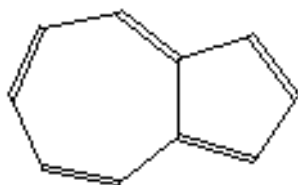


# Azulene

- **Formula:** C<sub>10</sub>H<sub>8</sub>
- **Molecular weight:** 128.17
- **IUPAC International Chemical Identifier:**
  - InChI=1/C10H8/c1-2-5-9-7-4-8-10(9)6-3-1/h1-8H
  - [Download the identifier in a file.](#)
- **CAS Registry Number:** 275-51-4
- **Chemical structure:**



This structure is also available as a [2d Mol file](#) or as a [computed 3d Mol file](#).

- **Other names:** Bicyclo[5.3.0]decapentaene; Cyclopentacycloheptene; Azunamic; Bicyclo(5.3.0)-1,3,5,7,9-decapentaene; Bicyclo(0.3.5)deca-1,3,5,7,9-pentaene; BICYCLO(5.3.0)-DECA-2,4,6,8,10-PENTAENE; Azusalen [as sodium sulfonate]
- **Information on this page:**
  - [UV/Visible Spectrum](#)
  - [References](#)
  - [Notes / Error Report](#)
- **Other data available:**
  - [Gas phase thermochemistry data](#)
  - [Condensed phase thermochemistry data](#)
  - [Phase change data](#)
  - [Reaction thermochemistry data](#)
  - [Gas phase ion energetics data](#)
  - [Ion clustering data](#)
  - [IR Spectrum](#)
  - [Mass Spectrum](#)
  - [Gas Chromatography](#)
- **Data at other NIST sites:**
  - [Microwave spectra \(on physics lab web site\)](#)
  - [Gas phase kinetics \(on kinetics web site\)](#)
- **Options:**

- [Switch to calorie-based units](#)

## UV/Visible Spectrum

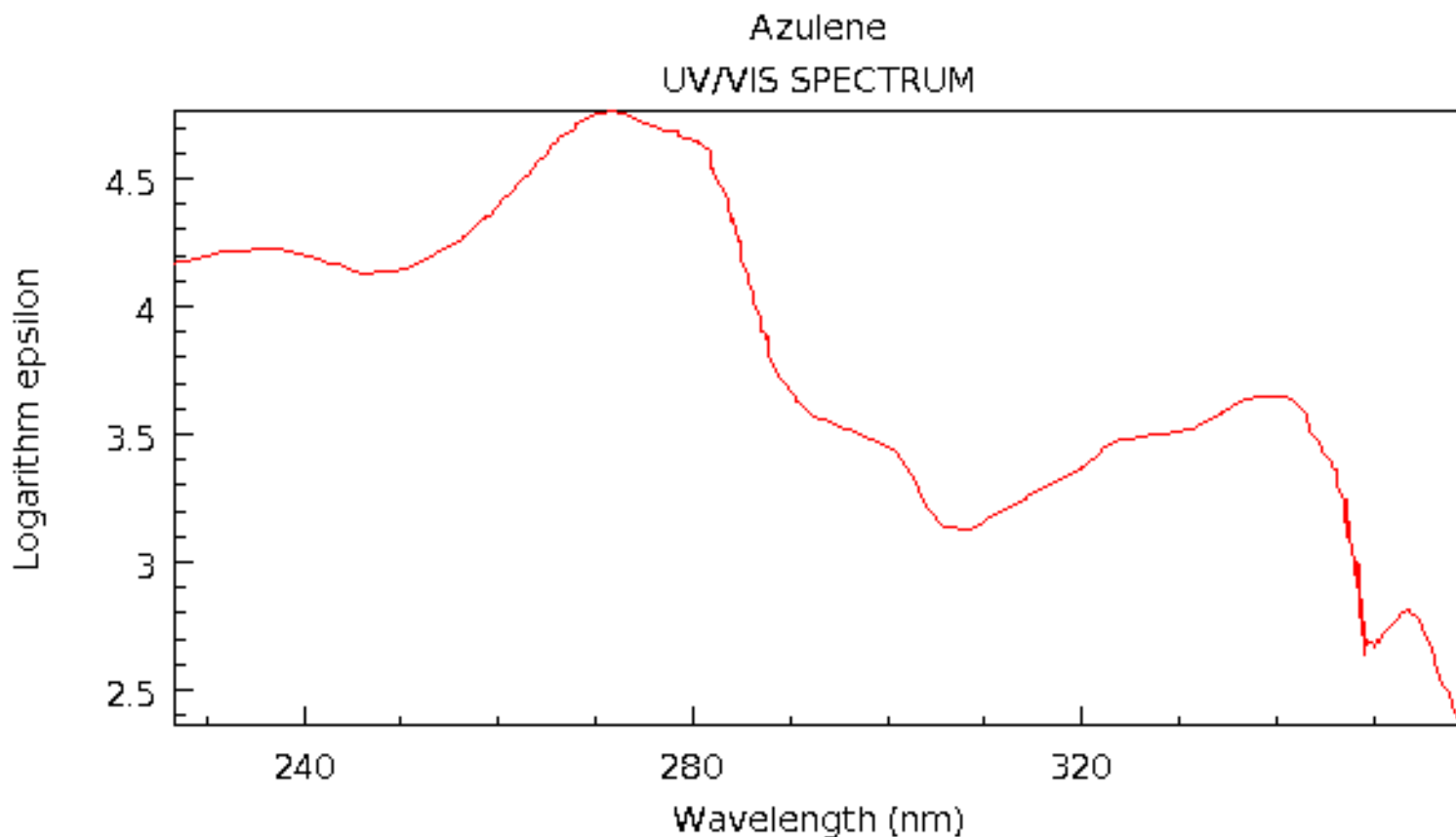
Go To: [Top](#), [References](#), [Notes](#) / [Error Report](#)

