



# NFDI4Chem Terminology Service - News & Updates

## Fostering the Community Curation of Chemical Ontologies

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# The NFDI4Chem Terminology Service (TS)

## A part of TIB TS general



TIB TERMINOLOGY SERVICE

HOME COLLECTIONS ONTOLOGIES HELP API ABOUT

Search for ontology, term, properties and individuals

TIB Terminology Service

With the Terminology Service, TIB – Leibniz Information Centre for Science and Technology and University Library provides a single point of access to terminologies from domains such as architecture, chemistry, computer science, mathematics and physics. You can browse ontologies through the website or use its API to retrieve terminological information and use it in your technical services.

Collections

- NFDI4ing
- NFDI4Chem** (highlighted)
- NFDI4Culture
- CoyPu
- FID move
- B. A. U. digital
- FAIR Data Spaces
- NFDI4cat

Terminology Service Statistics

165	1200904	23654	66915
Ontologies	Terms	Properties	Individuals

TERMINOLOGY SERVICE

HOME ONTOLOGIES HELP API ABOUT

Search for ontology, term, properties and individuals

WHAT IS THIS ?

HOW TO SEARCH ?

NOT A HUMAN ?

Terminology Service Statistics

39	519169	6642	4248
Ontologies	Terms	Properties	Individuals

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ABOUT: Privacy Policy, Terms of use, Imprint

RESOURCES: NFDI4Chem Website, NFDI4Chem FAQ, NFDI4Chem Helpdesk, NFDI4Chem Knowledge Base, NFDI4Chem Search Service, GitHub repository

PROVIDED BY: TIB LEIBNIZ INFORMATION CENTRE FOR SCIENCE AND TECHNOLOGY UNIVERSITY LIBRARY

- based on EBI's OLS
  - added new features
- part of TIB TS
  - NFDI4Chem collection
  - project based frontend
- 39 ontologies
  - 15 chemistry specific
  - SKOS ready
- A point of entry for exploration and curation

# The NFDI4Chem Terminology Service (TS)

## Exploring Ontologies: General Search



The screenshot shows the NFDI4Chem Terminology Service (TS) search results page. The search bar at the top contains the text "chemical entity" and is highlighted with a red box. The page displays 15049 results found for "chemical entity". The results are filtered by Type (class, property, individual, ontology) and Ontologies (NCIT, MS, PATO, ENM, CHEBI). The results list includes:

- [class] chemical entity** (CHEBI\_24431) from the CHEBI ontology. Description: "A chemical entity is a physical entity of interest in chemistry including molecular entities, parts thereof, and chemical substances." Also in: ENVO, PROCO, PATO, EFO, MS, MOP, RXNO.
- [class] chemical entity** (SIO\_010004) from the SIO ontology. Description: "A chemical entity is any molecular entity or chemical substance." Ontology: SIO.
- [class] chemical entity** (CHEMINF\_000000) from the CHEMINF ontology. Description: "A chemical entity is any molecular entity or chemical substance." Ontology: CHEMINF.
- [ontology] Chemical Entities of Biological Interest** (chebi) from the CHEBI ontology. Description: "A freely available dictionary of molecular entities focused on 'small' chemical compounds. The term 'molecular entity' refers to any constitutionally or isotopically distinct atom, molecule, ion, ion pair, radical, radical ion, complex, conformer, etc., identifiable as a separately distinguishable entity. The molecular entities in question are either products of nature or synthetic products used to intervene in the processes of living organisms." Ontology: CHEBI.

- search in all indexed fields
  - e.g. ontology description & title, term label, definition, ...

