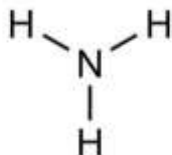


TIQ-F-QC-003
 Rev.00

Technical Data Sheet

AMMONIA SOLUTION 25 % AR

Ammonium hydroxide solutions; ammonia aqueous ; ammonia water



Product Code	A-3009	Grade	Analytical Reagent
Purity	25 %	CAS No	1336-21-6
Molecular Formula	NH ₄ OH	Molecular Weight	35.05 g/mol
H.S.Code	2814.2000	Shelf Life	36 Months

Physical Properties

Physical state at 20 °C	Liquid	Vapour pressure [20°C]	483 hPa at 20 °C
Colour	Clear Colorless	Solubility in water [% weight]	soluble
Odour	stinging	Explosion limits - upper [%]	33,6%
Density [g/cm³]	0.903	Explosion limits -lower [%]	15,4%
Melting point/ Freezing point [°C]	-57,5 °C	Partition coefficient Log Pow octanol / water at 20°C	-1,38
Boiling point [°C]	37,7 °C at 1.013 hPa		

Packaging

500 ml & 2500 ml

Specification

Appearance	Clear colorless liquid with a pungent odour
Assay (acidimetric)	min 25.0 %
Color	0.905 – 0.915 g/cm ³
Wt.per ml at 20 °C	max 10 Hazen
Freezing point	max 0.002 %
Insoluble matter in water	max 0.002 %
Residu on Evaporation	max 0.00005 %
Acetic Acid (CH ₃ COOH)	max 0.0002 %
Ammonium (NH ₄)	max 0.0002 %
Chloride (Cl)	max 0.0005 %
Potassium (K)	max 0.0001 %

Sodium (Na)	max 0.0005 %
Magnesium (Mg)	max 0.00005 %
Iron (Fe)	max 0.00005 %
Copper (Cu)	max 0.00001 %
Zinc (Zn)	max 0.00001 %

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07, GHS09

Signal Word: Danger

UN No.: 2672

IMCO Class No.: 8

Packing Group: III

Hazardous Statement: H290-H314-H335-H400

Precaution Statement: P273-P280-P301+P330+P330+P331-P305+P351+p338-P308+P310