Data compilation [copyright](#) by the U.S. Secretary of Commerce on behalf of the U.S.A. All rights reserved.

Data compiled by: [V. Talrose](#), [E.B. Stern](#), [A.A. Goncharova](#), [N.A. Messineva](#), [N.V. Trusova](#), [M.V. Efimkina](#)

## Spectrum

**Notice:** This spectrum may be better viewed with a Java capable browser.



NIST Chemistry WebBook (<http://webbook.nist.gov/chemistry>)

**For Zoom**

- 1.) Enter the desired X axis range (e.g., 100 , 200)
- 2.) Check here for automatic Y scaling
- 3.) Press here to zoom

## Additional Data

View [image of digitized spectrum](#) (can be printed in landscape orientation).

Download (or view) [spectrum image in SVG format](#).

Download [spectrum](#) in JCAMP-DX format.

<b>Source</b>	<a href="#">Nozoe, Seto, et al., 1962</a>
<b>Owner</b>	INEP CP RAS, NIST OSRD Collection (C) 2004 copyright by the U.S. Secretary of Commerce on behalf of the United States of America. All rights reserved.
<b>Origin</b>	INSTITUTE OF ENERGY PROBLEMS OF CHEMICAL PHYSICS, RAS
<b>Source reference</b>	RAS UV No. 3172
<b>Instrument</b>	n.i.g.
<b>Melting point</b>	99
<b>Boiling point</b>	270; 125(10)

---

## References

**Go To:** [Top](#), [UV/Visible Spectrum](#), [Notes / Error Report](#)

**Data compilation [copyright](#) by the U.S. Secretary of Commerce on behalf of the U.S.A. All rights reserved.**

**Nozoe, Seto, et al., 1962**

[Nozoe, T.](#); [Seto, S.](#); [Matsumura, S.](#); [Murase, Y.](#), *The synthesis of azulene derivatives from troponoids*, **Bull. Chem. Soc. Jpn.**, 1962, 35, 7, 1179-1188. [[all data](#)]

---

# Notes / Error Report

Go To: [Top](#), [UV/Visible Spectrum](#), [References](#)

- Data from NIST Standard Reference Database 69, June 2005 Release: *NIST Chemistry WebBook*
- The National Institute of Standards and Technology (NIST) uses its best efforts to deliver a high quality copy of the Database and to verify that the data contained therein have been selected on the basis of sound scientific judgment. However, NIST makes no warranties to that effect, and NIST shall not be liable for any damage that may result from errors or omissions in the Database.
- If you believe that this page may contain an error, please fill out the [error report form](#) for this page.

---

© 1991, 1994, 1996, 1997, 1998, 1999, 2000, 2001, 2003, 2005 copyright by the U.S. Secretary of Commerce on behalf of the United States of America. All rights reserved.

---

**NIST**

National Institute of Standards and Technology

[Standard Reference  
Data Program](#)

[Data  
Gateway](#)

[Online  
Databases](#)

[Chemistry  
WebBook](#)

---

If you have comments or questions about this site, please [contact us](#).