

## G Series ---Liquid---

### Density of Cleaning Solution

When carving cleaning solution products, what consumers most after is cleanliness and time-saving.

The table on the right shows the **four** common ingredients of detergents, and of course, all of which are used to enhance various decontamination effects.

But do you know how to distinguish between them?  
How much should be added to produce a perfect ratio of products?

Material	Density
Sodium Carbonate	2.54 g/cc
Citric Acid	1.66 g/cc
Propyl P-Hydroxybenzoate	1.063 g/cc
EDTA	0.86 g/cc

### Why density matters



How to keep the specialize of citric acid effect but also make sure the others ingredient have the best use during the mix process?

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In addition to the density, concentration plays an important part affects quality.

Density affects the chemical structure of molecules and determines the stability of the product;

Concentration affects the amount of contained in a unit and determines the cleaning power.



### Example 1: Citric Acid

But Why isn't the concentration **the higher the better?**



Think about the strong bleach - citric acid, though it have strong decontamination there are still not good enough for some particle dot.

**Means even using a 100% citric acid wish to work the spot off, and it just can't.**

### What MatsuHaku Do:



Testing step:	Sample on support plate	Step 1: Re-zero the weight	Step 2: Hooking the testing weight
Get Result:			Temp : Temperature SG : Specific gravity Conc.1 : Concentration 1 group Conc.2 : Concentration 2 group

### MatsuHaku Density Tester Keep You Aware Of

1. **Reduce** the cost and the **Defect** loss
2. Fit the international **Standard**
3. Make sure the quality **Stable**



*With MatsuHaku Density Tester  
Quality control is more easier than you thought*