



ACIDS

BIOCHEM CHEMOPHARMA
Laboratory Reagents & Fine Chemicals

ACETIC ACID GLACIAL

Analytical Reagent

CH₃COOH MW=60.05 1 L + 2.5 L

Product code: 10112

C.A.S: 64-19-7

EINECS: 200-580-7



H226-H314

P210-P280-P301 + P330 + P331-P303+P361+P353-P304+P340-P305+P351+P338-P501

Assay (acidimetric)	Min 99.7 %
Freezing point	Min 16.2°C
Wt.per ml	at 20°C 1.048 - 1.050 g
Acetic anhydride [(CH ₃ CO) ₂ O]	Max 0.2 %
Formate (H.COO)	Max 0.05 %
Water insoluble matter	Passes test
Water	Max 0.2 %
Sulfate (SO ₄)	Max 0.0001 %
Non-volatile matter	Max 0.001 %
Chloride (Cl)	Max 0.0001 %
Arsenic (As)	Max 0.00005 %
Copper (Cu)	% Max 0.00004
Iron (Fe)	Max 0.00002 %
Lead (Pb)	Max 0.00001 %
Substance reducing dichromate (O)	Max 0.003 %

ACETIC ACID GLACIAL

For Synthesis

CH₃COOH MW=60.05 1 L + 2.5 L

Product code: 10113

C.A.S: 64-19-7

EINECS: 200-580-7



H226-H314

P210-P280-P301 + P330 + P331-P303+P361+P353-P304+P340-P305+P351+P338-P501

Assay (acidimetric)	Min 99.5 %
Weight/ mL	at 20°C 1.047 - 1.052 g
Freezing point	15.5 °C
Chloride (Cl)	Max 0.0005 %
Sulphate (SO ₄)	Max 0.0005 %
Arsenic (As)	Max 0.0002 %
Iron (Fe)	Max 0.0002 %
Lead (Pb)	Max 0.0002 %
Non volatile matter	Max 0.01 %
Appearance	Clear colorless liquid

FORMIC ACID ABOUT 85%

Analytical Reagent

CH₂O₂ MW=46.03 1 L

Product code: 10098

C.A.S: 64-18-6

EINECS:200-579-1



H302+H312+H332-H319-H225

P210-P280-P302+P352-P304+P340-P305+P351+P338-P370+P378-P403+P235-P501

Assay	Min 98.0%
Wt /ml	at 20°C 1.216 to 1.220 g
Freezing point °C	Min 5.5
Water insoluble matter	Passes test
Acetic acid (as CH ₃ COOH)	Max 0.3%
Chloride (Cl)	Max 0.0005%
Nitrogen compound (N)	Max 0.002%
Sulfate (SO ₄)	Max 0.001%
Sulfite (SO ₃)	Max 0.001%
Copper (Cu)	Max 0.0005%
Iron (Fe)	Max 0.0003%
Lead (Pb)	Max 0.0005%
Non volatile matter	Max 0.002%

FORMIC ACID ABOUT 85%

For Synthesis

CH₂O₂ MW=46.03 1 L

Product code: 10097

C.A.S: 64-18-6

EINECS:200-579-1



H314

P260-P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P310

Assay	Min 85%
Non volatile matter	Max 0.04%
Chloride (Cl)	Max 0.02%
Sulfate (SO ₄)	Max 0.01%
Heavy metals and iron	Max 0.003%
Weight/ml	at 20°C About 1.200g

HYDROCHLORIC ACID 37%

Analytical Reagent

HCl MW=36.46 2.5 L

Product code: 12498

C.A.S: 7647-01-0

EINECS: 231-595-7



H290-H314-H335

P280-P303-P361 -P353-P304-P340 -P305-P351-P338 -P310-P501a

Assay	36.5 - 38.0 %
Non volatile matter	Max 0.001%
Free chlorine (Cl)	Max 0.0002%
Sulfate (SO ₄)	Max 0.0005%
Sulfite (SO ₃)	Max 0.0001%
Aluminium (Al)	Max 0.00005%
Ammonium (NH ₄)	Max 0.0003%
Arsenic (As)	Max 0.000002%
Copper (Cu)	Max 0.00001%
Iron (Fe)	Max 0.00004%
Lead (Pb)	Max 0.00005%

HYDROCHLORIC ACID 35-38%

Analytical Reagent

HCl MW=36.46

2.5 L + 5 L

Product code: 12500
 C.A.S: 7647-01-0
 EINECS: 231-595-7



H314-H335
 P261-P280-P305 + P351 + P338-P310

Assay	Min 35.4%
Non volatile matter	Max 0.001%
Free chlorine (Cl)	Max 0.0002%
Sulfate (SO4)	Max 0.0005%
Sulfite (SO3)	Max 0.0001%
Aluminium (Al)	Max 0.00005%
Ammonium (NH4)	Max 0.0003%
Arsenic (As)	Max 0.000002%
Copper (Cu)	Max 0.00001%
Iron (Fe)	Max 0.00004%
Lead (Pb)	Max 0.00005%

HYDROCHLORIC ACID 35-38%

Laboratory Reagent

HCl MW=36.46

2.5 L + 5 L

Product code: 12501
 C.A.S: 7647-01-0
 EINECS: 231-595-7



H314-H335
 P261-P280-P305 + P351 + P338-P310

Assay	Min 35.4 %
Non volatile matter	Max 0.001 %
Free chlorine (CL)	Max 0.0002 %
Sulphate (SO4)	Max 0.0005 %
Sulphite (as SO3)	Max 0.0001 %
Aluminium (Al)	Max 0.00005 %
Ammonium (NH4)	Max 0.0003 %
Asenic (As)	Max 0.000002 %
Copper (Cu)	Max 0.00001 %
Iron (Fe)	Max 0.00004 %
Lead (Pb)	Max 0.00005 %
Appearance	Clear colorless fuming liquid

