

A vminteq program installálása

Böngészővel megkeressük, és megnyitjuk a „vminteq.twr.kth.se” link alatti honlapot



vminteq



Összes



Térkép



Videók



Képek



Hírek



Egyebek

Beállítások

Eszközök

Nagyjából 14 600 találat (0,40 másodperc)

vminteq.twr.kth.se Oldal lefordítása

Visual MINTEQ – Visual MINTEQ – a free equilibrium ...

Visual MINTEQ is a freeware chemical equilibrium model for the calculation of metal speciation, solubility equilibria, sorption etc. for natural waters. It combines ...

2 alkalommal látogatta már meg ezt az oldalt. Utolsó látogatás ideje: 2020.11.25.

Download

Visual MINTEQ is the second-most used chemical equilibrium ...

Visual MINTEQ ver. 3.1

Visual MINTEQ ver. 3.1. Jon Petter Gustafsson, Posted on ...

Learn

Visual MINTEQ is the second-most used chemical equilibrium ...

További találatok a(z) kth.se domainről »

Requirements

Visual MINTEQ is the second-most used chemical equilibrium ...

Visual MINTEQ 3.1 now released

Visual MINTEQ 3.1 now released. Jon Petter Gustafsson ...

Is Visual MINTEQ what you are ...

Visual MINTEQ is the second-most used chemical equilibrium ...



Visual MINTEQ ver. 3.1

[Jon Petter Gustafsson](#) December 21, 2013

Visual MINTEQ is a freeware chemical equilibrium model for the calculation of metal speciation, solubility equilibria, sorption etc. for natural waters. It combines state-of-the-art descriptions of sorption and complexation reactions with easy-to-use menus and options for importing and exporting data to/from Excel. Chemical equilibrium modelling has never been easier!

The code, originally built on USEPA's [MINTEQA2](#) software, is maintained by [Jon Petter Gustafsson](#) at KTH, Sweden, since 2000.

Visual MINTEQ will run on most Windows platforms and relies on .NET Framework. For more details, [see here](#).



[Jon Petter Gustafsson](#) December 21, 2013

Easy yet powerful



Visual MINTEQ is the second-most used chemical equilibrium software application among researchers

publishing in Elsevier journals. Probably this is because it is easy to learn, yet powerful, for many kinds of chemical equilibrium problems.

Other software sites

[PHREEQC](#)

[CHEAQS Next](#)

[Hydra/Medusa](#)

[Orchestra](#)

[ECOSAT](#)

[WHAM 7.0](#)

[Geochemist's Workbench](#)



Download

Updated 26 November 2020. This is the main download page of Visual MINTEQ. Below you can download the most recent version, or selected older versions if the latest version doesn't work for you. Various databases can also be downloaded. **Currently, I use the Box and Google platforms to distribute the software.** Disregard the message saying that "We're sorry, this file type is not currently supported" and click on the Download button. If the links don't work please send me an e-mail!

Visual MINTEQ version 3.1

Posted by [Jon Petter Gustafsson](#) on November 26, 2020
Visual MINTEQ 3.1 can be downloaded from the following links:

BOX:

[Vminteq31_setup.zip](#)

Google:

Easy yet powerful



Visual MINTEQ is the second-most used chemical equilibrium software application among researchers publishing in Elsevier journals. Probably this is because it is easy to learn, yet powerful, for many kinds of chemical equilibrium problems.

Other software sites

[PHREEQC](#)

[CHEAQS Next](#)

[Hydra/Medusa](#)

