

Azot

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graph TD; A[Azot] --- B[Rad qilish]; A --- C[hayot]
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Azot

Rad qilish

hayot

nitrogenium

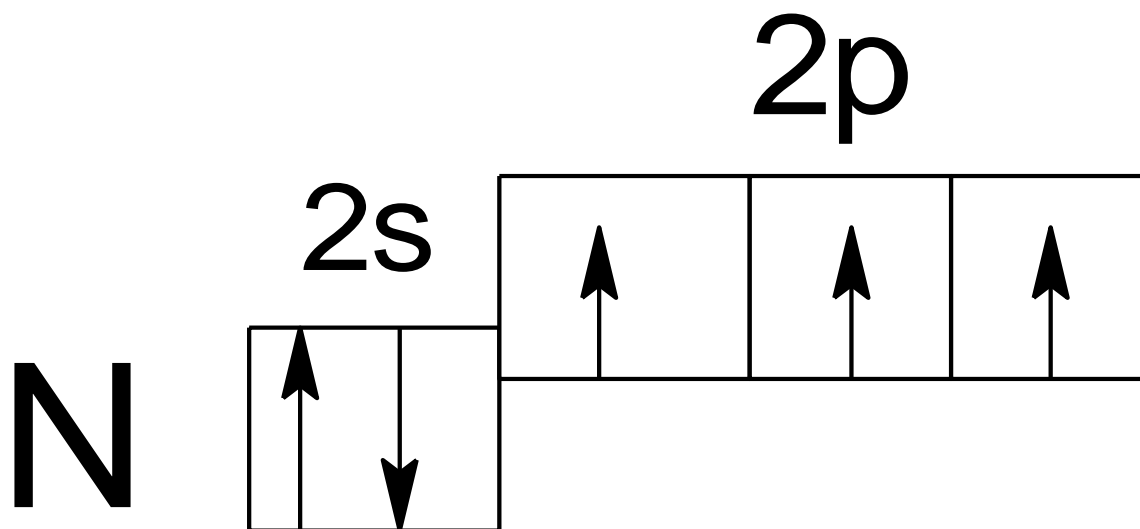
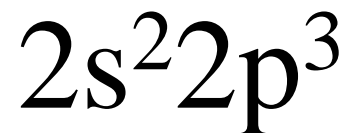
```
graph TD; A[nitrogenium] --- B[селитра]; A --- C[рождающий];
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The diagram illustrates the etymology of the word 'nitrogenium'. At the top, the word 'nitrogenium' is written in a black serif font within a light blue box with a teal border. Two thin black arcs are drawn above the letters 'n' and 'g', with dots at their ends pointing