KIMYODAN REAKSIYALAR, MODDALARNING NOMI VA FORMULALARI.

OLIMLAR HAQIDA MA’LUMOT.

Углеводлар.

Олиниши.

$CH_2OH - (CHOH)_4 - CH_2OH + [O] \rightarrow CH_2OH-(CHOH)_4-COH$

$(C_6H_{10}O_5)n + nH_2O \rightarrow nC_6H_{12}O_6$ glukoza

Кимёвий хоссалари.

$CH_2OH-(CHOH)_4-COH + 3[O] \rightarrow HOOC - (CHOH)4 - COOH + H2O$

$CH_2OH-(CHOH)_4-COH + H_2 \rightarrow CH_2OH-(CHOH)_4-CH_2OH$

$CH_2OH-(CHOH)_4-COH + Ag_2O \rightarrow 2Ag + CH_2OH-(CHOH)_4-COOH$

$CH_2OH-(CHOH)_4-COH + 2Cu(OH)_2 \rightarrow CH_2OH-(CHOH)_4-COOH + Cu_2O + H_2O$

Глюкозани бижғиши

1. Сут кислотали бижғиш: $C_6H_{12}O_6 \rightarrow 2CH_3 - CHOH - COOH$
2. Спиртли бижғиш: $C_6H_{12}O_6 \rightarrow 2C_2H_5OH + 2CO_2$
3. Мой кислотали бижғиш: $C_6H_{12}O_6 \rightarrow CH_3 - (CH_2)_2 - COOH + 2CO_2 + 2H_2$
4. Лимон кислотали бижғиш: $C_6H_{12}O_6 \rightarrow HOOC-CH_2-COH(COOH)-CH_2-COOH + 2H_2O$

Углеводлар. (Сахароза ва крахмал).

$C_{12}H_{22}O_{11} + H_2O \rightarrow \underset{\text{глюкоза}}{C_6H_{12}O_6} + \underset{\text{фруктоза}}{C_6H_{12}O_6}$

$(C_6H_{10}O_5)n \rightarrow (C_6H_{10}O_5)x \rightarrow C_{12}H_{22}O_{11} + H_2O + nC_6H_{12}O_6$

Целлюлоза

Олиниши.

$6NCO_2 + 5nH_2O \rightarrow (C_6H_{10}O_5)n + 6nO_2$

Кимёвий хоссалари.

$(C_6H_{10}O_5)n + nH_2O \rightarrow nC_6H_{12}O_6$

$[C_6H_7O_2(ONa)_3]n + 3n(CH_3)_2SO_4 \rightarrow [C_6H_7O_2(CH_3)_3]n + nNa(CH_3)SO_4$

$[C_6H_7O_2(ONa)_3]n + 3nC_6H_5CH_2Cl + 2nNaOH \rightarrow [C_6H_7O_2(OCH_2C_6H_5)_3]n + 3nCH_3COOH$

$[C_6H_7O_2(OH)_3]n + 3nHNO_3 \rightarrow [C_6H_7O_2(ONO_2)_3]n + 3nH_2O$

$[C_6H_7O_2(OH)_3]n + 3n(CH_3CO)_2O \rightarrow [C_6H_7O_2(OCOCH_3)_3]n + 3NCH_3COOH$

$[C_6H_7O_2(OH)_3]n + 3nNa \rightarrow [C_6H_7O_2(ONa)_3]n + 3/2H_2$

$[C_6H_7O_2(ONa)_3]n + nH_2O \rightarrow [C_6H_7O_2(OH)_3] + nNaOH$

$[C_6H_7O_2(ONa)_3]n+3n(CH_3)_2SO_4 + 2nNaOH \rightarrow [C_6H_7O_2(OCH_3)_3] + 3nCH_3NaSO_4$

Аминлар.

Олиниши.

$CH_3OSO_2 – OCH_3 + NH_3 \rightarrow CH_3 - NH_2 + HO – SO_2 – OCH_3$

$R – OH + NH_3 \rightarrow R – NH_2 + H_2O$ (кат. Al_2O_3, ThO_2)

$R – NH_2 + R – OH \rightarrow R_2NH + H_2O$

$R_2NH + R – OH \rightarrow R_3N + H_2O$

$R – CONH_2 + NaOCl \rightarrow R – NH_2 + CO_2 + NaCl$

$R – CONH_2 + NaOBr \rightarrow R – NH_2 + CO_2 + NaBr$

$R – NO_2 + 3H_2 \rightarrow R – NH_2 + 2H_2O$

$R – CN + 2H_2 \rightarrow R – CH_2 – NH_2$

$R – CH = N – OH + 2H_2 \rightarrow R – CH_2 – NH_2 + H_2O$

$R – N \equiv C + 2H_2 \rightarrow R – NH – R$

$CH_3 – OH + NH_3 \rightarrow CH_3 – NH_2 + H_2O$

$CH_3 – NH_2 + CH_3 – OH \rightarrow (CH_3)_2 – NH + H_2O$

$(CH_3)_2 – NH + CH_3OH \rightarrow (CH_3)_3 – N + H_2O$

Кимёвий хоссалари.

$R – NH_2 + HCl \rightarrow R – NH_2 \cdot HCl$

$R – NH_2 + H_2SO_4 \rightarrow R – NH_3SO_4H$

$R – NH_2 + HONO \rightarrow R – OH + N_2 + H_2O$

$R – NH_2 + HONO \rightarrow R – NH_3ONO$

$(CH_3)_2CH – CH_2 – NH_2 + HONO \rightarrow (CH_3)_2C = CH_2 + N_2 + H_2O$

$R_2 – NH + HNO_2 \rightarrow R2 – N – NO + H2O$

$C_2H_5 – NH_2 + (CH_3CO)_2O \rightarrow C_2H_5 – NH – CO – CH_3 + CH_3COOH$

$C_2H_5 – NH_2 + CH_3COCl \rightarrow C_2H_5 – NH – CO – CH_3 + HCl$

$RNBr_2 + 2H_2O \rightarrow R – NH_2 + 2HBrO$

$RNH_2 + 2Br_2 \rightarrow R – NBr_2 + 2HBr$

$R_2NH + Br_2 \rightarrow R_2N – Br + HBr$

$R – NH_2 + CHCl_3 \rightarrow R –NC + 3HCl$

Ароматик аминлар.

