

Certificate of Analysis

PRODUCT NAME	PERCHLORIC ACID 60% IN WATER
CAS NUMBER	7601-90-3
MOLECULAR FORMULA	HCIO ₄
MOLECULAR WEIGHT (M.W)	100.46
BATCH NUMBER	PHA01096
MFG DATE	JUN – 2023
BEST BEFORE	MAY – 2028
DATE OF ANALYSIS	10-06-2023

DESCRIPTION	LIMITS	RESULTS	TEST METHOD
APPEARANCE	A clear colourless liquid	A clear colourless liquid	VISUAL
Assay	60 - 62%	60.72%	GC
Colour scale	Max 10 Hazen	<10 Hazen	ASTM-D-1613-17
Residue on ignition (as SO ₄)	Max 0.003%	0.0028%	ASTM-D-1353-13
Matter insoluble in ethanol	Max 0.001%	<0.001%	ASTM-D-1613-17
Chlorate (ClO ₃)	Max 0.001%	0.000041%	ASTM-D-1353-13
Total nitrogen (N)	Max 0.001%	<0.001%	ASTM-D-1613-17
Chloride (Cl)	Max 0.0001%	0.0001%	ASTM-D-1353-13
Free chlorine (Cl)	Max 0.0005%	<0.0005%	ASTM-D-1613-17
Nitrate (NO ₃)	Max 0.001%	0.001%	ASTM-D-1353-13
Phosphate and silicate (as SiO ₂)	Max 0.0003%	0.00025%	ASTM-D-1613-17
Sulphate (SO ₄)	Max 0.0004%	<0.0004%	ASTM-D-1353-13
Ammonium (NH ₄)	Max 0.0002%	<0.0002%	ASTM-D-1613-17
Heavy metal (as Pb)	Max 0.0001%	Nil	ASTM-D-1353-13
Arsenic (As)	Max 0.000005%	<0.000005%	ASTM-D-1613-17
Copper (Cu)	Max 0.00001%	Nil	ASTM-D-1353-13
Iron (Fe)	Max 0.00005%	0.0000043%	ASTM-D-1613-17
Lead (Pb)	Max 0.00001%	Nil	ASTM-D-1353-13

DISCLAIMER:

- Span Chemie™ products are to be used as Lab Chemicals for R&D only. Not for drug, Medicinal, household or other uses.
- Span Chemie™ shall not be responsible for any damage resulting from handling or from Contact with the above product.