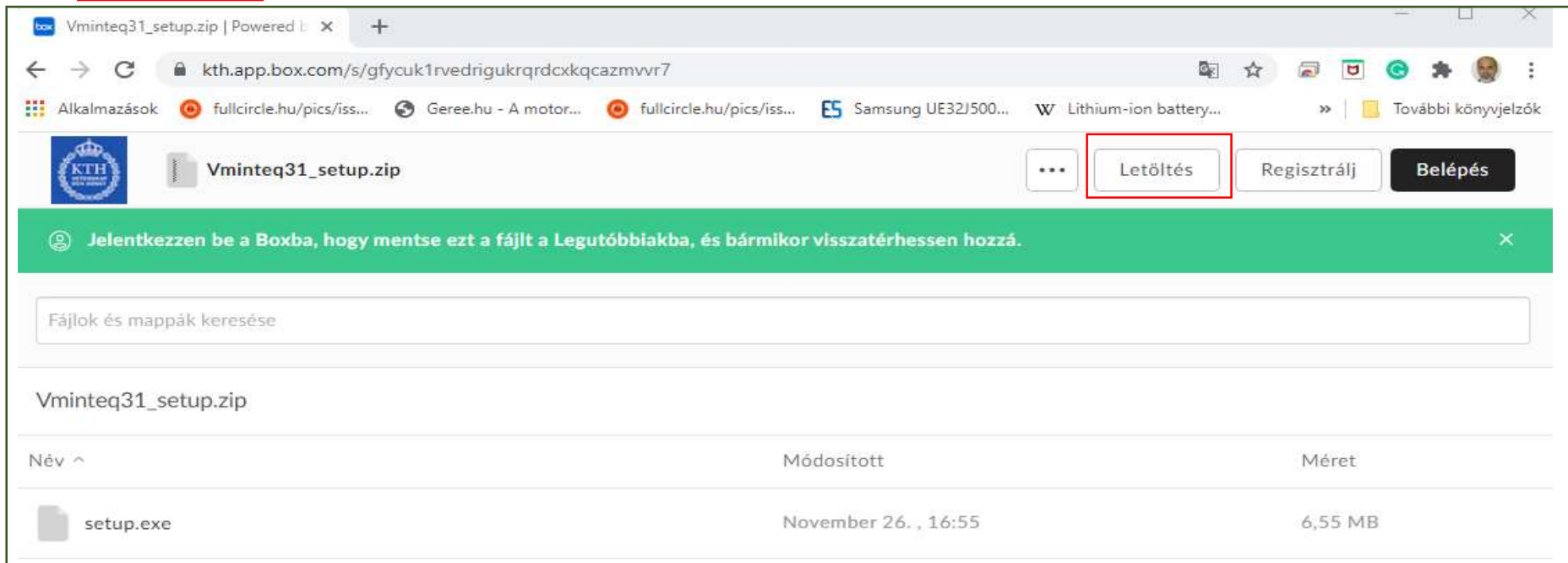
[Orchestra](#)

[ECOSAT](#)

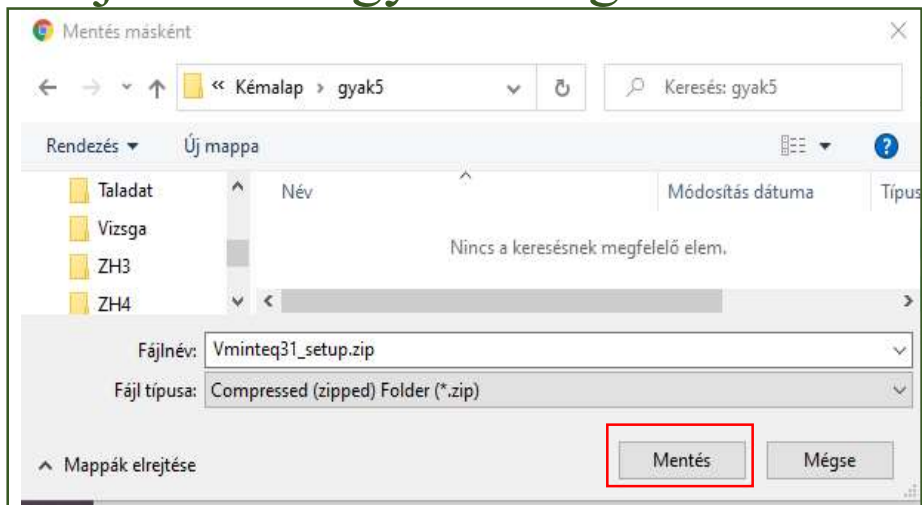
[WHAM 7.0](#)

[Geochemist's Workbench](#)