Олиниши.

$C_6H_5NO_2 + 3H_2 \xrightarrow{FeCl_3} C_6H_5NH_2 + 2H_2O$

$C_6H_5NO_2 + 2Zn + 4NH_4Cl \rightarrow C_6H_5NHOH + 2[Zn(CH_3)_2]Cl_2 + H_2$

$C_6H_5NO_2 + 9Fe + 4H_2O \rightarrow 4C_6H_5NH_2 + 3Fe_3O_4$

$C_6H_5NO_2 + 9Fe + 4H_2O \rightarrow C_6H_5NH_2 + 3Fe(OH)_3$

$C_6H_5NO_2 + 6Fe(OH)_2 + H_2O \rightarrow C_6H_5NH_2 + 6Fe(OH)_3$

$C_6H_5NO_2 + 2Fe + 4H_2O \rightarrow C_6H_5NH_2 + 2Fe(OH)_3$

$C_6H_5NO_2 + 2Fe + 4H_2O \rightarrow C_6H_5NH_2 + 2Fe(OH)_3$

$C_6H_5Cl + 2NH_3 \rightarrow C_6H_5NH_2 + NH_4Cl$

$C_6H_5CONH_2 + NaOBr \rightarrow C_6H_5NH_2 + CO_2 + NaBr$

$C_6H_5NH_2 + C_6H_5NH_2 \cdot HCl \rightarrow C_6H_5 - NH - C_6H_5 + NH_4Cl$

$C_6H_5NH_2 + 2CH3OH \rightarrow C_6H_5 - N(CH_3)_2 + 2H_2O$

Кимёвий хоссалари.

$C_6H_5NH_2 + CH_3J \rightarrow C_6H_5 - NH - CH_3 + HJ$

$C_6H_5NH_2 + HNO_2 \rightarrow C_6H_5OH + N_2 + H_2O$

$C_6H_5NH_2 + 3Br_2 \rightarrow C_6H_2Br_3 - NH_2 + 3HBr$

$C_6H_5NH_2 + HCl \rightarrow C_6H_5NH_2 \cdot HCl$

$C_6H_5NH_2 + H_2O \rightarrow C_6H_5NH_3 \cdot OH$

Аминокислоталар.

Олиниши.

$NH_3 + Cl - CH_2 - COONH_4 \rightarrow H_2N - CH_2 - COONH_4 + HCl$

$NH_3 + Cl - CH_2 - COOH \rightarrow H_2N - CH_2 - COOH + HCl$

Н.Д. Зелинский усули:

$R - CHO + KCN + NH_4Cl + H_2O \rightarrow R - CHNH_2 - COONH_4 + KC$

$CH_2 = CH - COOH + 2NH_3 \rightarrow CH_2(NH_2) - CH_2 - COONH_4$

В.Д. Родинов усули бўйича малон кислотадан олиш:

$CH_3-CHO + CH_2(COOH)_2 + NH_3 \rightarrow CH_3-CH(NH)-CH_2COOH + CO_2 + H_2O$

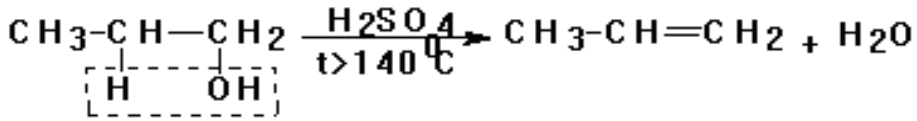
Кимёвий хоссалари.

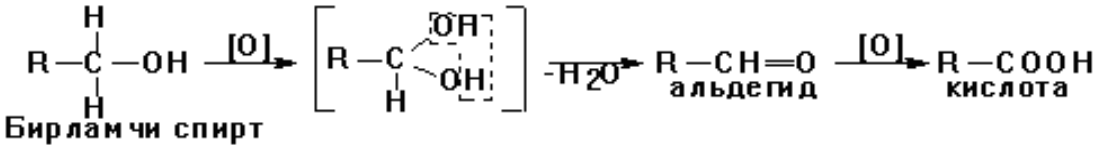
$NH_2-CH_2-COOH + HCl \rightarrow Cl[NH_3-CH_2-COOH]$