# The NFDI4Chem Terminology Service (TS)

## Exploring Ontologies: General Search



The screenshot shows the NFDI4Chem Terminology Service interface. At the top, there is a search bar containing the text "chemical entity" and a "Search" button. Below the search bar, the page displays "15049 results found for 'chemical entity'". On the left side, there are two filter panels: "Filter Results" and "Ontologies". The "Filter Results" panel includes a "Type" section with four radio button options: "class" (13884), "property" (1117), "individual" (39), and "ontology" (0). The "Ontologies" panel lists several ontologies with their respective result counts: NCIT (7766), MS (978), PATO (831), ENM (698), and CHEBI (533). The main content area shows a list of search results. The first result is for the class "chemical entity" from the CHEBI ontology (CHEBI\_24431), with a description: "A chemical entity is a physical entity of interest in chemistry including molecular entities, parts thereof, and chemical substances." The second result is for the class "chemical entity" from the SIO ontology (SIO\_010004), with a description: "A chemical entity is any molecular entity or chemical substance." The third result is for the class "chemical entity" from the CHEMINF ontology (CHEMINF\_000000), with a description: "A chemical entity is any molecular entity or chemical substance." The fourth result is for the ontology "Chemical Entities of Biological Interest" from the CHEBI ontology (chebi), with a description: "A freely available dictionary of molecular entities focused on 'small' chemical compounds. The term 'molecular entity' refers to any constitutionally or isotopically distinct atom, molecule, ion, ion pair, radical, radical ion, complex, conformer, etc., identifiable as a separately distinguishable entity. The molecular entities in question are either products of nature or synthetic products used to intervene in the processes of living organisms."

- search in all indexed fields
  - e.g. abstract, label, definition
- filter by type of term
  - class, property, individual or ontology

# The NFDI4Chem Terminology Service (TS)

## Exploring Ontologies: General Search



The screenshot shows the NFDI4Chem Terminology Service search results for the query "chemical entity". The page includes a search bar with the query, a "Search" button, and a "Login" link. The search results are displayed in a list format, showing the class name, URI, description, and ontology. The "Ontologies" filter is highlighted with a red box, showing a list of ontologies with their respective hit counts.

**Filter Results**  
Clear All Filters

15049 results found for "chemical entity"  
Results Per Page: 10

**Type**

- class (13884)
- property (1117)
- individual (39)
- ontology (0)

**Ontologies**

- NCIT (7766)
- MS (978)
- PATO (831)
- ENM (698)
- CHEBI (533)

+ Show More

**Search Results:**

- [class] chemical entity** (CHEBI\_24431)  
http://purl.obolibrary.org/obo/CHEBI\_24431  
A chemical entity is a physical entity of interest in chemistry including molecular entities, parts thereof, and chemical substances.  
Ontology: CHEBI  
Also in: ENVO, PROCO, PATO, EFO, MS, MOP, RXNO
- [class] chemical entity** (SIO\_010004)  
http://semanticscience.org/resource/SIO\_010004  
Ontology: sio
- [class] chemical entity** (CHEMINF\_000000)  
http://semanticscience.org/resource/CHEMINF\_000000  
A chemical entity is any molecular entity or chemical substance.  
Ontology: CHEMINF
- [ontology] Chemical Entities of Biological Interest** (chebi)  
http://purl.obolibrary.org/obo/chebi.owl  
A freely available dictionary of molecular entities focused on 'small' chemical compounds. The term 'molecular entity' refers to any constitutionally or isotopically distinct atom, molecule, ion, ion pair, radical, radical ion, complex, conformer, etc., identifiable as a separately distinguishable entity. The molecular entities in question are either products of nature or synthetic products used to intervene in the processes of living organisms.  
Ontology: CHEBI

- search in all indexed fields
- filter by type of term
- filter by ontology
  - sorted by number of hits

# The NFDI4Chem Terminology Service (TS)

## Exploring Ontologies: General Search



The screenshot shows the NFDI4Chem Terminology Service interface. At the top left is the logo and 'TERMINOLOGY SERVICE'. Navigation links include HOME, ONTOLOGIES, HELP, API, and ABOUT. A search bar contains 'chemical entity' and a 'Search' button. Below the search bar, it says '15049 results found for "chemical entity"'. On the left, there are filter sections for 'Type' (class, property, individual, ontology) and 'Ontologies' (NCIT, MS, PATO, ENM, CHEBI). The main results area shows four entries, each with a red box highlighting the first entry:

