

# P4909: PROBING AZULENE-WATER INTERACTIONS & AZULENE AGGREGATION BY BROADBAND ROTATIONAL SPECTROSCOPY

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## Azulene:

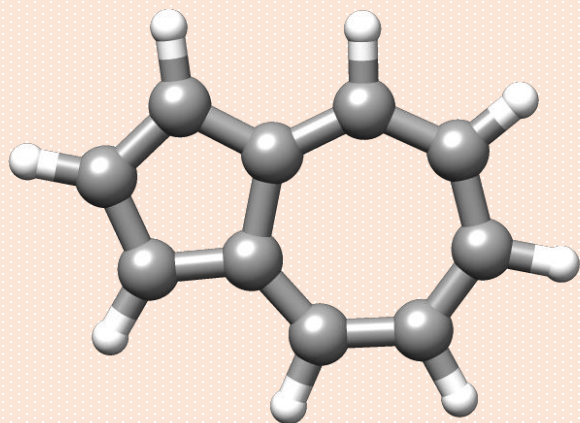
One of the simplest PAHs and Model for the interactions of polar aromatic complexes.

### Applications:

Interstellar Ices  
Proteins & Crystal Structures  
Drug Design



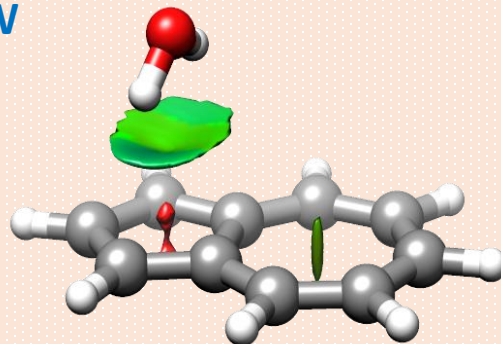
Interactions of water molecules around Azulene and Azulene aggregation?



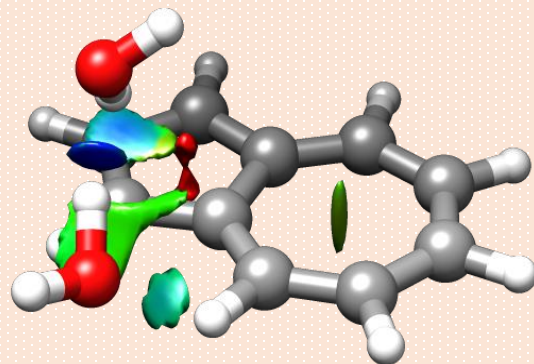
## Azulene-water

➤ The spectra of **Azulene-H<sub>2</sub>O** and **Azulene-(H<sub>2</sub>O)<sub>2</sub>** has been **assigned**.

1W



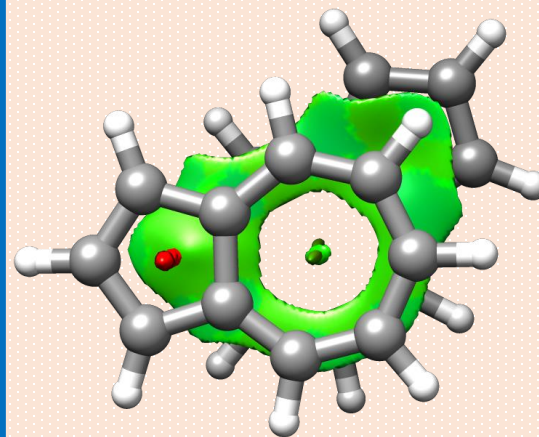
2W



## Azulene Dimer

**Stacked, rotated configuration**

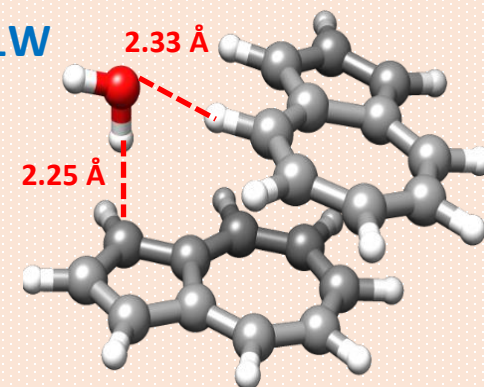
Dispersion forces between the  $\pi$  electronic densities are predominant.



## Azulenedimer-water

➤ The spectra of **(Azulene)<sub>2</sub>-(H<sub>2</sub>O)<sub>1,2</sub>** has been **assigned**.

1W



2W