$NH_2-CH_2-COOH + HNO_2 \rightarrow N_2 + H_2O + HO-CH_2-COOH$

$NH_2-CH_2-COOC_2H_5 + HNO_2 \rightarrow N = N = CH - COOC_2H_5 + 2H_2O$

Органик кимёдан энг муҳим реакциялар





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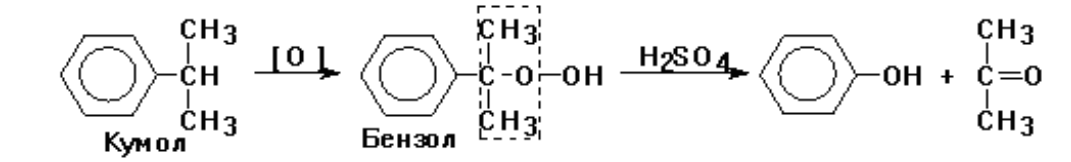
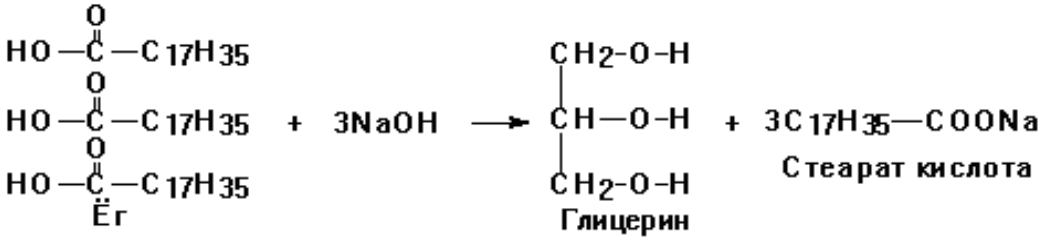
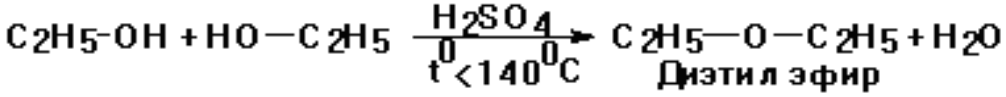
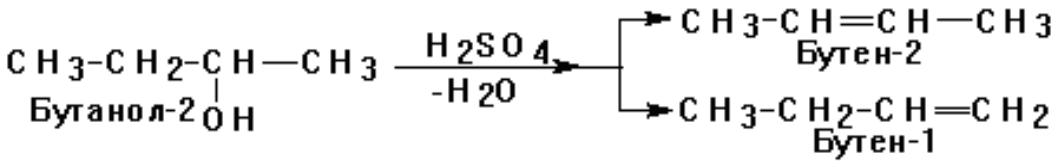
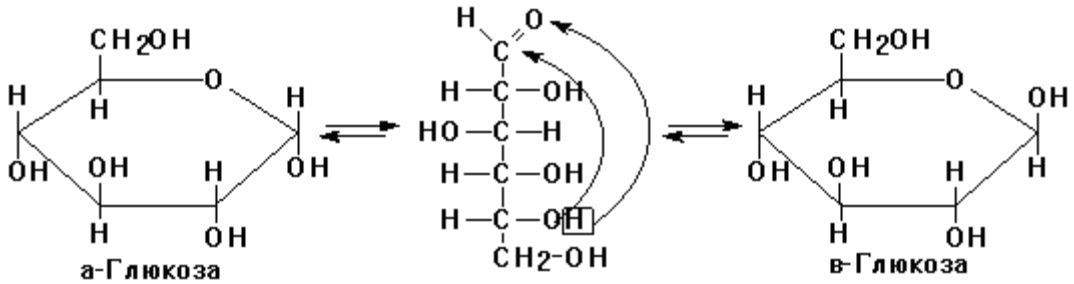


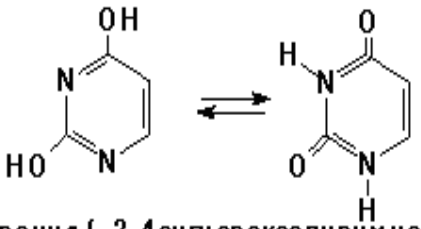


$C_2H_5OH + HO\text{-}NO_2 \rightarrow C_2H_5\text{-}NO_2 + H_2O$ (Этилнитрат)

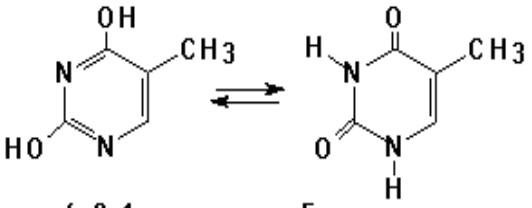




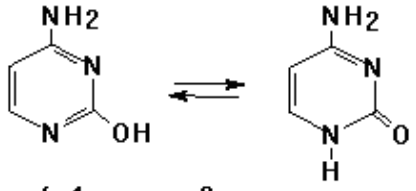




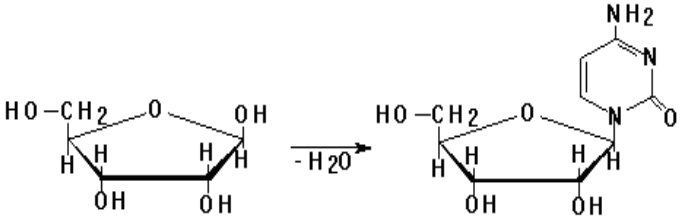
Урацил (2-4дигидроксопиримидин)



Тимин (2-4дигидроксо, 5-метилпиримидин)

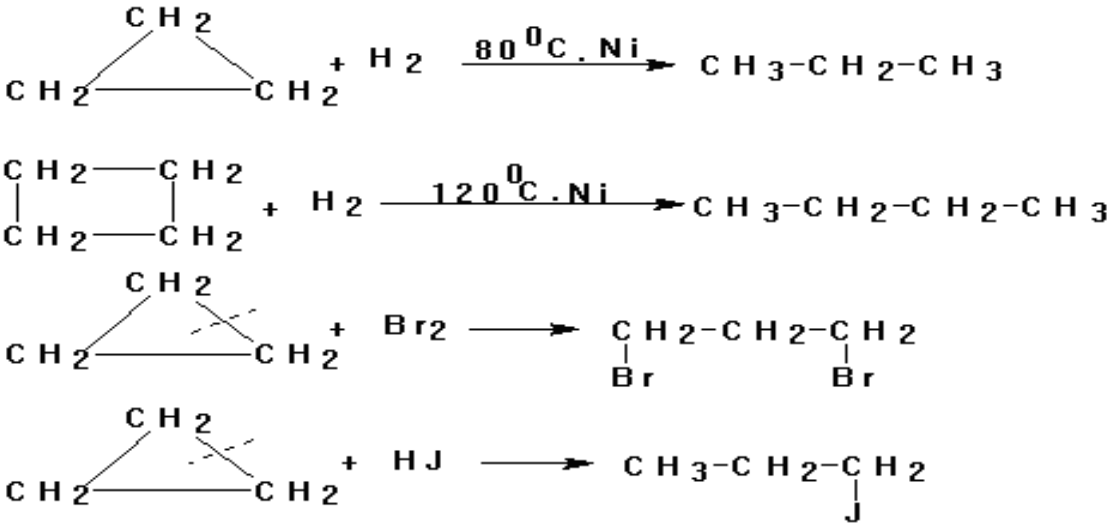


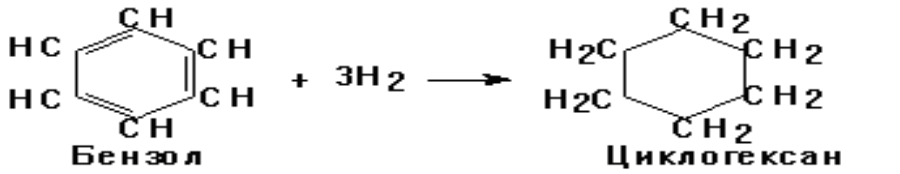
Цитозин (4-амино, 2-гидроксопиримидин)

