

H1110CC	Silver Line
30 - 33%	
Typical analysis	
Assay	30 - 33%
Hydrogen fluoride	0.15%
Organic matter	0.01%

Packaging
2.5l clear plastic bottle
5l clear plastic bottle
25l black plastic drum

H1113CC	Platinum Line
37%	
Warranty certificate	
Assay	min 36%
Bromide (Br)	0.005%
Copper (Cu)	0.000002%
Iron (Fe)	0.000002%
Lead (Pb)	0.000002%
Magnesium (Mg)	0.00001%
Potassium (K)	0.00001%
Phosphate (PO ₄)	0.00%
Sulphate (SO ₄)	0.0001%
Zinc (Zn)	0.000005%

Packaging
500ml amber glass bottle
2.5l black plastic bottle

H1117CC	Platinum Line
0.5N (0.5M) solution	
Warranty certificate	
Standardised with methyl orange indicator against sodium carbonate	

Packaging
2.5l plastic bottle

H1121CC	Platinum Line
N/1 (1N) Ampoule	
Warranty certificate	
Standardised with methyl orange indicator against sodium carbonate	

Packaging
Plastic ampoule

** Info applies to acid only and not the solution or ampoules

H1111CC	Gold Line
32%	
Typical analysis	
Assay	32%
Free chlorine (Cl)	0.0002%
Iron (Fe)	0.0001%
Lead (Pb)	0.0001%
Residue on evaporation	0.005%
Sulphate (SO ₄)	0.00005%

Packaging
500ml clear plastic bottle
2.5l clear plastic bottle
25l black plastic drum

H1114CC	Platinum Line
34%	
Warranty certificate	
Assay	min 34%
Bromide (Br)	0.0002%
Free chloride (Cl)	0.0001%
Iron (Fe)	0.00001%
Lead (Pb)	0.00001%
Residue on ignition	0.0005%
Sulphate (SO ₄)	0.0001%

Packaging
2.5l plastic bottle

H1119CC	Platinum Line
1N (1M) solution	
Warranty certificate	
Standardised with methyl orange indicator against sodium carbonate	

Packaging
2.5l plastic bottle

H1122CC	Platinum Line
32%	
Warranty certificate	
Assay	min 32%
Arsenic (As)	0.000001%
Bromide (Br)	0.005%
Copper (Cu)	0.000005%
Iron (Fe)	0.00003%
Lead (Pb)	0.00003%
Phosphate (PO ₄)	0.00005%
Residue on ignition	0.0005%
Sulphate (SO ₄)	0.0001%
Zinc (Zn)	0.000005%

Packaging
500ml clear plastic bottle
2.5l clear plastic bottle

H1116CC	Platinum Line
0.1N (0.1M) solution	
Warranty certificate	
Standardised with methyl orange indicator against sodium carbonate	

Packaging
2.5l plastic bottle

H1120CC	Platinum Line
N/10 (0.1N) Ampoule	
Warranty certificate	
Standardised with methyl orange indicator against sodium carbonate	

Packaging
Plastic ampoule



Physical properties, composition and data

Chemical formula	HCl
Synonym	Hydrogen chloride solution; Muriatic acid
Chemical group	Chlorides
Atomic weight	36.46
Weight per litre	1.13kg
Appearance	Colourless to slightly yellow aqueous solution
Odour	Chlorine-like odour
Miscibility	Miscible with water, alcohol and benzene
Melting point	-46.2°C. Solution: -9 to -1°C
Boiling point	108.58°C. Solution: >100°C
Density (g/ml)	1.16 Solution: 1.03
pH (aqueous solution)	0.1 - 2.02 depending on concentration Solution: <0.1
Incompatible substances	Carbonates, hydrogen carbonates, alkalis
Other information	Fumes in air
Hazardous material	Corrosive

Laboratory preparation, applications and practices

Laboratory preparation	Dissolving hydrogen chloride in water at various concentrations
Usage	Analytical reagent. Catalyst and solvent in organic synthesis. Production of chlorides
Filter paper	Glass microfibre

Storage and handling information

Storage/handling	Keep container tightly closed separated from incompatible substances, oxidants and strong base
Safety phrases	26-45
Risk phrases	36/37/38
Disposal methods	1
Caution	Avoid inhalation of fumes

Transport regulations

Tariff code	2806.10.00
Hazardous class	8
Packing group	II
UN number	1789
ERG number	157
ECB number	231-595-7

