

## 商品について

CRC Handbook Chemistry and Physics は半世紀以上に渡り最も重要な参考書の一つとして、世界中の科学者から信頼され使用され続けています。この電子版作成の際には出来る限り書籍媒体との差異がないよう工夫がなされましたが、書籍版と異なりページに限度が無い為書籍版では掲載できなかった図などもご覧いただくことが可能です。

### Step 1.

オンライン版 CRC Handbook of Chemistry and Physics ではデータへのアクセスを容易にする為、以下の 2 つのセクションからの検索が可能です。

1. キーワード / フリーワード 検索（検索項目と合致する箇所がハイライトで示されます）
2. Contents 検索（Contents / 目次から検索が可能です。各章の+ボタンクリックで更に詳細検索が可能です）



#### 1. フリーワード検索



**CRC Handbook of CHEMISTRY and PHYSICS**  
96<sup>th</sup> Edition, 2015 - 2016

Text Search  GO  
Structure/Property Search

**Welcome to the Handbook of Chemistry & Physics Online!**

Celebrating over 100 years since its first publication, the content of the 96<sup>th</sup> Edition of the CRC Handbook of Chemistry & Physics is now available online.

Use the Table of Contents on the left to explore different sections of the handbook.

Looking for tables that have been removed or relocated from earlier editions of the Handbook? Click [here](#).

**\* Structure searching!**  
Now you can search the handbook by chemical structure. Simply download intuitive Marvin JS from ChemAxon and then draw your structure query. Search over 10,000 compounds! Try Structure Searching Now >

**Table of Contents** Help Contents

- Introduction
- Section 1: Basic Constants, Units, and Conversion Factors
- Section 2: Symbols, Terminology, and Nomenclature
- Section 3: Physical Constants of Organic Compounds
- Section 4: Properties of the Elements and Inorganic Compounds
- Section 5: Thermochemistry, Electrochemistry, and Solution Chemistry
- Section 6: Fluid Properties
- Section 7: Biochemistry
- Section 8: Analytical Chemistry
- Section 9: Molecular Structure and Spectroscopy
- Section 10: Atomic, Molecular, and Optical Physics
- Section 11: Nuclear and Particle Physics
- Section 12: Properties of Solids
- Section 13: Polymer Properties
- Section 14: Geophysics, Astronomy, and Acoustics
- Section 15: Practical Laboratory Data
- Section 16: Health and Safety Information
- Section 17: Mathematical Tables
- Section 18: Sources of Physical and Chemical Data
- Section 19: Tables from Older Editions
- Section 20: Index

**2. Contents検索**

**New Tables**

- Historical Figures in Chemistry and Physics — Lord Kelvin, Michael Faraday, John Dalton, Robert Boyle
- Section 1: Basic Constants, Units, and Conversion Factors
  - Descriptive Terms for Solubility
- Section 8: Analytical Chemistry
  - Stationary Phases for Porous Layer Open Tubular Columns
  - Coolants for Cryotrapping
  - Instability of HPLC Solvents
  - Chlorine-Bromine Combination Isotope Intensities
- Section 16: Health and Safety Information
  - Materials Compatible with and Resistant to 72 Percent Perchloric Acid
  - Relative Dose Ranges from Ionizing Radiation

## Step 2.

### Interactive Table について

Interactive Table をクリックすると以下のように、テーブルが表示されます。  
どのデータをどのように表示したいかを選択することができます。

| Name        | Formula | CAS Reg. No. | Z   | Atomic Weight  | Note |
|-------------|---------|--------------|-----|----------------|------|
| Actinium    | Ac      | 7440-34-8    | 89  | [227.0277] a   |      |
| Aluminum    | Al      | 7429-90-5    | 13  | 26.981538(2)   |      |
| Americium   | Am      | 7440-35-9    | 95  | [243.0614] a   |      |
| Antimony    | Sb      | 7440-36-0    | 51  | 121.760(1) g   |      |
| Argon       | Ar      | 7440-37-1    | 18  | 39.948(1) g    |      |
| Arsenic     | As      | 7440-38-2    | 33  | 74.92160(2)    |      |
| Astatine    | At      | 7440-39-3    | 85  | [209.9871] a   |      |
| Barium      | Ba      | 7440-39-3    | 56  | 137.327(7)     |      |
| Berkelium   | Bk      | 7440-40-6    | 97  | [247.0703] a   |      |
| Beryllium   | Be      | 7440-41-7    | 4   | 9.012182(3)    |      |
| Bismuth     | Bi      | 7440-42-8    | 83  | 208.98039(2)   |      |
| Bohrium     | Bh      | 7440-43-9    | 107 | [264.12] a     |      |
| Boron       | B       | 7440-43-9    | 5   | 10.811(7) g    |      |
| Bromine     | Br      | 7440-44-0    | 35  | 79.904(1)      |      |
| Cadmium     | Cd      | 7440-45-1    | 48  | 112.411(8) g   |      |
| Caesium     | Cs      | 7440-46-2    | 55  | 132.90545(2) g |      |
| Calcium     | Ca      | 7440-47-3    | 20  | 40.078(4) g    |      |
| Californium | Cf      | 7440-48-4    | 98  | [251.0798] a   |      |
| Carbon      | C       | 7440-49-5    | 6   | 12.0107(8) g   |      |
| Cerium      | Ce      | 7440-50-6    | 58  | 140.116(1) g   |      |
| Cesium      | Cs      | 7440-51-9    | 55  | 132.90545(2) g |      |
| Chlorine    | Cl      | 7440-52-0    | 17  | 35.453(2) g    |      |
| Chromium    | Cr      | 7440-53-1    | 24  | 51.9961(6)     |      |
| Cobalt      | Co      | 7440-54-2    | 27  | 58.93319(5) g  |      |
| Copper      | Cu      | 7440-55-3    | 29  | 63.546(3) g    |      |
| Cunum       | Cm      | 7440-56-4    | 96  | [247.0703] a   |      |