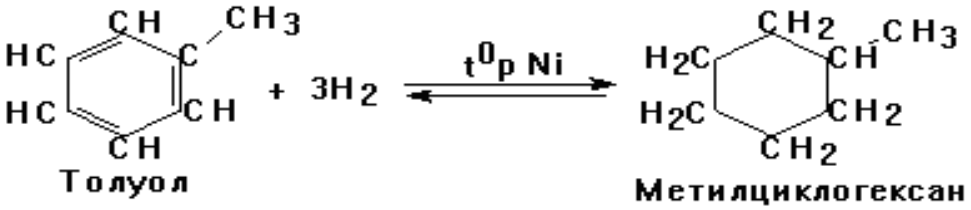


Рибоза

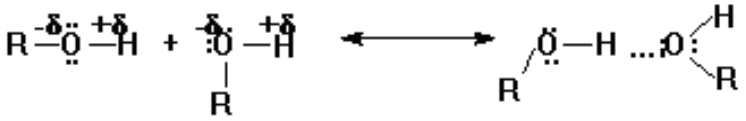
Нуклеаза (Цитозин)

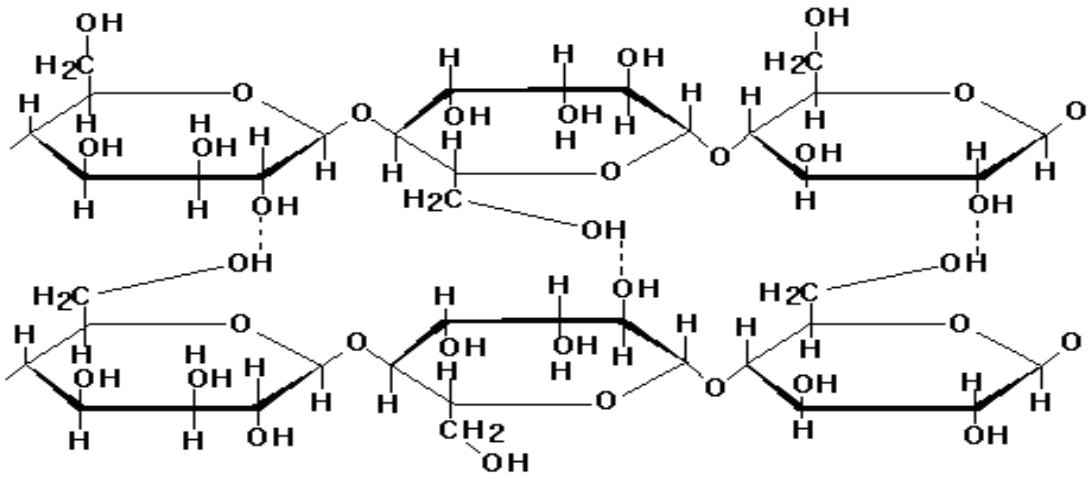


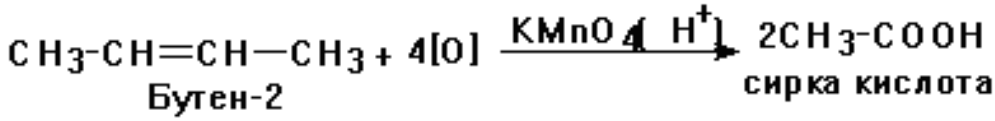


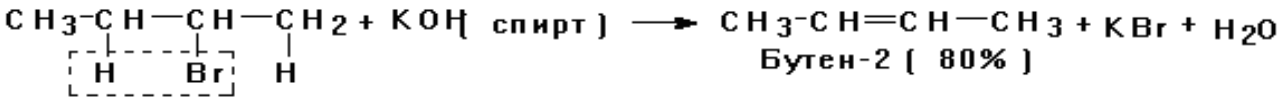


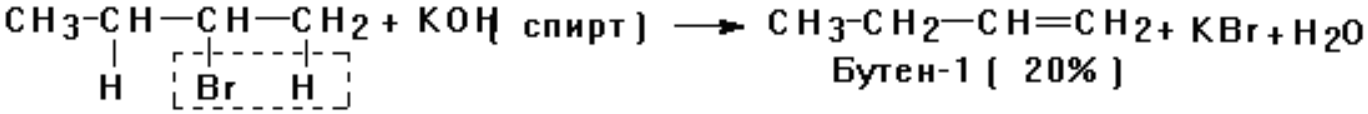
Органик кимёда водород боғнинг ҳосил бўлиши



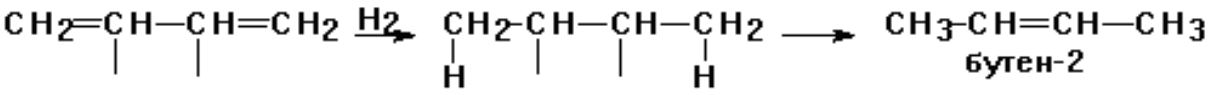


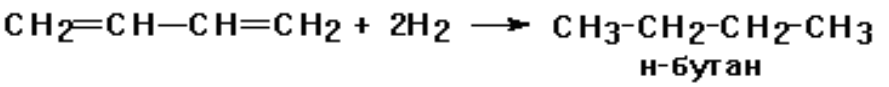


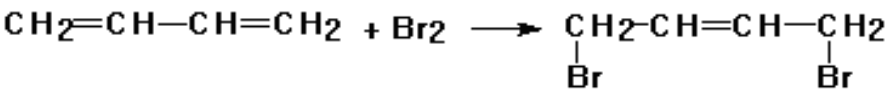


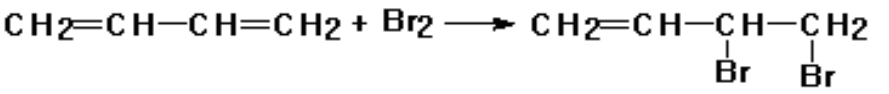


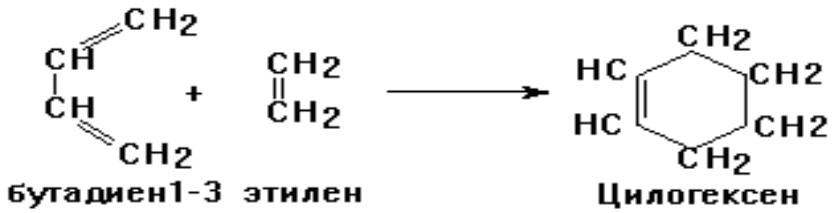
$2C_nH_{2n} + 3nO_2 \rightarrow 2nCO_2 + 2nH_2O$ $CH_2Br\text{-}CH_2Br\text{-}CH_3 + Mg \rightarrow CH_2{=}CH\text{-}CH_2 + MgBr_2$

