

# GTable2D

De Wiki

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**GENIUS** allows also to display (and read/write !) two dimension tables. The idea is to be able to manage one tabulated function depending on two parameters :  $f(x_i, y_i)$  as, for example a volume depending on pressure (P) and temperature (T)  $\Rightarrow V = f(P, T)$

To do it, we must use [GTable2D](#) class to store data. Using it is relatively simple as shown on the example below :

```
// Unit lists
GUnit[] unitVolume = {new GMetricUnit("m^3"), new GMetricUnit("dm^3")};
GUnit[] unitPressure = {new GMetricUnit("Pa"), new GMetricUnit("mPa")};
GUnit[] unitTemperature = {new GTemperatureUnit("K"), new
GTemperatureUnit("°C")};

double[][] vol = { {50. , 100.0, 150.0},
                   {60. , 110.0, 120.0},
                   {75. , 125.0, 175.0} };
double[] pres = { 1., 10.0, 20.0 };
double[] temp = { 250.0, 300.0, 350.0 };

GTable2D volTable = new GTable2D (vol, pres, temp,
                                   "Volume", "Pressure", "Temperature",
                                   unitVolume, unitPressure, unitTemperature);
```

And you will obtain this ...

	1.0	10.0	20.0
Temperature <u>K</u>	250.0 50.0	100.0	150.0
300.0 60.0		110.0	120.0
350.0 75.0		125.0	175.0

To get the content of this table, we will have to use the [getAbsValues\(\)](#), [getOrdValues\(\)](#) and [getValues\(\)](#) methods:

```
double[] abs = volTable.getGTable().getAbsValues();
double[] ord = volTable.getGTable().getOrdValues();
double[][] val = volTable.getGTable().getValues();
```

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