to the letters. A vertical grey line descends from the bottom center of this box to a horizontal grey line. From this horizontal line, two vertical grey lines lead down to two separate light blue boxes with green borders. The left box contains the Russian word 'селитра' (saltpetre) and the right box contains the Russian word 'рождающий' (generating).

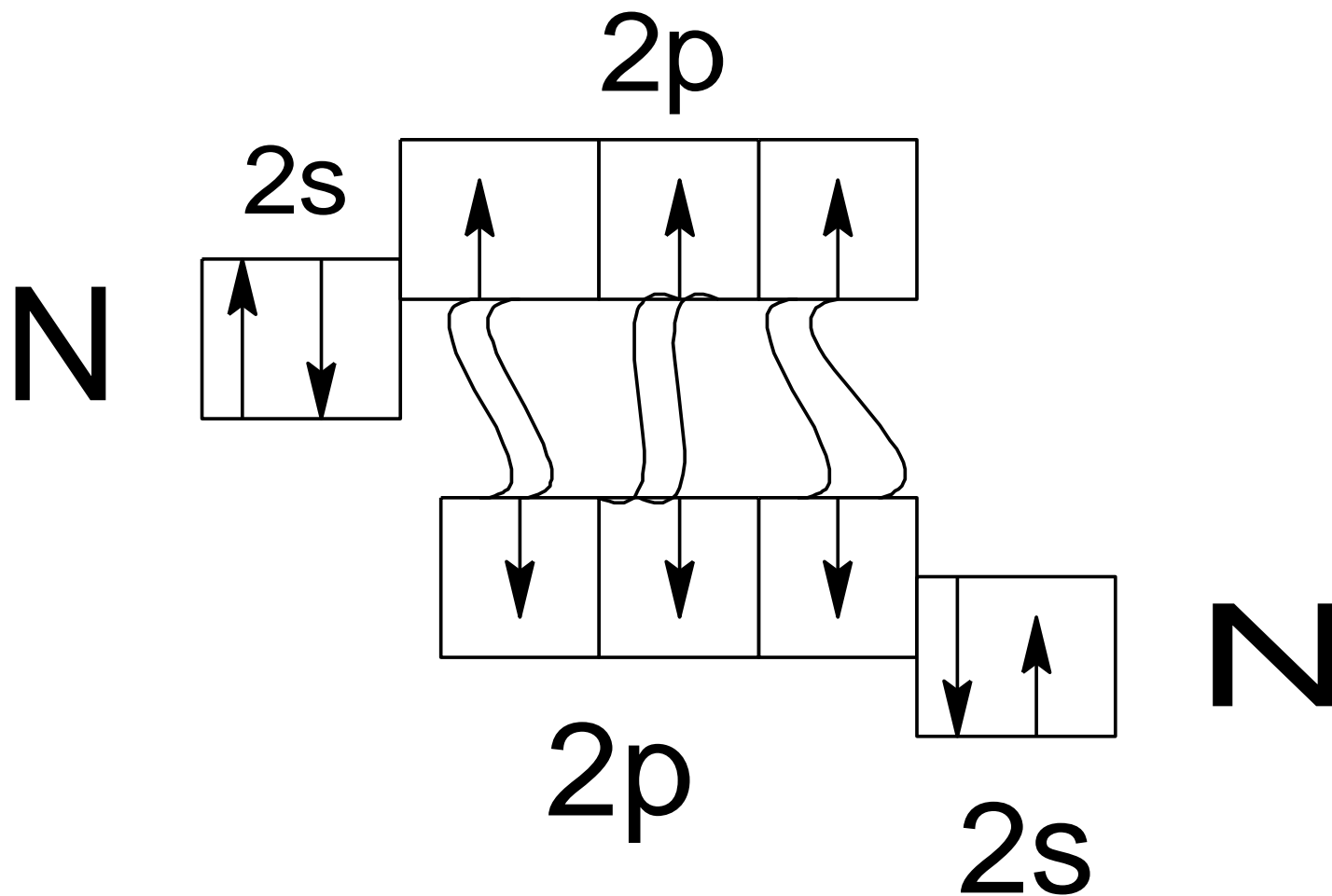
селитра

рождающий

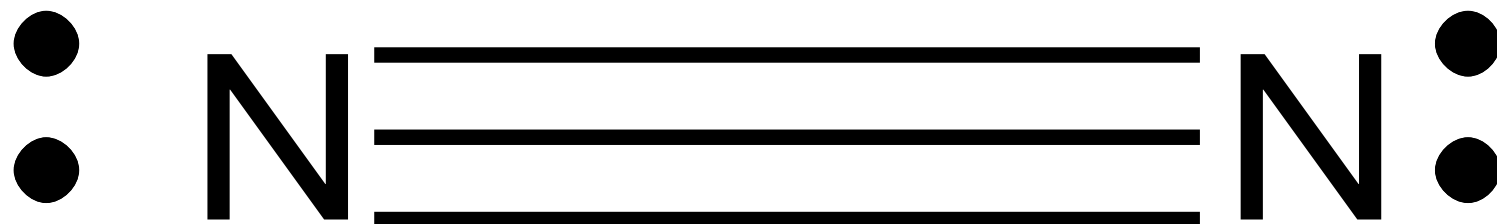
Azotning valent qavatchasining elektron tuzilishi



Azot molekulasining hosil bo'lishi



Azot molekulasidagi uch bog'



Azotning oksidlanish darajasi

3-

0

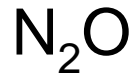
1+

