

nmr spectroscopy explained simplified pdf

Infrared spectroscopy exploits the fact that molecules absorb frequencies that are characteristic of their structure. These absorptions occur at resonant frequencies, i.e. the frequency of the absorbed radiation matches the vibrational frequency.

Infrared spectroscopy - Wikipedia

Raman spectroscopy (¹⁄2 ν \pm ν_n ; named after Indian physicist Sir C. V. Raman) is a spectroscopic technique used to observe vibrational, rotational, and other low-frequency modes in a system. Raman spectroscopy is commonly used in chemistry to provide a structural fingerprint by which molecules can be identified.

Raman spectroscopy - Wikipedia

Butyric acid is a four carbon acid, $\text{CH}_3\text{CH}_2\text{CH}_2\text{COOH}$, with an unpleasant odor that occurs in butter and animal fat as the glycerol ester.

Butyric acid | C4H8O2 - PubChem

Isotretinoin is a naturally-occurring retinoic acid with potential antineoplastic activity. Isotretinoin binds to and activates nuclear retinoic acid receptors (RARs); activated RARs serve as transcription factors that promote cell differentiation and apoptosis.

Isotretinoin | C20H28O2 - PubChem

Reversible addition-fragmentation chain transfer (RAFT) radical polymerization has, since its discovery by CSIRO, evolved into an extremely powerful synthetic tool for polymer chemists.

Reversible addition-fragmentation chain transfer (RAFT)

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Polymerization of Ethylene Oxide, Propylene Oxide, and

The diversity of solid-state forms that an active pharmaceutical ingredient (API) may attain relies on the repertoire of non-covalent interactions and molecular assemblies, the range of order, and the balance between entropy and enthalpy that defines the free energy landscape.

General principles of pharmaceutical solid polymorphism: A

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