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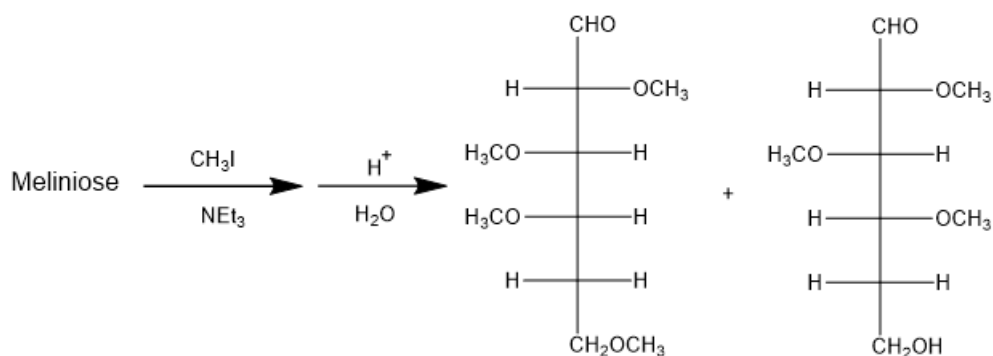
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Melibiose is a disaccharide used for chemical communication between various insects. Deduce the structure of melibiose from the following information.

- Acid hydrolysis of melibiose yields an equal mixture of D-galactose and D-glucose.
- Melibiose is hydrolyzed by α -galactosidase enzymes, but not by β -galactosidase enzymes. A galactosidase enzyme hydrolyzes an α -glycosidic bond of D-galactose specifically.
- Melibiose is a reducing sugar and reacts with sodium borohydride.
- Methylation of melibiose followed by hydrolysis of the glycosidic bonds yields the two derivatives shown below.



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