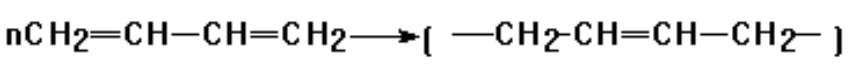


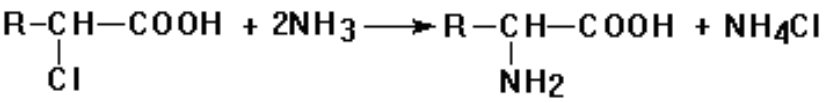


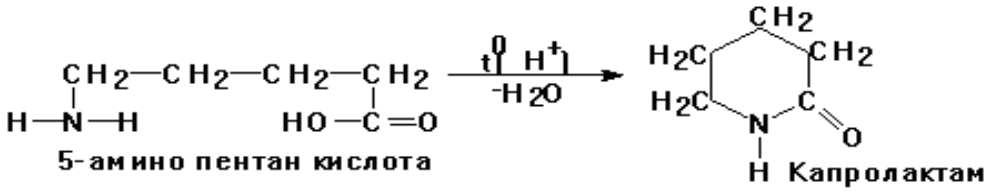


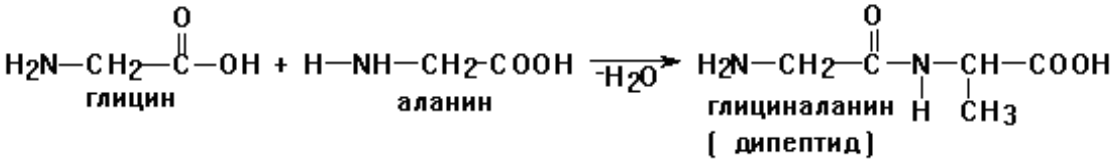


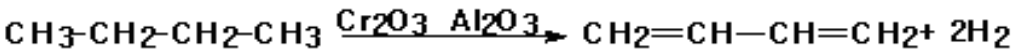


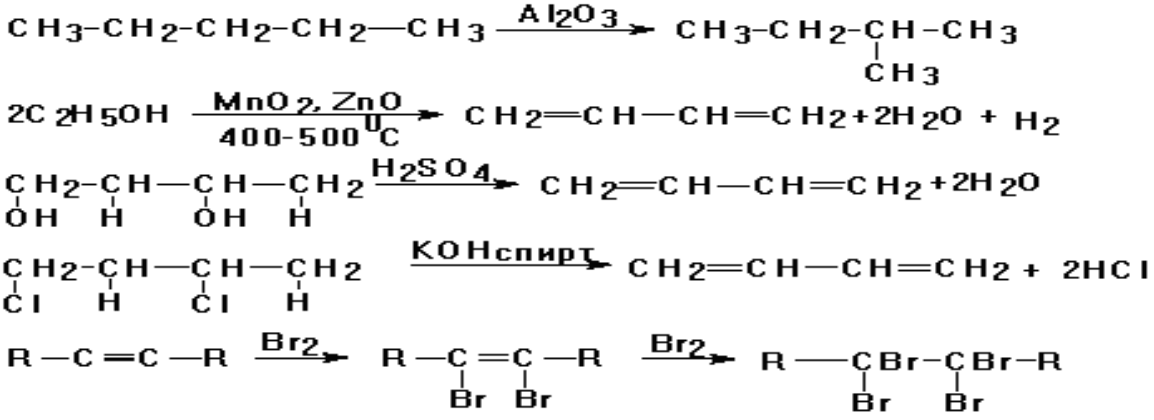


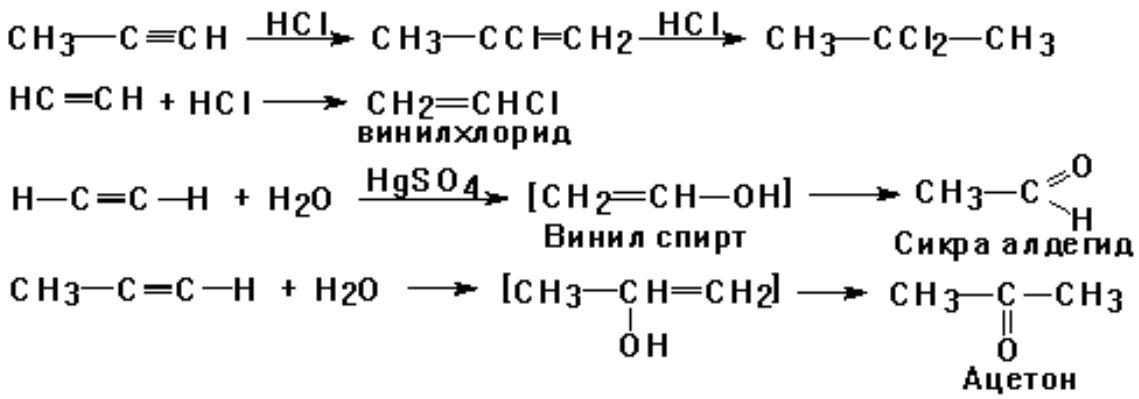


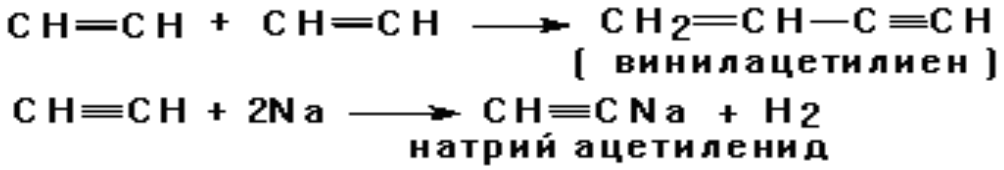


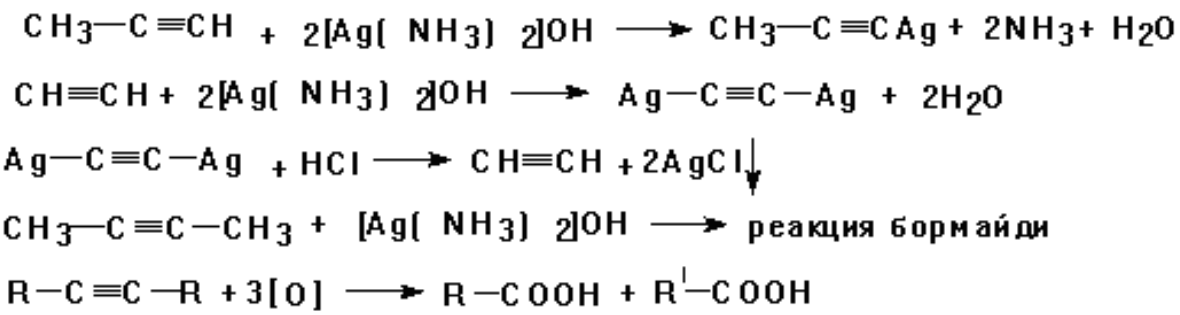












$$2C_2H_2 + 5O_2 \rightarrow 4CO_2 + 2H_2O + Q$$

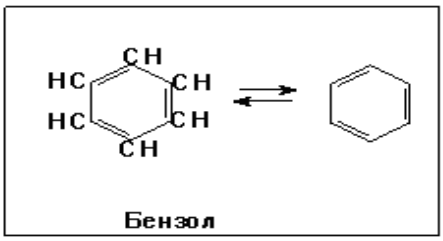
$$R\text{-}CH2\text{-}CBr_2\text{-}R + 2KOH_{(спирт)} \rightarrow R\text{-}C \equiv C - R + 2KBr + 2H_2O$$

$$R\text{-}CHBr\text{-}CHBr\text{-}R + 2KOH_{(спирт)} \rightarrow R\text{-}C \equiv C - R + 2KBr + 2H_2O$$

