

Product data sheet: Aqueous Ammonia 24.5%

Version: 1 (01/2008)

| Aqueous Ammonia 24.5% | | | | |
|------------------------------|---|-----------------------------------|------------|---------------|
| 1 | Liquid-product specification | | | |
| | | | | Typical value |
| | Ammonia | % m/m | 24.0- 24.9 | 24.5 |
| | Chloride | (Cl) mg/kg | max. 2 | |
| | Iron | (Fe) mg/kg | max. 2 | <0.5 |
| | Arsenic | (As) mg/kg | max. 0.4 | <0.10 |
| | Lead | (Pb) mg/kg | max. 3 | <0.10 |
| | Cadmium | (Cd) mg/kg | max. 1 | <0.01 |
| | Mercury | (Hg) mg/kg | max. 1 | <0.001 |
| | Copper | (Cu) mg/kg | max. 25 | <0.05 |
| | Zinc | (Zn) mg/kg | max. 25 | <0.01 |
| 2 | Sampling and analysis techniques | | | |
| | According to ISO TC 47 "Chemistry" and DSM Agro "in-house" methods. | | | |
| 3 | Physical properties | | | |
| | Formula | NH ₄ OH (aq.) | | |
| | Molar mass | 35 | | |
| | State of aggregation | liquid | | |
| | Appearance/odour | colourless liquid / pungent odour | | |
| | Density at 20°C | kg/m ³ | 907 | |
| | Boiling point at 1 bar | °C | 36 | |
| | Vapour pressure at 20°C | bar | 0,52 | |
| | Freezing point | °C | -55 | |
| | Solubility in water | completely miscible | | |
| | Warranty | | | |
| | The Product Data Sheet represents the only product warranty made regarding this product. This information is intended for use by persons having technical skill, at their own discretion and risk. Except as set forth above there are no warranties, express or implied, including warranties of merchantability or fitness for a particular purpose and seller shall not be liable for consequential damages. | | | |