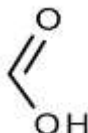


TIQ-F-QC-003
 Rev.00

Technical Data Sheet

FORMIC ACID 98-100 % AR

Methanoic Acid; Hydrogen Carboxylic Acid; Formylic Acid



Product Code	A-2002	Grade	Analytical Reagent
Purity	98 - 100 %	CAS No	64-18-6
Molecular Formula	CH ₂ O ₂	Molecular Weight	46.03 g/mol
H.S.Code	2915.1100	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Vapour pressure [50°C]	171 hPa at 50 °C
Colour	Clear Colorless	Vapour density	1.59
Odour	Stinging	Density [g/cm ³]	1.22
pH value	2.2	Solubility in water [% weight]	Infinitely soluble
Melting point/ Freezing point [°C]	8.5 °C	Partition coefficient Log Pow noctanol / water at 23°C	-2,1
Auto-ignition temperature [°C]	528°C	Explosion limits - upper [%]	38%
Flash point [°C]	49,5 °C	Explosion limits -lower [%]	18%
Boiling point [°C]	100,80 °C at 1.013 hPa		

Packaging

500 ml

Specification

Appearance	Clear colorless liquid with a pungent odour
Assay (acidimetric)	min 98.0 %
Color	max 15 Hazen
Wt.per ml at 20 °C	1.216 – 1.220 g/cm ³
Freezing point	min 5.5 °C
Insoluble matter in water	passes test
Residu on Evaporation	max 0.002 %
Acetic Acid (CH ₃ COOH)	max 0.3 %

Ammonium (NH ₄)	max 0.005 %
Chloride (Cl)	max 0.0005 %
Nitrogen compound (N)	max 0.002 %
Sulphate (SO ₄)	max 0.001 %
Sulphite (SO ₃)	max 0.001 %
Copper (Cu)	max 0.0005 %
Iron (Fe)	max 0.0003 %
Lead (Pb)	max 0.0005 %

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05, GHS06

Signal Word: Danger

UN No.: 1779

IMCO Class No.: 8,3

Packing Group: II

Hazardous Statement: H226-H302-H314-H331

Precaution Statement: P210-P280-P301+P312-P303+P361+P353-P304+P340+P310-P305+P351+P338