






## COMPOUND SUMMARY

# Potassium Carbonate

PubChem CID	11430
Structure	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>2D</p> </div> <div style="text-align: center;">  <p>3D</p> </div> </div>
Chemical Safety	<div style="text-align: center;">  <p>Irritant</p> <p><a href="#">Laboratory Chemical Safety Summary (LCSS) Datasheet</a></p> </div>
Molecular Formula	<p>K<sub>2</sub>CO<sub>3</sub></p> <p>CK<sub>2</sub>O<sub>3</sub></p>
Synonyms	<p>POTASSIUM CARBONATE</p> <p>584-08-7</p> <p>Dipotassium carbonate</p> <p>Potassium carbonate, anhydrous</p> <p>Carbonate of potash</p> <p><a href="#">View More...</a></p>
Molecular Weight	<p>138.205 g/mol</p> <p><i>Computed by PubChem 2.2 (PubChem release 2021.10.14)</i></p>
Parent Compound	<div style="display: flex; align-items: center;">  <p><a href="#">CID 767 (Carbonic Acid)</a></p> </div>
Component Compounds	<div style="display: flex; align-items: center;">  <p><a href="#">CID 767 (Carbonic Acid)</a></p> </div>



## CID 5462222 (Potassium)

### Dates

Create: 2005-06-24  
Modify: 2024-07-20



### Description

Potassium carbonate is a **potassium** salt that is the **dipotassium** salt of **carbonic acid**. It has a role as a catalyst, a fertilizer and a flame retardant. It is a carbonate salt and a **potassium** salt.

▶ [ChEBI](#)

Potassium carbonate (K<sub>2</sub>CO<sub>3</sub>) is a white salt, soluble in **water** (insoluble in **ethanol**) which forms a strongly alkaline solution. It can be made as the product of **potassium hydroxide**'s absorbent reaction with **carbon dioxide**. It presents a large capacity to absorb moisture.

▶ [DrugBank](#)

See also:  [Potassium Cation](#) (has active moiety);  [Carbonate Ion](#) (has active moiety); [Bryonia alba root](#); [potassium carbonate](#) (component of) ... [View More ...](#)

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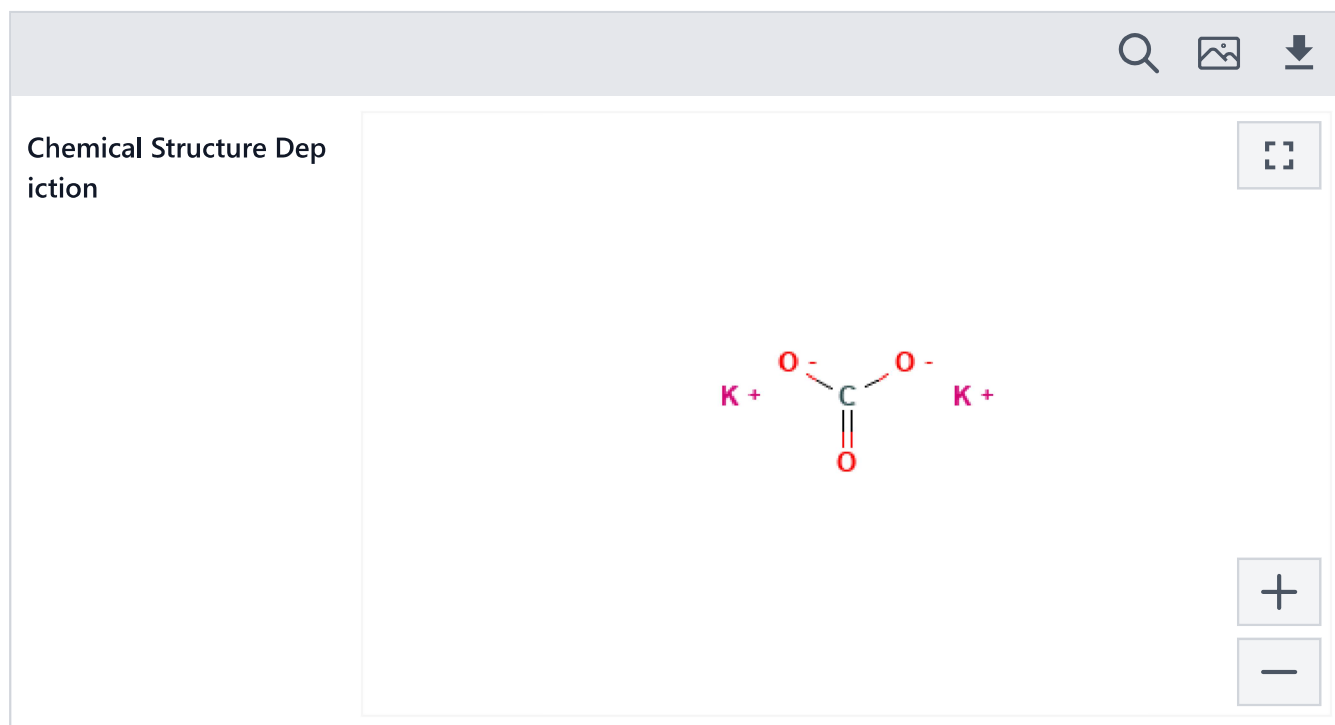
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## 1 Structures



