



**KETUA PENDAFTAR  
INSTITUSI PENDIDIKAN TINGGI SWASTA  
REGISTRAR GENERAL  
PRIVATE HIGHER EDUCATIONAL INSTITUTIONS**

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Ruj. Kami : JPT/GS 1000- 37 Jld. 7 (25)  
Tarikh : 1 April 2016

## **Senarai Edaran**

YBhg. Datuk/Dato'/Datin/Prof./Dr./Tuan/Puan,

### **PENURUNAN KUASA MENANDATANGANI SIJIL PELEPASAN PERINTAH CUKAI BARANG DAN PERKHIDMATAN (CBP), BUTIRAN 5(C), PERINTAH CBP (PELEPASAN)(PINDAAN (NO. 2) 2015)**

Dengan hormatnya perkara atas dirujuk.

2. Seperti YBhg. Datuk/Dato'/Datin/Prof./Dr./Tuan/Puan sedia maklum, Cukai Barang dan Perkhidmatan (CBP) merupakan cukai kepenggunaan yang dikenakan ke atas pembekalan bercukai. Pembekalan bercukai adalah pembekalan barang/ perkhidmatan yang berkadar standard dan CBP yang dikenakan adalah pada kadar 6% dan yang berkadar sifar (0%).
  3. Adalah dimaklumkan bahawa Institusi Pendidikan Tinggi Swasta (IPTS) perlu membayar CBP ke atas perolehan barang/ perkhidmatan yang telah dibekalkan. Namun begitu, terdapat pelepasan oleh Kementerian Kewangan (MOF) daripada membayar CBP yang diberikan kepada orang-orang tertentu ke atas perolehan barang-barang tertentu seperti yang dinyatakan di dalam Perintah CBP (Pelepasan) 2014 [P.U.(A) 273] bertarikh 13 Oktober 2014. IPTS telah diberikan pelepasan melalui Butiran 5(c), Jadual Pertama Perintah CBP (Pelepasan) 2014 ke atas perolehan bagi 4 kategori barang sahaja (Rujuk Lampiran A1, A2, A3 dan A4).
  4. Prosedur Pelepasan CBP memerlukan pengeluaran Sijil Pelepasan CBP (*Certificate of GST Relief-CoGSTR*) yang perlu ditandatangani oleh orang yang diberi kuasa seperti yang dinyatakan di dalam Butiran 5(c), Jadual Pertama Perintah CBP (Pelepasan) 2014. Bagi IPTS orang yang diberi kuasa adalah Naib Canselor atau mana-mana pegawai yang diberi kuasa olehnya. Namun demikian, bagi tujuan pengawalan, pindaan telah dibuat melalui Perenggan 3(a)(ii)(B), pewartaan Perintah CBP (Pelepasan) (Pindaan)(No. 2) 2015 [P.U.(A) 291] di mana orang yang diberi kuasa untuk menandatangani Sijil Pelepasan CBP adalah Ketua Pengarah, Kementerian Pendidikan Tinggi (KPT) atau mana-mana pegawai yang diberi kuasa olehnya.
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5. Selaras dengan perkara ini, Ketua Pengarah KPT bersetuju untuk menurunkan kuasa kepada Ketua Eksekutif IPTS yang diluluskan oleh Ketua Pendaftar IPTS untuk menandatangani Sijil Pelepasan Cukai Barang dan Perkhidmatan (Pelepasan) 2014. Ketua Eksekutif adalah bertanggungjawab memastikan semua syarat dan peraturan kewangan yang berkuat kuasa dipatuhi sepenuhnya. Penurunan kuasa ini juga tertakluk di bawah seksyen 33 Akta Institusi Pendidikan Tinggi Swasta 1996 (Akta 555) serta peraturan-peraturan di bawahnya. Penurunan kuasa ini berkuat kuasa mulai tarikh surat ini dikeluarkan.

6. Sehubungan dengan itu, bersama-sama ini dilampirkan sesalinan dokumen berkaitan perkara tersebut untuk perhatian pihak YBhg. Datuk/Dato'/Datin/Prof./Dr./Tuan/Puan. Kerjasama dan perhatian YBhg. Datuk/Dato'/Datin/Prof./Dr./Tuan/Puan terhadap perkara ini amatlah kami hargai dan didahulukan dengan ucapan terima kasih.

Sekian.

**“BERKHIDMAT UNTUK NEGARA”**

Saya yang menurut perintah,



**(DATO' PROF. DR. ASMA BINTI ISMAIL)**

Ketua Pendaftar  
Institusi Pendidikan Tinggi Swasta  
Kementerian Pendidikan Tinggi


s.k

1. Timbalan Ketua Pengarah Pendidikan Tinggi (IPTS)  
Jabatan Pendidikan Tinggi  
Kementerian Pendidikan Tinggi
2. Setiausaha Bahagian  
Bahagian Kewangan  
Kementerian Pendidikan Tinggi
3. Ibu Pejabat Kastam Diraja Malaysia  
Bahagian GST  
Aras 3 & 4 Blok A, Menara Tulus,  
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62100 Putrajaya



**SENARAI PERALATAN YANG LAYAK MENDAPAT PELEPASAN  
DI BAWAH BUTIRAN 5 (a),(b) dan (c), JADUAL PERTAMA PERINTAH CUKAI BARANG DAN  
PERKHIDMATAN (PELEPASAN) 2014**

