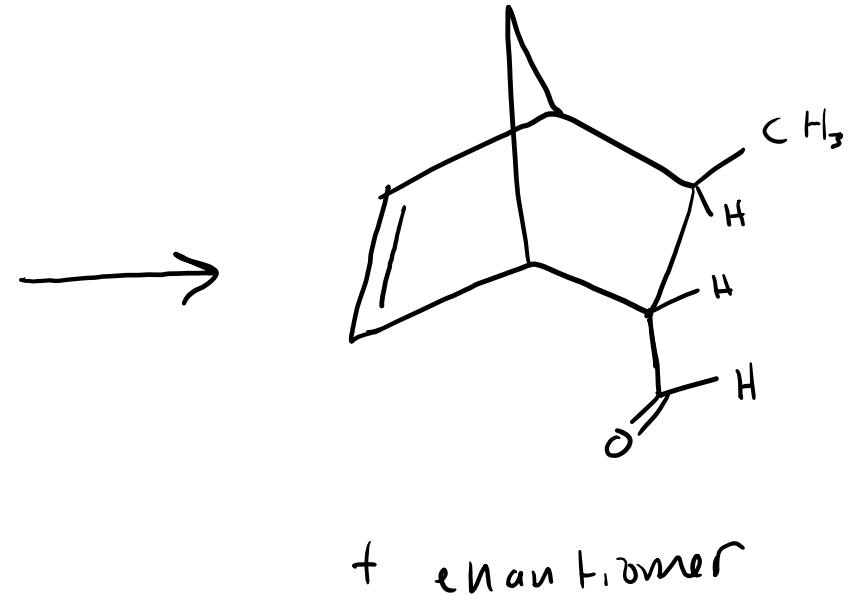


Diels-Alder: Stereochemistry

Practice with Diels-Alder

4/10/2023

Diels-Alder Examples

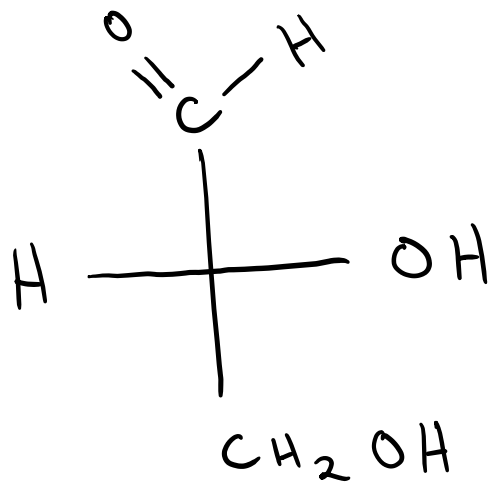


Historically:

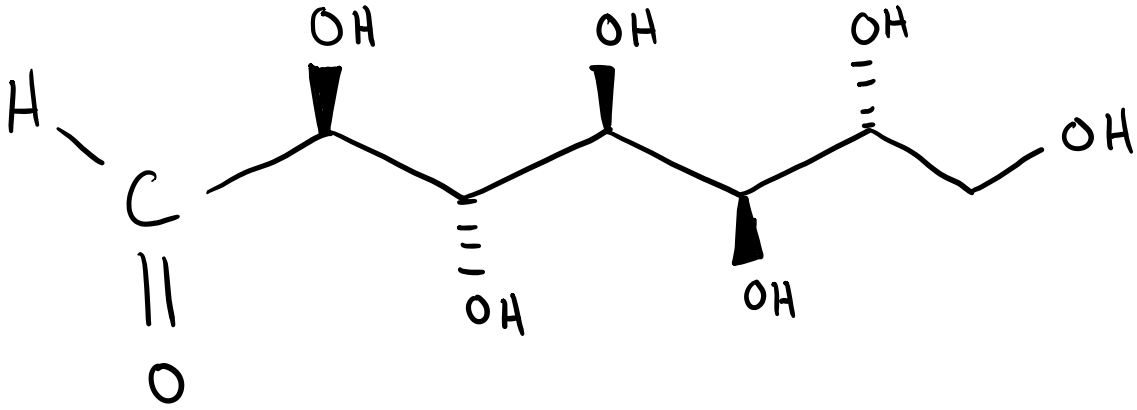
Today:

Fischer Projections

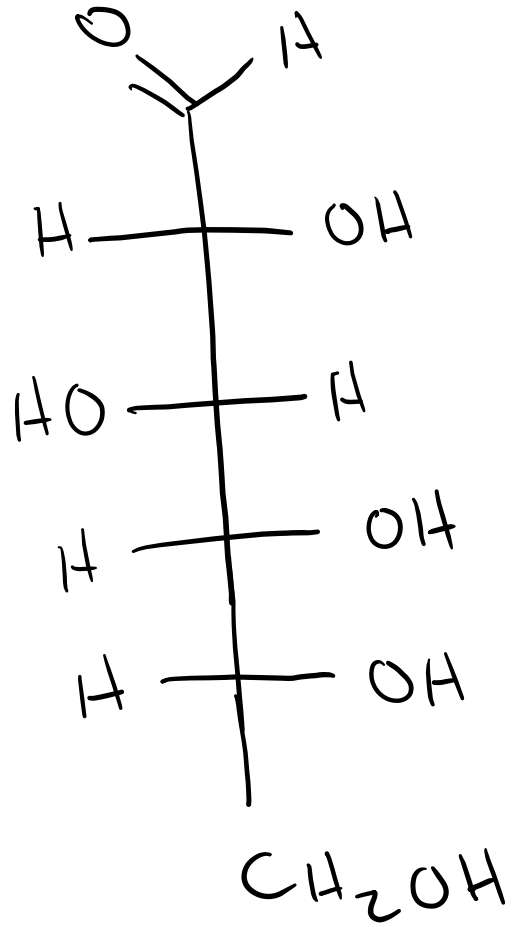
(5.7)



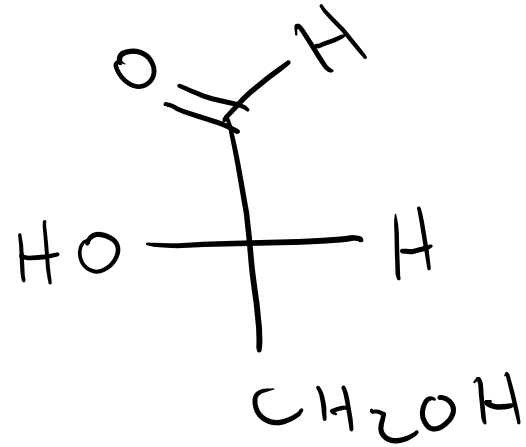
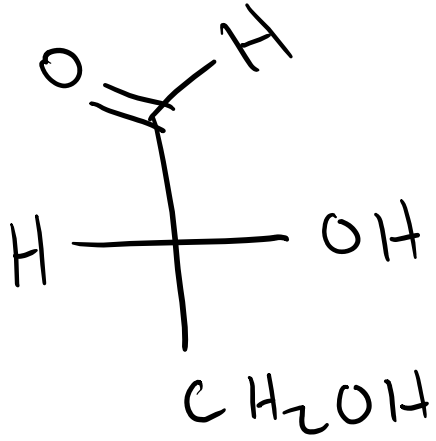
Converting Between Fischer Projections and “Normal” Bond-Line Structures



