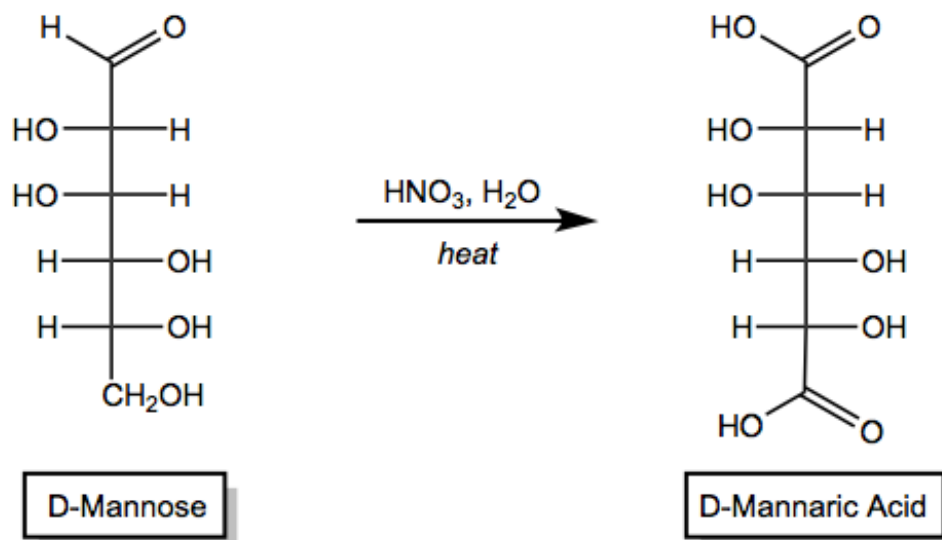


**CONCEPT: MONOSACCHARIDES – STRONG OXIDATION (ALDARIC ACID)**

When exposed to nitric acid, monosaccharides can be oxidized to \_\_\_\_\_ derivatives called *aldaric acids*

- Due to symmetry of the dicarboxylic acids, different monosaccharides can lead to the same aldaric acid product



**EXAMPLE:** First, circle the two monosaccharides that would produce identical aldaric acids upon treatment with nitric acid. Then label the products of these oxidations as optically active (chiral) or optically inactive (achiral).

