Chemical crossword – inorganic chemistry

الكلمات المتقاطعة الكيميائية

Letters A, B, D etc. stands for unknown inorganic compounds, which react as shown in table. Formulas for all organic compounds are known.

• Compound A contains transition metal and transition metal content is approximately 72% (by mass)
• Solutions of compounds U, N, Ģ are strongly basic. There are no information about solutions of other compounds.
• Solutions of compounds O and N colors gas flame yellow, while compounds U un Ō colors flame purple red.
• Water solutions of compounds V, P and L are blue.
• Substances E, G, H, M, R, S, Ā contain only one chemical element.
• Three transition metals are mentioned in this crossword.
• Equations in crossword are not balanced.

Write chemical formulas for all compounds abbreviated with letters.
Chemical crossword – corrections (made with red color)

Answers:
A – Fe₃O₄ or other oxide which contains 72% metal, Mn₃O₄, Rh₂O₃, CaO – is not accepted wrong chemistry
D – CO₂
E – H₂
F – H₂O
G – FeO
H – C
I – O₂
J – HCl
K – FeCl₂
L – CuCl₂
M – Cu
N – NaOH
O – NaCl
P – Cu(OH)₂
Q – H₂SO₄
R – Zn or other metal
S – Li or other alkali metal
T – LiH or other alkali metal
U – LiOH or other alkali metal
V – CuSO₄
W – SO₂
X – NO₂
Y – H₂O₃
Z – Ca(OH)₂
Å – An
Œ – H₂CO₃
É – Li[Al(OH)₃]
Ģ – Ca(OH)₂
Ķ – CuCO₃
Ĺ – CaO
Ñ – LiCl or other metal
Ə – ZnSO₄