1. Chemical name: \( \text{Vitamin B}_{12} \)

2. Chemical formula: \( \text{C}_{63} \text{H}_{88} \text{N}_{14} \text{O}_{14} \text{S}_{3} \text{P}_{2} \)

3. Molecular weight: 1283.4 g/mol

4. Synonym: Cobalamin, Vitamin B12, Cyanocobalamin

5. Biological function: Vital for the production of red blood cells and the production of DNA.


7. Toxicity: Excessive intake can lead to neurological damage.

8. Recommended daily intake: 2.4 mcg for adults.


10. Occupational exposure: Rare, mostly through contaminated food or water.

11. Storage: Store in a cool, dark place.

12. Stability: Stable in the presence of light but sensitive to heat and alkaline conditions.