またツールボックスのフィルターアイコンを使用することで、  
必要情報の抽出が可能です。



## Step 3

### 化合物構造について

各化合物の化学構造式を見ることができます。  
(注意：表示されるのは、本データベースに含まれる構造式のみです。)

アイコンをクリックすると以下のように、

構造式が別ウインドウで展開されます。

| Name                    | Synonym                                                 | Mol. Form.              | CAS Reg. No. | Structure | Boiling Point |
|-------------------------|---------------------------------------------------------|-------------------------|--------------|-----------|---------------|
| Abate                   | Tenaphos                                                | $C_{18}H_{20}O_6P_2S_2$ | 3383-96-8    |           |               |
| Abietic acid            |                                                         | $C_{19}H_{30}O_2$       | 514-10-3     |           | 226           |
| Abietic acid            |                                                         | $C_{19}H_{30}O_2$       | 21293-29-8   |           | 266           |
| Acacetin                | 5,7-Dihydroxy-2-(4-methoxyphenyl)-4H-1-benzopyran-4-one | $C_{18}H_{16}O_6$       | 480-44-4     |           | 26            |
| Acetophenone            |                                                         | $C_8H_8O$               | 98-06-0      |           | 216           |
| Acenaphthylene          | Acenaphthalene                                          | $C_{12}H_8$             | 202-04-8     |           | 36            |
| 1,2-Acenaphthylenedione |                                                         | $C_{12}H_6O_2$          | 82-06-0      |           | 75            |
| Acenecoumarol           | Necoumarol                                              | $C_{13}H_{10}O_2$       | 152-72-7     |           | 85            |
| Acetophosphate          | Phosphorodithioic acid, acetyl-, O,O'-dimethyl ester    | $C_4H_{10}O_4PS_2$      | 30560-15-1   |           |               |

## Step 4

その他の検索方法について

構造式を自分で描いて検索する方法や、性質や条件から検索することも可能です。

◆性質、条件名検索

Text Search

**\*New!** Structure/Property Search [Search Help](#)

### Chemical Properties (Hide Properties)

The properties listed below may be used as part of your query. To include additional properties, click the Add Another Property link. To remove a property, click on the X in the Delete column.

| Property          | Comparison                         | Value                |   | Boolean                              | Delete                           |
|-------------------|------------------------------------|----------------------|---|--------------------------------------|----------------------------------|
| Name of substance | Contains                           | <input type="text"/> | ? | AND <input type="button" value="v"/> | <input type="button" value="X"/> |
| Formula           | Equals                             | <input type="text"/> | ? | AND <input type="button" value="v"/> | <input type="button" value="X"/> |
| CAS Registry No.  | Equals                             | <input type="text"/> | ? | AND <input type="button" value="v"/> | <input type="button" value="X"/> |
| Molecular weight  | = <input type="button" value="v"/> | <input type="text"/> | ? | AND <input type="button" value="v"/> | <input type="button" value="X"/> |
| Subject           | Contains                           | <input type="text"/> | ? |                                      | <input type="button" value="X"/> |

[+Add Another Property](#)

Use **Chemical Structure**  **Chemical Properties**

●お問合せ先●



理工洋書専門書店 オーヴィス株式会社

**Taylor & Francis Group 特約店**

〒530-0037 大阪府大阪市北区松ヶ枝町 7-22 高橋東ビル 6 号館

TEL : 06-6352-7090 / FAX : 6-6352-8898

E-mail : [info@oviss.co.jp](mailto:info@oviss.co.jp)

CHEMnetBASE の詳しい情報はコチラ↓からご覧いただけます。

**HP :** <http://oviss.co.jp/CHEMnetBASE/>

◆構造式検索

### Structure/Property Search

You may perform a search by drawing a Chemical Structure, or by completing the Chemical Properties section. To perform a more complex search, you may combine a Chemical Structure with the parameters set in the Chemical Properties section.

### Chemical Structure (Hide Structure) **Troubleshoot Structure Search**

Click in the area below to draw a chemical structure. Once a structure has been created, click "Done" to load the query into the search form.

Click to add or edit Structure

← ここに構造式を入力します