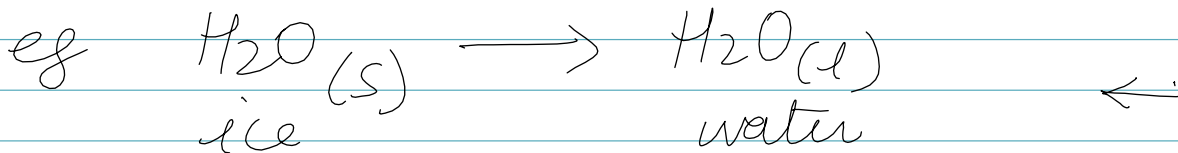


Sapna Gupta

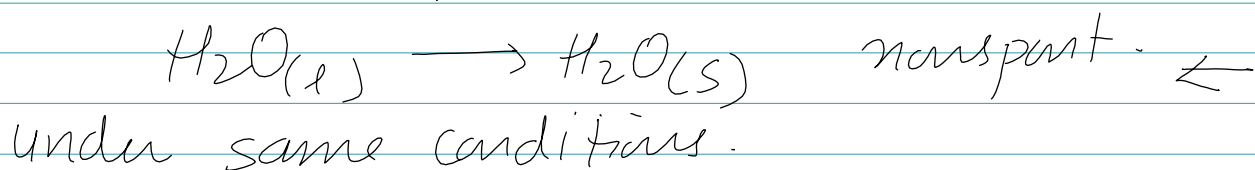
Thermodynamics - Spontaneous Process

Happens by itself. (no external energy).



iron \longrightarrow rust

→ Reverse of spont. process is non spontaneous.



→ Predict spontaneity.

(a) bathtub cleaner (HCl) to clean lime (CaCO₃).

Yes fizzing

(b) Reaction of N₂ & O₂ to give NO(g) at RT

NO b/c at RT & normal condns - NOT spont.

(c) Boiling water at 65°C at 1 atm (atm pressure)

NO b/c of water 100°C.