Химическое потребление кислорода

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Chemical oxygen demand (COD) is an indirect measurement of the amount of organic matter in a sample commonly used in water analysis. These reagents break down organic matter and oxidise the compounds, creating a demand for oxygen to complete the reaction.

Scharlau

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

- Synonyms: Iron(II) ammonium sulfate, Ferrous ammonium sulfate, Mohr's salt
- (NH4)2Fe(SO4)2·6H2O
- M = 392,14 g/mol
- CAS [7783-85-9]
- EINECS-No.: 233-151-8
- Solub. in water: (20 ºC): 269 g/l
- Melting point: 100 ºC
- Tariff number: 2842 90 80 00
- Applications: analytical chemistry, synthesis of polymers, photography.

SPECIFICATIONS
assay (permanganometric): 99,0 - 101,5 %
insoluble in diluted H2SO4: max. 0,01 %
pH (5 %, H2O): 3,0 - 5,0
chlorides (Cl): max. 0,001 %
phosphates (as PO4): 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 %

Volume
x 500 g
Reference
HI03160500
Packaging
x 500 g :: Plastic bottle
Volume
x 1 kg

Reference
HI03161000
Packaging
x 1 kg :: Plastic bottle

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

- (NH4)2Fe(SO4)2·6H2O
- 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.

SPECIFICATIONS
titer : 0,119 - 0,129 mol/l
uncertainty : ± 0,001

1 ml = 0,047056 g (NH4)2Fe(SO4)2·6H2O 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).

Mercury(II) sulfate, for analysis, ExpertQ®, ACS

- Synonyms: Mercury bisulfate
- HgSO4
- M = 296,65 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 - H410
- GHS-P sentences: P260 - P284 - P301+P310 - P320 - P405 - P501a
- Tariff number: 2852 10 00 00
- Applications: analytical chemistry, laboratory reagent, electrolyte for batteries.

SPECIFICATIONS
assay (complexometric): min. 99 %
chlorides (Cl): max. 0,003 %
nitrates (NO3): passes test
cadmium (Cd): max. 0,001 %

calcium (Ca): max. 0,003 %
copper (Cu): max. 0,001 %
iron (Fe): max. 0,003 %
lead (Pb): max. 0,001 %
mercury (I) (as Hg): max. 0,15 %
nickel (Ni): max. 0,001 %
potassium (K): max. 0,002 %
zinc (Zn): max. 0,001 %
Residue after reduction: max. 0,02 %
suitability for COD: passes test

Potassium dichromate 0,04 mol/l / mercury(II) sulfate 80 g/l, solution in sulfuric acid, for COD determination, according to ISO 6060

- Density: ~ 1,19 g/cm3
- Solub. in water: (20 ºC): miscible
- ADR: 8 CT1 II UN 2922
- IMDG: 8 II UN 2922
- IATA/ICAO: 8 II UN 2922
- GHS-signal word: Danger
- GHS-H sentences: H331 - H334 - H340 - H350 - H360FD - H373 - H314 - H302 - H317 - H411
- GHS-P sentences: P260 - P303+P361+P353 - P305+P351+P338 - P310 - P320 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, determining COD.
- Appearance: Orange liquid

SPECIFICATIONS
titer : 0,039 - 0,041
uncertainty : ± 0,001

1 ml = 0,01176 g K2Cr2O7 This volumetric solution was checked by means of volumetric methods using an ammonium iron(II) sulfate standard solution, that was also checked against Scharlau's potassium dichromate volumetric standard. Scharlau's volumetric standards are directly traceable to the Standard Reference Materials from NIST (National Institute of Standards and Technology, USA).

