



R-134a Tetrafluoroethane

Also known as: 1,1,1,2-tetrafluoroethane, HFC-134a, Freon 134a, SUVA-134a Genetron-134a, Forane-134a KLEA-134a

Freon is a registered trade name for E. I. DuPont. Genetron is a registered trade name for Allied Signal Corporation. Forane is a registered trade name for Elf Atochem. Klea is a registered trade name for ICI Americas

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General Information

Chemical Formula	CAS Registry #	Color & Odor	Refrigerant Applications
CH ₂ FCF ₃	811-97-2	Colorless Pressurized liquid with slight ether like odor	Medium temperature refrigeration and air conditioning, replacement for R-12

Physical Data

Molecular Mass	Boiling Point C°	Boiling Point F°	Critical Temperature C°	Critical Temperature F°	Critical Pressure MPa	Critical Pressure psia
102.03	-26.1	-15.0	101.1	214.0	4.06	589

Toxicity & Global Warming Data

TLV-TWA	Years of Atmospheric Lifetime	Ozone Depletion Potential	Global Warming Potential
1,000	13.6	0.000	1600

Packaging Information

Packaged in	Volumes available in pounds	Color of Container
Pressurized cylinders	30, 125, 875, 1,750,	Light Sky Blue

Shipping Information

DOT Shipping Name	Hazard Class	UN/NA Number	Packing Group	Labels Required
1,1,1,2-Tetrafluoroethane	2.2	NU3159		nonflammable gas

ARI 700 Reclaim Standards

Isomer Content by weight	Air and other non-condensables % by volume @ 25°C	Water in ppm by weight	All other impurities including refrigerants as % by weight	Oil and other high boiling residues as % by volume	Particulates/solids visually clean to pass	Acidity as ppm by weight	Chloride (pass/fail is 3 ppm)
0-5,000ppm R-134	1.5	10	0.50	0.01	pass	1.0	pass

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