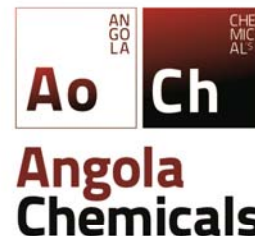


Ferric Chloride



1. IDENTIFICATION

CHEMICAL NAME: Ferric chloride

CHEMICAL FORMULA: FeCl_3

MOLECULAR WEIGHT: 162,21

CAS No.: 7705-08-0

EINECS No.: 231-729-4

ONU No.: 2582

COMPOSITION: Ferric chloride solution at 40%

2. FEATURES

The commercial ferric chloride it is a brown solution, completely soluble in water (20°C) and insoluble in organic solvents.

The product is stable for approximately one year.

Chemical composition

PROPERTIES	METHOD	VALUE
FeCl_3 (%):	KEBE-LABO-046	$39,8 \pm 1,7$
Ferric Iron (%)	KEBE-LABO-046	$13,7 \pm 0,6$
Ferrous Iron (%)	KEBE-LABO-045	$\leq 0,5$
Chloride (%)	-	26 ± 1
Acidity, HCl (%)	KEBE-LABO-046	$\leq 3,2$
Free Chlorine (%)	KEBE-FABR-Flix	Free
pH 1%(V/V)	KEBE-LABO-044	$2,0 \pm 0,5$

Physical Characteristics

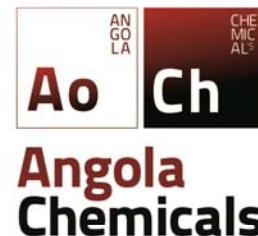
PROPERTIES	VALUE
Boiling Temperature (°C)	$102,5 \pm 2,5$
Decomposition Temperature (°C)	315
Flash Point	No
Specific gravity at 25°C (g/cm ³)	$1,44 \pm 0,02$
Viscosity at 25 °C (mPa.s)	10 ± 5
Water solubility (20°C)	Completely soluble
Solubility in organic solvents	Insoluble

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Ferric Chloride



DETERMINATION	RESULT	ANALYSIS METHOD
Copper, ppm	403	K-Labo-Met.-529
Chromium, ppm	56	K.Labo-Met.-529
Zinc, ppm	1200	K-Labo-Mat.-529
Nickel, ppm	227	K-Labo-Mat.-529
Cadmium, ppm	< 2	K-Labo-Mat.-529
Lead, ppm	33	K-Labo-Mat.-529
Mercury, ppm	< 0,5	K-Labo-Mat.-529
Selenium, ppm	< 0,1	K-Labo-Mat.-529
Arsenic, ppm	5,8	K-Labo-Mat.-529
Antimony, ppm	14	K-Labo-Mat.-529
Manganese, ppm	2440	K-Labo-Mat.-529

3. APPLICATION

- Coagulant used in physical-chemical treatment of wastewater and drinking water.
- It acts as an adjuvant in sludge dewatering.
- Precipitation of phosphorus in the wastewater.

4. BENEFITS

- The product acts in a wide pH range, achieving an effective reduction in colour and turbidity
- Odour removal from the point of dosage
- Bulking control
- Ease of application
- Low cost
- Increase of biogas production
- Better conditions of the sludge dehydration
- Reduction of maintenance costs

5. PRESENTATION

- Container 1000 l (1400 Kg);
- Drum 200 l (280 kg);

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