



TECHNICAL DATA SHEET

ACETIC ACID GLACIAL FOR SYNTHESIS

Ethanoic acid

Article No.	101132500	Molecular Formula	CH ₃ COOH
H.S. Code	2915.2100	Molecular Weight	60.05
CAS No.	64-19-7		


Physical Properties

Physical state at 20 °C	Liquid
Colour	Colorless
Odour	Strong, vinegar-like
Odour threshold	0.48 ppm
pH value	2.4 at 60 gm/L in water.
Melting point [°C]	4.0
Auto-ignition temperature [°C]	485 °C
Flash point [°C]	40°C
Boiling point [°C]	117-118
Initial boiling point [°C]	117°C
Final boiling point [°C]	118°C
Evaporation rate	0.97
Vapour pressure [20°C]	20.79 hpa at (25°C)
Vapour density	2.1
Density [g/cm ³]	1.0490
Relative density, liquid (water=1)	1.045
Solubility in water [% weight]	Soluble in water
Partition coefficient Log Pow octanol / water at 20°C	0.17
Explosion limits - upper [%]	19.90%
Explosion limits -lower [%]	4.0% (V)

Specifications

Assay (alkalimetric) % Min 99.5
Wt.per ml at 20 °C 1.047 - 1.052 g
Freezing point 15.5 °C
Chloride (Cl) % Max 0.0005
Sulfate (SO4) % Max 0.0005
Arsenic (As) % Max 0.0002
Iron (Fe) % Max 0.0002
Lead (Pb) % Max 0.0002
Non volatile matter % Max 0.01

Safety Information and Hazard Symbols

	
Symbol	GHS02, GHS05,GHS07
Signal Word	Danger
UN No	2789
IMCO Class No.	8,3
Hazardous Statement	H226-H314
Precaution Statement	P210-P280-P301+P330+P331 -P304+P340-P305+P351+P338- P370+P378-P403+P235-P501
Packing Group	II