



ColdAir^{Srl}

Specialisti in gas refrigeranti

HFC134a

NAME: HFC134a (R134a)

TYPE: 1,1,1,2 Tetrafluoroethane

CHEMICAL FORMULA: C₂H₂F₄

TYPICAL USE: REFRIGERANT GAS, PROPELLENT GAS,
AGENT FOAM GAS only for Extra CE

TYPICAL PROPERTIES: (in according to AHRI 700 - 2017 standard)

PURITY	> 99,5	% wt min. (typical value 99,9%)
MOISTURE	< 10	ppm
ACIDITY (as Hcl)	< 1	ppm
EVAPORATION RESIDUE	< 10	ppm
UNCONDENSABLE GASES	< 1,5	% Vol

CHEMICAL - PHYSICAL PROPERTIES:

Molecular Weight	102	
Boiling Point at 1013 mbar	-26,2	°C
Freezing Point	-101	°C
Critical temperature	101,1	°C
Critical Pressure	40,67	Bar
Critical density	0,51	Kg/l
Liquid density at 25° C	1,206	Kg/l
Liquid density at 0° C	1,293	Kg/l
Vapour density at 25° C	32,25	Kg/m ³
Vapour density at 0° C	14,41	Kg/m ³
Vapour pressure at 0°C	2,9	Bar
Vapour pressure at 20°C	5,7	Bar
Vapour pressure at 50°C	13,2	Bar
Thermal conductivity vapour at 25° C - 1 bar	0,0131	W/m°K
Water solubility (134a in Water)	0,15	%
Water solubility (Water in 134a)	0,1	%
Flammability	none	
GWP	1430	
ODP	0	
ADR/RID	2.2	
UN NUMBER	3159	
CAS	811-97-2	
EINECS	212-377-0	
ASHRAE	A1	

Date: 11/2019 - Rev. 2