

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

Pet Food Portion Calculator MCP for AI Agents

Get precise daily feeding amounts for dogs and cats based on weight and activity.

Pet Food Portion Calculator lets you figure out exactly how much to feed your dog or cat. It handles the math for daily calories and converts those numbers into real portions like cups or cans based on your specific pet's weight, activity level, and food type.

A+ Quality Score 100/100

pet-care

dog-nutrition

cat-nutrition

calorie-calculator

animal-health



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.

Pet Food Portion Calculator MCP

3 tools available

Cloud-hosted on Vinkius

Pet Food Portion Calculator takes the guesswork out of pet nutrition by applying scientific formulas to your pet's specific needs. Getting your pet's diet right is usually a guessing game of checking if they look too skinny or too round. This MCP changes that by calculating exact daily kilocalorie requirements based on actual data like life stage, neutering status, and activity levels. It handles the heavy lifting of the Resting Energy Requirement (RER) math so you don't have to. Once you know the calorie goal, the MCP translates that into physical food volumes. If you know how many calories are in a cup of your specific brand, it tells you exactly how many cups to scoop out. It's a practical way to manage weight and health, making it a solid addition to the Vinkius catalog for anyone who takes pet health seriously. You're moving from "I think this is enough" to "I know this is the right amount."

Core Capabilities

01 — Calculate daily calorie needs

Get exact kilocalorie requirements based on your pet's biology.

02 — Convert calories to food volume

Turn calorie goals into physical measurements like cups or cans.

03 — Check pet profile validity

Ensure the pet's weight and age are biologically realistic.

04 — Adjust for life stage

Factor in age-specific metabolic rates for puppies or seniors.

05 — Account for neutering status

Refine energy needs based on whether a pet is neutered or spayed.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/mcp/pet-food-portion-calculator — connect your AI agent in three steps.

- 01 Provide the pet's weight, species, and activity level.
- 02 Input the caloric density of your current pet food.
- 03 Get the exact daily portion size in cups or cans.

The bottom line is you get a precise feeding plan tailored to your pet's actual biology and food brand.

Built For

This is for pet owners who are tired of overfeeding their animals or for professionals who need to provide accurate nutrition plans without doing manual math for every single client.

Pet Owner

Manages their dog's weight by getting exact daily portions instead of guessing.

Veterinary Technician

Creates accurate feeding instructions for clinic patients during busy shifts.

Rescue Volunteer

Determines feeding amounts for a high volume of different animals in a shelter.

What Changes When You Connect

- 01 Stop guessing on food amounts by using `calculate_kcal_requirement` to find the exact energy needs of your pet.
- 02 Get accurate portion sizes for any food brand by using `calculate_food_portion` to convert calories into cups.

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- | | |
|----|--|
| 03 | Prevent data entry errors with <code>verify_pet_profile</code> which flags unrealistic weights for specific life stages. |
| 04 | Manage weight loss or gain more effectively by adjusting for neutering status and activity levels automatically. |
| 05 | Save time on nutrition planning by letting your agent do the complex RER math for you. |
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Real-World Applications

Managing a dog's weight loss

A dog owner wants to lose 5lbs. They ask their agent to calculate a calorie deficit for a 60lb active dog.

Bulk processing for shelters

A rescue group has 20 dogs. They bulk process feeding instructions for various breeds and ages to stay organized.

Switching pet food brands

A cat owner switched brands. They use the tool to see how many cups of the new food match the old calorie count.

Verifying puppy growth

A owner wants to check if a 40lb puppy is healthy. They use `verify_pet_profile` to see if the weight is realistic.

Patterns to Avoid

Guessing portions based on average sizes

X AVOID

Feeding a large dog the same amount as a small dog because they "eat the same amount."

✓ INSTEAD

Use `calculate_kcal_requirement` to get a specific number based on weight and life stage.

Forgetting to account for neutering

X AVOID

Overfeeding a neutered cat who is less active than a non-neutered one.

✓ INSTEAD

Use `calculate_kcal_requirement` which includes neutering status as a variable.

Using the wrong food density

X AVOID

Thinking 1 cup of wet food has the same calories as 1 cup of dry kibble.

✓ INSTEAD

Input your specific food's calories into `calculate_food_portion` for a real-world measurement.