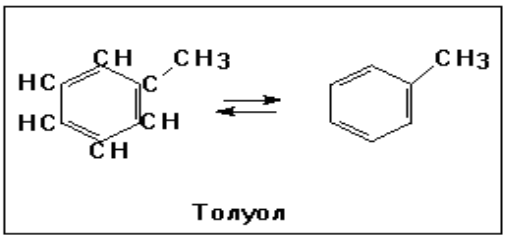
$$CH_3 - C \equiv C - Na + Br - C_2H_5 \rightarrow CH_3 - C \equiv C - C_2H_5 + NaBr$$

$$HC \equiv C - CH = CH2 + HCl \rightarrow CH2 = CCl - CH = CH2 \text{ (хлоропрен)}$$

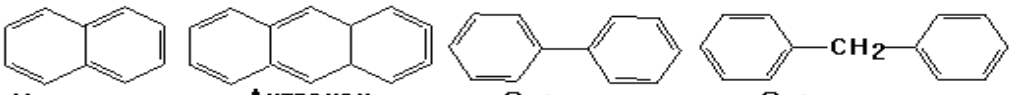
$$nCH_2 = CCl - CH = CH_2 \rightarrow [- CH_2 - CCl = CH - CH_2 -]n$$



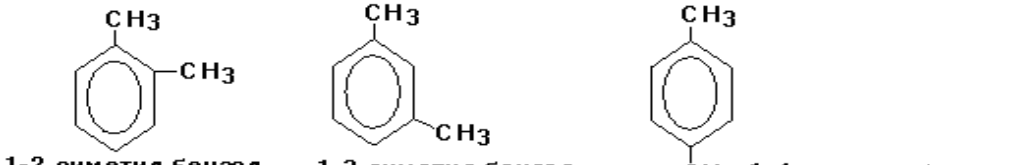
Бензол



Толуол



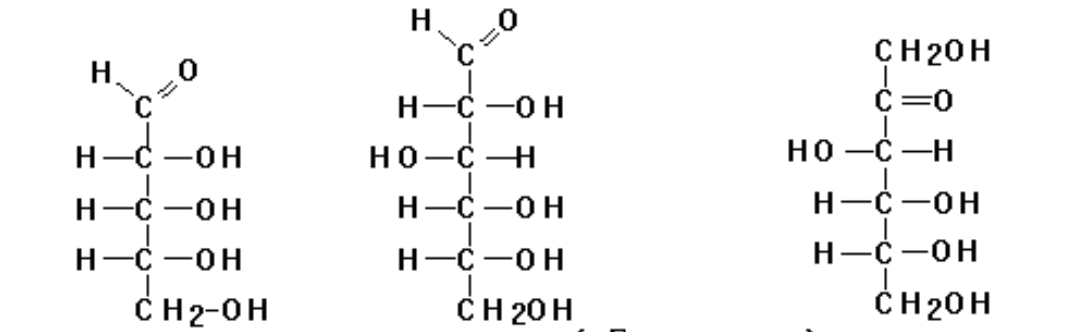
Нафталин Антроцен Дифенил Дифенил метан



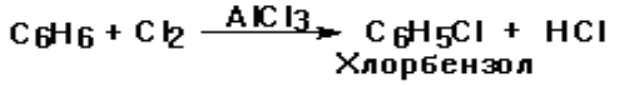
1-2 диметил бензол
о-ксилол
ёки
ортоксилол

1-3 диметил бензол
м-ксилол
ёки
метаксилол

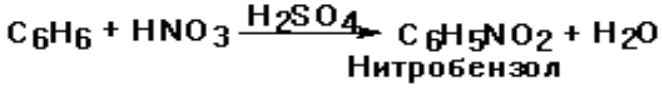
1-4 диметил бензол
п-ксилол
ёки
параксилол



