Quick Installation Guide: macOS®

Thermo-Calc Version 2025a

Thermo-Calc Software

macOS® User Credentials Installations

There are two *license activation types* available with Thermo-Calc 2025a: (1) **User credentials**, which are entered after installation and managed via an online portal or (2) where a **license file** is installed directly on the computer or a licensing server. Many users will start using the *user credentials* activation type as of this release and all users will eventually be migrated to the new system.

Visit our website to watch the new installation video showing how to install with user credentials (in both online and offline mode), which will replace the license files. The video library also includes the installation videos using the old method (license files) and other installations such as for TC-Python.

This section is applicable to:

- Operating system: macOS
- Installation type: Single User (SUNLL) or Floating Network Licenses (NWL)
- License activation type: User credentials (online and offline)
- Upgrading to a new version of Thermo-Calc (maintenance plan only)

For instructions about other operating systems, network installations, or installing an SDK (e.g. TC-Python or TC-Toolbox for MATLAB®) search the *Thermo-Calc Installation Guide*, which is also available on our website. You can also review the Licensing Options included on our website.

Step 1: Install Required macOS Software

> ⚠ To install and run Thermo-Calc on a Mac computer with an ARM processor, Rosetta first needs to be installed.

The XQuartz open-source X.Org X Window system is required to run Thermo-Calc on macOS.

1. In a web browser go to https://www.macupdate.com or to download it directly from XQuartz, https://www.xquartz.org/.

2. In the **Search Mac Apps** field, enter *XQuartz*.

3. Click the **XQuartz** search result. For example, based on the recent version, the name is XQuartz-2.8.5.dmg.

4. Click **Download**.

5. Double-click the **XQuartz-***<version>***.pkg** file. Follow the instructions.

6. Click **OK** when the message about logging out displays and click **Close** when the installation is successful.

Step 2: Download Thermo-Calc Software

> ⊡ Administrative rights are required to complete this installation. An email from Thermo-Calc Software (or from someone in your organization) includes the links and information you need to access and activate the current version of the software you want to download.
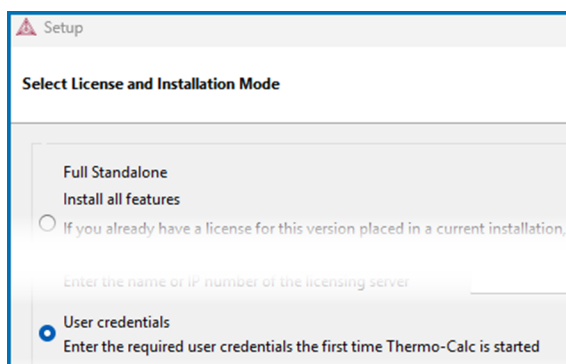
1. Click the link from the email and the first page of the **Download Center** opens. Under the **macOS** section, select the OS version. Click **Go to download page**.

2. In the **Sign in to access this site** window, enter the **Username** and **Password** (found in the email) and click **Sign in**.

3. On the **Download Center** page under **Software**, click the **.zip** link to download the file for the current software version (2025a).

Step 3: Install Thermo-Calc Software

1. Once the download is complete, navigate to the folder where you downloaded the software. Double-click the downloaded program file (the suffix is based on the operating system). Remember that administrative rights are needed, so when you are prompted for that user name and password, enter those credentials here, not the ones sent to you from Thermo-Calc.

2. Click **Yes** to continue.

3. On the **Setup - Thermo-Calc 2025a** window click **Next**.

4. On the **License Agreement** window click to accept the license agreement. Click **Next**.

5. In the **Select License and Installation Mode** window click **User credentials** and then click **Next**.

6. TC-Python is automatically installed when the **User credentials** option is chosen. The **Install TC-Python** page is a reminder for users of TC-Python that additional installation and license credential procedures are needed after Thermo-Calc is installed. Read the separate installation instructions (also included in the full installation guide) for more information if applicable. Click **Next**.

7. In the **Ready to Install** window click **Next**. The software continues installing.

8. At the end of installation, click **Finish**. Once this is done, open Thermo-Calc either from the shortcut on your desktop or from the menu.
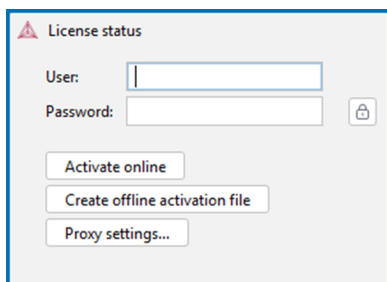
Step 4: Activate the License

> 👤 If you are in a secure environment that does not allow Internet access, you will need to use the option **Create offline activation file**. See the last section for details.

