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## HI0312 Ammonium iron(III) sulfate dodecahydrate, EssentQ<sup>®</sup>

assay (iodometric) . . . . .	97,0 - 102,0 %	copper (Cu) . . . . .	max. 0,005 %
identity (IR-spectrum) . . . . .	passes test	iron (II) (Fe (II)) . . . . .	max. 0,002 %
insoluble in water . . . . .	max. 0,01 %	lead (Pb) . . . . .	max. 0,002 %
chlorides (Cl) . . . . .	max. 0,005 %	magnesium (Mg) . . . . .	max. 0,03 %
calcium (Ca) . . . . .	max. 0,03 %	zinc (Zn) . . . . .	max. 0,005 %

ART. NO.	VOLUME	CONTAINER
HI03120500	500 g	
HI03121000	1 kg	
HI0312025P	25 kg	

## HI0315 Ammonium iron(III) sulfate dodecahydrate, ExpertQ<sup>®</sup>, for analysis, ACS, ISO

assay (iodometric) . . . . .	99,0 - 102,0 %	iron (II) (Fe (II)) . . . . .	max. 0,001 %
identity (IR-spectrum) . . . . .	passes test	lead (Pb) . . . . .	max. 5 ppm
insoluble in water . . . . .	max. 0,005 %	magnesium (Mg) . . . . .	max. 0,001 %
insoluble in HCl . . . . .	max. 0,01 %	manganese (Mn) . . . . .	max. 0,005 %
chlorides (Cl) . . . . .	max. 5 ppm	potassium (K) . . . . .	max. 0,01 %
nitrates (NO <sub>3</sub> ) . . . . .	max. 0,01 %	sodium (Na) . . . . .	max. 0,01 %
calcium (Ca) . . . . .	max. 0,01 %	zinc (Zn) . . . . .	max. 0,001 %
copper (Cu) . . . . .	max. 0,001 %		

ART. NO.	VOLUME	CONTAINER
HI03150500	500 g	
HI03151000	1 kg	
HI0315005P	5 kg	
HI0315025P	25 kg	

## AMMONIUM IRON(III) SULFATE, SATURATED SOLUTION

### HI0319 Ammonium iron(III) sulfate, saturated solution

<ul style="list-style-type: none"> <li>• NH<sub>4</sub>Fe(SO<sub>4</sub>)<sub>2</sub>·12H<sub>2</sub>O</li> <li>• M = 482,19 g/mol</li> <li>• CAS [7783-83-7]</li> <li>• EINECS-No.: 233-382-4</li> <li>• Density: ~ 1,18 g/cm<sup>3</sup></li> <li>• Solub. in water: (20 °C): miscible</li> </ul>	<ul style="list-style-type: none"> <li>• Tariff number: 2833 30 00 00</li> </ul> <p>composition:</p> <p>ammonium iron (III) sulfate 12-hydrate . . . . . 500 g</p> <p>sulfuric acid 96 % . . . . . 1 ml</p> <p>water to make 1 liter</p>
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ART. NO.	VOLUME	CONTAINER
HI03191000	1 l	

## AMMONIUM IRON(III) SULFATE, VOLUMETRIC SOLUTIONS

### HI0317 Ammonium iron(III) sulfate, solution 0,1 mol/l (0,1 N)

<ul style="list-style-type: none"> <li>• NH<sub>4</sub>Fe(SO<sub>4</sub>)<sub>2</sub>·12H<sub>2</sub>O</li> <li>• M = 482,19 g/mol</li> <li>• CAS [7783-83-7]</li> <li>• EINECS-No.: 233-382-4</li> <li>• Density: 1,025 g/cm<sup>3</sup></li> <li>• Tariff number: 2833 30 00 00</li> <li>• Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.</li> </ul>	<p>factor . . . . . 0,995 - 1,005</p> <p>uncertainty ± 0,003</p> <p>1 ml = 0,04822 g (NH<sub>4</sub>)Fe(SO<sub>4</sub>)<sub>2</sub>·12H<sub>2</sub>O</p> <p>This volumetric solution was checked by means of potentiometric methods using a sodium thiosulfate standard solution, that was also checked against Scharlau's potassium iodate volumetric standard.</p>
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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
HI03171000	1 l	

## AMMONIUM MONOVANADATE

<ul style="list-style-type: none"> <li>• Synonyms: Ammonium metavanadate, Ammonium vanadate</li> <li>• NH<sub>4</sub>VO<sub>3</sub></li> <li>• M = 116,98 g/mol</li> <li>• CAS [7803-55-6]</li> <li>• EINECS-No.: 232-261-3</li> <li>• Solub. in water: (15 °C): 5,2 g/l</li> </ul>	<ul style="list-style-type: none"> <li>• Melting point: ~ 200 °C (decomposes)</li> <li>• LD 50 (oral, rat): 169 mg/kg</li> <li>• ADR: 6.1 T5 II UN 2859</li> <li>• IMDG: 6.1 II UN 2859</li> <li>• IATA/ICAO: 6.1 II UN 2859</li> <li>• GHS-signal word: Danger</li> </ul>	<ul style="list-style-type: none"> <li>• GHS-H sentences: H301 - H332 - H315 - H319 - H335</li> <li>• GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a</li> <li>• Tariff number: 2841 90 30 00</li> <li>• Applications: for the identification of: phosphates, analytical chemistry.</li> </ul>
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### AM0465 Ammonium monovanadate, EssentQ<sup>®</sup>

assay (permanganometric) . . . . .	min. 99,0 %
identity (IR-spectrum) . . . . .	passes test
solubility in ammonium hydroxide . . . . .	passes test

ART. NO.	VOLUME	CONTAINER
AM04650250	250 g	

### AM0467 Ammonium monovanadate, ExpertQ<sup>®</sup>, for analysis, ACS

assay (permanganometric) . . . . .	min. 99,5 %	cobalt (Co) . . . . .	max. 0,002 %
solubility in ammonium hydroxide . . . . .	passes test	copper (Cu) . . . . .	max. 0,001 %
carbonates (CO <sub>3</sub> ) . . . . .	passes test	iron (Fe) . . . . .	max. 0,001 %
chlorides (Cl) . . . . .	max. 0,2 %	lead (Pb) . . . . .	max. 0,002 %
phosphates (as PO <sub>4</sub> ) . . . . .	max. 0,005 %	nickel (Ni) . . . . .	max. 0,002 %
sulfates (SO <sub>4</sub> ) . . . . .	max. 0,05 %	zinc (Zn) . . . . .	max. 0,001 %
cadmium (Cd) . . . . .	max. 0,001 %		

ART. NO.	VOLUME	CONTAINER
AM04670100	100 g	
AM04670250	250 g	
AM04670500	500 g	