



## R134a

R134a is a HFC, used in automotive air conditioning and as a replacement for R12 and R22 in medium and high-temperature refrigeration applications, such as commercial and domestic refrigeration and chillers.

<b>Chemical Formula</b>	C <sub>2</sub> H <sub>2</sub> F <sub>4</sub>
<b>CAS no.</b>	811-97-2
<b>UN no.</b>	3159
<b>ASHRAE Safety Class.</b>	A1
<b>Purity</b>	99.5%

## Hazard Classification



Class 2.2  
Non-Flammable,  
Pressurized,  
Liquified Gas

## Applications



Commercial  
Refrigeration



Industrial  
Refrigeration



Transport  
Refrigeration

## GWP (Global Warming Potential) & ODP (Ozone-Depleting Potential)



**GWP**

1430



**ODP**

Non-Ozone Depleting

### Physical Properties

Appearance	Colourless liquefied gas
Odour	Slightly Ethereal
Boiling Point (°C)	-26.074
Vapour Pressure (kPa_abs)	571.71
Vapour Density (Air = 1)	23.08 @ 20 °C
Relative Density (Water =1)	1.23 @ 20 °C
Auto-Ignition Temperature (°C)	743
Molecular weight (g/mol)	102.03

### Packaging Available in

Aerosol	✓
Disposable Cylinder	✓
Returnable Cylinder	✓

### Compatible Oils

Polyolester  
Polyalkylene-Glycol

### Precautions

Read label before use.

Asphyxiant; avoid confined spaces

Liquefied gas can cause frostbite

Gas is under pressure

Release of gas into the atmosphere could harm the environment