

Molekel

Plotting vibrational normal modes

Molekel 5.4 Free

Home > Design & Photo > Viewers & Editors

Search...

DOWNLOAD

OS: Windows 8/7/Vista/XP
Language: English
License: Free

Download Now
 Win XP / 7 / 8 / Vista

Downloads: Over 120,000

Elite Unzip™

Download Free Unzip applicatoin

Today's highlight

CyberLink PowerDirector

The Fastest and Most Flexible Video Editor.

trusted **DOWNLOAD**
 28 MB

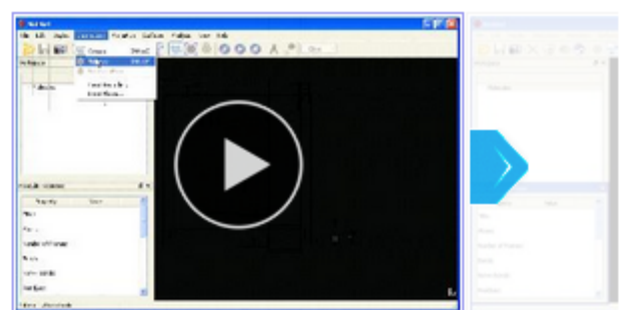
Tag cloud

[Molekel](#) [Program](#) [Molecular](#) [Multi-Platform](#) [Open-Source](#)

Video tutorial & screenshots

Your vote

User rating Editor rating



Related suggestions

- Molekel 5.4
- Free download molekel
- Postscript program
- Molekel software downloads

Molekel

- A graphical user interface for plotting in three dimensions
- Molecular orbitals (but we use Pymol)
- Normal modes of vibration

Procedure uses a program called “calc_freq”.

Inputs are the files from a vibrational frequency calculation.

These include .car, .hessian, .grad and .outmol files from the freq calc.

Use the “vibsave” script to back these up after your frequency calc.

For example, if you run benzene.job and generate benzene.outmol

Then you would type `$ vibsave benzene`

This will save the appropriate files

- You may copy a script called `run_cf_81` from the bin directory.
- You will edit this script so it contains the number of modes you want.
- Then run the script

```
$ run_cf_81 benzene
```

This will generate xyz files for each mode. Copy these over to your PC
Run molekel. Select the mode of interest and animate.

- Open... Ctrl+O
- Save... Ctrl+S
- Save Image... Ctrl+I
- Save to PostScript...
- Save to EPS...
- Save to PDF...
- Save Orbital Pictures...
- Exit Ctrl+Q



Molecule Properties

Property	Value
Title:	
Atoms:	
Number of Fra...	
Bonds:	
Non-H bonds:	
Residues:	
Conformers:	
Energy:	

Load molecule



Workspace

- mode12.xyz
- mode17.xyz
- mode16.xyz
- mode15.xyz
- mode20.xyz
- mode19.xyz
- mode18.xyz
- mode13.xyz

mode16.xyz properties

Property	Value
Title:	Molekel freque...
Atoms:	17
Number of Fra...	5
Bonds:	16
Non-H bonds:	5
Residues:	0
Conformers:	1
Energy:	0

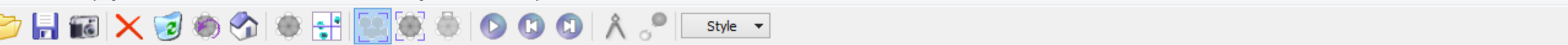
Load molecule

Look in: D:\Hesabu\dft\INORGANIC\PD_NH3_4\MOLEKEL

My Compu...	freq.out	mode19.xyz	mode35.xyz	pd_nh3_4.car
Stefan	mode1.xyz	mode20.xyz	mode36.xyz	pd_nh3_4.grad
	mode2.xyz	mode21.xyz	mode37.xyz	pd_nh3_4.hessian
	mode3.xyz	mode22.xyz	mode38.xyz	pd_nh3_4.outmol
	mode7.xyz	mode23.xyz	mode39.xyz	pd_nh3_4.pdb
	mode8.xyz	mode24.xyz	mode40.xyz	pd_nh3_4_opt.car
	mode9.xyz	mode25.xyz	mode41.xyz	pd_nh3_4_opt.dmol
	mode10.xyz	mode26.xyz	mode42.xyz	
	mode11.xyz	mode27.xyz	mode43.xyz	
	mode12.xyz	mode28.xyz	mode44.xyz	
	mode13.xyz	mode29.xyz	mode45.xyz	
	mode14.xyz	mode30.xyz	mode46.xyz	
	mode15.xyz	mode31.xyz	mode47.xyz	
	mode16.xyz	mode32.xyz	mode48.xyz	
	mode17.xyz	mode33.xyz	mode50.xyz	
	mode18.xyz	mode34.xyz	mode51.xyz	