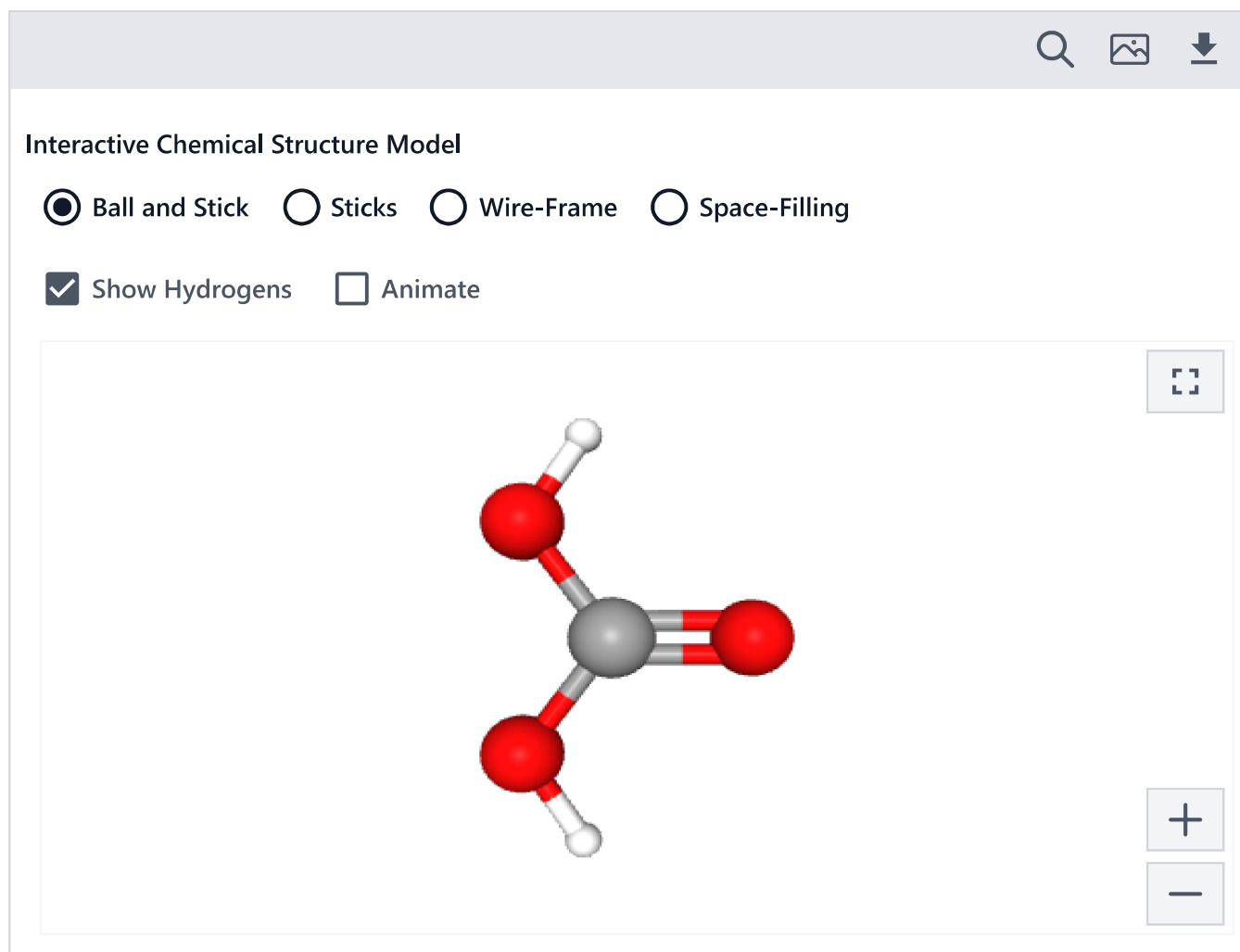
### 1.1 2D Structure

[▶ PubChem](#)

### 1.2 3D Conformer



#### 3D Conformer of Parent



► [PubChem](#)

## 2 Names and Identifiers ? ↗

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### 2.1 Computed Descriptors ? ↗

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#### 2.1.1 IUPAC Name ? ↗

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dipotassium;carbonate

*Computed by Lexichem TK 2.7.0 (PubChem release 2021.10.14)*

► [PubChem](#)

#### 2.1.2 InChI ? ↗

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InChI=1S/CH2O3.2K/c2-1(3)4;;/h(H2,2,3,4);;/q;2\*+1/p-2

*Computed by InChI 1.0.6 (PubChem release 2021.10.14)*

▶ [PubChem](#)

## 2.1.3 InChIKey



BWHMMNNQKKPAPP-UHFFFAOYSA-L

*Computed by InChI 1.0.6 (PubChem release 2021.10.14)*

▶ [PubChem](#)

## 2.1.4 Canonical SMILES



C(=O)([O-])[O-].[K+].[K+]

*Computed by OEChem 2.3.0 (PubChem release 2021.10.14)*

▶ [PubChem](#)

## 2.2 Molecular Formula



K<sub>2</sub>CO<sub>3</sub>

▶ [Australian Industrial Chemicals Introduction Scheme \(AICIS\)](#)

K<sub>2</sub>CO<sub>3</sub>

▶ [ILO-WHO International Chemical Safety Cards \(ICSCs\)](#)

CK<sub>2</sub>O<sub>3</sub>

*Computed by PubChem 2.2 (PubChem release 2021.10.14)*

▶ [PubChem](#)

## 2.3 Other Identifiers



### 2.3.1 CAS



584-08-7

▶ [Australian Industrial Chemicals Introduction Scheme \(AICIS\); ChemIDplus; DrugBank; EPA Chemic...](#)