**中五化學 熱力學**

補底

**利用標準生成焓變計算標準反應焓變**

已知：

1. [NH3(g)] = -46.0 kJ mol-1
2. [NO2(g)] = +33.9 kJ mol-1
3. [H2O(l)] = -285.8 kJ mol-1

計算以下反應的標準反應焓變：

4NH3(g) + 7O2(g) 4NO2(g) + 6H2O(l)

4NH3(g) + 7O2(g) 4NO2(g) + 6H2O(l)

**路線1**

[NH3(g)]

[H2O(l)]

**路線2**

[NO2(g)]

\_\_\_N2(g) + \_\_\_H2(g) + \_\_\_O2(g)

= ([NO2(g)] x \_\_\_\_\_\_\_) + ([H2O(l)] x \_\_\_\_\_\_\_) + (-[NH3(g)] x \_\_\_\_\_\_\_)

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