File name: mode23.xyz Open

Files of type: All Files - (*.*) Cancel

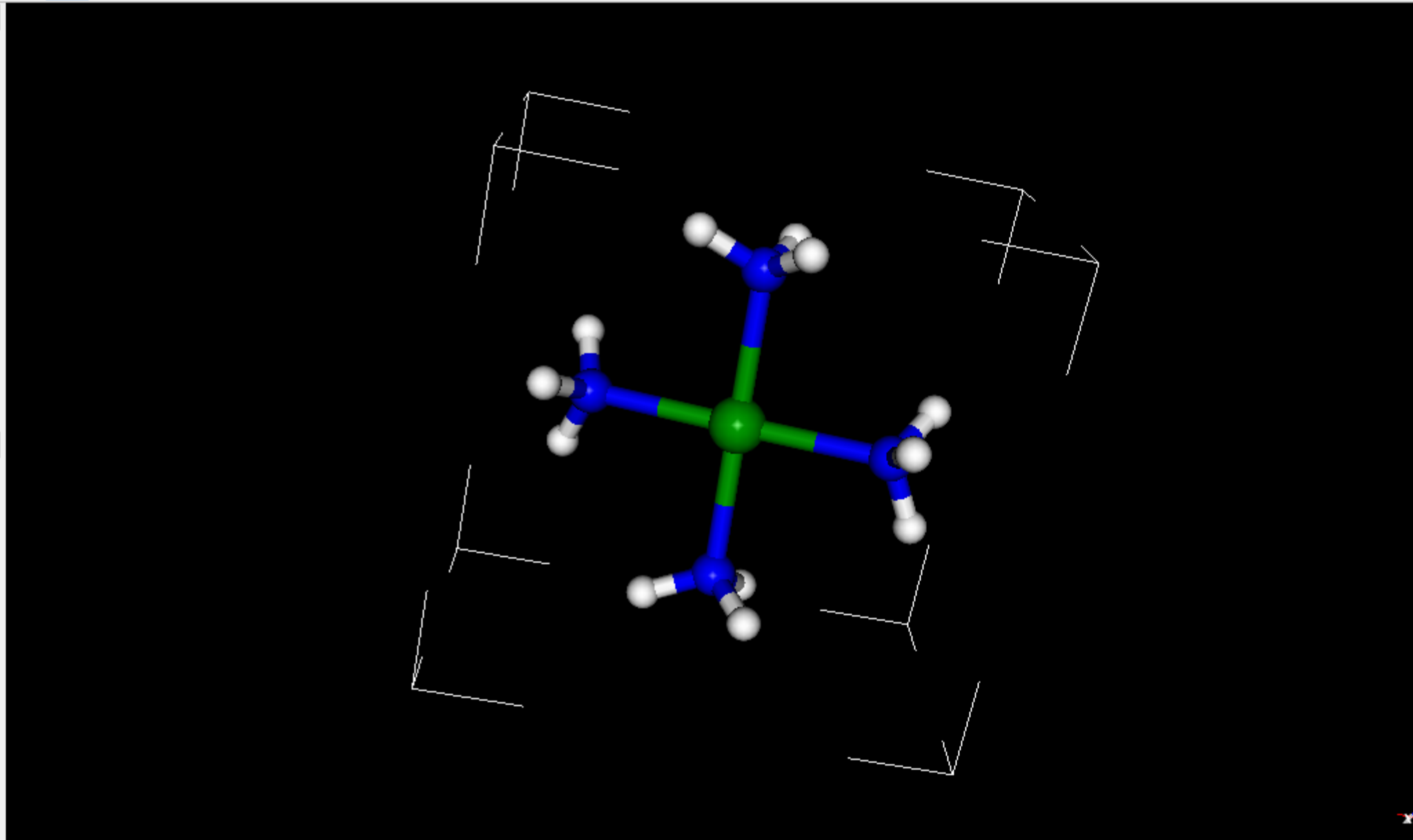


Workspace

- mode12.xyz
- mode17.xyz
- mode16.xyz
- mode15.xyz
- mode20.xyz
- mode19.xyz
- mode18.xyz
- mode13.xyz
- mode23.xyz

mode23.xyz properties

Property	Value
Title:	Molekel freque...
Atoms:	17
Number of Fra...	5
Bonds:	16
Non-H bonds:	5
Residues:	0
Conformers:	1
Energy:	0





Animation menu:

- ▶ Start Animation
- ▶ Next
- ▶ Previous
- Timestep
- Per-Molecule Settings...
- Export Animation...

- Workspace
- mode12.xyz
 - mode17.xyz
 - mode16.xyz
 - mode15.xyz
 - mode20.xyz
 - mode19.xyz
 - mode18.xyz
 - mode13.xyz
 - mode23.xyz

mode23.xyz properties

Property	Value
Title:	Molekel freque...
Atoms:	17
Number of Fra...	5
Bonds:	16
Non-H bonds:	5
Residues:	0
Conformers:	1
Energy:	0

