

# What is the volume service?

The volume service is used to normalize volumes into the store's base unit (`cm^3` by default) as well as convert between different units.

## Units

By default the volume service has the following units:

- `mm^3`
- `cm^3`
- `m^3`

## Adding a Unit

Use `addUnit()` to add a unit, for example we can add millilitres & litres:

```
\Aero\Common\Facades\Volume::addUnit('ml', 'ml');

\Aero\Common\Facades\Volume::addUnit('l', 'L')
    ->setNormalizer(function ($value) {
        return $value * 1000;
    });
```

`setNormalizer` defines how to get from that unit to the base unit, which is `cm^3`.

## Removing a Unit

```
\Aero\Common\Facades\Volume::removeUnit('m^3');
```

## Converting between Units

You can use `convert()` to convert between any two units, or `normalize()` to convert into the store's base unit.

```
\Aero\Common\Facades\Volume::convert(1000, 'mm^3', 'cm^3');
```

```
\Aero\Common\Facades\Volume::normalize('mm^3', 1000);
```

# Setting a base Unit

```
\Aero\Common\Facades\Volume::setBaseUnit('ml');
```

When you change base unit, database values will still remain in  $\text{cm}^3$ . But volumes will be displayed in the new unit on screens such as the fulfillment create page.

---

Revision #4

Created 2026-09-24 11:27:33 UTC by Ethan Payne

Updated 2026-10-02 12:41:16 UTC by Ethan Payne