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Qualitative Analysis Word Search						

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С	А	L	С	Ι	U	Μ	Ζ	Κ	В	D	Ζ	D	В
А	М	М	Ο	Ν	Ι	U	М	Ν	G	Μ	Е	Х	R
S	Х	Κ	L	G	Ν	Y	Н	Κ	F	С	С	Н	R
Κ	Ο	С	L	F	R	Ι	R	D	U	Ν	Е	Y	Е
Ι	Ο	D	Ι	D	Е	Е	Т	D	R	Т	L	D	А
С	Y	S	Ι	Т	G	С	Е	R	А	С	Ι	R	L
Ο	Т	U	R	U	Ν	R	Ο	Ν	А	R	Q	Ο	U
Р	М	L	Μ	Ι	М	Т	Ο	Х	Ο	Т	Т	G	М
Р	М	Р	Ζ	R	Т	В	Н	L	Y	G	Е	Е	Ι
Е	F	Н	В	L	R	Т	Н	Х	F	G	F	Ν	Ν
R	Н	А	F	А	Q	С	Q	Μ	Ν	Q	Е	V	Ι
Т	Y	Т	С	Ν	J	В	Т	F	R	L	В	Ν	U
W	G	Е	Ο	Х	Ι	D	Ι	S	Е	D	Ν	р	Μ
Ο	Ι	R	Ο	Ν	Т	Н	R	Е	Е	Κ	В	R	Κ

	 Answer the following questions to help you solve the qualitative analysis word search: 	9.	This anion is oxidised to produce a brown solution which produces a blue-black colour upon the addition of starch indicator.
1.	This metal cation produces a white precipitate with aqueous ammonia. The precipitate is insoluble in excess reagent.	10.	This metal cation produces a reddish-brown precipitate with aqueous sodium hydroxide. The precipitate is insoluble in excess reagent.
2.	This cation, when warmed with a hydroxide, produces a gas that turns moist red litmus paper blue.	11.	This anion is reduced to form an alkaline gas when warmed with sodium hydroxide and Devarda's alloy.
3.	This metal cation produces a white precipitate with aqueous sodium hydroxide. The precipitate is insoluble in excess reagent.	12.	In the following ionic equation, the bromide is? $2Br_{(aq)} + Cl_{2(aq)} \rightarrow Br_{2(aq)} + 2Cl_{(aq)}$
4.	When an acid is added to this anion, a colourless gas is produced. The gas gives a white precipitate when bubbled through lime water.	13.	This colourless gas, which relights a glowing splint, is produced when a metal nitrate undergoes thermal decomposition.
5.	This anion produces a white precipitate with aqueous silver nitrate. The precipitate is soluble in aqueous ammonia.	14.	In the following ionic half-equation, the manganese is? $MnO_{4^-(aq)} + 8H^+{}_{(aq)} + 5e^- \rightarrow Mn^{2+}{}_{(aq)} + 4H_2O_{(I)}$
6.	This metal cation produces a blue precipitate with aqueous sodium hydroxide. The precipitate is insoluble in excess reagent.	15.	Compounds of this Group I metal produce a characteristic orange flame colour.
7.	Acidified potassium dichromate(VI) changes to this colour when functioning as an oxidising agent.	16.	This anion produces a white precipitate with aqueous barium nitrate. The precipitate is insoluble in nitric acid.
8.	This highly flammable gas is produced when a metal reacts with an acid.	17.	This metal cation produces a white precipitate with aqueous ammonia. The precipitate is soluble in excess reagent.

• Scan the QR code below for the answers to this word search.



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