1. Open Thermo-Calc. The first window includes highlights from the current release. Click **Close**.

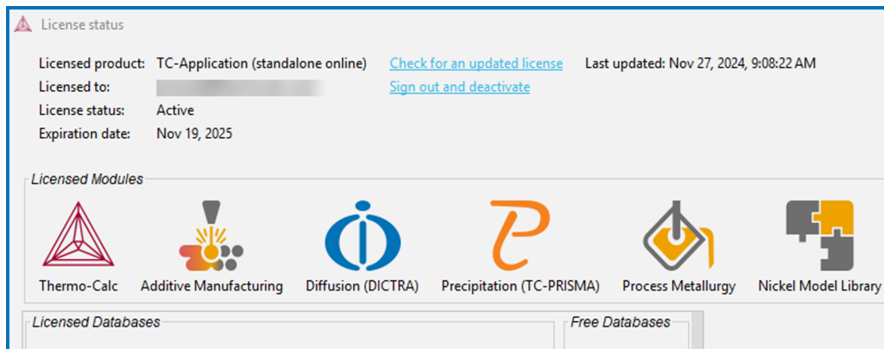2. In the **License status** window, enter the **User** and **Password** provided to you.

> 👤 Your license user credentials are sent to you in an email from Thermo-Calc or a representative. This is different from the Download Center login details. If you have not received the information, first ask the main Thermo-Calc contact in your organization. Or email us at support@thermocalc.com.

3. If you use a proxy server, click **Proxy settings**. Click **Use proxy** and enter your information. Click **OK**.

4. Click **Activate online**. Once activated you will see the **License status** window with a list of the products you have access to. Click **Close** and start using Thermo-Calc.

At any time you can view the product license information by selecting **Help →
Show License Info** from the menu in Thermo-Calc.

Step 5: Optional Offline License Activations

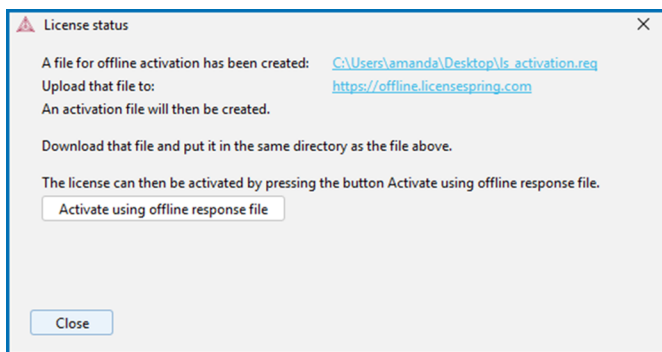> ⓘ Offline activations are only available for single user (SUNLL) licenses.

> 📄 These instructions are a continuation from previous steps and assume you have already installed Thermo-Calc and entered your user credentials.

Offline activations are useful for users who are in a highly secure environment that does not allow Internet connections. You will need access to the Internet to complete the activation. You can do this either by:

- Accessing the Internet temporarily from the computer you will use Thermo-Calc on, or

- Activating the license on another computer then transferring the license to the computer you will use Thermo-Calc on.

1. Click **Create offline activation file**. The **License status** window opens with instructions you can refer to.
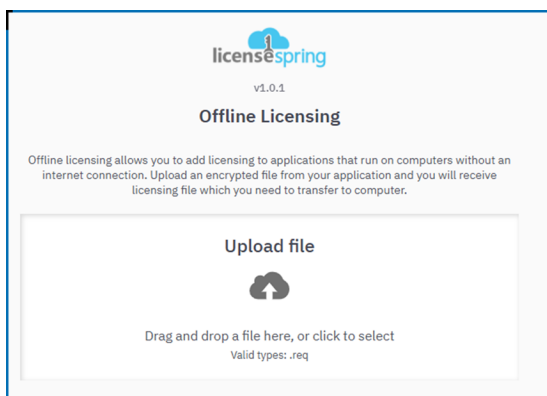

