

**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)

1		2										18					
Key																	
atomic number																	
Symbol																	
name																	
relative atomic mass																	
		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	H hydrogen 1.0	21	22	23	24	25	26	27	28	29	30	5	6	7	8	9	2
3	Li lithium 6.9	Sc scandium 45.0	Ti titanium 47.9	V vanadium 50.9	Cr chromium 52.0	Mn manganese 54.9	Fe iron 55.8	Co cobalt 58.9	Ni nickel 58.7	Cu copper 63.5	Zn zinc 65.4	B boron 10.8	C carbon 12.0	N nitrogen 14.0	O oxygen 16.0	F fluorine 19.0	He helium 4.0
11	Na sodium 23.0	Y yttrium 88.9	Zr zirconium 91.2	Nb niobium 92.9	Mo molybdenum 95.9	Tc technetium	Ru ruthenium 101.1	Rh rhodium 102.9	Pd palladium 106.4	Ag silver 107.9	Cd cadmium 112.4	Al aluminium 27.0	Si silicon 28.1	P phosphorus 31.0	S sulfur 32.1	Cl chlorine 35.5	Ar argon 39.9
19	K potassium 39.1	Ca calcium 40.1										Ga gallium 69.7	Ge germanium 72.6	As arsenic 74.9	Se selenium 79.0	Br bromine 79.9	Kr krypton 83.8
37	Rb rubidium 85.5	Sr strontium 87.6										In indium 114.8	Sn tin 118.7	Sb antimony 121.8	Te tellurium 127.6	I iodine 126.9	Xe xenon 131.3
55	Cs caesium 132.9	Ba barium 137.3	57–71 lanthanoids									Tl thallium 204.4	Pb lead 207.2	Bi bismuth 209.0	Po polonium	At astatine	Rn radon
87	Fr francium	88	Ra radium	89–103 actinoids											116 Lv livermorium		

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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