CoolProp Download and Installation

CoolProp is a C++ library that implements pure and pseudo-pure fluid equations of state and transport properties for 122 components including Helium, Nitrogen, Hydrogen, Methane etc. At its core, CoolProp is a C++ library, but it can be of interest to use this library from other programming/software environments. For that reason, wrappers have been constructed for most of the programming languages of technical interest to allow users to interface CoolProp.

In this class (ME413), we will be using CoolProp (add-in) with Microsoft Excel.

Installation on Microsoft Windows
Executable Installer can be downloaded from:
https://sourceforge.net/projects/coolprop/files/CoolProp/6.4.1/Installers/Windows/

Installation Instruction can be found at:
http://coolprop.org/coolprop/wrappers/Excel/index.html#excel

Installation on OSX
Follow instructions provided at:
http://coolprop.org/coolprop/wrappers/Excel/index.html#excel

Installation Verification
Once installation is complete, open Microsoft Excel go to any cell and type
=PropsSI("T","P",101325,"Q",0,"Water")
Hit Enter and make sure you get make sure you get 373.1242958 K.