Wei Xiwen RC 5 Answer

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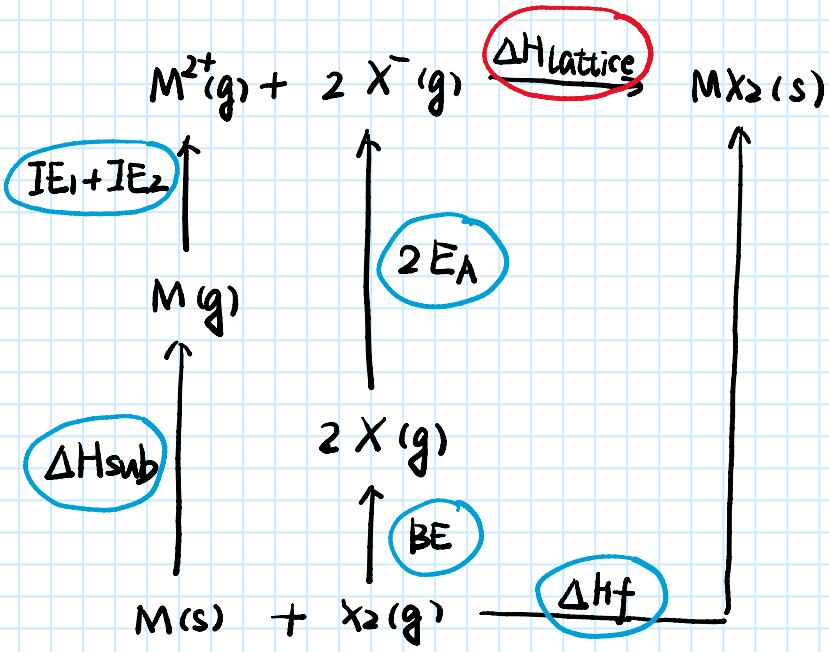
Born-Haber Cycle in Calculation Lattice Energy



$M(g) \longrightarrow M^{2+}(g) + 2e^-$, $IE_1 + IE_2$ (ionization)

$X(g) + e^- \longrightarrow X^-(g)$, EA (affinity)

According to Hess's Law,

$$\Delta H_f = \Delta H_{sub} + (IE_1 + IE_2) + BE + 2EA + \Delta H_{lattice}$$

Then we get $\Delta H_{lattice}$.