Bil.	Multimedia equipment directly used as a teaching aid
1	All types of printers (complete sets)
2	All types of desktop computers (complete sets)
3	All types of laptop / notebook (complete sets)
4	All types of recorders
5	Cd/Dvd Player
6	Interactive White Board & Accessories
7	LCD Monitor and Television
8	Modems
9	PA System With Accessories
10	Projector
11	Scanner
12	Visualiser
13	Wireless Microphone

  
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Equipment for Science and Linguistic Laboratory			
1	Air Powered Projectile Classroom Set	36	Kinetic Theory Kit
2	Air Track App. (C/with timer 4 digits 240-250V, Blower, Accessories Kit)	37	Laser Ray Box and Lenses
3	Aluminium Calorimeter Block 1kg	38	Lead Plate
4	Aluminium Plate (1.2mm x 2"x5" with binding post)	39	Lead Strip
5	Ammete	40	LED Lantern
6	Ampere Rule Apparatus and spherical	41	Liquid Accelerometer
7	Animals Dissection Model	42	Lungs Model
8	Aspirator	43	Magnesium Ribbon
9	Balance Lever Arm	44	Manometer
10	Ball and Ring Apparatus	45	Measuring Cylinder
11	Bar and gauge	46	Measuring Pipettes
12	Bar Magnet	47	Mega Mirrors
13	Beehive Shelf	48	Micrometer Screw Gauge
14	Bell Jar & Ringer	49	Microscope set
15	Bell Jar with Plate and Bell	50	Model of Animal Cell
16	Bernoulli's Tube	51	Model of Human
17	Bimetallic Strip (set of 10 units) Size 32.5 (L) x 2cm (W)	52	Model of Kidney, Nephron
18	Blood Pressure Monitor Digital	53	Model of Leaf Structure
19	Bourdon Gauge	54	Model of Plant Cell with Stand
20	Bowed Crucible Tongs	55	Model of Vertebral
21	Boyle's Law Apparatus (with Charles' Law Attachment)	56	Motor Electric AC
22	Brass Calorimeter Block	57	Multi Lab Support Kit
23	Brass Plate	58	Newton Demonstrator
24	Bunsen Burner	59	Newton Ring
25	Burette	60	Nichrome Wire
26	Burette Clamp	61	Ohm's Law Experiment Kit
27	Calorimeter Metal	62	Optical Bench Set
28	Carbon Electrode	63	Organic Chemistry Set
29	Circuit Board	64	Parallel Plate Capacitor
30	Compass	65	Pascal's Ball App.
31	Concave Convex Mirror Set	66	Pascal's Demonstrator
32	Concave Lens	67	Pascal's Law Apparatus
33	Conical Flask	68	Physics Workshop Bundle
34	Crucible with Lids	69	Pipe Clay Triangle
35	Demonstration Electric Bell	70	Pipette set

  
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Equipment for Science and Linguistic Laboratory			
71	Demonstration Transformer	106	Plain Micro Slides
72	Density Blocks	107	Plasma Globe
73	Desiccators	108	Pocket Oscilloscope
74	Desk Mercury Sphygmomanometer	109	Polythene Rod
75	Diffraction Grating Glasses Classroom Set	110	Porcelain Spotting Plate
76	Digital Multimeter	111	Porous Pot
77	Digital Strobe	112	Portable Bunsen Head
78	Digital Thermometer	113	Portable Micro Burner
79	Disarticulated Column	114	Potentiometer
80	Discharge Electrode	115	Power & energy meter with Interface
81	Dissectible Leyden Jar	116	Immersion Heater
82	Dissecting Set	117	Induction Current Generator
83	Dissecting Tray	118	Internal Calliper
84	Distill Water Set	119	J-Tube Glass
85	Dive Ball Demo Model	120	Light Guide Demonstrator
86	Drop Cylindrical 250mm	121	Pyrex Filter Funnel
87	Dropping Bottle with Polycap	122	Renal Corpuscle Set
88	Dual Voltmeter/Ammeter	123	Renewable Energy Education Set
89	E.H.T Power Supply	124	Resistance Decade
90	Elasticity of Gasses Demo	125	Respiratory System Model
91	Electrostatic Kit (pitch balls)	126	Retort Stand Set
92	Electric Bell	127	Ripple Tank Kit
93	Electric Field Apparatus	128	Round Bottom Flask
94	Electric Motor & Dynamo (with magnet)	129	Rubber Bulb Filler
95	Electric Vacuum Pump	130	Separating Funnel
96	Electricity & Magnetism Bulb Demo	131	Signal Generator
97	Electricity & Magnetism Discovery Pack	132	Skeleton Model
98	Electrod Holder (for rod)	133	Sliding Rheostat
99	Electrode Carbon	134	Smoke Box Kit
100	Electrolysis Cell	135	Smoke Cell
101	Electromagnet Kit	136	Solenoid Air Core
102	Electronic Kit	137	Sound and Waves Interference Kit
103	Electroscope, Flask Form	138	Sound Propagation Demonstrating Apparatus
104	Electrostatic Kit	139	Spark Timer
105	Energy Discovery Pack	140	Spectrum Analysis Set

