

7.5 Henry Law Constants

Henry's Law Calculator

Run both of the following cells before using the calculator.

In []:

```
!pip install -q iapws
```

In [11]:

```
##title Henry's Law Constant in Various Units { run: "auto", vertical-output: true }
Gas = "CO2" #@param ["Ar", "CH4", "C2H6", "CO", "CO2", "H2", "H2S", "He", "Kr", "N2",
"Ne", "O2", "SF6", "Xe"]
T = 25 #@param {type:"number"}

from iapws._iapws import _Henry as Henry

P_henry = Henry(T + 273.15, Gas, liquid="H2O")
print("Henry's Law Constant:")
print("    [MPa] =", round(P_henry,2))
print("    [bar] =", round(P_henry*10, 1))
print("    [atm] =", round(P_henry/0.101325, 1))
print("    [psia] =", round(P_henry*14.696/0.101325,0))
```

Henry's Law Constant:

```
    [MPa] = 165.64
    [bar] = 1656.4
    [atm] = 1634.8
    [psia] = 24025.0
```

In []: