



RS-44 (R424A)

COMPOSITION	%
HFC 134a	47
HFC 125	50.5
iso-pentane	0.6
n-butane	1
Isobutane	0.9
Chemical name	1,1,1,2-tetrafluoroethane/ pentafluoroethane/ iso-pentane n-butane
Type	HFC blend
HCFC replacement	R22
Temperature glide	Approximately 3°C
Drop-in or long term	Both
Lubricant	MO/AB/POE
ODP	Zero
Atmospheric lifetime	23 years
GWP 100 year ITH	2440

RS-44: PHYSICAL PROPERTIES

		RS-44	R22
Molecular weight		108.1	86.5
Boiling point (1 atm)	°C	-38.7 ⁽¹⁾	-40.8
	°F	-37.6 ⁽¹⁾	-41.4
Critical temperature	°C	88.8	96.1
	°F	191.8	204.8
Critical pressure	bara	40.4	49.9
	psia	586	724
Liquid density at 25°C	kg/m ³	1169	1191
Density of saturated vapour at 25°C	kg/m ³	43.6	44.2
Specific heat of liquid at 25°C	kJ/kg°C	1.43	1.26
Specific heat of vapour at 1 atm & 25°C	kJ/kg°C		
Vapour pressure at 25°C	bara	9.67 ⁽¹⁾	10.4
	psia	140.2 ⁽¹⁾	151
Latent heat of vaporisation at boiling point	kJ/kg	196 ⁽¹⁾	234
Ozone Depletion Potential	ODP	0	.055
Flammability limit in air (1 atm)	vol%	None	None
Inhalation exposure (8 hr day & 40 hr week)	ppm	1000	1000

(1) Bubble point