

Iron(III) chloride solution

TECHNICAL SPECIFICATIONS

No: 0000203/01/2023

PRODUCT NAME : Iron(III) chloride solution

OTHER MEANS OF IDENTIFICATION: Iron trichloride solution, Trichloroiron solution, Ferric chloride solution

MAIN INGREDIENT CAS No: 7705-08-0

MAIN INGREDIENT REACH: 01-2119497998-05

MAIN INGREDIENT EC: 231-729-4

APPEARANCE : Dark brown liquid

1. Product specification

Parameter	Unit	Limit
General Iron (Fe^{tot})	[%]	13.4 ± 0.6
Iron (Fe^{2+})	[%]	max 0.3
Free acid (HCl)	[%]	max 3.00
Cl^-	[%]	27 ± 1.0 %
Density (20 °C)	[g/cm ³]	1.44 ± 0.06
pH (20 °C)		< 1
Crystallization temperature	[°C]	- 20

The certificate was made on the basis of the supplier's certificate. The data contained in this certificate were prepared on the basis of certificates and quality standards of suppliers or manufacturers and on the basis of tests in the factory laboratory.

2. Application

Treatment of municipal wastewater, treatment of industrial wastewater, precipitation of phosphorus from wastewater, removal of hydrogen sulphide from wastewater, treatment of process water in industry.

3. Dosage

Dosing using diaphragm pumps made of materials resistant to corrosion and chloride ions. Iron(III) chloride solution should be dosed undiluted.

4. Storage

Recommended storage time: up to 12 months.

5. Storage in containers

Store in properly labeled, closed containers with the original label. Warehouses must be adapted to the storage of hazardous materials. Recommended storage temperature above: 0°C

6. Storage in tanks ("bulk storage")

Store in containers (placed on impervious trays to protect the environment) made of carbon steel with rubber lining, glass reinforced plastic (GRP), polypropylene or polyethylene. Storage tanks should be marked in accordance with applicable regulations. The storage tank should be cleaned at least once a year.

7. Safe use

Use of safeguards and personal protective equipment, in accordance with the information contained in the safety data sheet.

8. Safety in transport

Deliveries are made by road tankers or in pallet containers, as road transport: UN 2582 FERRIC CHLORIDE SOLUTION (Ferric chloride) , 8, III, (E)

Prepared by

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