R134a Refrigerant – Klea® 134a

Widely accepted as the most appropriate alternative for R-12 over the majority of the application range for both retrofit and new equipment. A very good match to R-12 for air conditioning, high and medium temperature usage. It can be used in hybrid cascade systems for supermarkets and is being used in some of the HFO blends in order to bring lower flammability and better efficiency.

Please note that not all products are available in all markets.

Property	S.I. Units	Value	British Units	Value
Molecular Weight	kg/kmol	102.03	lbm/lbmol	102.03
Critical Temperature	°C	101.06	°F	213.91
Critical Pressure	bara	40.59	psia	588.75
Critical Density	kg/m^3	511.90	lb/ft^3	31.96
Normal Boiling Point	°C	-26.074	°F	-14.933
Latent Heat of Vapourisation at Atmospheric Pressure	kJ/kg	216.97	BTU_{IT}/lb	93.28
Saturated Vapour Density at Atmospheric Pressure	kg/m^3	5.2581	lb/ft^3	0.33
Liquid Vapour Pressure @25°C	bara	6.6538	psia	96.51
Coefficient of Volumetric Thermal Expansion for Saturated Liquid at 25°C	$°C^{-1}$	0.0032364	$°F^{-1}$	0.00180
Speed of Sound* for Saturated Vapour at 25°C	m/s	144.26	ft/s	473.29
Adiabatic Exponent* for Saturated Vapour at 25°C		1.23		1.23
Latent Heat of Vapourisation at 25°C	kJ/kg	177.780	BTU_{IT}/lb	76.43
Saturated Vapour Density at 25°C	kg/m^3	32.350	lb/ft^3	2.020
Saturated Vapour Density at 0°C	kg/m^3	14.428	lb/ft^3	0.901