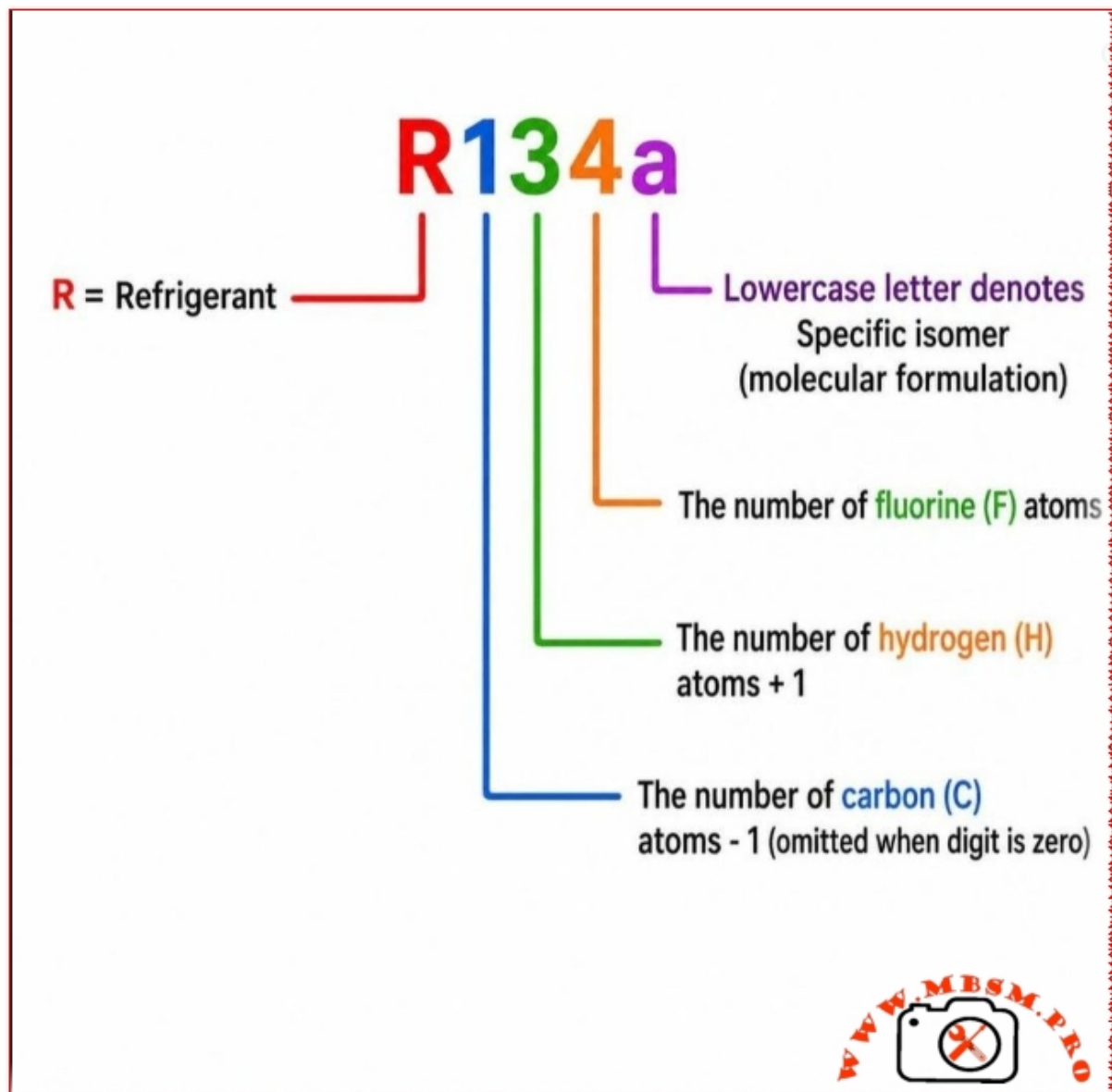


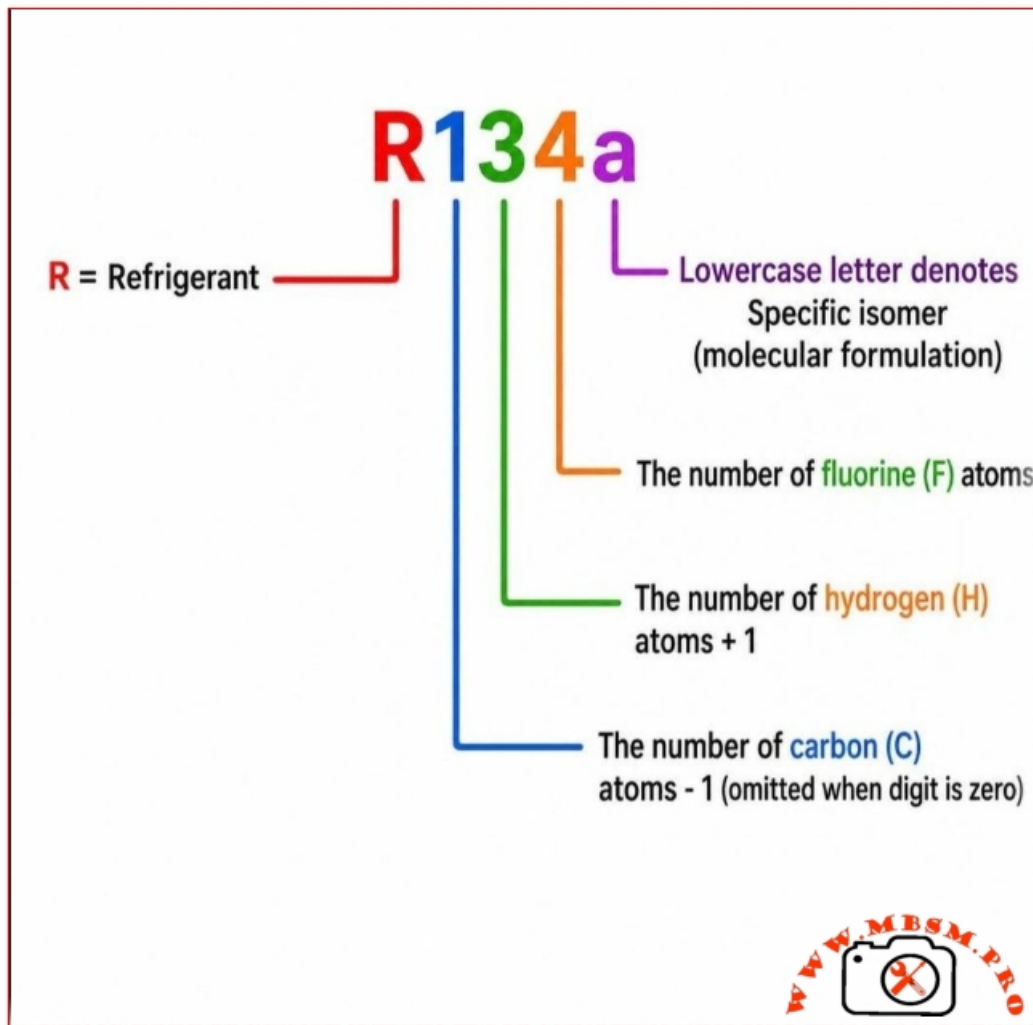
Details of refrigerant R134a

Site: Mbsmpro

Date: May 24, 2026 | **Author:** www.mbsmpro.com

URL: <https://mbsmpro.com/details-of-refrigerant-r134a/>





How to decode “R134a” like a pro

The number isn't random. It follows a simple system called the **Ashrae refrigeration numbering scheme**.

Here's the formula hidden in the image:

R = Refrigerant

Then the digits mean:

- **First digit** = Number of carbon (C) atoms - 1
- **Second digit** = Number of hydrogen (H) atoms + 1

- **Third digit** = Number of fluorine (F) atoms
 - **Lowercase letter** (like “a”) = Specific isomer (same atoms, different arrangement)
-

Let's test it on R134a

Break it down:

- **R** = Refrigerant
- **1** = Carbon atoms? → Number is 1, so carbon atoms = $1 + 1 = 2$
carbon atoms (C₂)
- **3** = Hydrogen atoms? → Number is 3, so hydrogen atoms = $3 - 1 = 2$
hydrogen atoms (H₂)
- **4** = Fluorine atoms → That's just **4 fluorine atoms** (F₄)
- **a** = One specific molecular arrangement (isomer)

So **R134a** = **C₂H₂F₄** (1,1,1,2-tetrafluoroethane)

Check:

Carbon = 2

Hydrogen = 2

Fluorine = 4

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