The Right Fit

Use this if you need a scientifically backed way to determine how much food your pet should eat. It's perfect for people who want to move away from "cup-based" guessing and toward calorie-based precision. Use it if you have the specific caloric density of your pet's food, which is usually found on the bag. Don't use it if you just want a general "how much to feed a puppy" guide without considering weight or activity. If you need a full veterinary diet plan including specific vitamins and minerals, you'd need a clinical nutrition tool instead. This tool focuses on volume and calories based on your current food.

Pet Food Portion Calculator for Accurate Pet Nutrition

Most pet owners just look at the feeding guide on the back of the bag. That guide is usually for a standard pet that doesn't exist. You end up overfeeding your dog, leading to weight gain, or underfeeding your cat, which can cause health issues. It's a lot of manual tracking and constant second-guessing.

This MCP changes that by letting you input your pet's actual weight, age, and activity level. It runs the math to find their daily calorie needs and then tells you exactly how much of your specific food to scoop out. You get a data-driven feeding plan in seconds.

Pet Food Portion Calculator for Weight Management

Tracking weight for a pet usually involves a lot of math. You have to calculate the Resting Energy Requirement, then adjust for neutering, then figure

With this MCP, you just tell your agent the basics. It handles the math and gives you a clear instruction like feed 1.5 cups. It takes the mental load out of pet health.

out the calorie density of different brands, and finally convert that to a physical measurement.

Pet Food Portion Calculator: 3 Pet Nutrition Tools

Use these tools to calculate daily calories, convert to food portions, and verify pet profiles.

#	TOOL	DESCRIPTION
01	calculate_food_portion	Converts a calorie goal into a physical volume of food like cups or cans. This helps you know exactly how much to scoop.
02	calculate_kcal_requirement	Calculates the daily kilocalorie requirement for a pet based on its biological profile. Use this to find the energy goal first.
03	verify_pet_profile	Checks if a pet's weight and age are biologically plausible. It prevents calculation errors from bad data.

See It in Action

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

U How many calories does my 10kg adult dog need if he is very active and neutered?



Based on the biological profile provided, here is the daily energy requirement:

- **Daily Calorie Goal:** 456 kcal

This calculation accounts for his weight, high activity level, and neutered status.

U If my cat needs 250 kcal/day and my food is 350 kcal/cup, how much should I feed?



To meet your cat's daily goal of 250 kcal with your current food:

- **Daily Portion:** 0.71 cups

You should scoop out approximately 3/4 of a cup per day.

U Is a 50kg kitten profile realistic?



No, a weight of 50kg for a kitten is not biologically plausible.

Recommendation: Please double-check the weight input or the life stage selected before proceeding with calorie calculations.

Frequently Asked Questions

01 How can the Pet Food Portion Calculator help my dog lose weight?

It calculates a specific calorie goal based on your dog's current weight and activity level. You can then use the tool to see exactly how many cups of your current food meet that lower calorie goal.

02 Can I use the Pet Food Portion Calculator for different brands of cat food?

Yes. Since different foods have different calorie densities, you can input the specific calories per cup of any brand to get an accurate portion size.

03 Does the Pet Food Portion Calculator account for my pet being neutered?

Yes, it factors in neutering status. This is important because neutered pets often have different metabolic rates and energy requirements.

04 Is the Pet Food Portion Calculator accurate for puppies?

It is designed for all life stages. It adjusts the math to account for the higher energy needs of growing puppies compared to adult pets.

05 What happens if I enter a weight that seems too high for my pet?

The tool includes a check to see if the data is biologically plausible. If you enter a weight that doesn't match the life stage, it will let you know so you can fix the info.

06 Will the Pet Food Portion Calculator tell me how many cans to feed?

Yes, it can convert your pet's calorie needs into cups or cans, depending on which measurement is easiest for you to use.

07 How accurate are the calorie calculations?

The calculations use the standard Resting Energy Requirement (RER) formula, adjusted by scientifically recognized multipliers for activity level, life stage, and neutering status.

08 Which pet species are supported?

Currently, the calculator supports both dogs and cats.

09 Can I use this for different food brands?

Yes. By providing the caloric density (kcal per cup or can) of your specific brand, the ``calculate_food_portion`` tool will give you an accurate volume measurement.

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>"pet-food-portion-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

Pet Food Portion 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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DOCUMENT INFORMATION

Generated	July 2026
MCP Server	Pet Food Portion Calculator MCP
Server ID	019f3777-3ad6-7275-8efa-e445d72e911a
Platform	Vinkius Cloud for AI Agents
Endpoint	<code>https://edge.vinkius.com/{token}/mcp</code>

LICENSE & USAGE

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