- [class] chemical entity** (CHEBI\_24431)  
http://purl.obolibrary.org/obo/CHEBI\_24431  
A chemical entity is a physical entity of interest in chemistry including molecular entities, parts thereof, and chemical substances.  
Ontology: CHEBI  
Also in: ENVO, PROCO, PATO, EFO, MS, MOP, RXNO
- [class] chemical entity** (SIO\_010004)  
http://semanticscience.org/resource/SIO\_010004  
Ontology: sio
- [class] chemical entity** (CHEMINF\_000000)  
http://semanticscience.org/resource/CHEMINF\_000000  
A chemical entity is any molecular entity or chemical substance.  
Ontology: CHEMINF
- [ontology] Chemical Entities of Biological Interest** (chebi)  
http://purl.obolibrary.org/obo/chebi.owl  
A freely available dictionary of molecular entities focused on 'small' chemical compounds. The term 'molecular entity' refers to any constitutionally or isotopically distinct atom, molecule, ion, ion pair, radical, radical ion, complex, conformer, etc., identifiable as a separately distinguishable entity. The molecular entities in question are either products of nature or synthetic products used to intervene in the processes of living organisms.  
Ontology: CHEBI

- search in all indexed fields
- filter by type of term
- filter by ontology
- most important details at once
  - type, label/title, IRI, description/definition, source, reuse

# The NFDI4Chem Terminology Service (TS)

## Exploring Ontologies: Ontology Overview



The screenshot displays the NFDI4Chem Terminology Service (TS) website. The header includes the logo and navigation links: HOME, ONTOLOGIES, HELP, API, ABOUT. A search bar is present with the text "Search in vibso". The main content area is titled "Vibrational Spectroscopy Ontology (VIBSO)" with the URL <http://purl.obolibrary.org/obo/vibso.owl>. Below the title, there are tabs for Overview, Class Tree, Property Tree, Individuals, Class List, Notes, and Github Issues. The Overview tab is selected, showing a description: "WIP - NOT READY FOR PRODUCTION - The Vibration Spectroscopy Ontology defines technical terms with which research data produced in vibrational spectroscopy experiments can be semantically enriched, made machine readable and FAIR." A table lists metadata for the ontology, and a Metrics section shows statistics. There are also buttons for "File a General Issue", "File a Term Request", and "Show Ontology Metadata as JSON".

Philip Strömert

TERMINOLOGY SERVICE

HOME ONTOLOGIES HELP API ABOUT

Search in vibso Search

### Vibrational Spectroscopy Ontology (VIBSO)

<http://purl.obolibrary.org/obo/vibso.owl>

Overview Class Tree Property Tree Individuals Class List Notes Github Issues

#### Vibrational Spectroscopy Ontology (VIBSO)

WIP - NOT READY FOR PRODUCTION - The Vibration Spectroscopy Ontology defines technical terms with which research data produced in vibrational spectroscopy experiments can be semantically enriched, made machine readable and FAIR.

Version	2023-06-21
VersionIRI	<a href="http://purl.obolibrary.org/obo/vibso/releases/2023-06-21/vibso.owl">http://purl.obolibrary.org/obo/vibso/releases/2023-06-21/vibso.owl</a>
IRI	<a href="http://purl.obolibrary.org/obo/vibso.owl">http://purl.obolibrary.org/obo/vibso.owl</a> <span>copy</span>
HomePage	<a href="https://nfdi4chem.github.io/VibrationalSpectroscopyOntology/">https://nfdi4chem.github.io/VibrationalSpectroscopyOntology/</a> <span>copy</span>
Issue tracker	<a href="https://github.com/NFDI4Chem/VibrationalSpectroscopyOntology/issues">https://github.com/NFDI4Chem/VibrationalSpectroscopyOntology/issues</a> <span>copy</span>
License	CC-BY 4.0
Creator	NFDI4Chem, <a href="https://orcid.org/0000-0002-1595-3213">https://orcid.org/0000-0002-1595-3213</a>
Is Skos	false
Download	<span>OWL</span> <span>Ontology metadata as JSON</span>

[+ Show more information](#)

