

# **LAB Buddy User Manual / Guide**

## More about Dev and Source

LAB Buddy

About

Search:

Benzene

CAS No:

71-43-2

Molecular Formula:

C6H6

Mol. Weight:

78.11 g/mol

Density:

0.879 g/mL @ 20°C

IUPAC Name:

benzene

SMILES:

C1=CC=CC=C1

Show hazards



Flammable

Irritant

Health Hazard

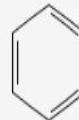
GHS Hazard Statements:

1. H225: Highly Flammable liquid and vapor [Danger Flammable liquids]
2. H304: May be fatal if swallowed and enters airways [Danger Aspiration hazard]
3. H315: Causes skin irritation [Warning Skin corrosion/irritation]
4. H319: Causes serious eye irritation [Warning Serious eye damage/eye irritation]
5. H340: May cause genetic defects [Danger Germ cell mutagenicity]

Search Button

“” = Copy to Clipboard

Shows the structure on Compound



Shows the progress

Notes:

- ✓ Mol. weight: 78.11 g/mol
  - ✓ CAS: 71-43-2
  - ✓ IUPAC Name found
  - ✓ SMILES found
  - ✓ Image loaded
  - ✓ Found GHS section
  - ✓ GHS: 3 pictogram(s)
  - ✓ Hazards: 5
  - ✓ Cached locally
- =====
- ✓ Ready to save!
- =====

Save

Open Log File ▾

MORE

LAB Buddy

Search:



Structure:



Step.1 : Find the top search box  
and enter the  
Name/IUPAC/SMILES/CAS No

CAS No:

Title:

Molecular Formula:

Mol. Weight:

Density:

IUPAC Name:

SMILES:

Primary Hazards (GHS Pictograms):

No hazard data

 Copy Image Copy Address

GHS Hazard Statements:

Notes:

✓ Cache loaded (integrity verified)

 Save Open Log File ▾ MORE

LAB Buddy

## Search:

Benz

Benzene

BENZYL BENZOATE

Benzoyl benzoate

Benzoic acid, benzyl ester

Benzylcarbinyl benzoate

Benzamidomethyl benzoate

Benzyl 4-(bromomethyl)benzoate

Benzaldehyde, 2-benzoyl-

benzohydrobenzene-11-carboxamide

## IUPAC Name:

## Structure:

Step.2 : Click it start Search



No image

## SMILES:

## Primary Hazards (GHS Pictograms):

 Copy Image Copy Address

## Notes:

✓ Cache loaded (integrity verified)

## GHS Hazard Statements:

 Save Open Log File ▾ MORE

LAB Buddy

Search:

Benzene



CAS No:

71-43-2

Title:

Benzene



Molecular Formula:

C6H6

Mol. Weight:

78.11 g/mol

Density:

0.879 g/mL @ 20 °C



IUPAC Name:

benzene



SMILES:

C1=CC=CC=C1



## Primary Hazards (GHS Pictograms):



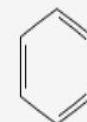
Flammable



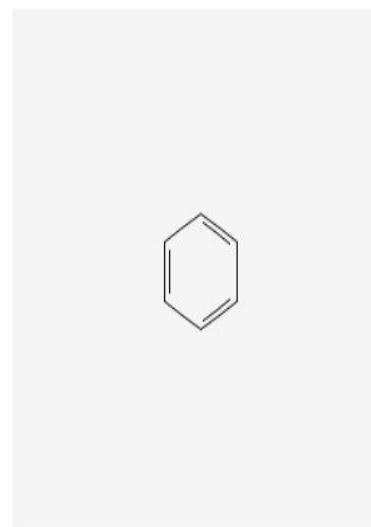
Irritant



Health Hazard



Structure:

 Copy Image Copy Adress

Notes:

Inhalation: 78.11 g/mol  
✓ CAS: 71-43-2

## GHS Hazard Statements:

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5. H340: May cause genetic defects [Danger Germ cell mutagenicity]

Step.3: Click the Open Log File

 Save Open Log File ▾ MORE

✓ Ready to save!

LAB Buddy

CAS NO:

71-43-2

Name:

Benzene

Molecular Formula:

C<sub>6</sub>H<sub>6</sub>

Mol. Weight:

78.11 g/mol

Density:

0.879 g/mL @ 20 °C

IUPAC Name:

benzene

SMILES:

C1=CC=CC=C1

## Primary Hazards (GHS Pictograms):



Flammable



Irritant



Health Hazard

## GHS Hazard Statements:

 Copy Image Copy Address

Step.4.B: Click on Load to select  
The existing excel file to update or  
store new Compound/s

Step.4.A: Click on Create New excel  
for to store Compound in RMC format

Data sourced from PubChem (NIH).

Excel File

No file selected

 Load Existing Excel Create New Excel

✓ Cached locally  
=====

✓ Ready to save!  
=====

LAB Buddy

CAS NO:

71-43-2

Title:

Benzene

Molecular Formula:

C6H6

Mol. Weight:

78.11 g/mol

Density:

0.879 g/mL @ 20 °C

Structure:

IUPAC Name:

benzene

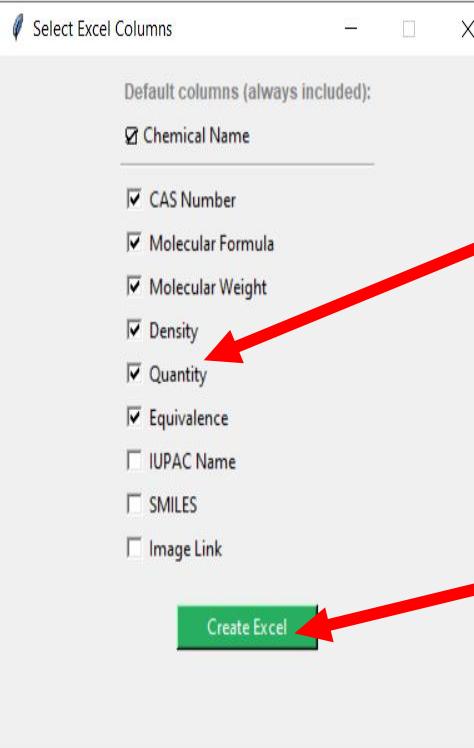
SMILES:

C1=CC=CC=C1

Primary Hazards (GHS P)

GHS Hazard Statements:

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2. H304: May be fatal if swallow
3. H315: Causes skin irritation
4. H319: Causes serious eye i
5. H340: May cause genetic de



Step.4.A.2: Select the Coloumn as needed

Step.4.A.3: Once Coloumn have been selected click on “Create Excel” to generate excel

Save

Open Log File ▾

MORE

Data sourced from PubChem (NIH).

Excel File

No file selected

Load Existing Excel

Create New Excel

Cached locally  
=====

Ready to save!  
=====

LAB Buddy

# Disclaimer & Scope

- LAB Buddy is an **independently developed laboratory utility**, created and maintained by a single developer to assist with **chemical reference lookup and record-keeping**.
- While every effort is made to ensure accuracy and reliability, LAB Buddy:
- Is **not a substitute** for official safety data sheets (SDS), regulatory documentation, or institutional SOPs
- Should be used as a **supporting reference tool**, not as the sole basis for safety or compliance decisions
- All chemical data displayed is sourced from **PubChem (NIH)** and is presented as provided by the source.
- As an independently maintained project:
- Updates and improvements are released incrementally
- Feedback and issue reports are welcome and appreciated
- Some edge cases or rare compounds may not be fully supported
- By using LAB Buddy, users acknowledge that it is a **best-effort informational tool**, intended to improve workflow convenience in laboratory environments.