Question	Marking Guidance	Mark	Comments
2(a)	Standard pressure (100 kPa) (and a stated temperature)	1	Allow standard conditions. Do not allow standard states Allow any temperature Allow 1 bar but not 1atm Apply list principle if extra wrong conditions given Penalise reference to concentrations
2(b)	Hydrogen bonds between water molecules Energy must be supplied in order to break (or loosen) them	1 1	Allow M2 if intermolecular forces mentioned Otherwise cannot score M2 CE = 0/2 if covalent or ionic bonds broken
2(c)	$T = \Delta H/\Delta S$ = $(6.03 \times 1000)/22.1$ = 273 K	1 1 1	Allow 272 to 273; units K must be given Allow 0°C if units given 0.273 (with or without units) scores 1/3 only Must score M2 in order to score M3 Negative temperature can score M1 only
2(d)	The heat given out escapes	1	

2	2(e)	(Red end of white) <u>light</u> (in visible spectrum) <u>absorbed</u> by ice	1	Allow complementary colour to blue absorbed
		Blue light / observed light is reflected / transmitted / left	1	Penalise emission of blue light