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4.2 Applications of boronic acids in polymeric networks 4.2.1 General considerations..57 4.2.2 Label-free detection of saccharide binding at pH 7.4 to nanoparticulate benzoboroxole based receptor units..59 4.2.3 Benzoboroxole-modified nanoparticles for the recognition of glucose at neutral pH.

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*Saccharide recognition : boronic acids as receptors in ...*

In the recognition step, the addition of saccharides led to the conversion of uncharged boronic acid into negatively charged boronate anion ester moieties, and subsequent rectification of the ion current was observed. The saccharide–boronic acid complex onto the channel walls was found to be reversible.

*Saccharide/glycoprotein recognition inside synthetic ion ...*

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B-Azo-C4 and B-Azo-C12 did not recognize saccharides in a 1% methanol–99% water solution under basic conditions, indicating that an appropriate alkyl chain length was required for recognizing saccharides. The control of the hydrophilic–lipophilic balance (HLB) was a key factor for saccharide recognition.

*Saccharide Recognition Based on Self-Assembly of ...*

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The  $pK_a$  of a boronic acid is  $\sim 9$ , but they can form tetrahedral boronate complexes with  $pK_a \sim 7$ . They are occasionally used in the area of molecular recognition to bind to saccharides for fluorescent detection or selective transport of saccharides across membranes.

*Boronic acid - Wikipedia*

Selective recognition of saccharides through

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morphological changes of phenylboronic acid-based self-assembly system by saccharide stimulation is a key concept in boronic acid design. Experiments In the present study, we designed a tuning-fork-shaped amphiphilic diboronic acid ( OPAB-C8 ) which formed vesicular aggregates through self-assembly in aqueous solution and evaluated its saccharide recognition function.

*Self-assembly of intramolecularly hydrogen-bonded ...*

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However, boronic acid-based synthetic recognition elements are better choices with regard to stability and cost . All these advantages showed promising results for saccharide detection. The reversible covalent interaction of boronic acids with cis-1,2- or 1,3-diols forms very strong binding affinity for saccharides in mM or sub-mM levels.

### *Capacitive Saccharide Sensor Based on Immobilized ...*

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Synthetic receptors for carbohydrate recognition in water. Single molecule sensors based on boronic acids as well as polymeric receptors for saccharide sensing are discussed.

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