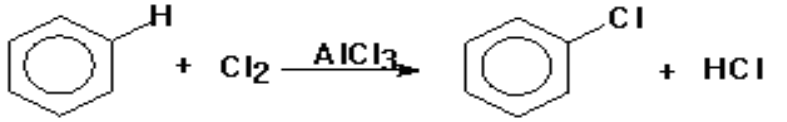
Рибоза(пентоза) Глюкоза (Гексозалар) Фруктоза

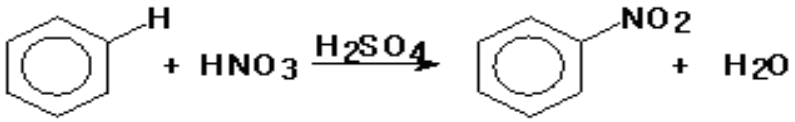


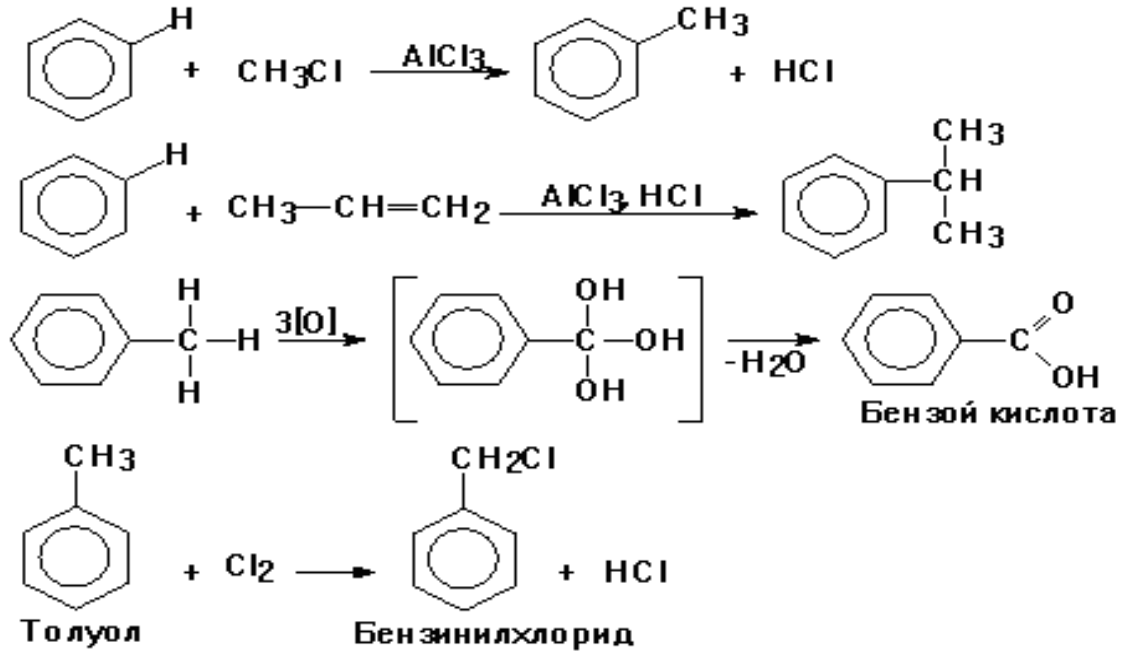
Хлорбензол

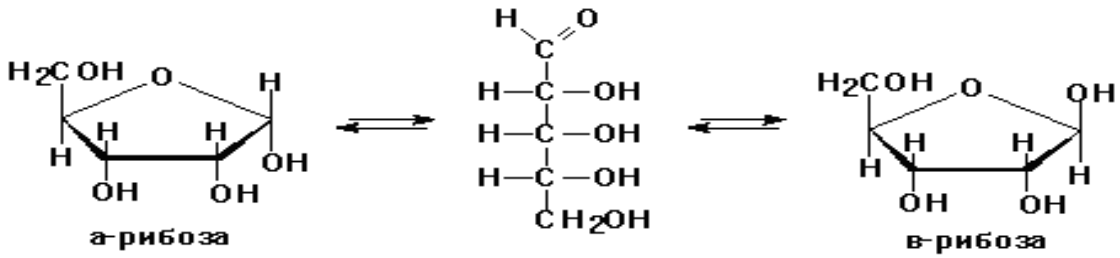


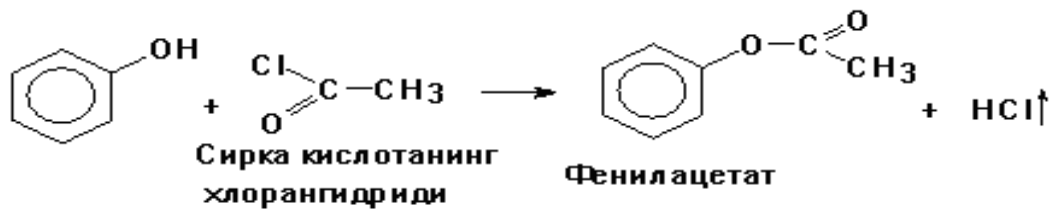
Нитробензол

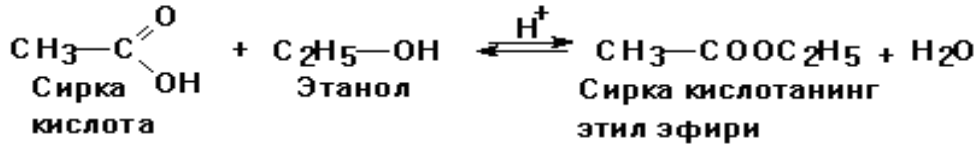


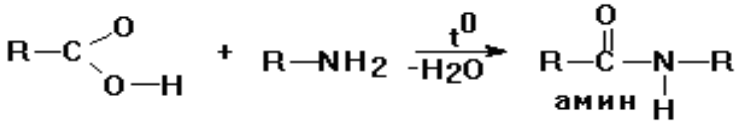






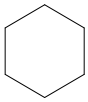
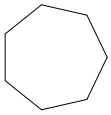






ORGANIK MODDALAR JADVALI.

