IRON

- Fe
- M = 55,85 g/mol
- CAS [7439-89-6]
- EINECS-No.: 231-096-4
- Solub. in water: (20°C): insoluble
- Melting point: 1535°C
- Boiling point: ~ 3000 °C
- Ignition temp.: > 100 °C
- LD 50 (oral, rat): 30000 mg/kg
- ADR: 4.1 F3 III UN 3089
- IMDG: 4.1 III UN 3089
- IATA/ICAO: 4.1 III UN 3089
- GHS-signal word: Warning
- GHS-H sentences: H228
- GHS-P sentences: P210 - P241 - P280 - P240 - P370 + P378b
- Tariff number: 7205 29 00 00

HI0303 Iron, powder, EssentQ® (made by reduction), particle size < 100 µm

assay (cerimetric)	min. 99 %
insoluble in HCl	max. 0,5 %
solubility in water	max. 0,1 %
chlorides (Cl)	max. 0,001 %
sulfides (S)	max. 0,01 %
arsenic (As)	max. 5 ppm
copper (Cu)	max. 0,01 %
lead (Pb)	max. 0,002 %
manganese (Mn)	max. 0,1 %
nickel (Ni)	max. 0,05 %
zinc (Zn)	max. 0,005 %

ART. NO.	VOLUME	CONTAINER
HI03030250	250 g	P
HI03030500	500 g	P
HI03031000	1 kg	P

HI0304 Iron, powder, EssentQ® (made by reduction), particle size < 150 µm

assay (cerimetric)	min. 99 %
insoluble in HCl	max. 0,5 %
solubility in water	max. 0,1 %
chlorides (Cl)	max. 0,001 %
sulfides (S)	max. 0,01 %
arsenic (As)	max. 5 ppm
copper (Cu)	max. 0,01 %
lead (Pb)	max. 0,002 %
manganese (Mn)	max. 0,1 %
nickel (Ni)	max. 0,05 %
zinc (Zn)	max. 0,005 %

ART. NO.	VOLUME	CONTAINER
HI03041000	1 kg	P

IRON(III) CHLORIDE, 30%, AQUEOUS SOLUTION

HI0333 Iron(III) chloride, 30%, aqueous solution, EssentQ®

- $FeCl_3 \cdot 6H_2O$
- M = 270,32 g/mol
- CAS [7705-08-0]
- EINECS-No.: 231-729-4
- Density: 1,3 g/cm³
- LD 50 (oral, rat): 900 mg/kg (pure substance)
- ADR: 8 C1 III UN 2582
- IMDG: 8 III UN 2582
- IATA/ICAO: 8 III UN 2582
- GHS-signal word: Danger
- GHS-H sentences: H318 - H315
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P321 - P362 - P332 + P313
- Tariff number: 2827 39 20 00
- Applications: analytical chemistry, laboratory reagent.

assay (iodometric, as $FeCl_3$) . . . . . approx. 30 %

ART. NO.	VOLUME	CONTAINER
HI03331000	1 l	P
HI0333025P	25 l	P

IRON(III) NITRATE NONAHYDRATE

HI0340 Iron(III) nitrate nonahydrate, EssentQ®, Reag. Ph Eur

- $Fe(NO_3)_3 \cdot 9H_2O$
- M = 404,00 g/mol
- CAS [7782-61-8]
- EINECS-No.: 233-899-5
- Solub. in water: (20 °C): soluble
- Melting point: 47 °C (decomposes)
- LD 50 (oral, rat): 3250 mg/kg
- ADR: 5.1 O2 III UN 1466
- IMDG: 5.1 III UN 1466
- IATA/ICAO: 5.1 III UN 1466
- GHS-signal word: Danger
- GHS-H sentences: H272 - H315 - H319
- GHS-P sentences: P221 - P210 - P220 - P305 + P351 + P338 - P321 - P501a
- Tariff number: 2834 29 80 00
- Applications: analytical chemistry, oxidizing agent, laboratory reagent.
- Appearance: Light purple crystalline powder

assay (iodometric)	min. 99,0 %
insoluble in water	max. 0,05 %
free acid (as HNO_3)	max. 0,3 %
chlorides (Cl)	max. 0,005 %
sulfates (SO_4)	max. 0,01 %
calcium (Ca)	max. 0,02 %
copper (Cu)	max. 0,005 %
iron (II) (Fe (II))	max. 0,01 %
lead (Pb)	max. 0,005 %
magnesium (Mg)	max. 0,02 %
zinc (Zn)	max. 0,01 %

ART. NO.	VOLUME	CONTAINER
HI03400500	500 g	P
HI03401000	1 kg	P