



## R227ea

**NAME:** HFC 227

**TYPE:** 1,1,1,2,3,3,3 - Heptafluoropropane

**CHEMICAL FORMULA:** CF<sub>3</sub>CHF<sub>2</sub>CF<sub>3</sub>

**TYPICAL USE:** REFRIGERANT GAS

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

PURITY	> 99,5	% wt
MOISTURE	< 10	ppm
ACIDITY (as HCL)	< 1	ppm
CHLORIDES	< 3	ppm
EVAPORATION RESIDUE	< 100	ppm
UNCONDENSABLE GASES	< 1,5	% Vol

### **CHEMICAL - PHYSICAL PROPERTIES:**

Color	Colorless
Smell	Odorless
Molecular Weight	170,03 g/mol
Melting point	- 127 °C
Boiling Point at 101,3 kPa	-15,61 °C
Critical temperature	101,74 °C
Critical Pressure	29,3 Bar
Critical density	584 Kg/m <sup>3</sup>
Vapor Pressure at 20°C (a)	3,895 Bar
Specific heat of liquid at 25 °C	1,176 kJ/(Kg.K)
Specific heat of vapour at 1,013 bar	0,81 kJ/(Kg.K)
Flammability	none
GWP	3220
ODP	0
ADR/RID	2.2
UN NUMBER	3296
ASHRAE	A1

**Date: 11/2019 - Rev. 1**