

Product sheet Ammonia 5.0

Product name	Ammonia 5.0	
Physical state	liquefied under pressure	
Chemical sign	NH_3	
Chemical designation	NH3	
Standard	is not subject to any standard	
Properties	see safety data sheet	
Shoulder color	zinc yellow (RAL 1018)	
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Minor components	Maximum values
Moisture	10,0 wt. ppm
Hydrocarbons	2,0 wt. ppm

Name	Material number	Bottle type	Bottle container volume	Vapour/filling pressure	Content	Valve	Properties
Ammonia 5.0 T10 RCyl: 5,0 kg	A05220110	steel	10,0 l	7,3 bar	5,0 kg	DIN 477 No 6	
Ammonia 5.0 T50 RCyl: 25,0 kg	A05220150	steel	50,0 l	7,3 bar	26,5 kg	DIN 477 No	

Typical applications

- as a raw material for the chemical and pharmaceutical industries
- as a stabiliser for latex
- $\hfill \blacksquare$ for desulphurization and denitrification of flue gas
- in metal processing as a reformed gas (in nitriding, bright annealing etc.)
- in the manufacture of high purity hydrogen and nitrogen
- in material surface treatments in semiconductor production

Physical data		
operating figures	Molar mass	17,03 g mol ⁻¹
	Ignition Range in Air	15,4-33,6 Vol%
	Calorific Value to DIN 51850	17177 kJ kg ⁻³



Physical data		
Liquid State	Heat of Evaporation	1371,18 kJ kg ⁻¹
	Liquid Density	682 kg m ⁻³
Gas State	Thermal Conductivity (at 288.15 K and 1.013 bar)	0,0220 kg m ⁻³
	Density Ratio to Air (at 288.15 K and 1.013 bar)	0,59
	Specific heat (at 298.15 K and 1.013 bar)	2,24 kg m ⁻³
	Density (at 273.15 K and 1.013 bar)	0,77 kg m ⁻³
Critical Point	Temperature	405,55 (132,4) K (°C)
	density	235,0 kg m ⁻³
	Pressure	114,8 bar
Triple Point	Temperature	195,4 (-77,8) K (°C)
	Vapour Pressure	0,0607 bar
	Heat of Fusion	331,6 kJ kg ⁻¹

All mentioned data, values and notes correspond to actual state of knowledge on the date of printing. They make no claim to be correct or complete and therefore do not release the user from his obligation to check them.

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