Question #46772, Chemistry, Inorganic Chemistry

What five elements whose ions might produce color in water. indicate cations and/or anions containing those elements that occur in ionic compound.

Answer:

chemical compound	ion	element which gives	Color
		color in water	
KMnO ₄	MnO ₄	Mn ⁺⁷	crimson
CoCl ₂	[Co(H ₂ O)] ²⁺	Co ⁺²	pink
K ₃ [Fe(CNS) ₆]	[Fe(CNS) ₆] ³⁺	Fe ⁺³	red
CuSO ₄	[Cu(H ₂ O)] ²⁺	Cu ⁺²	blue
NiSO ₄	$[Ni(H_2O)]^{2+}$	Ni ⁺²	green