

Sugar Interaction Metals In Aqueous Solution

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In this article, mid-infrared Fourier transform (Mid-FT-IR) and carbon thirteen nuclear magnetic resonance (13C NMR) spectroscopy have been used to determine possible interactions between sucrose and various alkali or alkaline earth metals in aqueous solution. In the presence of these metals, significant shifts in the absorption bands of sucrose were noted by mid-FT-IR coupled with principal component analysis (PCA).

Sugar interaction with metals in aqueous solution ...

Sugar Interaction Metals In Aqueous Solution Interactions between sugars and alkaline earth metal halides, such as MgCl 2 and calcium chloride (CaCl 2), have been reported in a number of studies where a sugar-cation complex can form, the... (PDF) Sugar Interaction with Metals in Aqueous Solution ...

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13 C NMR analysis showed that the carbon atoms of sucrose undergo shielding or deshielding in the presence of metal ions in aqueous solutions. Two factors were invoked to account for the variation of chemical shifts: the rupture of hydrogen bonds due to hydration of the metal ion and the possible coordination of the metal ion to the oxygen atoms of sucrose.

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Factorial maps were established and the spectral patterns obtained show that these interactions vary according to the nature of the metal ion. 13C NMR analysis showed that the carbon atoms of sucrose undergo shielding or deshielding in the presence of metal ions in aqueous solutions.

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Sugar Interaction with Metals in Aqueous Solution: Indirect Determination from Infrared and Direct Determination from Nuclear Magnetic Resonance Spectroscopy

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Sugar Interaction Metals In Aqueous Solution

A metal ion in aqueous solution or aqua ion is a cation, dissolved in water, of chemical formula [M(H 2 O) n] z+. The solvation number, n, determined by a variety of experimental methods is 4 for Li + and Be 2+ and 6 for elements in periods 3 and 4 of the periodic table. Lanthanide and actinide aqua ions have a solvation number of 8 or 9. The strength of the bonds between the metal ion and ...

Metal ions in aqueous solution - Wikipedia

Fig. 6 indicates the metal uptake isotherms for Pb, Cu and Zn ions plotted against final metal concentration C f in aqueous solutions. The finding from this figure, particularly with regard to our maximum value of uptake of 1103, 860 and 722 mg g ⁻¹ for Pb, Cu and Zn, respectively, lead us to believe polysaccharide produced by B. firmus MS-102 is an excellent adsorbent compared to M ...

Removal of metal ions from aqueous solution by ...

The interactions of Tl + with sodium salts of cytidine-5'-monophosphate (5'-CMP), thymidine-5'- monophosphate (5'-TMP), 2-deoxyadenosine-5'-monophosphate (5'-dGMP) in ratios 1 and 2 have been studied in neutral pH. The solid complexes were isolated and characterized by Fourier transform infrared (FTIR) and 1 H-NMR spectroscopy. In the Tl 2-CMP, Tl + binds indirectly (through H 2 O ...

Interaction of Tl+ with mononucleotides: metal ion binding ...

Sugar Interaction Metals In Aqueous Sugar Interaction with Metals in Aqueous Solution: ... The sites of metal-sugar interaction appear to involve primarily the C1 (C O) and C6 (CH2OH) ends of the gluconate chain. (PDF) Sugar Interaction with Metals in Aqueous Solution ...

Sugar Interaction Metals In Aqueous Solution

In this paper, a ternary aqueous mixture of sucrose and two metal ions (Mg2+ and K+) has been examined by mid-infrared spectroscopy coupled with principal component analysis (PCA) and the partial L...

Study of the Interactions between Sucrose and Metal Ions ...

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Rahul Sharma, Sandip Paul, The effect of aqueous solutions of trimethylamine- N -oxide on pressure induced modifications of hydrophobic interactions , The Journal of Chemical Physics, 10.1063/1.4748101, 137, 9, (094502), (2012).

Trehalose|protein interaction in aqueous solution - Lins ...

The mechanism of exchange was studied using R2 with increasing inter pulse delay of 0.05|2.0 ms in aqueous solutions of 10%, 20% and 35% (w/v) of the above sugar solutions.

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@article{osti_1702750, title = [Effect of ionic liquid on sugar-aromatic separation selectivity by metal-organic framework NU-1000 in aqueous solution], author = [Yabushita, Mizuho and Papa, Gabriella and Li, Peng and Fukuoka, Atsushi and Farha, Omar K. and Simmons, Blake A. and ...

Effect of ionic liquid on sugar-aromatic separation ...

Effect of metal ion hydration on the interaction between sodium carboxylates and aluminum(III) or chromium(III) ions in aqueous solution Langmuir. 2012 Jan 10;28(1):168-77. doi: 10.1021/ja2034164. Epub 2011 Dec 13. Authors Rui F P Pereira 1 , Maria J Tapia, Artur J M Valente, Hugh D Burrows. Affiliation 1 Department of ...