



AMERICAN CHEMICAL SOCIETY

# Climate Science Initiative



When conversation turns to global climate change, are you comfortable with the basic science? As part of the ACS Climate Science Initiative, the ACS Climate Science Toolkit gathers the fundamentals of the science in one website, with resources to help you better communicate with others about this vital topic. Learn more, explore:

[www.acs.org/climatescience](http://www.acs.org/climatescience)

*The toolkit provides background for explaining the answer to a question like this:*

**Which gas is responsible for the largest fraction of the atmospheric greenhouse warming effect?**

- |                |                   |
|----------------|-------------------|
| A. methane     | B. ozone          |
| C. water vapor | D. carbon dioxide |

TURN OVER FOR MORE DETAILS, IDEAS, AND TO CHECK THE ANSWER TO THE QUESTION.

**The ACS Climate Science Toolkit contains tools to better understand and communicate climate science. The Toolkit is maintained by the ACS Committee on Environmental Improvement.**

TOPICS INCLUDE:

**Energy Balance and Planetary Temperature  
How Atmospheric Warming Works  
Greenhouse Gases  
Oceans, Ice and Rock**



**Climate change is a global issue, but individual choices make a difference:**

- **using more efficient lights and appliances**
- **using more public transportation**
- **driving low emission vehicles**
- **teleconferencing more and traveling less**
- **consuming less, reusing more, and recycling as much as possible**
- **supporting efforts to mitigate the undesired consequences of climate change and encouraging governmental representatives to do the same**

**Individual actions may have small effects, but inaction has zero effect.**

ANSWER: C. WATER VAPOR