

## MERCURY(II) NITRATE, VOLUMETRIC SOLUTIONS

ME0197 Mercury(II) nitrate, solution 0,01 mol/l (0,02 N)



- $\text{Hg}(\text{NO}_3)_2$
- $M = 324,62 \text{ g/mol}$
- CAS [10045-94-0]
- EINECS-No.: 233-152-3
- Density:  $1,007 \text{ g/cm}^3$
- EC-Index-No.: 080-002-00-6
- ADR: 6.1 T4 III UN 2024
- IMDG: 6.1 III UN 2024
- IATA/ICAO: 6.1 III UN 2024
- GHS-signal word: Warning
- GHS-H sentences: H373 - H302 - H312 - H412
- GHS-P sentences: P260 - P280 - P273 - P322 - P363 - P501a

- Tariff number: 2852 10 00 00
- Applications: analytical chemistry, laboratory reagent, factor . . . . . 0,999 - 1,001 uncertainty  $\pm 0,001$   
1 ml = 0,003246 g  $\text{Hg}(\text{NO}_3)_2$
- This volumetric solution was checked by means of classical methods using an EDTA disodium salt standard solution, that was also checked against Scharlab's calcium carbonate volumetric standard. Scharlab's volumetric standards are directly traceable to the Standard Reference Materials from NIST (National Institute of Standards and Technology, USA).

| ART. NO.   | VOLUME | CONTAINER |
|------------|--------|-----------|
| ME01971000 | 1 l    |           |

## MERCURY(II) OXIDE RED

- $\text{HgO}$
- $M = 216,59 \text{ g/mol}$
- CAS [21908-53-2]
- EINECS-No.: 244-654-7
- Solub. in water: (25 °C): 0,052 g/l
- Melting point: > 400 °C (decomposes)

- Vapour pressure: (20 °C) 0,0012 hPa
- LD 50 (oral, rat): 18 mg/kg
- EC-Index-No.: 080-002-00-6
- ADR: 6.1 T5 II UN 1641
- IMDG: 6.1 II UN 1641
- IATA/ICAO: 6.1 II UN 1641

- GHS-signal word: Danger
- GHS-H sentences: H300 - H310 - H330 - H373 - H400 - H410
- GHS-P sentences: P260 - P284 - P320 - P361 - P405 - P501a
- Tariff number: 2852 10 00 00

ME0214 Mercury(II) oxide, red, EssentQ®



assay (complexometric) . . . . . min. 99 %  
identification . . . . . passes test  
appearance of solution . . . . . passes test  
insoluble in HCl . . . . . max. 0,05 %  
acidic or alkaline substances . . . . . passes test  
chlorides (Cl) . . . . . max. 0,05 %

nitrates ( $\text{NO}_3$ ) . . . . . passes test  
mercury (II) oxide, yellow . . . . . passes test  
Residue after reduction  
(calcination residue, as sulfate) . . . . . max. 0,05 %  
loss on drying (105 °C) . . . . . max. 0,5 %

| ART. NO.   | VOLUME | CONTAINER |
|------------|--------|-----------|
| ME02140100 | 100 g  |           |
| ME02140250 | 250 g  |           |

ME0215 Mercury(II) oxide, red, ExpertQ®, for analysis, ACS



assay (complexometric) . . . . . min. 99 %  
insoluble in diluted HCl . . . . . max. 0,03 %  
chlorides (Cl) . . . . . max. 0,025 %  
sulfates ( $\text{SO}_4$ ) . . . . . max. 0,005 %  
total nitrogen (as N) . . . . . max. 0,005 %  
cadmium (Cd) . . . . . max. 1 ppm

copper (Cu) . . . . . max. 5 ppm  
iron (Fe) . . . . . max. 0,005 %  
lead (Pb) . . . . . max. 5 ppm  
zinc (Zn) . . . . . max. 5 ppm  
Residue after reduction  
(calcination residue, as sulfate) . . . . . max. 0,025 %

| ART. NO.   | VOLUME | CONTAINER |
|------------|--------|-----------|
| ME02150050 | 50 g   |           |
| ME02150100 | 100 g  |           |
| ME02150250 | 250 g  |           |

## MERCURY(II) OXIDE YELLOW

ME0213 Mercury(II) oxide, yellow, ExpertQ®, for analysis, ACS, Reag. Ph Eur



- $\text{HgO}$
- $M = 216,59 \text{ g/mol}$
- CAS [21908-53-2]
- EINECS-No.: 244-654-7
- Solub. in water: (25 °C): 0,052 g/l
- Melting point: > 400 °C (decomposes)
- Vapour pressure: (20 °C) 0,0012 hPa
- LD 50 (oral, rat): 18 mg/kg
- EC-Index-No.: 080-002-00-6
- ADR: 6.1 T5 II UN 1641
- IMDG: 6.1 II UN 1641
- IATA/ICAO: 6.1 II UN 1641
- GHS-signal word: Danger

- GHS-H sentences: H300 - H310 - H330 - H373 - H400 - H410
- GHS-P sentences: P260 - P284 - P320 - P361 - P405 - P501a
- Tariff number: 2852 10 00 00
- Applications: analytical chemistry, laboratory reagent, catalyst (synthesis of organic products), painting, pigment (in porcelain industry), for determination of: nitrogen (Kjeldahl).

assay (complexometric) . . . . . min. 99,0 %  
identity (IR-spectrum) . . . . . passes test  
insoluble in HCl . . . . . max. 0,03 %  
chlorides (Cl) . . . . . max. 0,025 %  
sulfates ( $\text{SO}_4$ ) . . . . . max. 0,01 %  
nitrogen compounds (as N) . . . . . max. 0,005 %  
cadmium (Cd) . . . . . max. 0,001 %  
iron (Fe) . . . . . max. 0,003 %  
residue after reduction . . . . . max. 0,05 %

| ART. NO.   | VOLUME | CONTAINER |
|------------|--------|-----------|
| ME02130100 | 100 g  |           |

## MERCURY(II) SULFATE

- Synonyms: Mercury bisulfate
- $\text{HgSO}_4$
- $M = 296,65 \text{ g/mol}$
- CAS [7783-35-9]
- EINECS-No.: 231-992-5
- Solub. in water: (20 °C): hydrolysis reaction
- Ignition temp.: > 450 °C

- LD 50 (oral, rat): 57 mg/kg
- EC-Index-No.: 080-002-00-6
- ADR: 6.1 T5 II UN 1645
- IMDG: 6.1 II UN 1645
- IATA/ICAO: 6.1 II UN 1645
- GHS-signal word: Danger

- GHS-H sentences: H300 - H310 - H330 - H373 - H400 - H410
- GHS-P sentences: P260 - P284 - P320 - P361 - P405 - P501a
- Tariff number: 2852 10 00 00
- Applications: analytical chemistry, laboratory reagent, electrolyte for batteries.