2. A local file to use for the offline activation is created and the link to where it is downloaded to your computer is provided. The file is named `ls_activation.req`. Click the link to go to this location on your computer.
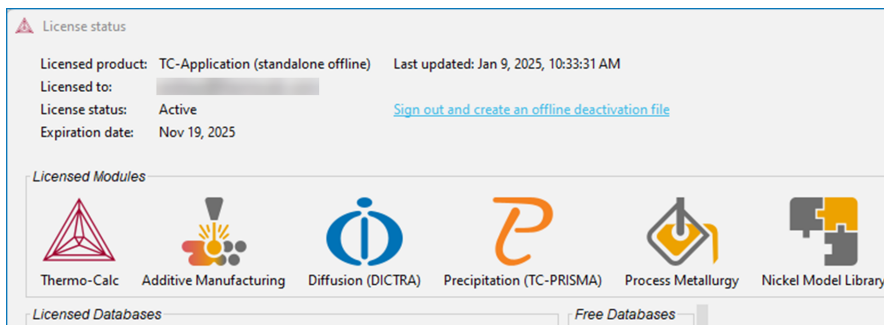
> ❗ If you have downloaded the file to a computer that does not have Internet access, then copy this file to one that does and continue the process. Later you will copy the generated offline license back to the computer where Thermo-Calc is installed.

3. On the computer that has Internet access, go to the URL shown on the **License status** window: https://offline.licensespring.com.

4. Navigate to the `ls_activation.req` file on your computer and drag and drop it into the center of the window. The program generates another file and downloads it to your computer. This file is named `ls_activation.lic`.

5. Navigate to the downloaded `ls_activation.lic` file. If needed, this is when you copy this file back to the computer where Thermo-Calc is installed. In both cases the new file should be copied back to the same folder where the original file `ls_activation.req` is located.

6. Once the two files are in the same folder, you are ready to generate an offline license.

7. Go to the **License status** window and click **Activate using offline response file**. Once activated you will see the **License status** window with a list of the products you have access to. Click **Close** and start using Thermo-Calc.

8. You do not need to keep the files you downloaded. Return to where these files are downloaded and delete them.

> At any time you can view the product license information by selecting **Help →
> Show License Info** from the menu in Thermo-Calc.

macOS® Standalone (License File) Installations

> There are two *license activation types* available with Thermo-Calc 2025a: (1) **User credentials**, which are entered after installation and managed via an online portal or (2) where a **license file** is installed directly on the computer or a licensing server. Many users will start using the *user credentials* activation type as of this release and all users will eventually be migrated to the new system.

This section is applicable to:

- Operating system: macOS

- Installation type: Full Standalone (SUNLL)

- License activation type: License file where the software and the license file are installed together on one computer.

- Upgrading to a new standalone version of Thermo-Calc (maintenance plan only)
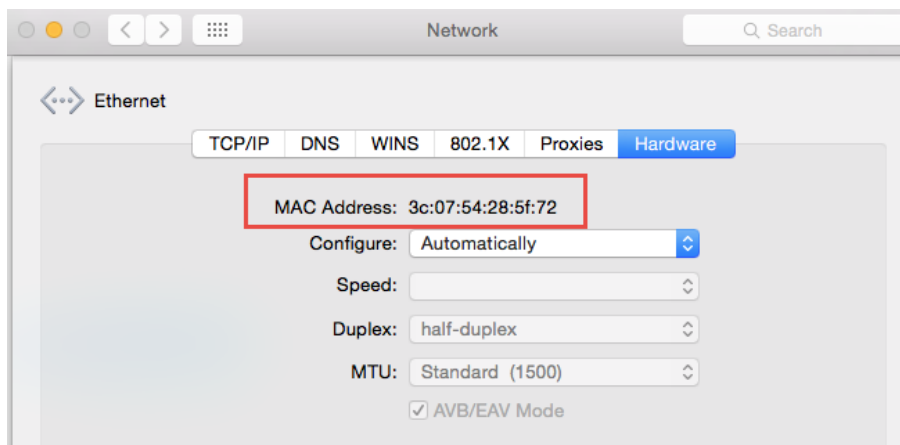
> For instructions about other operating systems, network installations, or installing an SDK (e.g. TC-Python or TC-Toolbox for MATLAB®) search the *Thermo-Calc Installation Guide*, which is also available on our website. You can also review the Licensing Options included on our website.

Step 1: Request a License File

> ⚠ **Upgrading to a new version of Thermo-Calc**: Skip this section if you are upgrading to a new version of Thermo-Calc (and you have a maintenance plan), or you have already been provided with the license file.

1. From the Apple main menu, select **System Preferences**.

2. Click **Network**.

3. In the left column select **Ethernet** or **Built-in Ethernet** (do not select a WiFi connection as a local static MAC address is required).

4. Click **Advanced → Hardware**. The **Network** window shows you the **MAC Address**. For example, the MAC address (the host ID) might be **3c:07:54:28:5f:72**.

