# pyiapws Documentation

Release 0.1.0

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**CHAPTER** 

ONE

#### INTRODUCTION

# 1.1 Description

Python wrapper around the Fortran iapws library. Follow the installation instructions. for compiling and installing the library.

For now, the wrapper must be compiled on Linux, windows and MacOS platforms after installing the iapws library using the compiler that was used to compile your python interpreter.

The version of the python wrapper follows the versions (major and minor) of the iapws library. The patches will be independent.

A pdf version of the documentation can be found here pycodata. The source code can be viewed on GitHub.

### 1.2 How to install

pip install pyiapws

# 1.3 Dependencies

numpy >= 1.20

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**CHAPTER** 

**TWO** 

# **RELEASE NOTES**

# 2.1 PyCodata 0.1.0 Release Note

# 2.1.1 Changes

• Implementation interface for IAPWS\_G7\_04 around the iapws constants.

### 2.1.2 Download

PyPI

### 2.1.3 Contributors

Milan Skocic

### 2.1.4 Commits

 $Full\ Changelog:\ https://github.com/MilanSkocic/pyiapws/compare/....0.2.0$ 

### **AUTOGENERATED DOCUMENTATION**

# 3.1 Documentation

# 3.1.1 pyiapws

IAPWS computations.

pyiapws.iapws.get\_kh(temperature: int | float | ndarray[Any, dtype[ScalarType]], gas: str, solvent: str)  $\rightarrow$  float | ndarray[Any, dtype[ScalarType]]

Compute the Henry constant for the gas and solvent at temperature.

#### **Parameters**

```
temperature: int, float or array-like.
Temperature in °C.

gas: str
Desired gas.

solvent: str
Desired solvent: H2O or D2O.

Returns
kh: float or array-like
```

Henry constant in GPa-1.

### **CHAPTER**

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