



TECHNICAL DATA SHEET

R-227ea

Components

| Chemical Name | Chemical Formula | %By weight | CAS No | EC No |
|--|--------------------------------|------------|----------|-----------|
| 1,1,1,2,3,3,3-Heptafluoropropane (R-227ea) | C ₃ HF ₇ | %100 | 431-89-0 | 207-079-2 |

Physical and chemical properties

At normal temperature and pressure, R-227ea is a colourless gas.

| | |
|--|--------------------------|
| Physical state..... | Gas |
| Form..... | Compressed liquefied gas |
| Molecular Weight (g/mol)..... | 170.03 |
| Boiling Point (°C) | -17.3 |
| Melting Point (°C) | -127.1 |
| Liquid Density at 25°C, (g/cm ³) | 1.394 |
| Solubility in water 25°C (mg/L) | 108 |
| Liquid Viscosity 25°C, (mPa.s) | 0.184 |
| Flammability (solid, gas)..... | None |
| Critical Temperature, °C..... | 139.25 |
| Critical Pressure, MPa..... | 3.42 |
| Critical Density, kg/m ³ | 584 |
| ODP..... | 0 |
| GWP..... | 3220* |

Commercial Specifications (ISO9002)

| | |
|---------------------------------------|------|
| Purity, %, min..... | 99.5 |
| Moisture content, ppm by weight. | 10 |
| Acid Value, ppm by weight..... | 0.1 |
| Residue, mg.kg..... | 100 |

*The regulation on fluorinated greenhouse gases of EU 517-2014 has been taken considered.