#### Metrics

Number of Classes	277
Number of Properties	248
Number of Individuals	25

File a General Issue

File a Term Request

Show Ontology Metadata as JSON

- Ontology overview
  - Important metadata
  - Tree & list views
  - Notes feature
  - GitHub issues





# The NFDI4Chem Terminology Service (TS)

## Exploring Ontologies: Term Details



The screenshot displays the NFDI4Chem Terminology Service (TS) interface. At the top, there is a navigation bar with the logo and the text 'TERMINOLOGY SERVICE'. A search bar is located below the navigation bar, with the text 'Search in vibso' and a 'Search' button. The main content area is titled 'Vibrational Spectroscopy Ontology (VIBSO)' and includes a URL 'http://purl.obolibrary.org/obo/vibso.owl'. Below the title, there are tabs for 'Overview', 'Class Tree', 'Property Tree', 'Individuals', 'Class List', 'Notes', and 'Github Issues'. The 'Class Tree' tab is active, showing a hierarchical tree of classes. The 'Raman spectrum' class is selected and highlighted. To the right of the tree, there are buttons for 'Reset', 'Full Tree', 'Show Siblings', and 'Jump to:'. The 'Detail' tab is active, showing the following information for the 'Raman spectrum' term:

Label	Raman spectrum
Synonyms	Raman spectra
CURIE	CHMO:0000823
Term ID	CHMO_0000823
Description	A plot of intensity vs. Raman shift (cm <sup>-1</sup> ) obtained by measuring the Raman scattering of monochromatic light from a sample. [Reference: <a href="https://doi.org/10.1021/jp0016611">https://doi.org/10.1021/jp0016611</a> ⓘ]
fullIRI	<a href="http://purl.obolibrary.org/obo/CHMO_0000823">http://purl.obolibrary.org/obo/CHMO_0000823</a> <span>copy</span>
SubClass Of	<ul style="list-style-type: none"><li>spectrum</li></ul>
Used in axiom	part of <ul style="list-style-type: none"><li>spectral window range maximum</li><li>spectral window range minimum</li></ul>
id	CHMO:0000823
source	<a href="http://purl.obolibrary.org/obo/chmo/releases/2022-04-19/chmo.owl">http://purl.obolibrary.org/obo/chmo/releases/2022-04-19/chmo.owl</a> ,

At the bottom of the detail panel, there is a 'Show Data as JSON' button.

- Ontology overview
- Tree view & navigation
- Term details list
  - Sorted by relevance
  - Term annotations
  - Logical axioms
  - Quick API access

# The NFDI4Chem Terminology Service (TS)

## Exploring Ontologies: Term Details via API



```
JSON Rohdaten Kopfzeilen
Speichern Kopieren Alle einklappen Alle ausklappen JSON durchsuchen
{
  "_embedded": {
    "terms": {
      "0": {
        "iri": "http://purl.obolibrary.org/obo/VIBSO_0000010",
        "label": "groove density setting",
        "description": {
          "0": "A setting datum that specifies the number of grooves in a diffraction g"
        },
        "annotation": {
          "contributor": {
            "0": "http://orcid.org/0000-0002-1595-3213"
          },
          "editor note": {
            "0": "This class should better be defined in a more general device ontology o"
          },
          "seeAlso": {
            "0": "https://github.com/NFDI4Chem/VibrationalSpectroscopyOntology/issues/45"
          }
        },
        "synonyms": null,
        "ontology_name": "vibso",
        "ontology_prefix": "VIBSO",
        "ontology_iri": "http://purl.obolibrary.org/obo/vibso.owl",
        "is_obsolete": false,
        "term_replaced_by": null,
        "is_defining_ontology": true
      }
    }
  }
}
```

- Ontology overview
- Tree view & navigation
- Term details list
- REST API
  - App & script integration
  - Used in
    - nmrXiv
    - Ontology Elements
    - Chemotion (WIP)

