility. Zero Guesswork.

The Vinkius cloud dashboard includes a full MCP Governance suite — real-time analytics and security controls for production AI operations.

**Control Plane**

KPI dashboard with request volume, latency, success rate, token consumption, and AI-generated operational briefings.

**FinOps**

Cost tracking per tool, payload compression savings, budget optimization signals, and consumption trends.

**Firewall & DLP**

PII redaction activity, sensitive data protection counters, and security event timeline.

**Agent Activity**

Which AI clients are connecting, how often, and what they're doing — real-time session tracking.

**Tool Health**

Slowest and most error-prone tools, with actionable root-cause insights and performance baselines.

**Incident Log**

Error trends, failure rates, status-code breakdowns, and forensic audit trail access.

Get started at [cloud.vinkius.com](https://cloud.vinkius.com) — connect your AI agent in under 60 seconds.

# Oral Syringe Volume Converter MCP

3 tools available

Cloud-hosted on Vinkius

Measuring liquid medications can be tricky, especially if you don't have a specialized syringe or if the dosage needs to match imprecise household units. This MCP handles those conversions precisely. Whether you're converting milliliters into teaspoons and tablespoons, or figuring out how many drops equate to a certain volume, it gets you an accurate answer quickly. It's designed for parents and caregivers who need reliable measurements using what they have on hand. You connect your AI client through Vinkius, and the tool handles all the math instantly. This means less guesswork and safer dosing every time.

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## Core Capabilities

### 01 – Determine volume equivalents

Converts a specific milliliter dosage into its approximate measurement in teaspoons, tablespoons, or drops.

### 02 – Convert spoons to milliliters

Calculates the total amount of liquid in milliliters when given a count of teaspoons and tablespoons.

### 03 – Estimate drop volume

Figures out the equivalent milliliter measurement based on an estimated number of drops.

# One Click on Vinkius — From Prompt to Execution

Available at [vinkius.com/mcp/oral-syringe-volume-converter](https://vinkius.com/mcp/oral-syringe-volume-converter) — connect your AI agent in three steps.

- 01** Tell your AI client the starting measurement and unit (e.g., 'I have 5ml' or 'I used 2 tablespoons').
- 02** The MCP processes the input, running the necessary conversion calculations to determine the equivalent household units.
- 03** You get a clear, direct answer showing the dosage in teaspoons, tablespoons, drops, or milliliters.

The bottom line is, it turns complex dose math into simple, actionable measurements you can use right now.

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## Built For

Anyone managing liquid medication doses at home needs this. This MCP helps parents, caregivers, and nurses who rely on household items (like spoons) for measurement but need clinical accuracy.

### Caregiver

Needs to measure precise dosages using common kitchen spoons when a specialized syringe isn't available or necessary.

### Parent/Guardian

Manages multiple doses for children and needs quick, reliable conversions between ml and household units.

### Medical Student

Practices dosage calculation using common metrics to understand real-world medicine administration protocols.

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## What Changes When You Connect

- 01** Stops guesswork when measuring medicine. Instead of just guessing, you get precise conversions showing how many drops or teaspoons equal a specific milliliter dose.

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- 02** Simplifies calculations involving common kitchen items. The `convert_spoons_to_ml` tool takes your teaspoon and tablespoon measurements and instantly gives you the total milliliters needed.
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- 03** Handles drop estimation accurately. If you only have an approximate count of drops, the `estimate_drop_volume` function converts that into a reliable milliliter figure.
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- 04** Provides comprehensive conversion data. The core `get_volume_equivalents` tool is your one-stop solution for converting ml to teaspoons, tablespoons, and drops simultaneously.
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- 05** Reduces dosing errors. By providing accurate conversions, you increase safety when administering medication without professional equipment.
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## Real-World Applications

### Need to measure 10ml but only have spoons

A parent needs to administer a medicine dose of 10ml. They ask their agent, and the tool uses `'get_volume_equivalents'` to tell them it's exactly 2 teaspoons, which they can accurately measure using kitchen utensils.

### Estimating volume from drops

A doctor suspects an infection and needs to know how many milliliters are in a specific drop count. They use `'estimate_drop_volume'` and get a precise reading that helps them adjust the prescribed dose.

### Calculating total volume from partial measurements

A caregiver measures a dose of medicine using 1 tablespoon and 3 teaspoons. They run the numbers through the agent, and `'convert_spoons_to_ml'` confirms the total amount is 45ml, preventing under-dosing.

### Quickly checking dosage ratios

A user has an ml amount but needs to know if it's closer to drops or tablespoons. They use `'get_volume_equivalents'` and get a multi-unit readout, helping them pick the right measuring tool.

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## Patterns to Avoid

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### Assuming ml equals teaspoons

#### X AVOID

A user assumes 1ml is equal to 1 teaspoon, which can lead to giving too little or too much medicine and causing a dangerous dose error.

#### ✓ INSTEAD

Don't guess the ratio. Use the Oral Syringe Volume Converter MCP. If you have ml, use ``get_volume_equivalents`` to get the correct unit breakdown for accurate dosing.

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### Manually calculating drop volume

#### X AVOID

Trying to calculate milliliters from drops using a rough online calculator or memory fails because standard drop volumes vary widely and are hard to track.

#### ✓ INSTEAD

Always let the agent use ``estimate_drop_volume``. This tool handles the complex math of converting an estimated drop count into reliable milliliters.

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### Only knowing spoons, ignoring drops

#### X AVOID

The user only uses the tablespoon and teaspoon measurements for a dose, missing out on crucial dosage details that must be measured in drops.