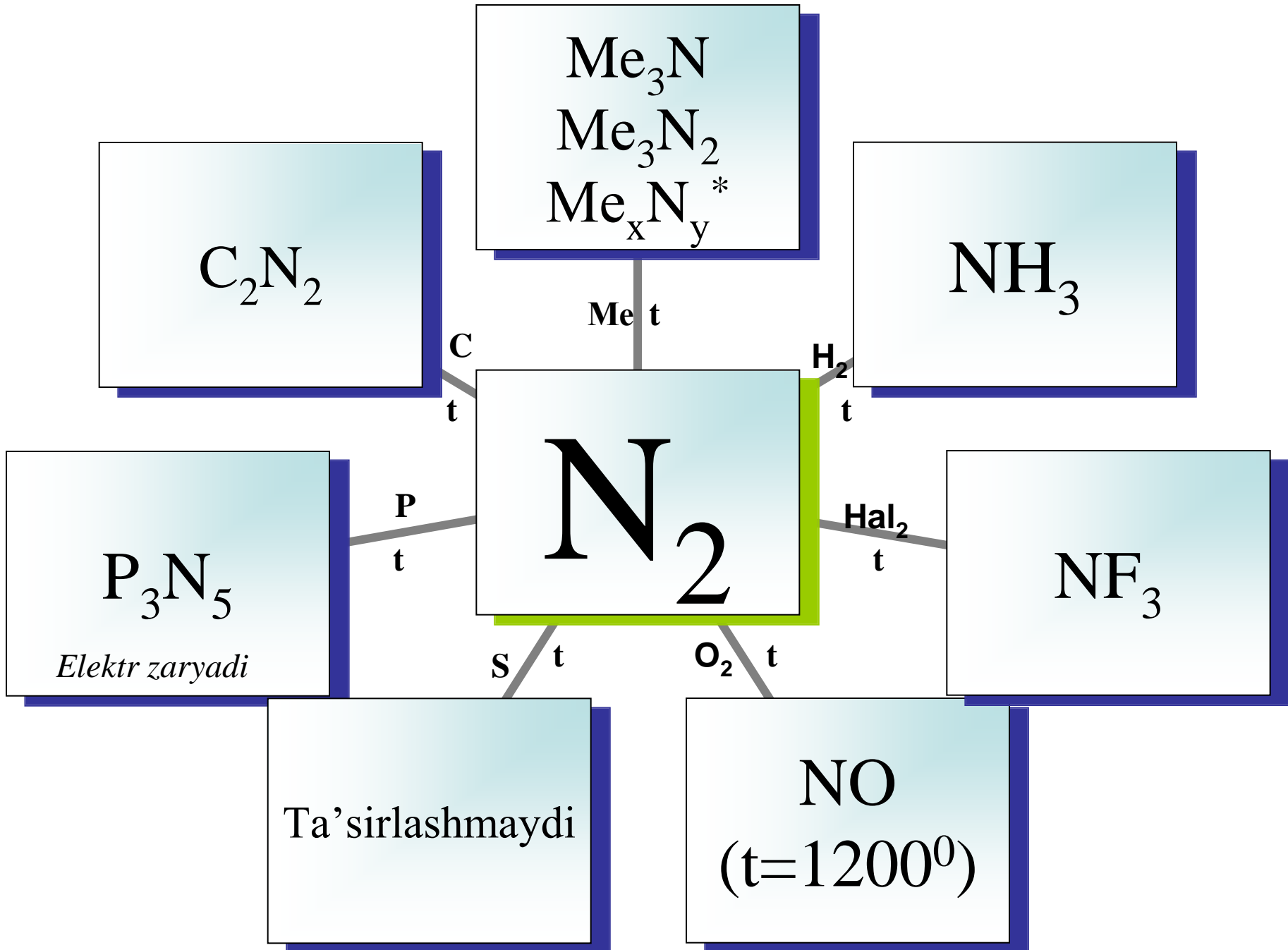
2+

3+

4+

5+

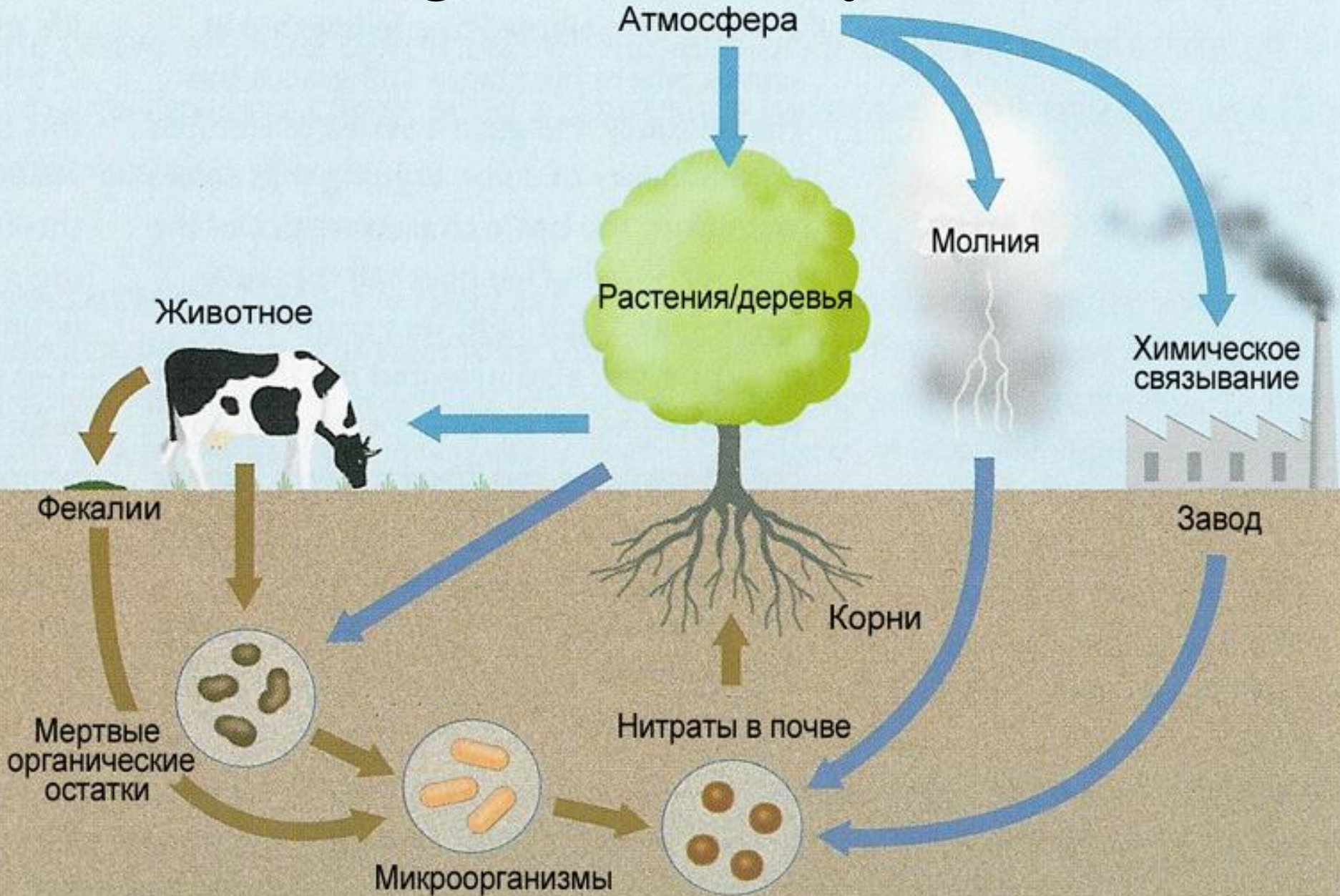




$$v_s = 2,35^{(10)}, 1,54^{(20)}, 0,96^{(80)}.$$

1. $N_2 \rightleftharpoons 2N^0$ (вак., электрич. разряд).
2. $N_2 + 3H_2 \rightleftharpoons 2NH_3$ (комн., электрич. разряд; почти не идет);
 $N_2 + 3H_2 = 2NH_3$ (500° С, р, кат. Fe, Pt).
 (1000° С).
3. $N_2 + H_2 \rightleftharpoons N_2H$ 2(г)
 динимин (1000° С).
4. $N_2 + O_2 \rightleftharpoons 2NO$ (комн., электрич. разряд, почти не идет),
 $N_2 + O_2 = 2NO$ (2000° С, кат. Pt/MnO₂).
 (электрич. разряд).
5. $2N_{2(ж)} + 3O_{2(ж)} = N_2O_3 \downarrow$ (электрич. разряд).
6. $N_2 + 3F_2 = 2NF_3$ (электрич. разряд).