NITRIC ACID 69-71%

Analytical Reagent

HNO₃ MW=63.01**1 L + 2.5 L**

Product code: 51430
 C.A.S: 7697-37-2
 EINECS: 231-714-2



H330-H272-H314
 P210-P280-P301-P330-P331-P303+P361+P353-P304+P340-P305+P351+P338-P370+P378-P501

Assay	69 - 70.0%
Color	Max 10 APHA
Wt.per ml	at 20°C 1.41 - 1.42 g
Residue on ignition	Max 0.0005%
Chloride (Cl)	Max 0.00005%
Phosphate and silicate (SiO2)	Max 0.0001%
Sulphate (SO4)	Max 0.0001%
Arsenic (As)	Max 0.000001%
Copper (Cu)	Max 0.00001%
Iron (Fe)	0.00002%
Heavy metal (as Pb)	Max 0.00002%
Manganese (Mn)	Max 0.00004%

ORTHOPHOSPHORIC ACID ABOUT 85%

Analytical Reagent

H3PO4 MW=98.00

1 L + 2.5 L

Product code: 11700
 C.A.S: 7664-38-2
 EINECS: 231-633-2



H314
 P260-P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P310

Assay Min	Min 85 %
Weight/ml	at 20°C About 1.71 g
Chloride (Cl)	Max 0.0005 %
Nitrate (NO3)	Max 0.0005 %
Silicate (SiO2)	Max 0.025 %
Sulfate (SO4)	Max 0.002 %
Arsenic (As)	Max 0.0001 %
Calcium (Ca)	Max 0.004 %
Copper (Cu)	Max 0.0005 %
Iron (Fe)	Max 0.0015 %
Lead (Pb)	Max 0.001 %
Magnesium (Mg)	Max 0.004 %
Manganese (Mn)	Max 0.0005 %
Potassium (K)	Max 0.005 %
Substance reducing KMnO4 (as O)	Max 0.001 %
Volatile acids (as CH3COOH)	Max 0.001 %

ORTHOPHOSPHORIC ACID ABOUT 85% Laboratory Reagent H₃PO₄ MW=98.00 **1 L + 2.5 L**

Product code: 11604
 C.A.S: 7664-38-2
 EINECS: 231-633-2



H314
 P260-P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P310

Assay (acidimetric)	84-90%
Relative density	About 1.7
Solubility	To comply the test
Identification	To comply the test
Appearance of solution	To comply the test
Substance precipitated by NH ₃	To comply the test
Hypophosphorous acid and phosphorous acid	To comply the test
Alkali phosphate	To comply the test
Aluminium and calcium (Al, Ca)	To comply the test
Chloride (Cl)	Max 0.005%
Sulfate (SO ₄)	Max 0.01%
Arsenic (As)	Max 0.0002%
Iron (Fe) Max	Max 0.005%
Heavy metal (as Pb)	Max 0.001%

SULFURIC ACID 98%

Analytical Reagent

H₂SO₄ MW=98.08 **2.5 L**

Product code: 11904
 C.A.S: 7664-93-9
 EINECS: 231-639-5



H314
 P260-P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P310

Assay	Min 98 %
Non-volatile matter	Max 0.002 %
Chloride (Cl)	Max 0.00002 %
Nitrate (NO ₃)	Max 0.00002 %
Ammonium (NH ₄)	Max 0.0002 %
Arsenic (As)	Max 0.000005 %
Copper (Cu)	Max 0.00001 %
Iron (Fe)	Max 0.0001 %
Lead (Pb)	Max 0.0001 %
Selenium (Se)	Max 0.001 %
Substances reducing permanganate (O)	Max 0.0001 %
Appearance	A clear oily liquid, not more than 10 hazen unit color

SULFURIC ACID 98%

Laboratory Reagent

H₂SO₄ MW=98.08 **2.5 L**

Product code: 11901
 C.A.S: 7664-93-9
 EINECS: 231-639-5



H314
 P260-P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P310

Assay (alkalimetric)	Min 98%
Chloride (Cl)	Max 0.0002%
Nitrate (NO ₃)	Max 0.0005%
Heavy metals (as Pb)	Max 0.0005%
Ammonium (NH ₄)	Max 0.0005%
Arsenic (As)	Max 0.00001%
Iron (Fe)	Max 0.0002%
Substances reducing by KMnO ₄ (as O)	Max 0.02 ml N/1%
Residue on ignition	Max 0.005%
Wt/ml	at 20°C About 1.84

PERCHLORIC ACID 70%

Analytical Reagent

HClO₄ MW=100.46 **500 ml**

Product code: 61005
 C.A.S: 7601-90-3
 EINECS: 231-512-4



H271-H290-H302-H314-H373
 P210-P260-P280-P305 + P351 + P338-P370 + P378-P371 + P380 + P375

Assay	Min 68 and Max
Calcium (Ca)	Max 0.0001 % 72 %
Chlorate	Max 0.001 %
Chromium (Cr)	Max 0.00005 %
Colour APHA	Max 10
Copper (Cu)	Max 0.00002 %
Iron (Fe)	Max 0.0001 %
Lead (Pb)	Max 0.00002 %
Magnesium (Mg)	Max 0.00005 %
Nickel (Ni)	Max 0.00001 %
Potassium (K)	Max 0.00002 %
Sodium (Na)	Max 0.0002 %
Total chloride (Cl)	Max 0.0001 %
Total nitrogen (N)	Max 0.002 %
Total phosphorus (P)	Max 0.0002 %
Total silicon (Si)	Max 0.0001 %