

# IONIC CONDUCTIVITY OF PRUSSIAN BLUE TYPE COMPOUNDS DOPED WITH ALKALI METAL CHLORIDES

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## Abstract

Prussian blue type compounds (heavy metal ferro and ferricyanides) doped with alkali metal chlorides are found to exhibit alkali-metal ion conductivity. An unusual property of these systems is that the highest conductivity is obtained for K<sup>+</sup>. Ferric ferricyanide doped with KCl under optimum conditions is found to have a room temperature (26°C) conductivity of  $5 \times 10^{-1}$  ohm cm<sup>-1</sup>.