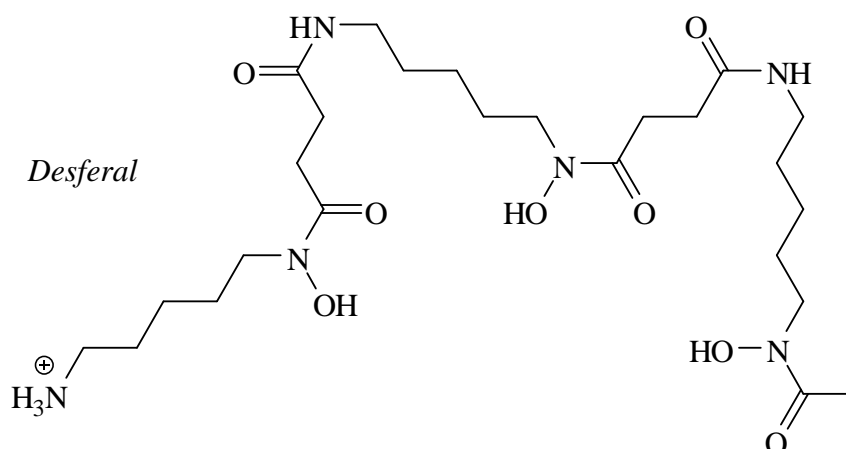
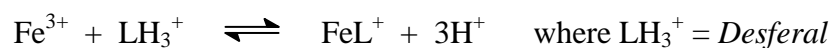


Marks
3

- Hemochromatosis or “iron overload” is a potentially fatal disorder in which excess iron is deposited in the bodily organs as insoluble hydrated iron(III) oxide. It can be treated by administration of desferrioxamine B (*Desferal*), a natural substance isolated from fungi.



Desferal is taken over 8-12 hour periods up to six times per week. A value of $\log K = 30.6$ is associated with the following equilibrium:



Briefly describe the chemical basis for the use of *Desferal* in iron overload therapy.