AMMONIUM IODIDE

AM0480 Ammonium iodide, EssentQ®

- NH_4I
- M = 144,94 g/mol
- CAS [12027-06-4]
- EINECS-No.: 234-717-7
- Solub. in water: (20 °C): soluble
- Melting point: 405 °C
- Tariff number: 2827 60 00 90
- Applications: analytical chemistry, laboratory reagent, photography.

assay (argentometric) . . . . . min. 99 %
insoluble in water . . . . . max. 0,005 %
pH (5 %, H_2O) . . . . . 4,5 - 6,5
chlorides and bromides (as Cl) . . . . . max. 0,02 %
iodates (IO_3) . . . . . max. 0,01 %
sulfates (SO_4) . . . . . max. 0,01 %
thiosulfates (S_2O_3) . . . . . max. 0,01 %
arsenic (As) . . . . . max. 0,0005 %
heavy metals (as Pb) . . . . . max. 0,001 %
iron (Fe) . . . . . max. 0,001 %
residue on ignition . . . . . max. 0,1 %
loss on drying (105 °C). . . . . max. 1 %

ART. NO.	VOLUME	CONTAINER
AM04800250	250 g	

AMMONIUM IRON(II) SULFATE HEXAHYDRATE

- Synonyms: Iron(II) ammonium sulfate, Ferrous ammonium sulfate, Mohr's salt
- $(NH_4)_2Fe(SO_4)_2 \cdot 6H_2O$
- M = 392,14 g/mol
- CAS [7783-85-9]
- EINECS-No.: 233-151-8
- Solub. in water: (20 °C): 269 g/l
- Melting point: 100 °C
- Tariff number: 2842 90 80 00
- Applications: analytical chemistry, synthesis of polymers, photography.

HI0314 Ammonium iron(II) sulfate hexahydrate, EssentQ®

assay (permanganometric) . . . . . 98 - 101 %
insoluble in diluted H_2SO_4 . . . . . max. 0,01 %
chlorides (Cl) . . . . . max. 0,005 %
phosphates (as PO_4) . . . . . max. 0,005 %
calcium (Ca). . . . . max. 0,02 %
copper (Cu) . . . . . max. 0,002 %
iron (III) (Fe (III)). . . . . max. 0,05 %
magnesium (Mg) . . . . . max. 0,02 %
potassium (K). . . . . max. 0,01 %
sodium (Na) . . . . . max. 0,01 %
zinc (Zn) . . . . . max. 0,01 %

ART. NO.	VOLUME	CONTAINER
HI03140500	500 g	
HI03141000	1 kg	
HI0314005P	5 kg	

HI0316 Ammonium iron(II) sulfate hexahydrate, ExpertQ®, for analysis, ACS, ISO, Reag. Ph Eur

assay (permanganometric) . . . . . 99,0 - 101,5 %
insoluble in diluted H_2SO_4 . . . . . max. 0,01 %
pH (5 %, H_2O) . . . . . 3,0 - 5,0
chlorides (Cl) . . . . . max. 0,001 %
phosphates (as PO_4) . . . . . max. 0,002 %
calcium (Ca). . . . . max. 0,002 %
copper (Cu) . . . . . max. 0,002 %
iron (III) (Fe (III)). . . . . max. 0,01 %
lead (Pb). . . . . max. 0,001 %
magnesium (Mg) . . . . . max. 0,002 %
manganese (Mn) . . . . . max. 0,01 %
potassium (K). . . . . max. 0,002 %
sodium (Na) . . . . . max. 0,01 %
zinc (Zn) . . . . . max. 0,003 %

ART. NO.	VOLUME	CONTAINER
HI03160500	500 g	
HI03161000	1 kg	
HI0316005P	5 kg	

AMMONIUM IRON(II) SULFATE, VOLUMETRIC SOLUTIONS

HI0318 Ammonium iron(II) sulfate, solution ~ 0,12 mol/l (0,12 N), for COD determination, according to ISO 6060

- $(NH_4)_2Fe(SO_4)_2 \cdot 6H_2O$
- M = 392,13 g/mol
- CAS [7783-85-9]
- EINECS-No.: 233-151-8
- Density: 1,025 g/cm³
- Solub. in water: (20 °C): miscible
- Tariff number: 2833 29 90 00
- Applications: determining COD.

titer . . . . . 0,119 - 0,129 mol/l
uncertainty . . . . . ± 0,001
1 ml = 0,047056 g $(NH_4)_2Fe(SO_4)_2 \cdot 6H_2O$
This volumetric solution was checked by means of volumetric methods using a potassium dichromate standard solution, that was also checked against Scharlau's sodium thiosulfate standard solution. Scharlau's volumetric standards are directly traceable to the Standard Reference Materials from NIST (National Institute of Standards and Technology, USA).

ART. NO.	VOLUME	CONTAINER
HI03181000	1 l	

AMMONIUM IRON(III) SULFATE DODECAHYDRATE

- Synonyms: Iron(III) ammonium sulfate, Alum iron, Ferric ammonium alum, Iron alum
- $NH_4Fe(SO_4)_2 \cdot 12H_2O$
- M = 482,19 g/mol
- CAS [7783-83-7]
- EINECS-No.: 233-382-4
- Solub. in water: (25 °C): 1240 g/l
- Melting point: 39 - 41 °C
- Tariff number: 2833 30 00 00
- Applications: analytical chemistry, laboratory reagent.