



R507

R507 is a HFC blend, used as a replacement for R502 and R22 in low and medium-temperature refrigeration. With a Global Warming Potential (GWP) of 3985, R507 is under similar scrutiny to R404A.

Chemical Formula

CHF_2CF_3 , CH_3CF_3

CAS no.

- | | |
|-----|-------------------------|
| 50% | • R125 354-33-6 |
| 50% | • R143a 420-46-2 |

UN no.

3163

ASHRAE Safety Class.

A1

Purity

99.5%

Hazard Classification



Class 2.2
Non-Flammable,
Pressurized,
Liquified Gas

Applications



Commercial
Refrigeration



Transport
Refrigeration



Industrial
Refrigeration

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



GWP

3 985



ODP

Non-Ozone Depleting

Physical Properties

Appearance	Clear liquefied gas
Odour	Slight ethereal odour
Boiling Point (°C)	-46.74
Vapour Pressure (kPa_abs)	1120.9 @ 20 °C
Vapour Density (Air = 1)	49.37 @ 20 °C
Relative Density (Water =1)	1.07 @ 20 °C
Auto-Ignition Temperature (°C)	Not Available
Molecular weight (g/mol)	98.859

Packaging Available in

Disposable Cylinder	✓
Returnable Cylinder	✓

Compatible Oils

Polyolester

Precautions

Read label before use.

Asphyxiant; avoid confined spaces

Liquified gas can cause frostbite

Gas is under pressure

Release of gas into the atmosphere could harm the environment