

EPA SECTION 608 CORE (2022 revision)

What does ozone in the stratosphere above the earth consist of?

- a. Molecules containing 2 oxygen atoms.
- b. Molecules containing 3 oxygen atoms.
- c. Molecules containing 4 oxygen atoms.
- d. Molecules containing 5 oxygen atoms - **b. Molecules containing 3 oxygen atoms.**

Which of the following refrigerants has the lowest global warming potential?

- a. R-134a
- b. R-407C
- c. R-410A
- d. R-600a - **d. R-600a**

Which of the following gases is used as the baseline measurement for global warming potential?

- a. Ammonia
- b. Carbon Dioxide
- c. CFC-12
- d. Propane - **b. Carbon Dioxide**

Which type of refrigerant typically has the lowest global warming potential?

- a. HCFCs
- b. HFOs
- c. HFCs
- d. All are equal - **b. HFOs**

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What is the state of refrigerant entering the compressor of a refrigeration system?

- a. Low pressure subcooled liquid
- b. Low pressure superheated vapor
- c. High pressure subcooled liquid
- d. High pressure subcooled vapor - **b. Low pressure superheated vapor**

How does the global warming potential of R-410A compare to that of carbon dioxide?

- a. It is lower.
- b. They are equal.
- c. It is hundreds of times greater.
- d. It is thousands of times greater. - **d. It is thousands of times greater.**

How do the global warming potentials of isobutane (R-600a), propane (R-290), and R-441A compare to the GWPs of HFC-134a, R404A, and R-410A?

- a. They are significantly higher.
- b. They are significantly lower.
- c. They are approximately equal
- d. They are slightly higher. - **b. They are significantly lower.**

What are the characteristics of hydrofluoroolefins (HFOs)?

- a. Non-ozone depleting and have high global warming potentials.
- b. Non-ozone depleting and have low global warming potentials.
- c. Ozone depleting and have high global warming potentials.
- d. Ozone depleting and have low global warming potentials. - **b. Non-ozone depleting and have low global warming potentials.**

Why are HFO refrigerants less flammable than hydrocarbon refrigerants?

- a. They contain chlorine.
- b. They contain bromine.
- c. They contain fluorine.
- d. They contain carbon. - **c. They contain fluorine.**

Which of the following refrigerants is an HFO?

- a. R-1234yf
- b. R-123
- c. R-134a
- d. All three are HFOs - **a. R-1234yf**

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What characteristics of HFC refrigerants make them damaging to the environment?

- a. They are toxic to plants and animals at low doses.
- b. They contain chlorine which damages the ozone layer.
- c. They have high Ozone Depletion Potential (ODP)
- d. They can have very high global warming potentials. - **d. They can have very high global warming potentials.**

Why are some of the hydrofluoroolefins classified as A2L?

- a. They have toxicity characteristics.
- b. They are less flammable than hydrocarbon refrigerants, but most are still mildly flammable.
- c. They are prohibited for use in the U.S.
- d. They have ozone depleting potentials and have low global warming potentials. - **b. They are less flammable than hydrocarbon refrigerants, but most are still mildly flammable.**

How many ozone molecules can each chlorine atom in the stratosphere destroy?

- a. 1,000 molecules
- b. 100,000 molecules
- c. 100,000,000 molecules
- d. None. Chlorine is not the element in refrigerant that harms ozone. - b. 100,000 molecules

An example of a CFC refrigerant is:

- a. R-134a
- b. R-123
- c. R-22
- d. R-12 - d. R-12

Which of the following is a HFC refrigerant?

- a. R-134a
- b. R-115
- c. R-22
- d. R-11 - a. R-134a

Which of the following is a high-pressure refrigerant under EPA's section 608 regulations?

- a. R-410A
- b. R-113
- c. R-123
- d. R-11 - a. R-410A

Which of these gases help form the earth's protective shield?

- a. Methane
- b. Radon
- c. Stratospheric Ozone
- d. Carbon Dioxide - c. Stratospheric Ozone

HCFC refrigerants contain which of the following?

- a. Helium, Carbon, Fluorine, & Chlorine
- b. Hydrogen, Chlorine, Ferrite, & Carbon
- c. Hydrogen, Chlorine, Fluorine, & Carbon
- d. Hydrogen, Chlorine, Fluorine, & Calcium - c. Hydrogen, Chlorine, Fluorine, & Carbon

Which of the following refrigerants damages stratospheric ozone?

- a. HFOs
- b. HFCs
- c. HCFCs
- d. Ammonia - c. HCFCs

What is the strongest evidence that HCFCs are in the stratosphere?