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Diluluskan pada 27 Mei 2015



Equipment for Science and Linguistic Laboratory			
141	Eureka Can	167	St Louis Motor
142	External Calliper	168	Standing Wave Kit
143	Eye Model	169	Steam Distillation Set
144	Filter Funnel	170	Stethoscope
145	Filter Pump	171	Straight Crucible Tongs
146	Filtering Kit	172	Surgical Blade and scissors
147	Fire Syringe	173	Test Tube set
148	Flat Botto	174	Thermometer set
149	Food Calorimeter Force Table	175	Thistle Funnel
150	Free fall apparatus	176	Triple Beam Balance
151	Friction measuring apparatus	177	Trolley Dynamic
152	Friction Rod Kit Frosted End Micro Slides	178	USB Digital Microscope
153	Fume Hood	179	U-Shape Steel Yoke
154	Galvanometer	180	U-Tube
155	Gas Jar	181	UV Meter
156	Gas Laws Discovery Pack	182	Vacuum Pump
157	Globe	183	Van de Graff Generator
158	Go Motion Sensor	184	Velocity Radar Gun
159	Green Laser	185	Visual Electricity Demonstrator
160	Hand Stroboscope	186	Voltmeter
161	Hofmann's Voltmeter	187	Volumetric Flask
162	Hook's Law Apparatus	188	Water Level Apparatus
163	Household Circuit	189	Wave App Shows Transverse & Longitudinal Wave
164	Hydraulic Press (plastic cylinder type)	190	Wave Experiment Apparatus
165	Ice Melting Blocks	191	Zero point galvanometer
166	Lever Balance		

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Tools and equipment for vocational studies			
Bil.	Vocational	Bil.	Cooking
1	Drill Press	1	Kitchenware
2	Belt Sander	2	Chip Forge / Blazing Hearth
3	Bandsaw / Scroll Saw	3	Refrigerator / Chiller
4	Band Saw Machine		
5	Boyle's Law Apparatus		
6	Bench Hook		
7	Flexibility Board		
8	Laminating Machine		
9	Laser Cutter		
10	Lathe Machine		
11	Low Temp. Molding		
12	Metal Stool For Workshop		
13	Drilling Machine		
14	Grinder		
15	Rotary Hammer / Trimmer		
16	Sanding Machine		
17	Sewing Machine		
18	Temperature Sensor #3100		
19	Weilding Machine		
20	Electrosmog Sensor #3159		