# The NFDI4Chem Terminology Service (TS)

## Exploring Ontologies: Graph View



The screenshot displays the NFDI4Chem Terminology Service (TS) interface for the Vibrational Spectroscopy Ontology (VIBSO). The page title is "Vibrational Spectroscopy Ontology (VIBSO)" with the URL <http://purl.obolibrary.org/obo/vibso.owl>. The interface includes a search bar, navigation tabs (Overview, Class Tree, Property Tree, Individuals, Class List, Notes, Github Issues), and a graph view of the ontology. The graph view shows a central node "Raman spectrum CHMO\_0000823" (red box) connected to "spectral window range minimum VIBSO\_0000016" (yellow box) and "spectral window range maximum VIBSO\_0000015" (yellow box) via "part of" relationships (yellow arrows). The "Raman spectrum CHMO\_0000823" node is also connected to "spectrum CHMO\_0000800" (green box) via an "is a" relationship (green arrow). A legend on the right side of the graph view shows the relationship colors and visibility settings. The legend includes a table with columns for "RelationshipColor" and "Visibility".

RelationshipColor	Visibility
Extended nodes (*)	-
is a	<input checked="" type="checkbox"/>
part of	<input checked="" type="checkbox"/>
Select/Deselect all	<input type="checkbox"/>

List of extended nodes (\*):

- Raman spectrum (CHMO\_0000823)

At the bottom of the graph view, there are buttons for "Create clusters", "Open all clusters", "Auto rearrange", and "Hierarchical layout", along with a "Search node" input field.

- Ontology overview
- Tree view & navigation
- Term details list
- REST API
- Graph view (WIP)
  - Visualize relations
  - Traversable Hierarchy

# The NFDI4Chem Terminology Service (TS)

## Exploring Ontologies: List View



Overview Class Tree Property Tree Individuals **Class List** Notes Github Issues

Jump to:  Result Per Page  Showing 151 - 200 of 278 Classes

Previous 4 5 6 Next

Equivalent to Example of usage See Also Contributor Comment

Label	ID	Description	Alternative Term	SubClass Of
<a href="#">image creation device</a>	OBI_0000398	An image creation device is a device which captures a digitized image of an object	image acquisition device	<ul style="list-style-type: none"><li>measurement device</li><li>device</li><li>has function some image acquisition function</li></ul>
<a href="#">objective magnification factor setting</a>	VIBSO_0000014	A setting datum that specifies the magnification factor of the objective collecting the scattered light.	N/A	<ul style="list-style-type: none"><li>setting datum</li></ul>
<a href="#">image acquisition function</a>	OBI_0000397	An image acquisition function is a function to acquire an image of a material	N/A	<ul style="list-style-type: none"><li>measure function</li><li>realized in only image creation</li><li>characteristic of some image creation device</li></ul>
<a href="#">excitation wavelength setting</a>	VIBSO_0000013	A setting datum that specifies the wavelength of an electromagnetic radiation source (e.g. a laser) which has the function to excite the energy state of a target material.	N/A	<ul style="list-style-type: none"><li>setting datum</li></ul>
<a href="#">number of measurements Z</a>	VIBSO_0000027	A setting datum that specifies how many equally configured measurements of a sample are to be performed in the vertical direction (on the Z-axis) of a certain region of interest. Together with the focal point distance, this setting defines the region of interest depth.	number of layers per acquisitionnumber of points in the Z direction	<ul style="list-style-type: none"><li>setting datum</li></ul>
<a href="#">obsolescence reason specification</a>	IAO_0000225	The reason for which a term has been deprecated. The allowed values come from an enumerated list of predefined terms. See the specification of these instances for more detailed definitions of each enumerated value.	N/A	<ul style="list-style-type: none"><li>data about an ontology part</li></ul>
<a href="#">directive information entity</a>	IAO_0000033	An information content entity whose concretizations indicate to their bearer how to realize them in a process.	N/A	<ul style="list-style-type: none"><li>information content entity</li><li>is about some realizable entity</li></ul>
<a href="#">ultraviolet Raman spectroscopy</a>	CHMO_0000680	Spectroscopy where the Raman scattering of monochromatic light, from an ultraviolet laser, by a sample is detected.	N/A	<ul style="list-style-type: none"><li>laser Raman spectroscopy</li></ul>