Potassium dichromate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur

- Synonyms: Potassium bichromate, Potassium pyrochromate
- K2Cr2O7
- M = 294,19 g/mol
- CAS [7778-50-9]
- EINECS-No.: 231-906-6
- Solub. in water: (20 ºC): 130 g/l
- Melting point: 398 ºC
- Boiling point: > 500 ºC
- LD 50 (oral, rat): 25 mg/kg
- EC-Index-No.: 024-002-00-6
- ADR: 6.1 T5 II UN 3288
- IMDG: 6.1 II UN 3288
- IATA/ICAO: 6.1 II UN 3288

- GHS-signal word: Danger
- GHS-H sentences: H272 - H301 - H330 - H334 - H340 - H350 - H360FD - H372 - H314 - H400 - H410 - H312 - H317
- GHS-P sentences: P221 - P301+P310 - P303+P361+P353 - P305+P351+P338 - P320 - P370+P378 - P405 - P501a
- Tariff number: 2841 50 00 00
- Applications: oxidizing agent, synthesis of organic products, manufacture of dyes, painting.
- Appearance: Orange solid

SPECIFICATIONS
assay (iodometric): min. 99,9 %
insoluble matter: max. 0,005 %
chlorides (Cl): max. 0,001 %
sulfates (SO4): max. 0,005 %
calcium (Ca): max. 0,002 %
copper (Cu): max. 0,001 %
iron (Fe): max. 0,001 %
lead (Pb): max. 0,005 %
sodium (Na): max. 0,02 %
loss on drying (105 ºC): max. 0,05 %

Scharlau

Potassium dichromate, solution 0,04 mol/l, for COD determination

- K2Cr2O7
- M = 294,19 g/mol
- CAS [7778-50-9]
- EINECS-No.: 231-906-6
- Density: 1,004 g/cm3
- LD 50 (oral, rat): 25 mg/kg (toxic component)
- EC-Index-No.: 024-002-00-6
- ADR: 6.1 T4 III UN 3287
- IMDG: 6.1 III UN 3287
- IATA/ICAO: 6.1 III UN 3287
- GHS-signal word: Danger
- GHS-H sentences: H334 - H340 - H350 - H360FD - H373 - H315 - H319 - H317 - H412
- GHS-P sentences: P260 - P284 - P305+P351+P338 - P321 - P405 - P501a
- Tariff number: 2841 50 00 00
- Applications: analytical chemistry (determining COD), oxidizing agent.

SPECIFICATIONS
factor: 0,999 - 1,001
uncertainty ± 0,001

1 ml = 0,01176 g K2Cr2O7 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. Scharlau's volumetric standards are directly traceable to the Standard Reference Materials from NIST (National Institute of Standards and Technology, USA).

Scharlau

Silver sulfate, for analysis, ExpertQ®, ACS

- Synonyms: Sulfuric acid silver salt
- Ag2SO4
- M = 311,79 g/mol

- CAS [10294-26-5]
- EINECS-No.: 233-653-7
- Solub. in water: (25 ºC): 8 g/l
- Melting point: 655 ºC
- LD 50 (oral, rat): ~ 5000 mg/kg
- ADR: 9 M7 III
UN 3077
- IMDG: 9 III UN 3077
- IATA/ICAO: 9 III UN 3077
- GHS-signal word: Danger
- GHS-H sentences: H318 - H410
- GHS-P sentences: P280 - P273 - P305+P351+P338 - P310 - P391 - P501a
- Tariff number: 2843 29 00 90
- Applications: analytical chemistry, laboratory reagent, catalyst (determining COD).

SPECIFICATIONS
assay (argentometric): min. 99,5 %
identity: passes test
insoluble in water and silver chloride: max. 0,02 %
chlorides (Cl): max. 0,001 %
nitrates (NO3): max. 0,001 %
copper (Cu): max. 5 ppm
iron (Fe): max. 10 ppm
lead (Pb): max. 10 ppm
nickel (Ni): max. 10 ppm
zinc (Zn): max. 5 ppm
non precipitable with HCl (as SO4): max. 0,03 %

Scharlau

Silver sulfate, solution 0,66% in sulfuric acid

- Ag2SO4
- M = 311,79 g/mol
- CAS [10294-26-5]
- EINECS-No.: 233-653-7
- Density: 1,84 g/cm3
- Solub. in water: (20 ºC): miscible
- ADR: 8 C1 II UN 3264
- IMDG: 8 II UN 3264
- IATA/ICAO: 8 II UN 3264
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303+P361+P353 - P305+P351+P338 - P310 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: determining COD (catalyst).