  
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Chemical, solution and gas for the use in science laboratory - Names of Chemicals (Solid) -			
1	Agar-agar finest Powder (C <sub>12</sub> H <sub>18</sub> O <sub>9</sub> ) <sub>x</sub>	35	Potassium Hydroxide 85%, pellet, KOH (56.11 g/mol)
2	Albumin powder (from eggs)	36	Potassium Hydrogen Carbonate, extra pure, KHCO <sub>3</sub> (100.12 g/mol)
3	Aluminium Chloride 6-Hydrate, AlCl <sub>3</sub> .6H <sub>2</sub> O (241.43 g/mol)	37	Potassium Iodate, KIO <sub>3</sub> (214.00 g/mol)
4	Aluminium Metal, Powder (Fine), Al	38	Potassium Iodide, KI (166.00 g/mol)
5	Aluminium Nitrate 9-Hydrate, Al(NO <sub>3</sub> ) <sub>3</sub> .9H <sub>2</sub> O (375.13 g/mol)	39	Potassium Manganate VII, KMnO <sub>4</sub> (158.04 g/mol)
6	Aluminium Oxide, granules (anti-bumping), Al <sub>2</sub> O <sub>3</sub>	40	Potassium Metal, K
7	Aluminium Potassium sulfate 12- Hydrate, KAl(SO <sub>4</sub> ) <sub>2</sub> .12H <sub>2</sub> O	41	Potassium Nitrate, KNO <sub>3</sub> (101.10 g/mol)
8	Aluminium Potassium sulfate 24-hydrate, K <sub>2</sub> SO <sub>4</sub> .Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .24H <sub>2</sub> O	42	Potassium Peroxydisulphate, K <sub>2</sub> S <sub>2</sub> O <sub>8</sub> (270.33g/mol)
9	Aluminium Sulfate 16-hydrate, Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .16H <sub>2</sub> O (630.38g/mol)	43	Potassium Phosphate dibasic (Potassium dihydrogen phosphate), K <sub>2</sub> HPO <sub>4</sub> (174.18 g/mol)
10	Aluminium Sulphate 18-Hydrate (pure), Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .18H <sub>2</sub> O (666.42 g/mol)	44	Potassium di-Hydrogen Phosphate anhydrous, KH <sub>2</sub> PO <sub>4</sub> (136.09g/mol)
11	Ammonium Bromide, NH <sub>4</sub> Br (97.94 g/mol)	45	Potassium Thiocyanate, KSCN (97.18 g/mol)
12	Ammonium Carbonate (NH <sub>4</sub> ) <sub>2</sub> CO <sub>3</sub>	46	Potassium Thiocyanate, KSCN, 500kg, Unlchem
13	Ammonium Carbonate (pure), (NH <sub>4</sub> ) <sub>3</sub> (CO <sub>3</sub> ) <sub>2</sub> H.NH <sub>2</sub> COONH <sub>4</sub>	47	Pyrogallol Cryst/Pyrocallic Acid, C <sub>6</sub> H <sub>3</sub> (OH) <sub>3</sub> (126.11 g/mol)
14	Ammonium Chloride (pure), NH <sub>4</sub> Cl, (53.49g/mol)	48	Resazurin Dye, Tablets (Indicator)
15	Ammonium Dichromate (NH <sub>4</sub> ) <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> , (252.06g/mol)	49	Saccharose/Sucrose, C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> (342.30 g/mol)
16	Ammonium Iodide, NH <sub>4</sub> I (144.94 g/mol)	50	Salicylic Acid, C <sub>6</sub> H <sub>4</sub> (OH)COOH (138.12 g/mol)
17	Ammonium Iron (II) Sulphate 6-hydrate, (NH <sub>4</sub> ) <sub>2</sub> Fe(SO <sub>4</sub> ) <sub>2</sub> .6H <sub>2</sub> O (392.14 g/mol)	51	Silica Gel, C <sub>12</sub> H <sub>12</sub> O <sub>11</sub>
18	Ammonium Molybdate 4-hydrate (NH <sub>4</sub> ) <sub>6</sub> Mo <sub>7</sub> O <sub>24</sub> .4H <sub>2</sub> O (1235.86g/mol)	52	Silver foil, Bendosen 25g
19	Ammonium Nitrate, extra pure, granulated, NH <sub>4</sub> NO <sub>3</sub> (80.04 g/mol)	53	Silver Nitrate, AgNO <sub>3</sub> (169.87 g/mol)
20	Ammonium Sulphate, (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> (132.13 g/mol)	54	Soda Lime Indicator
21	Amylase (Diastase from malt)	55	Sodium Acetate 3 hydrate, CH <sub>3</sub> COONa.3H <sub>2</sub> O
22	Ascorbic Acid, L(+)-Ascorbic Acide, powder, C <sub>6</sub> H <sub>8</sub> O <sub>6</sub>	56	Sodium Acetate 3-hydrate (Ethanoate), CH <sub>3</sub> COONa.3H <sub>2</sub> O (136.10 g/mol)
23	Ascorbic Acid, L(+)-Ascorbic Acide, tablet, C <sub>6</sub> H <sub>8</sub> O <sub>6</sub>	57	Sodium Alginate, C <sub>6</sub> H <sub>7</sub> O <sub>6</sub> N <sub>9</sub>
24	Barium Carbonate, BaCO <sub>3</sub> (197.34 g/mol)	58	Sodium Benzoate, C <sub>6</sub> H <sub>5</sub> COONa, 500g, Hmbg
25	Barium Chloride 2 Hydrate, extra pure, BaCl <sub>2</sub> .2H <sub>2</sub> O (244.28 g/mol)	59	Sodium Bicarbonate, NaHCO <sub>3</sub> (84.01 g/mol)
26	Barium Hydroxide 8 Hydrate, Ba(OH) <sub>2</sub> . 8H <sub>2</sub> O (315.47g/mol)	60	Sodium Bromide, NaBr
27	Barium Nitrate, extra pure, Ba(NO <sub>3</sub> ) <sub>2</sub> (261.35 g/mol)	61	Sodium Bromide, NaBr (102.90 g/mol)
28	Barium Sulphate, BaSO <sub>4</sub> (233.39 g/mol)	62	Sodium Carbonate 10-Hydrate, Na <sub>2</sub> CO <sub>3</sub> .10H <sub>2</sub> O (286.14 g/mol)
29	Bromocresol Green, C <sub>21</sub> H <sub>14</sub> Br <sub>4</sub> O <sub>5</sub> S (698.01 g/mol)	63	Sodium Carbonate, Anhydrous, Na <sub>2</sub> CO <sub>3</sub> (105.99 g/mol)
30	Bromophenol blue Indicator, pH 3.0-4.6, C <sub>19</sub> H <sub>10</sub> Br <sub>4</sub> O <sub>5</sub> S (669.96g/mol)	64	Sodium Chlorate, NaClO <sub>3</sub> (106.44 g/mol)
31	Bromothymol blue, C <sub>27</sub> H <sub>28</sub> Br <sub>2</sub> O <sub>5</sub> S (624.39 g/mol)	65	Sodium Chloride, NaCl (58.44 g/mol)
32	Calcium Carbonated-Marble Chippings, CaCO <sub>3</sub> (100.09 g/mol)	66	Sodium Citrate 2 hydrate, NaC <sub>6</sub> H <sub>5</sub> O <sub>7</sub> . 2H <sub>2</sub> O ( )
33	Calcium Carbonated-Powder Form, CaCO <sub>3</sub> (100.09 g/mol)	67	Sodium Hydrogen Carbonate, NaHCO <sub>3</sub> (84.01 g/mol)
34	Calcium Chloride Dihydrate, CaCl <sub>2</sub> .2H <sub>2</sub> O (147.02 g/mol)	68	Sodium Hydrogen Phosphate 12 hydrate, Na <sub>2</sub> HPO <sub>4</sub> . 12H <sub>2</sub> O (358.20g/mol)