7. $N_2 + 2C$ (графит) $\rightleftharpoons C_2N_2$ (электрич. разряд).
8. N_2 (влажн.) + 6Li = 2Li₃N (комн.),
 $N_2 + 6Na = 2Na_3N$ (100° С, электрич. разряд).
9. $N_2 + 3Mg = Mg_3N_2$ (на воздухе, 780—800° С).
10. $N_2 + 2Al$ (порошок) = 2AlN (800—1200° С).
11. $N_2 + 3LiH = Li_3N + NH_3$ (500—600° С).
12. $N_2 + CaC_2 = Ca(CN)_2$ (300—350° С),
 $N_2 + CaC_2 = CaCN_2 + C$ (графит) [1000—1150° С).
13. $N_2 + 5HCl$ (конц.) + 4[Cr(H₂O)₄Cl₂] = N₂H₅Cl + 4{Cr(H₂O)₄Cl₂}Cl,
 $2N_2 + H_2SO_4$ (конц.) + 4H₂O + 4VSO₄ = (N₂H₅)₂SO₄ + 4(VO)SO₄ (кнп.).
14. $N_2 + 8HCl$ (конц.) + 6[Ti(H₂O)₆]Cl₃ = 2NH₄Cl + 6[Ti(H₂O)₂Cl₄] + 24H₂O.

Azotning tabiatda aylanishi



E'tiboringiz uchun raxmat