

ELECTROLYSIS (A)

1 The electrolysis of molten aluminium fluoride produces aluminium (Al) at the negative electrode (F_2) at the positive electrode.						t the negative electrode and fluorine	
a Explain why solid aluminium fluoride does not conduct electricity but molten aluminium					molten aluminium fluoride does.		
	b Give the formula of the ions in aluminium fluoride: aluminium ions fluoride ions					ns fluoride ions	
	c Give the formula of aluminium fluoride:						
	d	Explain why aluminium ions go to the negative electrode.					
	е	Write a half equation for the formation of aluminium at the negative electrode.					
	f	Explain whether the formation of aluminium is an oxidation or reduction process.					
	g	Explain whether the negative electrode is the anode or cathode.					
	h Write a half equation for the formation of fluorine at the positive electrode.					ode.	
2	Complete the table about the electrolysis of some molten ionic compounds.					s.	
mo		ten substance	formula	negative electrode h	alf-equation	positive electrode half-equation	
cal		cium oxide					
ma		gnesium bromide					
sod		ium chloride					

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