

GENERAL QUALITY DATA SHEET

Ferrous (II) Sulfate 7-hydrate [Reagent Grade] ChemElements™

CAS No.	7782-63-0
EC No.	231-753-5
Tariff No.	2833 29 80 00
Material number:	90181020*



Typical properties

Molecular weight:	278,01
Melting point:	>60°C (release of crystalline water)
Solubility in water:	665 g/l (20°C)
Specific gravity:	1,898 g/cm ³
Appearance:	Greenish-blue crystals

Quality: GOST 4148-78 [Reagent Grade]

1. Assay (FeSO ₄ ·7H ₂ O):	99-101%
2. Water-insoluble matter:	≤0,01%
3. pH 5% solution:	≥3,3
4. Chlorides (Cl):	≤0,002%
5. Ferric iron (Fe ³⁺):	≤0,1%
6. Arsenic (As):	≤0,00005%
7. Copper (Cu):	≤0,005%
8. Zinc(Zn):	≤0,01%
9. Manganese (Mn):	≤0,05%
10. Sodium and potassium (Na+K):	≤0,007%
11. Calcium and magnesium (Ca+Mg):	≤0,03%
12. Silicon (Si):	≤0,01%
13. Nickel (Ni):	≤0,01%

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Standard packing

- *25 kg three-layer paper brown craft bag with polyethylene inliner (50 µm);
- *25 kg polypropylene bag (60 g/m²) with two inliners: transparent polyethylene liner (50 µm) and black polyethylene liner.

Available on request

*Other customer-specific packing, quality parameters

Shelf life

6 months

Storage recommendation

Store in a cool, dry, ventilated warehouse in the original tightly closed packaging away from sources of heat. Maintain a constant temperature not to exceed 25°C. Avoid exposure to direct sunlight.

Application

- Production of other iron compounds;
- Electrolyte component in electroplating;
- Wood preservative;
- Fungicide;
- Flocculant in wastewater treatment.

Certification

FSSC 22000:2013, ISO 9001:2015,
Kosher, Halal MUI

Hazards Identification

Pictogram:



Signal Word:

WARNING

Hazard statements:

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation

Precautionary statements:

P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.



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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P330 Rinse mouth.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

Transport Information

UN number:	Not dangerous goods
UN proper shipping name:	Not dangerous goods
Transport hazard class(es)	
Land transport (ADR/RID):	Not classified as dangerous in the meaning of transport regulations
Air transport (IATA):	Not classified as dangerous in the meaning of transport regulations
Sea transport (IMDG):	Not classified as dangerous in the meaning of transport regulations
Packaging group:	Not dangerous goods

Production

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This data sheet is for information purposes only and is based on observations of our standard product. It does not release the user from any obligation to test the material and determine suitability for each application.