- Ontology overview
- Tree view & navigation
- Term details list
- REST API
- Graph view (WIP)
- List view (WIP)
  - Hideable Columns
  - ToDo sorting & filtering
  - Quicker overview of imported & native classes

# The NFDI4Chem Terminology Service (TS)

## Curating Chemical Ontologies Collaboratively



**TERMINOLOGY SERVICE**

HOME ONTOLOGIES HELP API ABOUT

Search for ontology, term, properties and individuals Search

**Login**

**Attention: Some of the features, such as term request, are only available if you authenticate with Github.**

Sign in with GitHub

Sign in with ORCID

**WHAT IS THIS ?**  
The Terminology Service is a repository for chemistry ontologies. It is a central point of access to the latest versions of these ontologies providing comprehensive information about their scope, application and curators. The ontologies have been selected by a set of **quality criteria** defining their feasibility to describe chemistry research activities and research data in an open and FAIR manner.

**HOW TO SEARCH ?**  
You can search the Terminology Service by metadata, classes and properties of the ontologies to check if and where a class, term or concept is described. You can filter the result list by several criteria. Alternatively, you can first browse first a list of ontologies and then their classes or properties using the tree view.

**NOT A HUMAN ?**  
The Terminology Service is available in particular for use by other services. Data repositories or electronic lab notebooks can use the comprehensive API of the Terminology Service to retrieve and provide ontology terms in their user interfaces enabling semantic data annotation. Please visit the comprehensive **API documentation** to find out more about the API and how to use it for your services.

- Personal account
  - GitHub or ORCID
  - Allows more features

# The NFDI4Chem Terminology Service (TS)

## Curating chemical ontologies collaboratively



The screenshot displays the NFDI4Chem Terminology Service interface. At the top, there are navigation tabs: Overview, Class Tree, Property Tree, Individuals, Class List, Notes, and Github Issues (highlighted with a red box). Below the tabs, there is a 'State' dropdown menu set to 'Open'. A list of issues is shown, including:

- [NTR] add "Raman scattering" and its subtypes according to ISO specs (New Term Request) #103 opened on 2023-08-11 by StroemPhi
- Improve axiomatization of 'groove density' and 'groove density se' #102 opened on 2023-08-11 by StroemPhi
- Consider obsoleting VIBSO\_0000000 & VIBSO\_0000001 #99 opened on 2023-08-04 by StroemPhi
- Need to import obi:laser #98 opened on 2023-08-04 by StroemPhi
- Fix missing axioms in CHMO import #97 opened on 2023-08-04 by StroemPhi
- [NTR] Add terms related to Raman spectroscopy #96 opened on 2023-08-03 by Zack-83
- Tabular template for multiple term requests #95 opened on 2023-08-03 by Zack-83
- [NTR] Add concentration and its specialization #90 opened on 2023-06-23 by StroemPhi
- [NTR] Add Absorbance maximum or Peak position #89 opened on 2023-06-22 by StroemPhi
- [NTR] Add spectral center (New Term Request) #88 opened on 2023-06-22 by StroemPhi

A detailed view of the 'Vibrational Spectroscopy Ontology (VIBSO)' is shown, including a description: 'WIP - NOT READY FOR PRODUCTION - The Vibration Spectroscopy Ontology defines technical terms with which research data produced in vibrational spectroscopy experiments can be semantically enriched, made machine readable and FAIR.' A table below shows the version information:

Version	2023-06-21
VersionIRI	http://purl.obolibrary.org/obo/vibso/releases/2023-06-21/vibso.owl

On the right side, there are 'Metrics' (Number of Classes, Number of Properties, Number of Individuals) and buttons for 'File a General Issue', 'File a Term Request', and 'Show Ontology Metdata as JSON' (the first two are highlighted with a red box).

