

HFC 152a

NAME: HFC152a

TYPE: 1,1 - Difluoroethane - HFC 152a - R152a

CHEMICAL FORMULA: CH₃CHF₂

TYPICAL USE: BLOWING AGENT - AEROSOL PROPELLANT - REFRIGERANT GAS

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

| | | |
|---------------------|--------|------|
| Purity | > 99,5 | % wt |
| Moisture | < 10 | ppm |
| Acidity | < 1 | ppm |
| Residues | < 100 | ppm |
| Non condensable gas | < 1,5 | % |

CHEMICAL - PHYSICAL PROPERTIES:

| | | |
|---|-----------|---------------------|
| Molecular weight | 66 | kg/kmol |
| Boiling point at 1.013 bar | -24,7 | °C |
| Relative Vapour Pressure at 20°C | 4,13 | bar |
| Relative Vapour Pressure at 50°C | 10,77 | bar |
| Critical temperature | 113.5 | °C |
| Critical pressure | 45 | bar |
| Critical densit | 0.365 | kg.dm ⁻³ |
| Viscosity of saturated liquid at 25° | 0.160 | mPas |
| Viscosity of saturated vapor at 25° | 0.0103 | mPas |
| Thermal conductivity of saturated liquid at 25° | 0.105 | W/(mK) |
| Thermal conductivity of saturated vapor at 25° | 0.0148 | W/(mK) |
| Spec. heat capacity of saturated liquid cp at 25° | 1.803 | kJ/(kgK) |
| Spec. heat capacity of saturated vapor cp at 25° | 1.250 | kJ/(kgK) |
| Density of saturated liquid at 25° | 899 | kg/m ³ |
| Density of saturated vapor at 25° | 18.47 | kg/m ³ |
| Enthalpy of evaporation 25° | 279.1 | kJ/kg |
| Flammability | yes | |
| GWP | 124 | |
| ODP | 0 | |
| ADR/RID | 2.1 | |
| UN NUMBER | 1030 | |
| CAS | 75-37-6 | |
| EINECS | 200-866-1 | |
| ASHRAE | A2 | |

Date: 11/2019 - Rev. 2