2. Detailed comparison with TPTU-v2

We provide a detailed comparison between OctoTools and TPTU-v2 (Kong et al., 2023) in Table 2.

Features	OctoTools	TPTU-v2	Justification for TPTU-v2
Training-Free	Yes	No	Requires additional fine-tuning for task planning and API calling, rather than being training-free.
Dynamic Planning	Yes	No	Relies on static plans with limited iterative updates, whereas OctoTools adapts on-the-fly.
Self-Refinement	Yes	No	Lacks a mechanism to correct or refine reasoning mid-execution.
Toolset Optimization	Yes	Yes	Employs an "API Retriever" to select relevant APIs, similar to our validation-based selection.
Extensible Tools	Yes	Limited	Focuses on a fixed set of APIs rather than a standardized plug-and-play interface.
Runnable System	Yes	No	Not released as a publicly accessible framework, though validated in real-world settings.
Comprehensive Evaluations	Yes, 16 tasks	No, 1 task only	Evaluated on a single task domain, whereas OctoTools spans 16 diverse benchmarks.
In-Depth Study	Yes	Limited	Offers less extensive analysis and ablations compared to OctoTools' multi-faceted evaluations.

Table 2. Detailed comparison between OctoTools and TPTU-v2.