A 'File a Term Request for vibso' dialog box is open, showing the following fields:

- Term Request Title\*: [NTR] add "raw signal"
- Content\*: A rich text editor with a toolbar (Bold, Italic, Underline, Strikethrough, Normal, Font size 16, Bulleted list, Numbered list, Indent, Outdent, Link, Unlink, Undo, Redo).
- Preferred term label: (e.g., spectral window range maximum)
- Synonyms: (e.g., acquisition band maximum)
- Textual definition: The definition should be understandable even for non-specialists. Include a DOI or URL to refer to any relevant publication that provides additional information about the suggested term.
- Suggested parent term: Please look in the hierarchy in a browser such as the NFDI4Chem TS

The dialog box has 'Close' and 'Submit' buttons at the bottom.

- GitHub integration
  - Listing issues
    - Status overview
  - Writing issues
    - From ontology overview tab
    - Recognizes templates
    - NTR template based on ODK
  - Less context switching
  - Ease external contributions
  - Tighter integration planned

# The NFDI4Chem Terminology Service (TS)

## Curating Chemical Ontologies Collaboratively



**Vibrational Spectroscopy Ontology (VIBSO)**  
http://purl.obolibrary.org/obo/vibso.owl

Overview Class Tree Property Tree Individuals Class List **Notes** Github Issues

Type All Previous 1 Next +Add New Note

Opened on Thu, 14 Sep 2023 00:00:00 GMT by StroemPhi

**Parent class for experimental setting information**

- type: class
- About: [setting datum](#)

0

Opened on Thu, 14 Sep 2023 00:00:00 GMT by StroemPhi

**Please also read VIBSO's documentation**

- type: ontology
- About: [vibso](#)

0

Opened on Thu, 14 Sep 2023 00:00:00 GMT by StroemPhi

**This class represents only the image**

- type: class
- About: [Raman spectrum](#)

1

Jump to: [input] [Reset] [Full Tree] [Show Siblings]

entity  
continguant  
generically dependent continguant  
information content entity  
data item  
**setting datum**

Detail Notes Graph View

Back to Note List

Opened on Thu, 14 Sep 2023 00:00:00 GMT by StroemPhi

**Parent class for experimental setting information**

- type: class
- About: [setting datum](#)

All the experimental parameters that are set on the devices to perform a vibrational spectroscopy assay and which are present in the form of information noted down either in an analog lab notebook or digitally in some file (e.g. laser power was set to 300mW) should be represented as a subclass of this class. Be aware that there is also the class `obi:device setting`, but this is ontologically different in that it represents the actual `PATO:quality` of a device at a certain point in time, e.g. the laser's power state of being set to 300mW on day X for the duration of Y. Both classes are related to each other but this relation has not been axiomatized in IAO or OBI. We opt for reusing `FOODON:device specification` and the pattern behind it (see this `FOODNON` issue for more context) to make this relation explicit.

**B** / **I** / **U** / **S** / Normal / 16 / [list icons] / [edit icons]

leave a comment ...

Opened on Thu, 14 Sep 2023 00:00:00 GMT by StroemPhi

**This class represents only the image**

- type: class
- About: [Raman spectrum](#)

This class represents only the image that is produced by a data transformation out of the Raman spectrum map that was obtained. We will have to file an issue to relabel this class within CHMO where it is imported from.

Related to this, although rather distantly, is the discussion around issue#28, according to which we understand even a single Raman spectrum as a Raman map.

- Notes feature
  - Ontology or term level
  - Private, logged in, public
  - Assists curation & use
  - Git alternative
  - One layered threads
  - Linkable

# The NFDI4Chem Terminology Service (TS)

## Curating Chemical Ontologies Collaboratively

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### Demo - Adding a note to CHMO:assay output

- Overlap between CHMO and IAO
  - IAO:measurement datum seems to be the same concept
    - If true, the IAO concept should rather be used and the CHMO term be dropped, as IAO coined it first
      - OBO orthogonality principle
      - There are already issues in both ontology trackers for this
  - TS as a way to do this detective work





The background features a complex pattern of overlapping, semi-transparent hexagons in various shades of teal and light blue. Scattered throughout this pattern are several teal-colored icons, including solid hexagons, outlined hexagons, and hexagons with internal circuit-like patterns. The overall aesthetic is clean, modern, and tech-oriented.

**Thank You**  
**For Your Attention**