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Chemical, solution and gas for the use in science laboratory -Names of Chemicals (Solid)-			
69	Calcium Chloride, anhydrous, C.P, CaCl <sub>2</sub> (110.99 g/mol)	104	Sodium Hydroxide, NaOH (40.00 g/mol)
70	Calcium Chloride, anhydrous, granules, irregular, CaCl <sub>2</sub> (110.99 g/mol)	105	Sodium Iodide, NaI (197.80 g/mol)
71	Calcium Ethanoate/Acetate hydrated, Ca(CH <sub>3</sub> COO) <sub>2</sub> .xH <sub>2</sub> O (158.17 g/mol)	106	Sodium metabisulfite, Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub> , 500g, Bendosen
72	Calcium Hydroxide (pure), Ca(OH) <sub>2</sub> (74.09/mol)	107	Sodium Metal, Na (22.99 g/mol)
73	Calcium Metal, 100g, Unichem	108	Sodium Nitrate, NaNO <sub>3</sub> (85.00 g/mol)
74	Calcium Nitrate 4-Hydrate, Ca(NO <sub>3</sub> ) <sub>2</sub> .4H <sub>2</sub> O (236.15 g/mol)	109	Sodium Nitrite, NaNO <sub>2</sub> (69.00 g/mol)
75	Calcium Oxide, (Fine), CaO (56.08 g/mol), corrosive	110	Sodium Oxalate /ethanedioate, Na <sub>2</sub> C <sub>2</sub> O <sub>4</sub>
76	Calcium Oxide, (Lump), CaO (56.08 g/mol), corrosive	111	Sodium Sulphate, Anhydrous, Na <sub>2</sub> SO <sub>4</sub> (142.04 g/mol)
77	Calcium Sulphate 2-Hydrate, CaSO <sub>4</sub> .2H <sub>2</sub> O (172.17 g/mol)	112	Sodium Sulphite, Anhydrous, Na <sub>2</sub> SO <sub>3</sub> (126.03 g/mol)
78	Calcium, Metal	113	Sodium Tetraborate (III), Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> , 500g, Bendosen
79	Catalase, from bovine liver (enzyme)	114	Sodium Tetraborate 10 Hydrate, Borax, Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> .10H <sub>2</sub> O (381.37 g/mol)
80	Charcoal Block	115	Sodium Thiocyanate, NaSCN
81	Charcoal Powder, activated	116	Sodium Thiosulphate 5-Hydrate, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> .5H <sub>2</sub> O
82	Chromium (III) Chloride 6 hydrate, CrCl <sub>3</sub> .6H <sub>2</sub> O (266.45 g/mol)	117	Starch, Soluble, (C <sub>6</sub> H <sub>10</sub> O <sub>5</sub> ) <sub>n</sub> (242.42 g/mol)
83	Citric Acid 1-hydrate, C <sub>6</sub> H <sub>8</sub> O <sub>7</sub> .H <sub>2</sub> O (210.14 g/mol)	118	Sudan III, C <sub>22</sub> H <sub>16</sub> N <sub>4</sub> O <sub>4</sub>
84	Cobalt (II) Chloride 6 Hydrate, CoCl <sub>2</sub> .6H <sub>2</sub> O (237.93 g/mol)	119	Sulphur Lump Roll
85	Cobalt (II) Sulphate 7 hydrate, CoSO <sub>4</sub> .7H <sub>2</sub> O (281.10 g/mol)	120	Sulphur Powder
86	Congo Red, [NH <sub>2</sub> C <sub>10</sub> H <sub>5</sub> (SO <sub>3</sub> Na)N:NC <sub>6</sub> H <sub>4</sub> ] <sub>2</sub> (696.70 g/mol)	121	Tartaric Acid, C <sub>4</sub> H <sub>6</sub> O <sub>6</sub> (150.09 g/mol)
87	Copper (II) Bromide anhydrous, CuBr <sub>2</sub>	122	Thymol Blue C <sub>27</sub> H <sub>30</sub> O <sub>5</sub> (466.60g/mol)
88	Copper (II) Carbonated, (Pure), CuCO <sub>3</sub> .Cu(OH) <sub>2</sub> .ca.05H <sub>2</sub> O (221.12 g/mol)	123	Toluidine Blue, C <sub>15</sub> H <sub>16</sub> N <sub>3</sub> S <sup>+</sup> (270.374 g/mol)
89	Copper (II) Chloride 2 Hydrate, CuCl <sub>2</sub> .2H <sub>2</sub> O (170.48 g/mol)	124	Trypsin (enzyme)
90	Copper (II) Chloride anhydrous, CuCl <sub>2</sub>	125	Urea, CH <sub>4</sub> N <sub>2</sub> O (60.06 g/mol)
91	Copper (II) Nitrate 2.5 Hydrate, Cu(NO <sub>3</sub> ) <sub>2</sub> .2.5H <sub>2</sub> O (232.59 g/mol)	126	Urease, tablets (enzyme)
92	Copper (II) Oxide, CuO (79.55 g/mol)	127	Urease-active meal from jack beans (enzymes)
93	Copper (II) Sulphate 5-Hydrate, CuSO <sub>4</sub> .5H <sub>2</sub> O (249.71 g/mol)	128	Zinc Carbonate, basic, 5ZnO.2CO <sub>3</sub> .4H <sub>2</sub> O (598.98 g/mol)
94	Copper (II) Sulphate, anhydrous, CuSO <sub>4</sub> (159.61 g/mol)	129	Zinc Chloride, dry Pure, CH <sub>4</sub> N <sub>2</sub> O
95	Copper metal, powder, Cu (63.54 g/mol)	130	Zinc Chloride, ZnCl <sub>2</sub> (136.29 g/mol)
96	Copper, metal turnings, Cu (63.54 g)	131	Zinc Metal, (Granulated), Zn (65.37 g/mol)
97	Cresol Red indicator, C <sub>21</sub> H <sub>18</sub> O <sub>5</sub> S (382.44g/mol)	132	Zinc Nitrate-6 hydrate, Zn(NO <sub>3</sub> ) <sub>2</sub> .6H <sub>2</sub> O (297.49 g/mol)
98	2,4-Dinitrophenylhydrazine (NO <sub>2</sub> ) <sub>2</sub> C <sub>6</sub> H <sub>3</sub> NHNH <sub>2</sub>	133	Zinc Oxide, ZnO (81.37 g/mol)
99	2,6-Dichlorophenolindophenol (DCPIP), NaOC <sub>6</sub> H <sub>4</sub> N:C <sub>6</sub> H <sub>2</sub> (Cl) <sub>2</sub> :O / C <sub>12</sub> H <sub>6</sub> Cl <sub>2</sub> NNaO <sub>2</sub> (290.09 g/mol)	134	Zinc sulfate, ZnSO <sub>4</sub> .7H <sub>2</sub> O, 500g Bds
100	D(+)-Fructose, C <sub>6</sub> H <sub>12</sub> D <sub>6</sub> (180.16 g/mol)	135	Zinc Sulphate 7-Hydrate, ZnSO <sub>4</sub> .7H <sub>2</sub> O (287.53 g/mol)
101	D(+)-Galactose, O(CHOH)4CHCH <sub>2</sub> OH (180.16 g/mol)	136	Zinc, powder, Zn (65,38 g/mol)
102	D(+)-Glucose anhydrous, C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> (180.16 g/mol)		Gas
103	D(+)-Glucose Monohydrate/Dextrose C.P, C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> .H <sub>2</sub> O	137	Butane cartridges for Bunsen burners