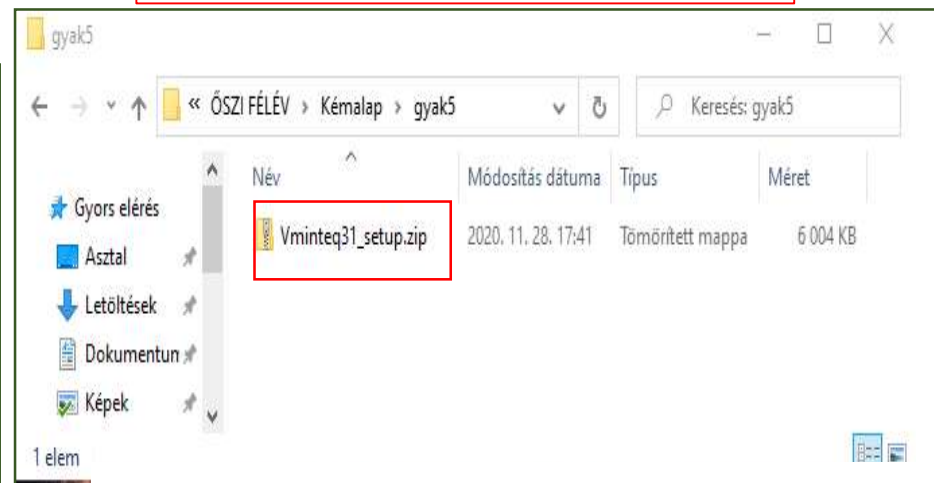
A Letöltés indítása



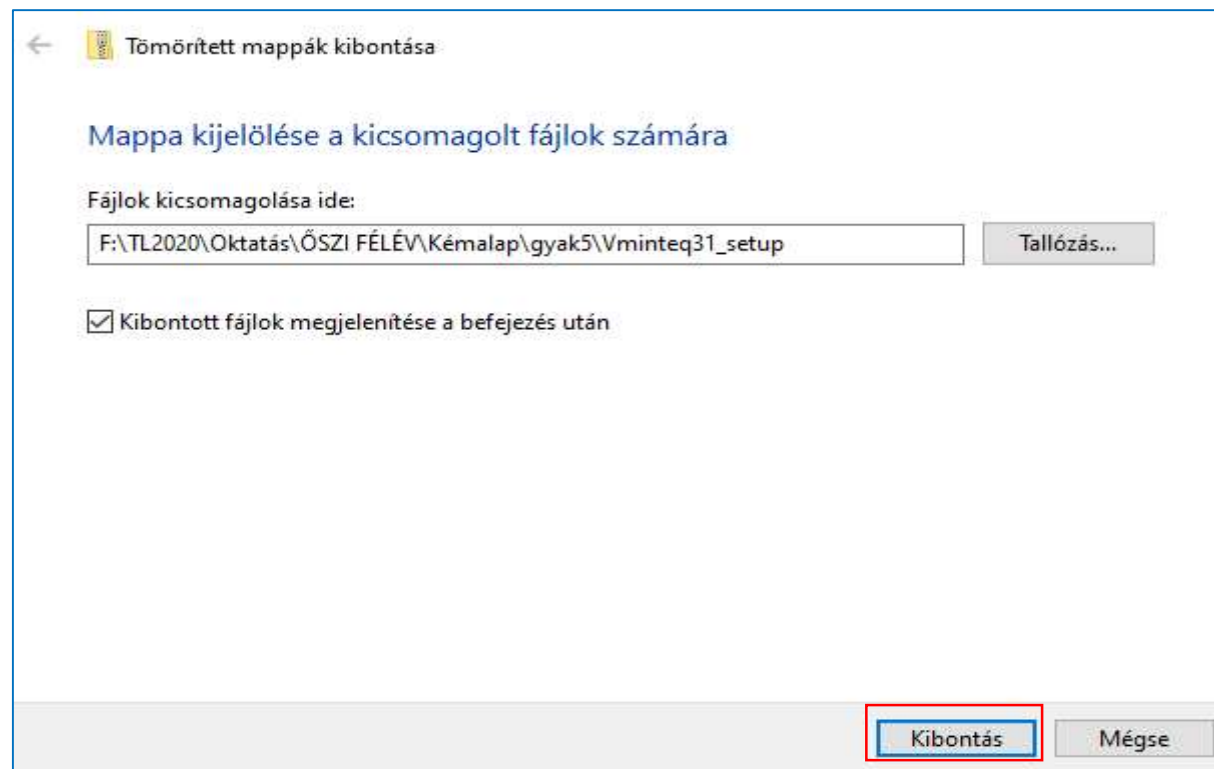
A saját gépünkön a mentésre kijelölünk egy katalógust



