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~~Estimation~~ **Hansen Solubility**

**Sphere Analysis in Excel and**

**POV Ray 5381 2019** Dr Adam



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Voelkel on using iGC for  
determining Hansen  
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Lab 13.2 - Determining  
Solubility Everything You  
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HACKS 101 Lec 3e. Sample  
Problem: Solving for Ionic

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~~Activity Coefficient using~~

~~Debye-Hückel Equation~~

Selective Precipitation **Like**

**Dissolves Like** *Solubility of*

*drugs || Solubility*

*expression || Ideal*

*solubility parameters ||*

*Pharma lectures || ~~Ideal~~*

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~~Hindi Part 10 Physical~~

~~Pharmaceutics Concentration~~

~~Dependent Diffusion IGC HSP~~

~~*Solubility Table, IP, USP*~~

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~~BP302T L-2~~ *Real-time*  
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*Parameters \u0026amp; In-field*  
*Stability HSPiP Solubility*  
*Azeotropes* **Ep14 solubility**

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**- ResearchGate**

The three Hansen Solubility Parameters of, for example, a solvent, a polymer, a nanoparticle or an excipient

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provide a simple but  
powerful way to better  
formulation. Explore the  
science of HSP and see how  
you can use them in your own  
application.

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## | Hansen Solubility Parameters

To overcome this limitation, Crowley et al. and later Hansen proposed to split this parameter into three components,  $(\delta)^2 = \delta_d^2 + \delta_p^2 + \delta_h^2$ , where  $\delta_d$  is

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the dispersive component,  $\delta^d$ ,  
 $\delta^p$  is the polar component,  
and  $\delta^h$  represents the  
hydrogen-bonding component  
of the solubility parameter.  
The dispersive interactions  
are related to the non-  
covalent London forces



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## **Hansen solubility parameters obtained via molecular ...**

Hansen solubility parameters  
were developed by Charles M.

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Hansen in his Ph.D thesis in 1967 as a way of predicting if one material will dissolve in another and form a solution. They are based on the idea that like dissolves like where one molecule is defined as being

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'like' another if it bonds to itself in a similar way. Specifically, each molecule is given three Hansen parameters, each generally measured in MPa<sup>0.5</sup>:  $\delta$   
 $\{\displaystyle \ \ \delta$   
 $\_{d}\}$  The energy from

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## **Hansen solubility parameter - Wikipedia**

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in Practice Predictive  
Power. Over 50 years of

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Successful applications of Hansen Solubility Parameters are captured in one package. If you don't know about HSP then check out the simple summary on Wikipedia, or use your favourite search engine to discover just how many

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## **HSPiP | Hansen Solubility Parameters**

HSPiP provides a fully  
updated/revised set of HSP  
data for the 1200+ chemicals

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Users Handbook the standard  
Hansen set as featured in  
Hansen Solubility  
Parameters: A Users'  
Handbook. Estimated HSP and  
other data are tabulated for  
another 10,000 chemicals.

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## **HSPiP Datasets | Hansen Solubility Parameters**

For that solubility  
evaluation, FFE use Hansen  
Solubility Parameter (HSP).  
Other topics, Inorganics.  
Other topics about HSP. For  
inorganics, they will not



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dissolve to solvents but  
just disperse. Even though  
HSP can handle such  
phenomena. DIY (Do it  
Yourself) If you use HSPiP,  
you can do a lot of things.  
But if you use HSPiP with Y-  
MB, you can ...

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(HSP) User's Forum**

Doctoral Thesis "The Three  
Dimensional Solubility  
Parameter", Danish Technical  
Press, 1967. Hansen  
Solubility Parameters - A

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User's Handbook, CRC Press,  
Boca Raton, 1999, 2007. More  
than 130 journal articles  
and institute reports. 8  
Patents.

**Charles Hansen | Hansen  
Solubility Parameters**

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If you raise the temperature then the density decreases so the HSP values go down.

The effect depends on  $\Delta T$ , the change of temperature from 25°C, and on the thermal expansion coefficient,  $\alpha$ , which for

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simplicity in this app is  
set to 0.0007/K. The  
formulae (from Hansen and  
Beerbower, 1971) are:  $\Delta T =$   
 $\Delta D^* (1 - T^* \cdot 1.25)$

**HSP and Temperature | Hansen  
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This is true for absorption as well as for desorption (film drying). Appropriate solutions to the diffusion equation, Fick's second law, describe all of these.

Evidence for this is found in the second edition of my

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CRC handbook Hansen  
Solubility Parameters: A  
User's Guide in Chapter 16  
and earlier publications.  
The diffusion equation is a  
second order partial  
differential equation that  
requires two boundary

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Hansen Solubility Parameters

The model that will be the focus of this technical brief is Hansen Solubility Parameters (HSP) 6,7. HSP are relatively simple to use while maintaining a degree

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of accuracy needed for  
practical use. Not  
surprisingly, such  
simplicity comes with  
limitations.

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