SPECIFICATIONS
mixture: 0,66g of silver sulfate in 100 ml of sulfuric acid 96%

Scharlau

Silver sulfate, solution 1% in sulfuric acid, for COD determination, according to ISO 6060

- Ag2SO4
- M = 311,79 g/mol
- CAS [10294-26-5]
- EINECS-No.: 233-653-7

- Density: 1,84 g/cm3
- Solub. in water: (20 ºC): miscible
- Boiling point: > 340 °C
- LD 50 (oral, rat): 2140 mg/kg (sulfuric acid)
- ADR: 8 C1 II UN 3264
- IMDG: 8 II UN 3264
- IATA/ICAO: 8 II UN 3264
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303+P361+P353 - P305+P351+P338 - P310 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: determining COD (catalyst).

SPECIFICATIONS
mixture: 1 g of silver sulfate in 100 ml of sulfuric acid 96%

Scharlau

Sulfuric acid, 95 - 97%, for analysis, ExpertQ®, ISO, Reag. Ph Eur

- Synonyms: Sulphuric acid
- H2SO4
- M = 98,08 g/mol
- CAS [7664-93-9]
- EINECS-No.: 231-639-5
- Density: 1,84 g/cm3
- Solub. in water: (20 ºC): miscible
- Melting point: ~ -15 ºC
- Boiling point: ~ 310 ºC
- Vapour pressure: (20 ºC) ~ 0,0001 hPa
- LD 50 (oral, rat): 2140 mg/kg
- EC-Index-No.: 016-020-00-8
- ADR: 8 C1 II UN 1830
- IMDG: 8 II UN 1830
- IATA/ICAO: 8 II UN 1830
- GHS-signal word: Danger
- GHS-H sentences: H290 - H314
- GHS-P sentences: P260 - P303+P361+P353 - P305+P351+P338 - P310 - P405 - P501a
- Tariff number: 2807 00 00 00
- Applications: analytical chemistry, laboratory reagent, acidifying agent, synthesis of organic products, nitrogen determinations.

SPECIFICATIONS
assay (acidimetric): 95,0 - 97,0 %
appearance: clear and colourless
colour (Hazen): max. 10
density (20º/20º): 1,834 - 1,837
oxidisable substances: passes test
Identification sulfates: passes test
chlorides (Cl): max. 0,5 ppm
nitrates (NO3): max. 0,5 ppm
nitrates and nitrites (as NO3): max. 0,2 ppm
ammonium (NH4): max. 2 ppm
arsenic (As): max. 0,02 ppm
copper (Cu): max. 0,1 ppm
iron (Fe): max. 0,5 ppm
lead (Pb): max. 0,1 ppm
heavy metals (as Pb): max. 2 ppm
substances reducing KMnO4 : max. 5 ppm
residue on ignition: max. 0,001 %

Sulfuric acid, solution 4 mol/l (8 N), for COD determination, according to ISO 6060

- H_2SO_4
- M = 98,08 g/mol
- CAS [7664-93-9]
- EINECS-No.: 231-639-5
- Density: ~ 1,23 g/cm3
- EC-Index-No.: 016-020-00-8
- ADR: 8 C1 II UN 2796
- IMDG: 8 II UN 2796
- IATA/ICAO: 8 II UN 2796
- GHS-signal word: Danger
- GHS-H sentences: H290 - H314
- GHS-P sentences: P260 - P303+P361+P353 - P305+P351+P338 - P310 - P405 - P501a
- Tariff number: 2807 00 00 00
- Applications: analytical chemistry, laboratory reagent, neutralising agent.

SPECIFICATIONS
factor: 0,999 - 1,001
uncertainty ± 0,001

1 ml = 0,39232 g H_2SO_4 This solution was analysed using a certified reference material (tris(hydroxymethyl)-aminomethane). The certified reference material is ISO 17034 accredited, measured according to ISO/IEC 17025 and traceable to the International System of Units by means of a Standard Reference Material from NIST: SRM® 723 (Tris(hydroxymethyl)aminomethane $(HOCH_2)_3CNH_2$ (Acidimetric Standard)).

Volume
x 1 l
Reference
AC20751000
Packaging
x 1 l :: Glass bottle

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