ketoaldonic acids

Also contains definition of: ulosonic acids

Monosaccharides in which a structure containing a keto group and a carboxylic acid group is in equilibrium with a hemiacetal structure. Specific compounds are named using the -ulosonic acid suffix. E.g. d-arabino-hexulosonic acid:

\[
\begin{align*}
\text{O} & \quad \text{C} & \quad \text{OH} \\
\text{C} & \quad \text{=O} \\
\text{HO} & \quad \text{C} & \quad \text{H} \\
\text{H} & \quad \text{C} & \quad \text{OH} \\
\text{H} & \quad \text{C} & \quad \text{OH} \\
\text{CH}_2 & \quad \text{OH}
\end{align*}
\]

See also: oxo compounds

Source:
PAC, 1995, 67, 1307 (Glossary of class names of organic compounds and reactivity intermediates based on structure (IUPAC Recommendations 1995)) on page 1346