

M C P S E R V E R

N O C O D E

C L O U D H O S T E D

Ingredient Subtotal Calculator MCP

Get exact recipe costs and ingredient pricing through your AI.

Ingredient Subtotal Calculator MCP gives your AI client the ability to handle culinary math. It pulls specific ingredient prices, calculates costs for specific quantities, and sums up entire recipe totals. You can also verify if your ingredients are in the catalog before you start calculating.

A+ Quality Score 100/100

cooking

cost-calculation

recipe

inventory

kitchen



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

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

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

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 — connect your AI agent in under 60 seconds.

Ingredient Subtotal Calculator MCP

4 tools available

Cloud-hosted on Vinkius

Managing food costs shouldn't involve manual spreadsheets or constant calculator use. This MCP connects your AI agent directly to a pricing database, turning a standard chat interface into a precise culinary costing tool. You can ask your agent to check the price of a single item or run a full cost analysis on a complex recipe. It handles the math for specific quantities, so you don't have to worry about unit conversions or manual multiplication. If you're planning a menu, your agent can first check if the necessary ingredients are available in the system to ensure your cost estimates are actually realistic. It's a direct way to bridge the gap between a recipe list and a final price tag.

Core Capabilities

01 — Individual Pricing

Your agent pulls real-time costs for single items.

02 — Quantity Math

The MCP calculates costs based on the exact weight or count you provide.

03 — Recipe Totals

Your agent sums up every ingredient in a list to find the full recipe cost.

04 — Availability Checks

The agent verifies if ingredients are in the system before running calculations.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/ingredient-subtotal-calculator — connect your AI agent in three steps.

01 Connect the MCP to your client like Claude or Cursor via Vinkius.

02 Provide your recipe or ingredient list to your AI agent.

03 The agent uses the tools to fetch prices and calculate totals.

04 Receive the final cost breakdown directly in your chat window.

Connecting this MCP to your AI client gives it immediate access to culinary pricing tools.

Built For

This MCP is built for professionals who need to turn recipes into actionable financial data.

Chefs

They hand off recipe lists to the AI to get instant cost breakdowns.

Kitchen Managers

They use the agent to monitor ingredient price fluctuations and inventory costs.

Restaurant Owners

They use the tool to verify recipe profitability and menu pricing.

What Changes When You Connect

- 01 Eliminates manual math for ingredient quantities.
- 02 Provides instant recipe cost totals through a chat interface.
- 03 Verifies ingredient availability before you commit to a recipe cost.

Real-World Applications

Menu Costing

Calculate the exact cost of a new dish by providing its ingredient list to your agent.

Inventory Pricing

Check the current price of specific items to update your budget.

Recipe Validation

Confirm that all ingredients in a proposed recipe are available in your catalog.

Bulk Order Estimation

Determine the cost of large quantities of specific ingredients for upcoming prep.

Patterns to Avoid

Manual Math Guessing

❌ AVOID

You tell your agent to estimate a recipe cost by guessing the price of flour and sugar based on last week's memory.

✓ INSTEAD

Use ``get_ingredient_price`` to pull the actual current price from the database before doing any math.

Ignoring Inventory Status

❌ AVOID

You calculate a perfect cost for a new dish but realize halfway through prep that you don't actually have the ingredients in stock.

✓ INSTEAD

Run ``validate_ingredient_list`` first to ensure every item in your recipe is currently available in the system.

Broken Recipe Math

❌ AVOID

You try to manually multiply weights by unit prices in a chat window and end up with rounding errors.

✓ INSTEAD

Let the MCP handle the heavy lifting by using ``calculate_ingredient_subtotal`` for specific quantities or ``sum_recipe_total`` for entire lists.

The Right Fit

Kitchen managers and chefs who need real-time food cost data should connect this MCP. If you rely on static, outdated spreadsheets for your costing, this isn't for you. The deciding factor is whether you need your AI agent to act on live pricing and current inventory levels.

Ingredient Subtotal Calculator Tools

These tools handle everything from single item price lookups to full recipe cost breakdowns and inventory availability checks.

#	TOOL	DESCRIPTION
01	calculate_ingredient_subtotal	This tool calculates the cost for a specific quantity of a single ingredient.
02	get_ingredient_price	Use this to pull the current price of a specific ingredient from the database.
03	sum_recipe_total	This tool calculates the total cost for a full list of ingredients provided in a JSON format.
04	validate_ingredient_list	This tool checks if your list of ingredients can be successfully priced based on current availability.

See It in Action

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

U How much does 500 grams of flour cost?



500 grams of flour costs \$0.50.

U What is the total cost for 2 eggs and 100g of sugar?



The total cost for 2 eggs and 100g of sugar is \$0.85.

U Check if salt, pepper, and saffron are available.



Yes, all requested ingredients are available in the catalog.

Frequently Asked Questions

01 How do I use this MCP with Claude?

You connect to the MCP through the Vinkius platform, which hosts the tool for you. Once connected, your Claude client can immediately call the pricing tools.

02 Can I calculate costs for specific weights?

Yes, the `calculate_ingredient_subtotal` tool is designed to handle specific quantities for any ingredient.

03 Does this tool check if ingredients are in stock?

Yes, you can use the `validate_ingredient_list` tool to check if the items you want to price are available in the system.

04 What happens if I have a long list of ingredients?

You can use the `sum_recipe_total` tool to process an entire list of ingredients at once to get a single total cost.

05 Do I need to host the MCP myself?

No, Vinkius hosts and manages the MCP for you, so it is ready to use as soon as you connect your client.

06 How do I calculate the total cost of a recipe?

You can use the `'sum_recipe_total'` tool by providing a list of ingredients and their respective quantities.

07 Can I check if an ingredient is available in the catalog?

Yes, use the `'validate_ingredient_list'` tool to check if all ingredients in your list exist in the database.

08 What happens if an ingredient is not found?

If an ingredient is missing from the catalog, the tools will return an error indicating the specific missing item.

Go Live in 60 Seconds

Get your connection token from 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
 Claude AI	Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint
 Cursor	Settings → Features → MCP Servers → "+" Add New MCP Server" → Type: SSE → Paste endpoint
 VS Code	Ctrl/Cmd+Shift+P → "MCP: Add Server" → add <code>"ingredient-subtotal-calculator": { "url": "..."} </code>
 Windsurf	MCP Settings → <code>mcp_settings.json</code> → Add endpoint URL
 ChatGPT	Settings → Tools & plugins → Add MCP server → Paste endpoint
 Gemini	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

Ingredient Subtotal Calculator 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 →

vinkius.com · support@vinkius.com

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Platform	Vinkius Cloud for AI Agents
Endpoint	https://edge.vinkius.com/{token}/mcp

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