

R-717 Ammonia

Chemical name: Ammonia
Formula: NH₃

Specification / grade

| | | | |
|----------|------------------|-------|------------------|
| Purity | ≥ | 99.75 | by weight % |
| Impurity | H ₂ O | < | 0.25 by weight % |
| | Oil | < | 20 mass ppm |

Cylinder / content specification

| | V _{cil} (l) | m _{gas} (kg) | Product code |
|---|----------------------|-----------------------|---------------------------------|
| Cylinders | 79 | 40 | 4630179 / 4630178 ^{*1} |
| Bundle barrel | 820 | 434 | 4631182 ^{*2} |
| | 900 | 475 | 4631192 |
| *1) with dip-tube (for liquid withdrawal) | | | |
| *2) provided with 2 valves for both liquid and gaseous withdrawal | | | |

Cylinder characteristics

| | | | |
|----------------------------------|---------------|----------|--|
| Colour according to standard | NEN-EN 1089-3 | | |
| Shoulder | Zinc yellow | RAL 1018 | |
| Cylindrical part | Agate grey | RAL 7038 | |
| Connection according to NEN 3268 | RU 1 | | |

Physical properties

| | | | |
|---|---------|------------|-------|
| Molecular weight (kg/kmol) | 17.03 | | |
| Density gas (kg/m ³ at 1.013 bar and 0 °C) | 0.771 | | |
| Relative density (air = 1) | 0.596 | | |
| Boiling point (°C) (K) | -33.4 | respective | 239.7 |
| Critical temperature (°C) (K) | 132 | respective | 406 |
| Vapour pressure (bar at 20 °C) | 8.6 | | |
| Flammability range (vol % in air) | 15 – 30 | | |

Additional information

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|---|---|
| Material Safety Data Sheet Product description | Ammonia, anhydrous (VIB nr. 002) Under pressure condensed to liquid, with stinging fragrance; corrosive to eyes, respiratory system and skin; flammable and explosive; toxic by inhalation |
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Applications

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| Cooling agent for refrigeration systems Cleaning of tail gas Nitration of metal surface | Reducing surrounding Production of amines |
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