

AS CHEMISTRY

7404

Data Sheet

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
$\text{C}\equiv\text{N}$	2220–2260
$\text{C}=\text{O}$	1680–1750
$\text{C}=\text{C}$	1620–1680
C—O	1000–1300
C—C	750–1100

The Periodic Table of the Elements

1	2	Key					3	4	5	6	7	0					
(1)	(2)	relative atomic mass										(18)					
symbol																	
name																	
atomic (proton) number																	
6.9 Li lithium 3	9.0 Be beryllium 4											10.8 B boron 5	12.0 C carbon 6	14.0 N nitrogen 7	16.0 O oxygen 8	19.0 F fluorine 9	20.2 Ne neon 10
23.0 Na sodium 11	24.3 Mg magnesium 12											27.0 Al aluminium 13	28.1 Si silicon 14	31.0 P phosphorus 15	32.1 S sulfur 16	35.5 Cl chlorine 17	39.9 Ar argon 18
39.1 K potassium 19	40.1 Ca calcium 20											69.7 Ga gallium 31	72.6 Ge germanium 32	74.9 As arsenic 33	79.0 Se selenium 34	79.9 Br bromine 35	83.8 Kr krypton 36
85.5 Rb rubidium 37	87.6 Sr strontium 38											114.8 In indium 49	118.7 Sn tin 50	121.8 Sb antimony 51	127.6 Te tellurium 52	126.9 I iodine 53	131.3 Xe xenon 54
132.9 Cs caesium 55	137.3 Ba barium 56											204.4 Tl thallium 81	207.2 Pb lead 82	209.0 Bi bismuth 83	209.0 Po polonium 84	210.0 At astatine 85	222.0 Rn radon 86
[223] Fr francium 87	[226] Ra radium 88											[286] Nh nihonium 113	[289] Fl flerovium 114	[289] Mc moscovium 115	[293] Lv livermorium 116	[294] Ts tennessine 117	[294] Og oganesson 118
* 58 – 71 Lanthanides																	
† 90 – 103 Actinides																	