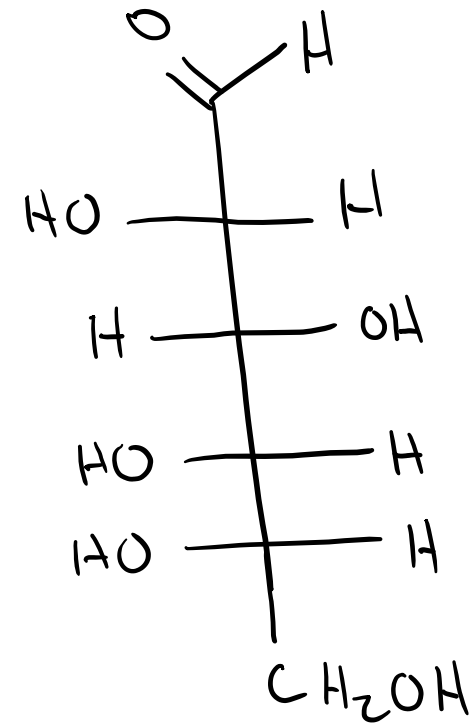
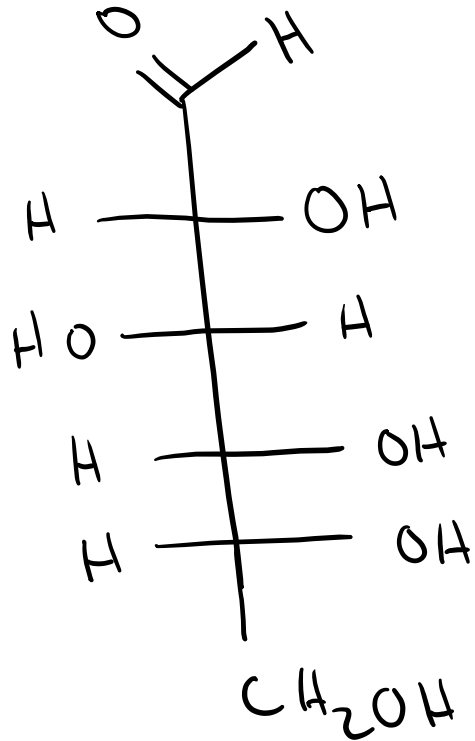
Converting Between Fischer Projections and "Normal" Bond-Line Structures



Classifying Carbohydrates: "D-" vs "L-"



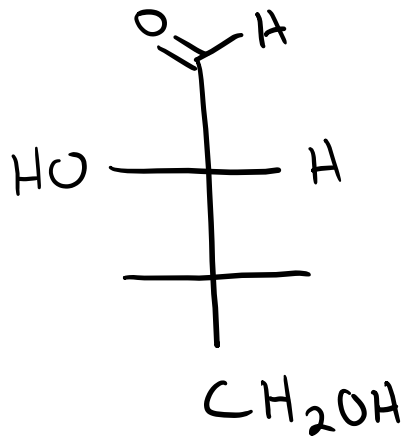
Classifying Carbohydrates: "D-" vs "L-"



Aldose Sugars

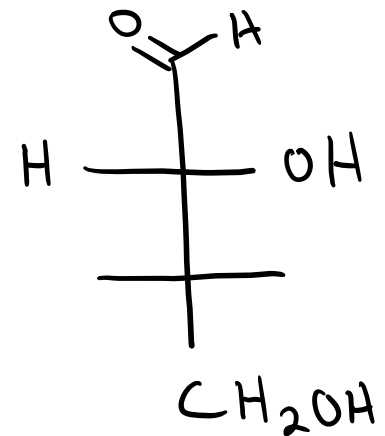
(24.3)

