



Product Specification

Product Name: AMMONIUM IRON(II) SULFATE Hexahydrate AR

Alternate Name(s) Ferrous Ammonium sulfate, Ammonium ferrous sulfate

Description

Light green crystals. Deliquescent. Affected by light.

Properties

Chemical Formula: $(\text{NH}_4)_2\text{Fe}(\text{SO}_4) \cdot 2.6\text{H}_2\text{O}$

Molecular Weight: 392.14

Product Code: AA078

CAS No. 7783-85-9

General Information:

Insoluble in alcohol. Incompatible with sulfuric acid. Non combustible. Due to inherent oxidation, ferric ion (Fe^{3+}) content may increase on storage.

Hazard and Safety Data

UN Group: None Allocated

Class: None Allocated

UN Number: None Allocated

Hazchem code: None Allocated

CS MSDS Code: 1CH11

Poison schedule: Not Scheduled

Emergency

Procedure Guide No.: N/A

Quality Specification

Assay: 99.0% min.

Specific Properties and Impurities [Typical levels]:

Specific Gravity	1.86
Melting Point (decomposes)	100 - 110 °C
Solubility in Water (20 °C)	269 g/L
pH of a 5% solution	3-5
Chloride (Cl)	≤ 0.001%
Phosphate (PO_4)	≤ 0.002%
Calcium (Ca)	≤ 0.002%
Copper (Cu)	≤ 0.002%
Iron (III) (Fe)	≤ 0.02%
Lead (Pb)	≤ 0.001%
Magnesium (Mg)	≤ 0.01%
Manganese (Mn)	≤ 0.05%
Potassium (K)	≤ 0.01%
Sodium (Na)	≤ 0.01%
Zinc (Zn)	≤ 0.003%

Chem-Supply Pty Ltd - An ISO 9001:2008 Accredited Company

38 - 50 Bedford Street, Gillman SA 5013, Australia ABN 19 008 264 211 PO Box 201, Port Adelaide SA 5015, Australia
Telephone +61 8 8440 2000 Fax +61 8 8440 2001 E-mail: sales@chemsupply.com.au Web: www.chemsupply.com.au

Chem-Supply does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product for any intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product for any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement or supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.