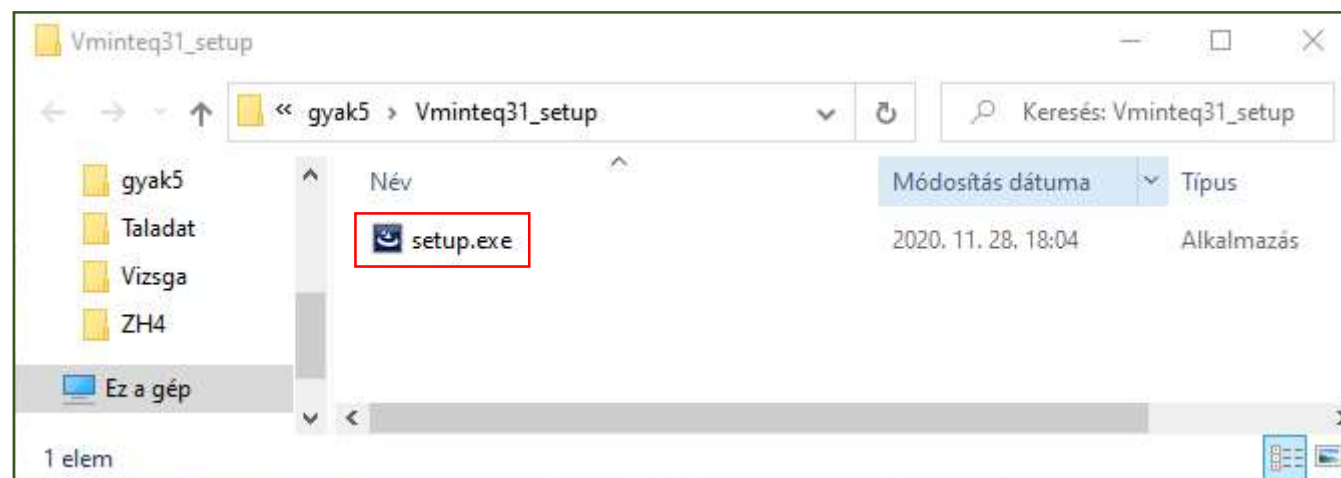
Egérkattintás – jobb gomb!



A kinyíló függőmenüből majd válassza az összes kibontása lehetőséget!

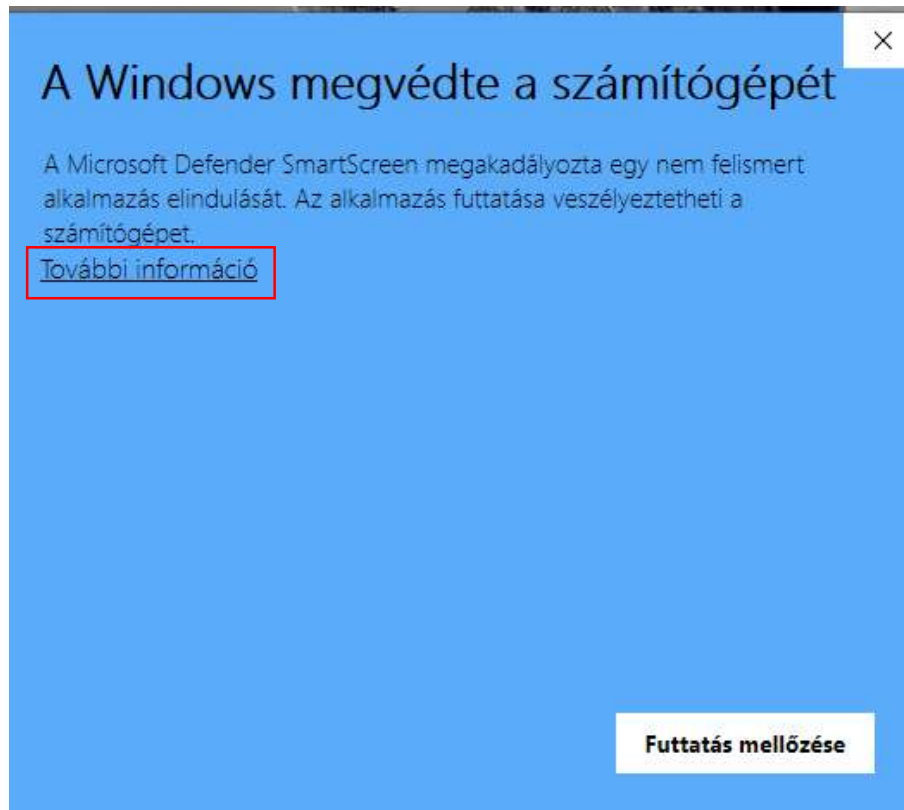


A mappa természetesen mindenkinél más helyen lehet.

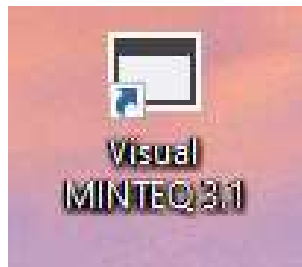


A setup.exe-re duplán kattintva elindul az installálás.

Ha védelem akadályozza az installálást → [További információ](#) → [Futtatás mindenképpen](#)



Sikeres installálás után az alábbi ikon jelenik meg az asztalon



A **vminteq** program futtatása erre az ikonra való kettős kattintással indítandó.

