1.   1   0.1   .
                                    .   ,
   :   ) 160 $^\circ$;   ) 320 $^\circ$?   ,   5
                        ?
                    . $K_p =$
exp(- $\Delta H^\circ_{298}/RT$ + $\Delta S^\circ_{298}/R$), ΔH°_{298} –   ,
   ΔS°_{298} –   .

	$\Delta_fH^\circ_{298}$, /	S°_{298}, / ·
NH$_4$Cl ( )	-314.2	95.8
NH$_3$ ( )	-46.2	192.6
HCl ( )	-92.3	186.8

                                    .

                                                        (20   )

2.   1951 . .   .   ₅H₅MgBr   Fe l₂

,   -   (.   .).   ,

,   «   »   ,

                    –   ,   –

                 .

                                                                                                                                 .   ,

                                                                       ,   36.68%   NaC₅H₅,

            I,   73,16%   .   (62,63%

            ),   II,

77,78%   .

                    ,   ,

                                             ,   30,67%   ,

                                                                  .   III,

                    53,36%   .

1.   ?

                                                                                                              .

                                        ₅H₅MgBr.

2.   I-III.

                    ,   .

3.   ,   ,   ?

4.   III.   ,   III

                                   .   8

(2   ),

                                                                                .

                    ?   -

                                                   ?

4.   ,   **B**.

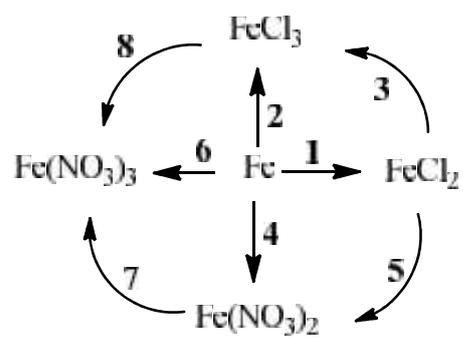   **B**   40%-   ,

                         C,   **D**.

      , **B**, **C**   **D**   .

                                 B

                     F.   **B**   **D**,

                1:1   **E**.   40   **E** **F**

                                  .

    E,   **F**   40   .

                              : 79.97%, H: 6.71%,   : 13.32%.

              – **F**   .

                                (20   )

5.

              ·

                    (   ).

                          '

    ,   .

                        (20   )