D - Threose



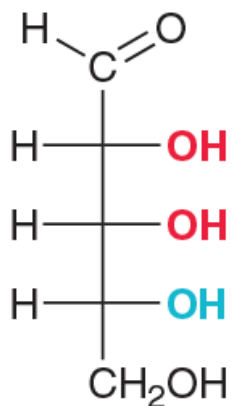
L - Threose

D - Erythrose

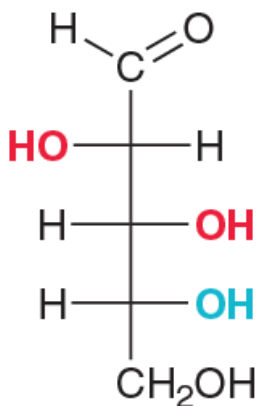


L - Erythrose

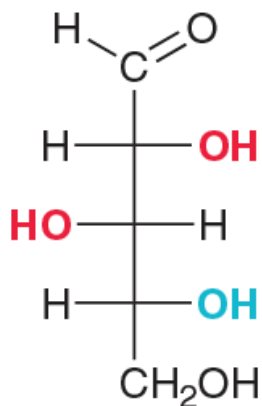
Aldose Sugars

$$(24.3)$$


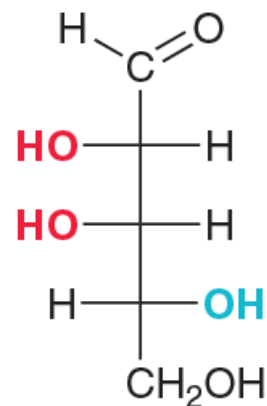
D-Ribose



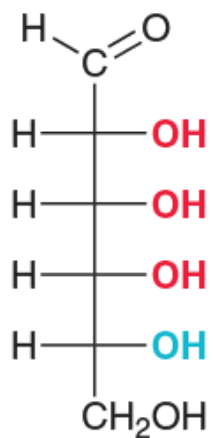
D-Arabinose



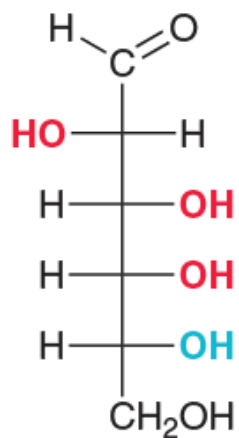
D-Xylose



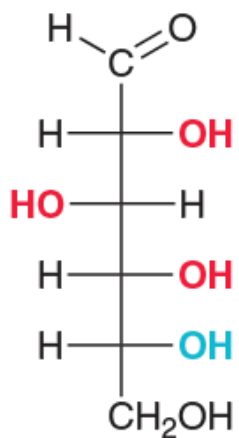
D-Lyxose



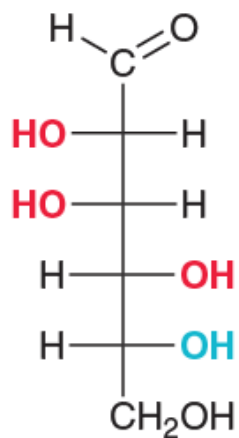
D-Allose



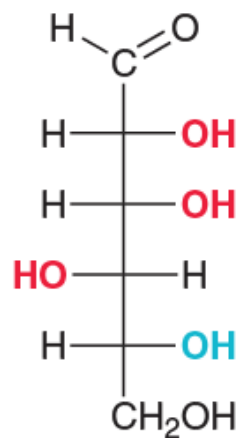
D-Altrose



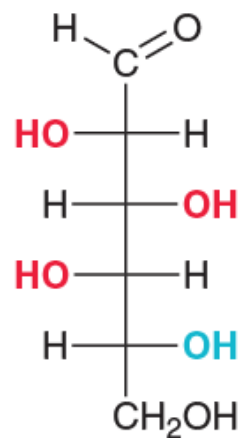
D-Glucose



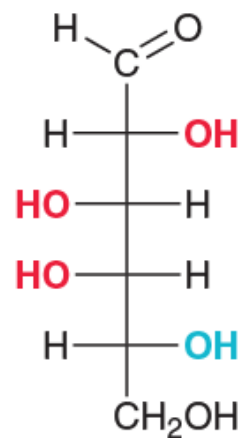
D-Mannose



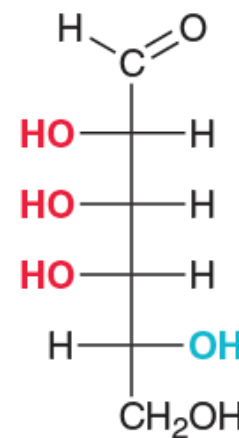
D-Gulose



D-Idose



D-Galactose



D-Talose

Epimers

D-glucose

