

GRUPA III : Fe²⁺, Fe³⁺, Mn²⁺, Ni²⁺, Co²⁺

	Mn ²⁺	Fe ²⁺	Fe ³⁺	Ni ²⁺	Co ²⁺
reactiv de grupa (NH ₄) ₂ S (2NH ₄ ⁺ + S ²⁻)	MnS	FeS	Fe ₂ S ₃	NiS	CoS
	Sulfura de Mn		Sulfura ferica		
	Pp roz cul carnii	pp negru	Pp negru	pp negru	pp negru
	Sol in acid acetic	sol in acizi	Sol in acizi		sol in acid nitric
KOH, NaOH	Mn(OH) ₂	Fe(OH) ₂	Fe(OH) ₃	Ni(OH) ₂	
	Hidroxid de Mn	Hidroxis feros		Hidroxid nichelos	sare bazica de C
	Pp alb gelatinos aer oxid → brun	Pp verzui	Pp rosu-brun	Pp verde	pp albastru
			Sol in acizi	Insol in exces de reactiv, sol in acizi	
Na ₂ CO ₃ , K ₂ CO ₃	MnCO ₃			NiCo ₃	CoCO ₃
	Carbonat de Mn			Carbonat de Ni	carbonat de
	Pp alb			Pp verzui-gelatinos	pp roz
	Sol in acizi			NiOH ⁺	Cl-Co-OH
NH ₄ OH		Fe(OH) ₂	Fe(OH) ₃	Sare bazica de	sare bazica de
		hidroxidul feros		Pp verde	
		pp incomplet			
			insol in exc de r		
(NH ₄ ⁺ + SCN ⁻) NH ₄ SCN			K[Fe(SCN) ₆]		K ₂ [Co(SCN) ₄] ²⁻
					Complex tetratiocianatoco baltat(II)
					albastru
					in prez acetonei
Py + KSCN				Ni(Py) ₄ (SCN) ₂	Co(Py) ₄ (SCN) ₂
				Pp albastru-cer	pp roz crist
CH ₃ COONa acetat de sodiu			r spec complex brun-roscat		
o-fenantrolina		r spec complex chelat rosu intens	complex colorat in albastru		
dimetilglioxina		r spec complex col rosu-carmin			r spec complex pp roz
α-α dipiridil		r spec complex col in rosu			
cupferona			r spec complex colorat in rosu		
acid S-salicilic			r spec		
sulfo-cianura			r spec		