Először megteesszük a főmenü (input menü) **Parameters** menüpontjával a szükséges beállításokat

The screenshot shows the Visual MINTEQ software interface. The title bar reads "New file - Visual MINTEQ main menu". The menu bar includes "File", "Parameters", "Solid phases and excluded species", "Adsorption", "Gases", "Redox", "Multi-problem / Sweep", "Database management", and "Help". The "Parameters" menu is highlighted with a red box. The main window has a yellow background with the text "Visual MINTEQ" in red. A central image shows a rocky stream. On the left, there are input fields for "pH" (set to "Calculated from mass balance") and "Ionic strength" (set to "Fixed at..." with "To be calculated" selected). On the right, there are settings for "Activity" (set to "Davies"), "Concentration unit" (set to "Molal" with "Millimolal" as an option), and "Temperature" (set to "25 deg C"). At the bottom, there is an "Add components" section with a "Component name" dropdown (set to "Select from list"), a "Total concentration" input field (set to "0 Molal"), and a "Fixed activity" radio button. There are also checkboxes for "Show organic components" and "Add SOM". On the right side of the bottom section, there are buttons for "Add to list", "View / edit list", "Reset", "Run MINTEQ", and "View output files".

A Parameters menüpont megnyomására az alábbi almenü nyílik meg

Parameters	
Specify alkalinity	ctrl + A
Specify pe and Eh	ctrl + E
Add/Edit Biotic Ligand Model	ctrl + B
Various default setting	ctrl + D
Show initial charge balance	

Ügyeljünk arra, hogy a Specify alkalinity menüpontot ne érintsük!

Válasszuk a **Various default setting** almenüpontot

Ellenőrizze a beállításokat, ha az alábbiól eltér módosítsa!

Ügyeljen arra, hogy az alábbi legyen bejelölve!

Oversaturated solids are allowed to precipitate each time a mineral precipitates or dissolves



Visual MINTEQ default settings

Terminate if charge imbalance exceeds 30 %? Yes No

Choose the number of iterations: 200 500 2000 5000

Method for activity correction Davies Debye-Hückel SIT
Davies b parameter

Choose on what basis input concentrations are defined Solution Solid

Oversaturated solids are not allowed to precipitate (Exceptions: Solids specified as infinite, finite or possible)
Oversaturated solids are allowed to precipitate, but only after the final answer is reached
Oversaturated solids are allowed to precipitate each time a mineral precipitates or dissolves

Spreadsheet program: Microsoft Excel WPS Spreadsheets

Choose paths and default databases

Path for user-editable files	<input type="text" value="F:\TL2020\Oktatas\Chemtech\gyak\vminteq\vminteq31"/>	<input type="button" value="Choose other"/>
Main thermodynamic database	<input type="text" value="F:\TL2020\Oktatas\Chemtech\gyak\vminteq\vminteq31\thermo.vdb"/>	<input type="button" value="Choose other"/>
Solids database	<input type="text" value="F:\TL2020\Oktatas\Chemtech\gyak\vminteq\vminteq31\type6.vdb"/>	<input type="button" value="Choose other"/>
Component database	<input type="text" value="F:\TL2020\Oktatas\Chemtech\gyak\vminteq\vminteq31\comp_2008.vdb"/>	<input type="button" value="Choose other"/>
DOM complex database	<input type="text" value="F:\TL2020\Oktatas\Chemtech\gyak\vminteq\vminteq31\gaussian.vdb"/>	<input type="button" value="Choose other"/>

Information on results pages, parameters for predefined surface complexation models

A katalógusok (paths) értelemszerűen a saját gépen installálásnak megfelelőek.
Visszalépés a **Save and Quit** pont választással.

Ellenőrizze, illetve állítsa be az alábbiak szerint a **pH**, az **Ionic strength** és a **Concentration unit** értékeket.

New file - Visual MINTEQ main menu

File Parameters Solid phases and excluded species Adsorption Gases Redox Multi-problem / Sweep Database management Help

Visual MINTEQ

pH: Calculated from mass balance

Ionic strength: Fixed at...
To be calculated

Activity: Davies

Concentration unit: Molal
Millimolal

Temperature: 25 deg C

Add components

Component name: Select from list

Total concentration: 0 Molal

Fixed activity:

Show organic components

Add SOM

Add to list

View / edit list

Reset

Run MINTEQ

View output files

Az adott feladathoz szükséges komponensek nevét és koncentrációját az **Add components** alatt adjuk meg.