#### ✓ INSTEAD

For comprehensive dosing, combine tools. First use ``convert_spoons_to_ml`` to get the total ml, then pass that number into ``get_volume_equivalents`` to check all units, including drops.

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## The Right Fit

Use this MCP if your main pain point is converting liquid medicine doses between milliliters and common household measures like teaspoons, tablespoons, or drops. It's perfect for caregivers who need reliable measurements without specialized gear.

Don't use it if you are trying to calculate complex chemical dilutions, measure different types of liquids (like oils or powders), or convert units outside the standard ml/spoon/drop metric system. For those tasks, look at a dedicated chemistry or material science tool instead.

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## Oral Syringe Volume Converter: Solving Household Medication Dosage Problems

When measuring medicine manually, you're dealing with imprecise units—a little pinch of powder here, half a spoon there. You might have to copy an ml amount and then cross-reference multiple charts just to know if that dose translates better into tablespoons or drops. This manual process is slow and highly prone to human error.

With this MCP, you simply provide the initial measurement—whether it's 20ml or a handful of teaspoons. The agent handles the complex conversions instantly using tools like `get_volume_equivalents`. You get a clear readout that tells you exactly how many drops are needed alongside the spoons, giving you confidence in every dose.

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## Oral Syringe Volume Converter: Improving Accuracy for Pediatric Dosing

Pediatric dosing is notoriously difficult. You're constantly switching between ml amounts and the limited tools available, like a standard tablespoon or a drop count, making consistency nearly impossible.

This MCP centralizes that complexity. It allows you to take any unit—from an initial milliliter count all the way down to an estimated number of drops via `estimate_drop_volume`—and provide one single, accurate source of truth for the required dose.

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# Oral Syringe Volume Converter: 3 Liquid Dosage Conversion Tools

Use these tools to convert liquid dosages between milliliters, teaspoons, tablespoons, and estimated drops, giving you accurate measurements every time.

#	TOOL	DESCRIPTION
01	<code>convert_spoons_to_ml</code>	Calculates total milliliters from teaspoons and tablespoons.
02	<code>estimate_drop_volume</code>	Calculates milliliters from a count of drops.
03	<code>get_volume_equivalents</code>	Converts milliliters to teaspoons, tablespoons, and drops.

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## See It in Action

Real prompts you can use once this MCP is connected to your AI agent through Vinkius Cloud.

**U** How many teaspoons and drops are in 5ml?

**Conversion Breakdown:**

- **Teaspoons:** 1 tsp
- **Tablespoons:** 0.33 tbsp
- **Drops:** ~100 drops

**U** If I use 2 tablespoons and 1 teaspoon, how many ml is that?



Based on the conversion calculation:

- **Total Volume:** 35 ml
- **Breakdown:** (2 Tbsp = 30ml) + (1 tsp = 5ml)

**U** What is the ml equivalent of 80 drops?

**Dose Calculation Result:**

- **Input Drops:** 80
- **Estimated Volume (ml):** 4.0 ml
- This dosage is roughly equal to 0.8 teaspoons.

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## Frequently Asked Questions

**01** How does the Oral Syringe Volume Converter help when I don't have a syringe?

It lets you accurately calculate doses using standard household spoons and drops. Instead of guessing, it gives you precise conversions so you know exactly what volume your measurements equate to.

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**02 Can the Oral Syringe Volume Converter convert ml to teaspoons and tablespoons?**

Yes. You simply input the milliliter amount, and the MCP will instantly break down that dose into equivalent units of teaspoons and tablespoons for easy measurement.

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**03 What if I need to know how many milliliters are in a certain number of drops?**

The converter includes a dedicated tool that calculates this. You input the drop count, and it returns an estimated milliliter volume, which is crucial for accurate dosing.

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**04 Is the Oral Syringe Volume Converter reliable enough for medical use?**

It provides standardized calculations used for conversion estimates. It's designed to reduce human error when using non-clinical measuring tools at home, but always confirm with a healthcare professional.

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**05 Does the Oral Syringe Volume Converter handle mixed units (like spoons and drops)?**

Yes. You can use one tool to calculate total milliliters from spoons, and then feed that resulting milliliter count into another function to see the drop estimate.







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# Go Live in 60 Seconds

Get your connection token from [cloud.vinkius.com](https://cloud.vinkius.com), then paste the endpoint URL into any MCP-compatible client.

YOUR MCP ENDPOINT

```
https://edge.vinkius.com/[TOKEN]/mcp
```

CLIENT	WHERE TO CONFIGURE
 <b>Claude AI</b>	Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint
 <b>Cursor</b>	Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint
 <b>VS Code</b>	Ctrl/Cmd+Shift+P → "MCP: Add Server" → add <code>"oral-syringe-volume-converter": { "url": "..." }</code>
 <b>Windsurf</b>	MCP Settings → <code>mcp_settings.json</code> → Add endpoint URL
 <b>ChatGPT</b>	Settings → Tools & plugins → Add MCP server → Paste endpoint
 <b>Gemini</b>	Extensions → Add MCP Server → Paste endpoint URL

## ASK AN AI ABOUT THIS

Let your preferred AI explain this MCP server

-  **Ask ChatGPT** 
-  **Ask Claude** 
-  **Ask Perplexity** 
-  **Ask Gemini** 
-  **Ask Grok** 

READY TO CONNECT

# Oral Syringe Volume Converter is live on Vinkius Cloud.

Get your connection token, paste it into your AI agent, and  
start building. No SDK. No deployment. Just results.

[Start at cloud.vinkius.com](https://cloud.vinkius.com) →

[vinkius.com](https://vinkius.com) · [support@vinkius.com](mailto:support@vinkius.com)

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### DOCUMENT INFORMATION

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