

**OXFORD CAMBRIDGE AND RSA EXAMINATIONS
GCSE (9–1)**

J248 01/02/03/04

**CHEMISTRY A
(GATEWAY SCIENCE)**

DATA SHEET (INSERT)

JUNE 2018

MODIFIED ENLARGED

INSTRUCTIONS

Do not send this Data Sheet for marking; it should be retained in the centre or destroyed.

INFORMATION

The information in this Data Sheet is for the use of candidates following GCSE (9–1) Chemistry A (J248 01/02/03/04).



The Periodic Table of the Elements

(1) (2) (3) (4) (5) (6) (7) (0)

Key	
atomic number	
Symbol <small>name</small>	
relative atomic mass	

1		2		3										4										5										6										7										8										9										10										11										12										13										14										15										16										17										18									
1 H hydrogen 1.0		3 Li lithium 6.9	4 Be beryllium 9.0	11 Na sodium 23.0	12 Mg magnesium 24.3	19 K potassium 39.1	20 Ca calcium 40.1	37 Rb rubidium 85.5	38 Sr strontium 87.6	55 Cs caesium 132.9	56 Ba barium 137.3	87 Fr francium	88 Ra radium	21 Sc scandium 45.0	22 Ti titanium 47.9	23 V vanadium 50.9	24 Cr chromium 52.0	25 Mn manganese 54.9	26 Fe iron 55.8	43 Tc technetium	44 Ru ruthenium 101.1	45 Rh rhodium 102.9	46 Pd palladium 106.4	78 Pt platinum 195.1	79 Au gold 197.0	80 Hg mercury 200.6	104 Rf rutherfordium	105 Db dubnium	106 Sg seaborgium	107 Bh bohrium	108 Hs hassium	109 Mt meitnerium	110 Ds darmstadtium	111 Rg roentgenium	112 Cn copernicium	31 Ga gallium 69.7	32 Ge germanium 72.6	49 In indium 114.8	50 Sn tin 118.7	81 Tl thallium 204.4	82 Pb lead 207.2	114 Fl flerovium	33 As arsenic 74.9	34 Se selenium 79.0	51 Sb antimony 121.8	52 Te tellurium 127.6	83 Bi bismuth 209.0	84 Po polonium	116 Lv livermorium	5 B boron 10.8	13 Al aluminium 27.0	14 Si silicon 28.1	15 P phosphorus 31.0	31 Ga gallium 69.7	32 Ge germanium 72.6	49 In indium 114.8	50 Sn tin 118.7	81 Tl thallium 204.4	82 Pb lead 207.2	114 Fl flerovium	6 C carbon 12.0	14 Si silicon 28.1	15 P phosphorus 31.0	33 As arsenic 74.9	51 Sb antimony 121.8	83 Bi bismuth 209.0	116 Lv livermorium	7 N nitrogen 14.0	15 P phosphorus 31.0	33 As arsenic 74.9	51 Sb antimony 121.8	83 Bi bismuth 209.0	116 Lv livermorium	8 O oxygen 16.0	16 S sulfur 32.1	34 Se selenium 79.0	52 Te tellurium 127.6	84 Po polonium	116 Lv livermorium	9 F fluorine 19.0	17 Cl chlorine 35.5	35 Br bromine 79.9	53 I iodine 126.9	85 At astatine	17 Cl chlorine 35.5	35 Br bromine 79.9	53 I iodine 126.9	85 At astatine	18 Ar argon 39.9	36 Kr krypton 83.8	54 Xe xenon 131.3	86 Rn radon	2 He helium 4.0	10 Ne neon 20.2	18 Ar argon 39.9	36 Kr krypton 83.8	54 Xe xenon 131.3	86 Rn radon																																																																	

ELEMENTS LISTED IN NUMERICAL ORDER:

1	Hydrogen	H	43	Technetium	Tc
2	Helium	He	44	Ruthenium	Ru
3	Lithium	Li	45	Rhodium	Rh
4	Beryllium	Be	46	Palladium	Pd
5	Boron	B	47	Silver	Ag
6	Carbon	C	48	Cadmium	Cd
7	Nitrogen	N	49	Indium	In
8	Oxygen	O	50	Tin	Sn
9	Fluorine	F	51	Antimony	Sb
10	Neon	Ne	52	Tellurium	Te
11	Sodium	Na	53	Iodine	I
12	Magnesium	Mg	54	Xenon	Xe
13	Aluminium	Al	55	Caesium	Cs
14	Silicon	Si	56	Barium	Ba
15	Phosphorus	P	72	Hafnium	Hf
16	Sulfur	S	73	Tantalum	Ta
17	Chlorine	Cl	74	Tungsten	W
18	Argon	Ar	75	Rhenium	Re
19	Potassium	K	76	Osmium	Os
20	Calcium	Ca	77	Iridium	Ir
21	Scandium	Sc	78	Platinum	Pt
22	Titanium	Ti	79	Gold	Au
23	Vanadium	V	80	Mercury	Hg
24	Chromium	Cr	81	Thallium	Tl
25	Manganese	Mn	82	Lead	Pb
26	Iron	Fe	83	Bismuth	Bi
27	Cobalt	Co	84	Polonium	Po
28	Nickel	Ni	85	Astatine	At
29	Copper	Cu	86	Radon	Rn
30	Zinc	Zn	87	Francium	Fr
31	Gallium	Ga	88	Radium	Ra
32	Germanium	Ge	104	Rutherfordium	Rf
33	Arsenic	As	105	Dubnium	Db
34	Selenium	Se	106	Seaborgium	Sg
35	Bromine	Br	107	Bohrium	Bh
36	Krypton	Kr	108	Hassium	Hs
37	Rubidium	Rb	109	Meitnerium	Mt
38	Strontium	Sr	110	Darmstadtium	Ds
39	Yttrium	Y	111	Roentgenium	Rg
40	Zirconium	Zr	112	Copernicium	Cn
41	Niobium	Nb	114	Flerovium	Fl
42	Molybdenum	Mo	116	Livermorium	Lv

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