5. Send an email to support@thermocalc.com and copy and paste the MAC address into the body of the email. Make sure to include the following in the subject line:

   License diagnostic information from <Name> where Name is replaced with your **name**, the **organisation name** and the **Site Number**. *You can find the five-digit site number on an invoice or any correspondence from Thermo-Calc Software.*

6. A representative from Thermo-Calc Software replies to the email address provided and attaches your license file or files.

7. Save your license file to your computer or network.

Step 2: Install Required macOS Software

> ⚠ To install and run Thermo-Calc on a Mac computer with an ARM processor, Rosetta first needs to be installed.

The XQuartz open-source X.Org X Window system is required to run Thermo-Calc on macOS.

1. In a web browser go to https://www.macupdate.com or to download it directly from XQuartz, https://www.xquartz.org/.

2. In the **Search Mac Apps** field, enter *XQuartz*.

3. Click the **XQuartz** search result. For example, based on the recent version, the name is XQuartz-2.8.5.dmg.

4. Click **Download**.

5. Double-click the **XQuartz-**<*version*>**.pkg** file. Follow the instructions.

6. Click **OK** when the message about logging out displays and click **Close** when the installation is successful.

Step 3: Download Thermo-Calc Software

> ⚠ Administrative rights are required to complete this installation. An email from Thermo-Calc Software (or from someone in your organization) includes the links and information you need to access and activate the current version of the software you want to download.

1. Click the link from the email and the first page of the **Download Center** opens. Under the **macOS** section, select the OS version. Click **Go to download page**.

2. In the **Sign in to access this site** window, enter the **Username** and **Password** (found in the email) and click **Sign in**.

3. On the **Download Center** page under **Software**, click the **.zip** link to download the file for the current software version (2025a).

Step 4: Install Thermo-Calc Software

> For macOS and when you first run the installer, you may see a message that *Thermo-Calc-osx-<version> can't be opened because Apple cannot check it for malicious software*. If this happens, select **Show in Finder**. Then, in the opened **Finder** window right-click the downloaded file `Thermo-Calc-osx-<version>` and select **Open**.

1. Navigate to the folder where you downloaded the software. Double-click the **.zip** program. Remember that administrative rights are needed, so when you are prompted for that user name and password, enter these credentials here. Click **Yes** to continue.

2. On the **Setup - Thermo-Calc 2025a** window click **Next**.

3. On the **License Agreement** window click to accept the license agreement. Click **Next**.
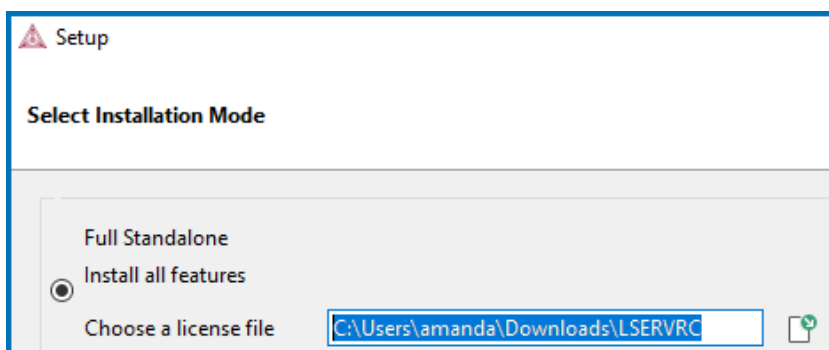
Step 5: Select License and Installation Mode

1. In the **Select License and Installation Mode** window click **Full Standalone: Install all features**.

   ▤ If you also have a license for TC-Python, it is installed when the **Full Standalone** or **Full Network Client** option is chosen, but there are additional steps required as described separately for this SDK.

2. For a **Full Standalone** installation, in the **Choose a license file** field either enter the file path or click the file button 🗐 to navigate to where you saved the license file emailed to you from Thermo-Calc Software.

   ⚠ Setup

   Select Installation Mode

   Full Standalone
   Install all features
   ◉
   Choose a license file   C:\Users\amanda\Downloads\LSERVRC   🗐

   📁 The license file is called **lservrc**. Click **Next**. To prevent errors, leave this field blank if you did not get a license file yet.

   ▤ TC-Python is installed for all users even if you do not have a license. The **Install TC-Python** window is a reminder that additional installation procedures are required after Thermo-Calc is installed. See the *TC-Python Installation Guide*.

3. In the **Ready to Install** window click **Next**. Click **Finish** and start using Thermo-Calc.

Import User Settings

For macOS installations and if you have previous Thermo-Calc installations: When you launch Thermo-Calc with the new or updated version, the splash screen hides the **Import User Settings** dialog box. In order to proceed you need to click the splash screen and then click **Yes** or **No** in the dialog box.