



AS
June 2016

Chemistry

7404

Data Sheet

Insert

This Data Sheet is provided with AQA AS Chemistry question papers.

Table A
Infrared absorption data

Bond	Wavenumber /cm⁻¹
N—H (amines)	3300–3500
O—H (alcohols)	3230–3550
C—H	2850–3300
O—H (acids)	2500–3000
C≡N	2220–2260
C=O	1680–1750
C=C	1620–1680
C—O	1000–1300
C—C	750–1100

The Periodic Table of the Elements

1	2	3	4	5	6	7	0										
(1) 6.9 Li lithium 3	(2) 9.0 Be beryllium 4	(3) 45.0 Sc scandium 21	(4) 47.9 Ti titanium 22	(5) 50.9 V vanadium 23	(6) 52.0 Cr chromium 24	(7) 54.9 Mn manganese 25	(8) 55.8 Fe iron 26	(9) 58.9 Co cobalt 27	(10) 58.7 Ni nickel 28	(11) 63.5 Cu copper 29	(12) 65.4 Zn zinc 30	(13) 10.8 B boron 5	(14) 12.0 C carbon 6	(15) 14.0 N nitrogen 7	(16) 16.0 O oxygen 8	(17) 19.0 F fluorine 9	(18) 4.0 He helium 2
(1) 23.0 Na sodium 11	(2) 24.3 Mg magnesium 12	(3) 88.9 Y yttrium 39	(4) 91.2 Zr zirconium 40	(5) 92.9 Nb niobium 41	(6) 96.0 Mo molybdenum 42	(7) [98] Tc technetium 43	(8) 101.1 Ru ruthenium 44	(9) 102.9 Rh rhodium 45	(10) 106.4 Pd palladium 46	(11) 107.9 Ag silver 47	(12) 112.4 Cd cadmium 48	(13) 27.0 Al aluminium 13	(14) 28.1 Si silicon 14	(15) 31.0 P phosphorus 15	(16) 32.1 S sulfur 16	(17) 35.5 Cl chlorine 17	(18) 39.9 Ar argon 18
(1) 39.1 K potassium 19	(2) 40.1 Ca calcium 20	(3) 138.9 La * lanthanum 57	(4) 178.5 Hf hafnium 72	(5) 180.9 Ta tantalum 73	(6) 183.8 W tungsten 74	(7) 186.2 Re rhenium 75	(8) 190.2 Os osmium 76	(9) 192.2 Ir iridium 77	(10) 195.1 Pt platinum 78	(11) 197.0 Au gold 79	(12) 200.6 Hg mercury 80	(13) 85.5 Rb rubidium 37	(14) 87.6 Sr strontium 38	(15) 74.9 As arsenic 33	(16) 79.0 Se selenium 34	(17) 79.9 Br bromine 35	(18) 83.8 Kr krypton 36
(1) 132.9 Cs caesium 55	(2) 137.3 Ba barium 56	(3) [227] Ac † actinium 89	(4) 178.5 Hf hafnium 72	(5) 180.9 Ta tantalum 73	(6) 183.8 W tungsten 74	(7) 186.2 Re rhenium 75	(8) 190.2 Os osmium 76	(9) 192.2 Ir iridium 77	(10) 195.1 Pt platinum 78	(11) 197.0 Au gold 79	(12) 200.6 Hg mercury 80	(13) 132.9 Rb rubidium 37	(14) 137.3 Ba barium 56	(15) 121.8 Sb antimony 51	(16) 127.6 Te tellurium 52	(17) 126.9 I iodine 53	(18) 131.3 Xe xenon 54
(1) [223] Fr francium 87	(2) [226] Ra radium 88	Elements with atomic numbers 112-116 have been reported but not fully authenticated										(13) [209] Po polonium 84	(14) 207.2 Pb lead 82	(15) 209.0 Bi bismuth 83	(16) [210] At astatine 85	(17) [222] Rn radon 86	
* 58 – 71 Lanthanides																	
† 90 – 103 Actinides																	

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