  
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Chemical, solution and gas for the use in science laboratory		
- Names of Chemicals (Solid) -		
		Names of Chemicals (Liquid)
138	Diastase /Amylase (enzyme)	
139	Eosin, yellowish, water soluble, C <sub>20</sub> H <sub>6</sub> Br <sub>4</sub> Na <sub>2</sub> O <sub>5</sub> (691.86 g/mol)	172 Acetaldehyde / Ethanal, CH <sub>3</sub> CHO (44.05 g/mol)
140	Ethylenediaminetetraacetic Acid/ EDTA C <sub>10</sub> H <sub>14</sub> Na <sub>2</sub> O <sub>8</sub> .2H <sub>2</sub> O	173 Acetic Acid (glacial) 99.8%, CH <sub>3</sub> COOH/C <sub>2</sub> H <sub>4</sub> O <sub>2</sub> (60.05 g/mol)
141	Invertase (enzyme)	174 Aceto Carmine (stain)
142	Iodine (Coarse), I <sub>2</sub> (253.81 g/mol)	175 Aceto Orcein (stain)
143	Iron (II) Carbonate, Saccharated, FeCO <sub>3</sub> (115.9 g/mol)	176 Acetone, CH <sub>3</sub> COCH <sub>3</sub> /(CH <sub>3</sub> ) <sub>2</sub> CO (58.08 g/mol)
144	Iron (II) Chloride, FeCl <sub>2</sub> .xH <sub>2</sub> O (126.75 g/mol)	177 Acetyl Chloride/Ethanoyl Chloride, CH <sub>3</sub> COCl (78.49 g/mol)
145	Iron (II) Oxalate 2 hydrate, FeC <sub>2</sub> O <sub>4</sub> .2H <sub>2</sub> O (179.90g/mol)	178 Ammonia 35%, NH <sub>3</sub> (17.03 g/mol)
146	Iron (II) Sulfide, FeS (87.91 g/mol)	179 Ammonium Hydroxide, NH <sub>4</sub> OH (35.05 g/mol)
147	Iron (II) Sulphate 7-Hydrate, FeSO <sub>4</sub> .7H <sub>2</sub> O (278.02 g/mol)	180 Benedict's Reagent (indicator)
148	Iron (III) Chloride 6-Hydrate, FeCl <sub>3</sub> .6H <sub>2</sub> O (270.30 g/mol)	181 Benzene, C <sub>6</sub> H <sub>6</sub> (78.11 g/mol)
149	Iron (III) Chloride, anhydrous, FeCl <sub>3</sub> (162.21g/mol)	182 Bicarbonate (indicator)
150	Iron (III) Nitrate 9-Hydrate, Fe(NO <sub>3</sub> ) <sub>3</sub> .9H <sub>2</sub> O (404.00 g/mol)	183 Biuret Reagent (indicator)
151	Iron (III) Oxide (Ferric Oxide), Fe <sub>2</sub> O <sub>3</sub> (159.70 g/mol)	184 Bromine Water
152	Iron Fillings (Coarse), Fe (55.85 g/mol)	185 Bromocresol Green (indicator), C <sub>21</sub> H <sub>14</sub> Br <sub>4</sub>
153	Iron Fillings (Fine), Fe (55.85 g/mol)	186 Bromocresol Purple (indicator), C <sub>21</sub> H <sub>16</sub> Br <sub>2</sub> O <sub>5</sub> S
154	Iron(III) Sulfate, Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .H <sub>2</sub> O (399.88.xH <sub>2</sub> Og/mol)	187 Bromothymol Blue (indicator), C <sub>27</sub> H <sub>28</sub> Br <sub>2</sub> O <sub>5</sub> S
155	Lactose, C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> .H <sub>2</sub> O (360.32 g/mol)	188 Buffer solutions (variable pH)
156	Lead (II) Bromide, PbBr <sub>2</sub> (367.05 g/mol)	189 Butanol
157	Lead (II) Nitrate, Pb(NO <sub>3</sub> ) <sub>2</sub> (331.20 g/mol)	190 Butanone, C <sub>4</sub> H <sub>8</sub> O, 500ml, Unichem
158	Lead (II) Oxide, (pure), PbO (223.20 g/mol)	191 Canada Balsam, thick, in xylol
159	Lead (II) Oxide, yellow, PbO (223.20 g/mol)	192 Chlorine Water, Cl <sub>2</sub> aq
160	Lead Acetate/ (II) Acetate 3 hydrate, Pb(CH <sub>3</sub> COO) <sub>2</sub> .3H <sub>2</sub> O (379.36 g/mol)	193 Chloroform (Trichloromethane), CHCl <sub>3</sub> (119.37 g/mol)
161	Lead Carbonate/Lead (II) Carbonate, PbCO <sub>3</sub> (267.21 g/mol)	194 Cresol Rel solution pH7.2 (yellow)-8.8 (violet)
162	Lead Chloride, PbCl <sub>2</sub> (278.12 g/mol)	195 Cyclohexane, C <sub>6</sub> H <sub>12</sub> (84.16 g/mol)
163	Lead Iodide, PbI <sub>2</sub> (461.00 g/mol)	196 Decon 90
164	Lead Oxide (Red Lead)/ Lead (II)-Lead (IV) Oxide, Pb <sub>3</sub> O <sub>4</sub> (685.57 g/mol)	197 Dichloromethane, CH <sub>2</sub> Cl <sub>2</sub>
165	Leishman's Stain	198 Diethyl Ether, C <sub>4</sub> H <sub>10</sub> O (74.12 g/mol)
166	Lipase type II (enzyme)	199 Ethanol (IMS) 95 vol%, C <sub>2</sub> H <sub>5</sub> OH (46.07 g/mol)
167	Lithium Metal (in liquid Paraffin), Li (6.94 g/mol)	200 Ethyl Acetate, CH <sub>3</sub> COOC <sub>2</sub> H <sub>5</sub> (88.11)
168	Litmus paper, blue (10 books), hamburg	201 Fehling Solution A (indicator)
169	Lycopodium Powder	202 Fehling Solution B (indicator)
170	Magnesium Carbonate 6 hydrate, Mg (OH) <sub>2</sub> .4MgCO <sub>3</sub> .6H <sub>2</sub> O (503.67 g/mol)	203 Feulgen's Solution (stain)
171	Magnesium Chloride 6 hydrate, MgCl <sub>2</sub> .6H <sub>2</sub> O (203.30 g/mol)	204 Formaldehyde Solution

