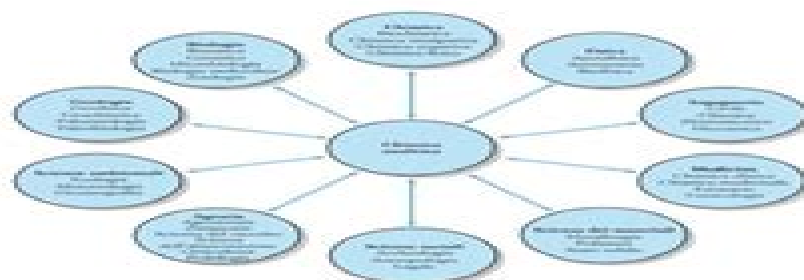


Chimica Analitica

La chimica analitica è quella parte della chimica che identifica il tipo (analisi qualitativa) o la quantità (analisi quantitativa) dei componenti di un materiale e di una miscela.

Applica metodi, strumenti e strategie per ottenere informazioni sulla composizione e natura della materia nello spazio e nel tempo

CHIMICA ANALITICA → QUALI E QUANTE SOSTANZE



È una scienza che trova applicazione non solo nella ricerca chimica di base ma è importante per le sue applicazioni pratiche nell'industria, medicina e in tutti gli ambienti scientifici che studiano la materia

Definizioni fondamentali

Tecnica analitica: insieme di principi teorici ed accorgimenti sperimentali che permettono di ottenere informazioni sulla composizione di un certo campione

- Volumetria → analisi in cui la misura utilizzata è un campione
- Spettroscopia
- Cromatografia

Metodo analitico: applicazione di una tecnica analitica per risolvere un problema analitico specifico

Procedura: insieme delle istruzioni di base necessarie per utilizzare un metodo analitico. Nell'ipotesi che l'utilizzatore disponga di una cultura specifica nel campo in cui deve operare, la procedura si limita a stabilire la successione degli stadi operativi principali per quell'analisi.

Protocollo: insieme di istruzioni e direttive dettagliate da seguire rigidamente affinché il risultato possa essere accettato (analisi corretta). Rappresenta tutto ciò che si necessita preparare

Misura: rappresenta un parametro in un determinato stato del sistema ed è data da
NUMERO+INCERTEZZA+ UNITÀ DI MISURA

Ad esempio una serie di analisi di un vino per determinare il contenuto di SO_2 disciolta ha fornito il seguente valore medio: $15,3 \pm 0,8 \text{ mg/l}$

- 15,3 è il risultato numerico, media di una serie di determinazioni analitiche
- $\pm 0,8$ è l'incertezza della serie di misure
- mg/l è l'unità di misura

Misurazione: insieme dei calcoli per elaborare il metodo analitico compiuti da dispositivi posti in interazione con il sistema misurato allo scopo di assegnare la misura di una grandezza. È la determinazione analitica vera e propria

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Paolo Crotti



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