

Installation Instructions- for GEOCHEM-EZ running in Windows 64 bit operating system.

Please read through the instructions carefully. Contact us ([geochemezsupport@gmail.com](mailto:geochemezsupport@gmail.com)) if you have any problems, suggestions, or questions.

GEOCHEM-EZ will work on any computer that is running a 32 or 64 bit Windows XP, Vista or Windows 7 operating system. It will also run on 32 or 64 bit Linux machines. **Be sure to download the appropriate version for your computer.**

It also requires that the computer have Java SE6 update 30 or higher, which is available for download from Sun Microsystems (<http://www.java.com/en/download/>).

If you are not sure whether you have the correct version of Java or whether you have Java at all, then please visit: <http://www.java.com/en/download/installed.jsp>? and test to see what is installed on your computer.

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### Installing GEOCHEM-EZ

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GEOCHEM-EZ is downloaded as a zipped file. This file folder will contain all of the files that you will need to run the program. We have also included a number of example case files to help the new user learn the program.

Install GEOCHEM-EZ by copying the contents of the unzipped file folder into a directory. In naming the directory **please do include any spaces in the file name**. Also, we do not know the limit to which the program folder can be nested within a directory or the maximum file name length, so **we recommend** placing the program folder in the root directory (c:\GeochemEZ or C:\Geochem) and naming the folder as Geochem or GeochemEZ.

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### Running GEOCHEM-EZ

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To launch GEOCHEM-EZ simply click the GEOCHEM-EZ.jar file. Alternatively, place a GEOCHEM-EZ shortcut on the computer desktop. We have included an icon.ico file in the resources folder if you want to change the shortcut icon to include our logo. GEOCHEM-EZ requires Java SE6 update 30 or higher, which is available for down-load from Sun Microsystems (<http://www.java.com/en/download/>). The first time that the program is opened

there may appear error messages related to the program not be able to find the appropriate databases. Please ignore this and configure these files.

To Configure the program: Select “Options” on the top menu bar and then choose the locations for the default work directory (normally the “MyData” folder), the Metal/Ligand database (usually GEODAT-A.lig unless you have your own database file), and the GEODAT-A.Salts file (found in the resources folder). Default Template is reserved for those users who want to open a specific each time the program starts.

**Note:** Users may encounter problems with GEOCHEM-EZ if their Windows default language is set to anything other than English (United States). The problem arises when commas are used in place of decimal points. Windows operating system users who use comma delimited decimal separators should change their Windows default language to English (United States) via the control panel choosing the Region and Language option before running Geochem-EZ. In the “Formats” tab of the Region and Language option choose “English (United States)” and then click on “Additional Settings” at the bottom of the “Formats” tab. In the “Numbers” tab of “Additional Settings” check to see whether the decimal symbol is now a period (.) and not a comma.

If you are receiving error messages and have installed and configured the program properly, then the default language may be the issue.

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### Using GEOCHEM-EZ

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To get a feel for how **GEOCHEM-EZ** works, it is best to first look at the Help files. To get there launch **GEOCHEM-EZ**, then go to menu bar at the top of the program interface, click on Help and choose “Launch Help”. This will open our Help files in your default web browser. The “Quick Start Page” and the “Advanced Options Page” are recommended first introductions to the program. It will show you how to enter and run a case and some of the options that will make your analysis more powerful.

We have found that the Help files display better on the Mozilla Firefox browser (<http://www.mozilla.org/en-US/firefox/new/>). If you are a seasoned GEOCHEM-PC user, then you can simply open your old "dat" files and get to work. We have included in the My Data folder several example files with the GEOCHEM-EZ “geo” file extension that can be opened with the "load file" option.

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### Critical Files

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As expected, if the files within GeoChem's directory are tampered with, then GEOCHEM-EZ may not run properly. The first four files in this directory that should not be moved or altered are:

1) GEORUN.EXE

This contains the executable file for GEOCHEM, which is run by GeoChem-EZ.

2) GEOCHEM.CFG

This is used by GEORUN.EXE and is written anew every run by GeoChem-EZ.

3) Interface.cfg

This file saves all the databases the user selects, along with their default work directory and template. If this is deleted, GEOCHEM-EZ will revert to a default configuration and generate new file

4) GeoChem-EZ.jar

This executable file contains all the recompiled Java files to run GEOCHEM-EZ.

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These next three files can be modified, but with care not to change any of the file structure.

5)metlig.MLW

An exception to the "do not touch rule is this database file, which stores the molecular weights of all the metals and ligands in the GEODAT-A.LIG database. If you expand on this database and wish to use g/L and mg/L in GEOCHEM-EZ, then you can edit this database with any ASCII editor. The format is simply [m/l] [code#] [molecular weight]. The only time that this database should be modified is when metals or ligands are added to the GEODAT-A.LIG database.

6)Resources Directory

This directory contains the default SALTS and LIG databases as well as the entire help system and some images used by EZ. Add your own custom LIG databases here.

All content in this directory should be accessed only through the GeoChem-EZ program.

#### 7)'MyData' Directory

This is the default directory to store the user's input and output files..This would include files with geo, out, and dat file extensions. Upon installation of the program, it will contain example files in both DAT and GEO formats.

There may also be a number of temporary files with GEOCHEM-EZ in its run of GEOCHEM-PC. You are free to delete these.

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### **Error Reporting**

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If you find bugs, are experiencing glitches, or have suggestions on how to improve the program, then please e-mail us at [GeochemEZsupport@gmail.com](mailto:GeochemEZsupport@gmail.com) or click on the picture of the Yak in the Help files and report your problems to us.

[Go to the Top of the Page](#)