  
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205	Magnesium Chloride, extra pure, MgCl <sub>2</sub> .6H <sub>2</sub> O	238	Formalin Solution
206	Magnesium Hydroxide Carbonate, Basic	239	Formula Nutrient Solution
207	Magnesium Hydroxide, Mg(OH) <sub>2</sub> (58.33 g/mol)	240	Glycerol Triacetate (Triacetin), C <sub>9</sub> H <sub>14</sub> O <sub>6</sub> (218.23 g/mol)
208	Magnesium Nitrate 6-Hydrate, Mg(NO <sub>3</sub> ) <sub>2</sub> .6H <sub>2</sub> O (256.41 g/mol)	241	Glycerol, C <sub>3</sub> H <sub>8</sub> O <sub>3</sub> (92.10 g/mol)
209	Magnesium Nitrate V Crystal	242	Hydrochloric Acid, HCl (36.46 g/mol)
210	Magnesium Oxide, Light, MgO (40.30 g/mol)	243	Hydrogen Peroxide Solution 3%, 10 vol., H <sub>2</sub> O <sub>2</sub> (aq.)
211	Magnesium Oxide, MgO (40.30 g/mol)	244	Hydrogen Peroxide Solution 6%, 20 vol., H <sub>2</sub> O <sub>2</sub> (aq.)
212	Magnesium Powder, Mg (24.31 g/mol)	245	Iodine, sublime
213	Magnesium sulfate anhydrous, MgSO <sub>4</sub> , 500g, Bendosen	246	Iodine Solution (with Potassium Iodide)
214	Magnesium Sulphate 7 hydrate, MgSO <sub>4</sub> .7H <sub>2</sub> O (246.47 g/mol)	247	2-Methylpropan-2-ol
215	Magnesium Sulphate, dried, MgSO <sub>4</sub> .xH <sub>2</sub> O	248	2-Methylpropane-1-ol / iso-Butyl alcohol (CH <sub>3</sub> ) <sub>2</sub> CH.CH <sub>2</sub> OH
216	Maltose I hydrate, C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> .H <sub>2</sub> O (360.36 g/mol)	249	Methanol, CH <sub>3</sub> OH/CH <sub>4</sub> O (32.04 mol-1)
217	Manganese (II) Carbonate, MnCO <sub>3</sub> (114.95 g/mol)	250	Methyl benzoate, C <sub>8</sub> H <sub>5</sub> COOCH <sub>3</sub>
218	Manganese (II) Chloride 4-Hydrate, MnCl <sub>2</sub> .4H <sub>2</sub> O (197.92 g/mol)	251	Methyl Green
219	Manganese (II) Sulphate 1-hydrate, MnSO <sub>4</sub> .H <sub>2</sub> O (169.02 g/mol)	252	Methyl Orange Solution (indicator)
220	Manganese (IV) Oxide 90-95%, MnO <sub>2</sub> (86.94 g/mol)	253	Methylated Spirits
221	Manganese(II) sulphate, MnSO <sub>4</sub> .4H <sub>2</sub> O	254	Methylene Blue solution, C <sub>16</sub> H <sub>18</sub> N <sub>3</sub> SO <sub>3</sub> , (319.85 g/mol)
222	Mercury (II) Chloride, HgCl <sub>2</sub> (271.50 g/mol)	255	Millon's Reagent (indicator)
223	Mercury Metal, liquid	256	n-Hexane, C <sub>6</sub> H <sub>14</sub> (86.20 g/mol)
224	Methyl Orange, C <sub>14</sub> H <sub>14</sub> O <sub>3</sub> N <sub>3</sub> Na (327.34g/mol)	257	Nitric Acid 70% HNO <sub>3</sub> (63.01 g/mol)
225	Naphthalene, C <sub>10</sub> H <sub>8</sub> (128.18 g/mol)	258	Paraffin, medical
226	Nickel (II) Chloride 6 hydrate, NiCl <sub>2</sub> .6H <sub>2</sub> O (237.70 g/mol)	259	Petroleum ether, 40-60c,
227	Nickel (II) Sulphate 6 Hydrate, NiSO <sub>4</sub> .6H <sub>2</sub> O (262.86 g/mol)	260	Phenolphthalein (indicator)
228	Nickel (II) Sulphate 7 hydrate, NiSO <sub>4</sub> .7H <sub>2</sub> O, 500g, Unichem	261	Phloroglucinol (acidified, indicator)
229	Nutrient Agar	262	Phloroglucinol Solution
230	Oxalic Acid 2-Hydrate, (COCH) <sub>2</sub> .2H <sub>2</sub> O (126.08 g/mol)	263	Phosphoric acid/ orthophosphoric acid, H <sub>3</sub> PO <sub>4</sub>
231	Paraffin Wax (block)	264	Propan-2-ol/iso-Propyl Alcohol/2-propanol, CH <sub>3</sub> CHOHCH <sub>3</sub> (60.10 g/mol)
232	Pepsin (enzyme)	265	Propanoic Acid, CH <sub>3</sub> CH <sub>2</sub> COOH (74.08 g/mol)
233	Peptone	266	Pyrrrole, C <sub>4</sub> H <sub>5</sub> N
234	Petroleum Jelly ( Vaseline, white)	267	Schiff's Reagent
235	Phenol Crystal (Carbolic Acid), C <sub>6</sub> H <sub>6</sub> O (94.11 g/mol)	268	Shultze's Solution (indicator)
236	Phenolphthalein, C <sub>28</sub> H <sub>14</sub> O <sub>4</sub> (318.33 g/mol)	269	Silicon spray, Hardex
237	Phloroglucinol, (1,2,5-Trihydroxybenzene) C <sub>6</sub> H <sub>3</sub> (OH) <sub>3</sub> .2H <sub>2</sub> O (126.11 g/mol)	270	Sodium Hypochlorite/chlorate (I), NaOCl

