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criteria of dissolution as per USP Lesson 2  
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**Solubility enhancement methods...!!** *pKa - Why*

*most drugs are weak acids or weak bases Top*

~~200 Drug Names (Part 1) Bioavailability and~~

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*Prescription. Ionization and Absorption:*

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Recognizing Functional Groups in Drugs and  
Medications

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Interview Questions for Quality control

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Dissolution, Dissolution acceptance criteria  
as per USP

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Log P explained *Dissolution Test Apparatus 6  
Stations* DISSOLUTION: PROCESS, THEORIES OF  
DISSOLUTION, FACTORS AFFECTING DISSOLUTION,  
NOYES WHITNEY EQUATION *Softgel Technology to  
Deliver Poorly Soluble APIs | Catalent in 90  
Seconds Increase in Poorly Soluble Molecules*

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Solubility Enhancement Stabilize poorly  
soluble drugs with Pharma-MMC **Ph and**  
**Solubility of Drugs**

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pKa and Drug Solubility: Absorption and  
Distribution - Pharmacokinetics (PK) |

Lecturio *Improving the*  
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*solubility/bioavailability of poorly soluble drugs* ~~Poorly Soluble Drugs Dissolution And~~

This book is the first text to provide a comprehensive assessment of the application of fundamental principles of dissolution and drug release testing to poorly soluble compounds and formulations. Such drug products are, vis-a-vis their physical and chemical properties, inherently incompatible with ...

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Jackson, J ...

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Poor water solubility of a drug is a tough and difficult task for researchers and pharmaceutical scientists during the formulation and development of dosage forms. Poor drug solubility often leads to inadequate and variable bioavailability. The properties of drugs cause problems in drug dissolution and its rates are solubility, particle size, polymorphism, salt form, complexation, wettability, etc.

~~Poorly Water Soluble Drugs and Formulation Strategy to ...~~

Poorly soluble drugs: dissolution and drug

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~~Poorly soluble drugs: dissolution and drug  
release | R ...~~

In recent years, newer physical modifications (e.g., microemulsions and nanocrystals) are giving promising results in enhancement of drug dissolution and bioavailability of poorly soluble drugs. Whatever method is used by the dissolution scientists, it must aim towards the cheaper but most effective approach to enhance the dissolution behavior

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of poorly soluble drugs.

~~{PDF} Dissolution Testing for Poorly Soluble  
Drugs: A ...~~

Drug solubility is the maximum concentration of the drug dissolved in the solvent under specific condition of temperature, pH and pressure. It is important to improve the solubility and/or dissolution rate for poorly soluble drugs because these drugs possess low absorption and bioavailability.

~~DIFFERENT METHODS OF ENHANCEMENT OF  
SOLUBILIZATION AND ...~~

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Other materials, such as polymorphs, salts, and amorphous solids, have been widely used to enhance dissolution and bioavailability of poorly soluble drugs (Pudipeddi and Serajuddin, 2005, Berge et al., 1977, Babu and Nangia, 2011, Murdande et al., 2010, Thakuria and Nangia, 2011, Qiu et al., 2009, Hancock and Zografi, 1997).

~~Pharmaceutical cocrystals and poorly soluble drugs...~~

Determinations of dissolution profiles and compound solubilities are prerequisites for the investigations of drug release and

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absorption behavior, and these form the most important primary evidence about the profitable nature of nanocrystals to solve problems with poorly soluble drugs. This is especially important when keeping in mind that the initial reasoning behind nanosizing of the poorly water soluble compounds rests in the dissolution and solubility enhancing effects of the nanocrystals.

~~Dissolution— an overview | ScienceDirect  
Topics~~

Dissolution of two poorly soluble drugs  
(cefuroxime axetil and itraconazole) and

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their amorphous formulations (Zinnat® and Sporanox®) was studied with the Sirius Surface Dissolution Imager (SDI). Media simulating the fasted state conditions (compendial and biorelevant) with sequential media/flow rate change were used.

~~Surface Dissolution UV Imaging for  
Investigation of ...~~

Abstract Solid dispersion is a technique which is widely and successfully applied to improve the solubility, dissolution rates and consequently the bioavailability of poorly soluble drugs.

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~~(PDF) Solid Dispersion: Solubility  
Enhancement Technique ...~~

Poor water solubility is an industry wide issue, especially for pharmaceutical scientists in drug discovery and drug development. In recent years, nanoparticle engineering processes have become promising approaches for the enhancement of dissolution rates of poorly water soluble drugs.

Nanoparticle engineering enables manufacturing of poorly water soluble drugs into nanoparticles alone, or incorporation with a combination of pharmaceutical

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excipients.

~~Nanoparticle engineering processes for  
enhancing the ...~~

Intrinsic dissolution evaluation of poorly  
soluble drugs / Michele Georges Issa and  
Humberto Gomes Ferraz -- 5. Oral delivery of  
poorly soluble drugs / Dev Prasad, Akash  
Jain, and Sudhakar Garad -- 6. A staged  
approach to pharmaceutical dissolution  
testing / Gregory K. Webster, Xi Shao, and  
Paul D. Curry, Jr. -- 7.

~~Poorly soluble drugs [electronic resource] :~~



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~~dissolution ...~~

Hence various techniques are used for the improvement of the solubility of poorly water soluble drugs include hydrotrophy, use of salt form, use of precipitation inhibitors, alteration of pH of ...

~~Techniques for solubility enhancement of  
poorly soluble ...~~

Abrahamsson B. The Effects of Food on the Dissolution of Poorly Soluble Drugs in Human and in Model Small Intestinal Fluids. Pharm Res 2005, 22, 2141-2151. 3. Dressman J.B., Vertzoni M., Goumas K., Reppas, C. Estimating

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drug solubility in the gastrointestinal tract. *Adv Drug Deliv Rev*, 2007, 59, 591-602. 4.

~~Dissolution Rate and Apparent Solubility of Poorly Soluble ...~~

Ezetimibe, a poorly water-soluble drug and the oral delivery of the drug is frequently associated with low bioavailability. It is used as an anti-hyperlipidaemia drug in the management of hypercholesterolemia, homozygous sitosterolemia (phytosterolemia).

~~DISSOLUTION ENHANCEMENT OF POORLY WATER~~

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~~SOLUBLE DRUG BY ...~~

As dissolution of poorly water-soluble drugs (e.g., carbamazepine) is the rate-limiting step for absorption, improvement of dissolution rate should increase drug absorption and bioavailability [3,4].

~~Influence of Solid Drug Delivery System  
Formulation on ...~~

The main aim of the present work is to improve the absorption in the stomach (at lower pH) where the absorption window exists for the drug by improving the dissolution, resulting in the enhancement of oral

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bioavailability of poorly soluble, weakly acidic drug with pH dependant solubility, i.e. valsartan.

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