  
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Chemical, solution and gas for the use in science laboratory -Names of Chemicals (Solid)-			
271	Potassium Bromate, $KBrO_3$ (167 g/mol)	280	Sudan (III) solution, alcohol (Indicator), $C_6H_6N:NC_6H_4N:NC_{10}H_6OH$ (352.43 g/mol)
272	Potassium Bromide, $KBr$ (119.01 g/mol)	281	Sulphuric Acid 98%, $H_2SO_4$ (98.08 g/mol)
273	Potassium Carbonate Anhydrous, $K_2CO_3$ (138.21 g/mol)	282	Trichloroethane or Methyl Chloroform, $C_2H_3Cl_3$ or $CH_3CCl_3$ 500ml
274	Potassium Chlorate, $KClO_3$	283	Tetrachloromethane or Carbon tetrachloride, $CCl_4$ ,
275	Potassium Chloride, $KCl$ (74.56 g/mol)	284	Toluene, $C_6H_6CH_3$ (92.14 g/mol)
276	Potassium Chromate, $K_2CrO_4$ (194.19 g/mol)	285	Tymol Blue, pH 8.0 (yellow)-9.60 (violet)
277	Potassium Dichromate, $K_2Cr_2O_7$ (294.18 g/mol)	286	Universal Indicator (pH4-pH10)
278	Potassium Ferricyanide/hexacyanoferrate (III), $K_3Fe(CN)_6$	287	Xylene cyanol
279	Potassium Hexacyanoferrate (III), $K_3Fe(CN)_6$ (329.26 g/mol)		

  
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