Номи	Формуласи	Изомерияси	Суюқланиш температураси °C	Қайнаш температураси °C	Нисбий зичлиги 20°C
Тўйинган углеводородлар. (Алканлар)					
Метан	CH_4	-	-184	-162	-
Этан	C_2H_6	-	-172	-88	-
Пропан	C_3H_8	-	-190	-42	-
Бутан	C_4H_{10}	2	-135	-0,5	-
Пентан	C_5H_{12}	3	-132	-36	0,6261
Гексан	C_6H_{14}	5	-94	69	0,6603
Гептан	C_7H_{16}	9	-90	98	0,6834
Октан	C_8H_{18}	18	-57	126	0,7031
Нонан	C_9H_{20}	35	-54	151	0,7182
Декан	$C_{10}H_{22}$	75	-30	171	0,7301
Циклопарафинлар					
Циклопропан		-	-127	-36	-

Циклобутан		2	-50	-13	-
Циклопентан		5	-94	49	0,7512
Циклогексан		12	-7	81	0,7793
Циклогептан		26	-8	119	0,8090
Этилен углеводородлар. (Алкенлар)					
Этилен	C_2H_4	-	-169	-104	0,5700
Пропен	C_3H_6	-	-185	-47,4	0,5170
Бутен	C_4H_8	2	-130	-6	0,5960
Пентен	C_5H_{10}	4 (2)	-165	-30	0,6430
Гексен	C_6H_{12}	12 (4)	-138	63,5	0,6730
Гептен	C_7H_{14}		-119	93,6	0,6970
Октен	C_8H_{16}		-102	122,5	0,7150
Нонен	C_9H_{18}		-78	146	0,7310
Алкадиенлар					
Пропадиен-1,2 (аллен)	C_3H_4	-			

Бутадиен-1,3 (дивинил)	C_4H_6	-		-4	
2-метил бутадиен-1,3 (изопрен)	C_5H_8	-		37	
Ацетилен қатори углеводородлари. (Алкинлар)					
Ацетилен (этин)	C_2H_2	-	-80,8	-83,8	0,621
Пропин (аллилен)	C_3H_4	-	-102,7	-23,23	0,690
Бутин(кротонилен)	C_4H_6	2	-125,72	8,07	0,678
Пентин (валирилен)	C_5H_8	3	-106,1	40,23	0,694
Гексин	C_6H_{10}	7	-132,1	71,35	0,715
Бензол қатори ароматик углеводородлар.					
Бензол	C_6H_6	-	5,533	80,1	0,8790
Толуол (метил бензол)	C_6H_5-CH_3	-	-95	110,63	0,8669
Этилбензол	C_6H_5-C_2H_5	4	-93,9	136,15	0,8669
Пропилбензол	C_6H_5-C_3H_7	9	94,3	159	0,8620
Бутилбензол	C_6H_5-C_4H_9	27	-87,97	183,27	0,8601

о-ксилол (1,2-диметилбензол)	C_6H_4-$(CH_3)_2$	Изомер	-25,175	144,41	0,8802
м- ксилол (1,3-диметилбензол	C_6H_4-$(CH_3)_2$	Изомер	-47,82	139,1	0,8642
п- ксилол (1,4-диметилбензол	C_6H_4-$(CH_3)_2$	Изомер	-13,26	138,35	0,8611
гексаметилбензол	C_6H_4-$(CH_3)_2$		166	265	-
Нормал тузилишли бир атомли тўйинган спиртлар.					
Метил спирт	CH_3OH	-	-97,8	64,7	0,792
Этил спирт	C_2H_5OH	-	-117,3	78,37	0,783
Пропил спирт	C_3H_7OH	2	-127	97,2	0,804
Бутил спирт	C_4H_9OH	4	-79,9	117,5	0,8098
Пентил (амил) спирт	$C_5H_{11}OH$	8	-78,5	138	0,814
Гексил спирт	$C_6H_{13}OH$	17	-51,6	157,2	0,819
Децил спирт	$C_{10}H_{21}OH$	39	6	231	0,889
Додецил спирт	$C_{12}H_{25}OH$		24	255	0,831
Феноллар					
Фенол	C_6H_5OH	-	43	182	1,0545

Орта крезол - 1,2	$C_6H_4(CH_3)OH$	Изомер	30,9	30,9	1,0465
Мета креол - 1,3	$C_6H_4(CH_3)OH$	Изомер	10,9	202,8	1,034
Пара крезол-1,4	$C_6H_4(CH_3)OH$	Изомер	34	202,5	1,0347
Пирокатехин-1,2	$C_6H_4(OH)_2$	Изомер	105	240	1,371
Резоцин-1,3	$C_6H_4(OH)_2$	Изомер	110	276,5	1,285
Гидрохинон-1,4	$C_6H_4(OH)_2$	Изомер	169	285	1,358
Пирогаллол-1,2,3	$C_6H_3(OH)_3$	Изомер	132,5	309	1,453
Флороглюцин1,3,5	$C_6H_3(OH)_3$	Изомер	219	-	
Альдегидлар					
Чумоли альдегид	CH_2O	-	-92	-21	
Сирка альдегид	CH_3CHO	-	-123,5	20,8	

Пропион альдегид	CH_3CH_2CHO	-	-81	48,8	
Мой альдегид	$CH_3CH_2CH_2CHO$	2	-99	75,7	
Валериан альдегид	$CH_3CH_2CH_2CH_2CHO$	4	-92	103,4	
Палметин альдегид	$CH_3(CH_2)_{14}CHO$		34	200	
Стеарин альдегид	$CH_3(CH_2)_{16}CHO$		63,5	212	
Кетонлар					
Ацетон (диметилкетон)	$CH_3 – CO – CH_3$	-	-95,35	56,24	
Метилэтилкетон	$CH_3 – CO – C_2H_5$	-	-86,4	79,6	
Метилпропилкетон	$CH_3 – CO –C_3H_7$	2	-77,8	101,7	
Диэтилкетон	$C_2H_5 – CO – C_2H_5$	-	-42	102,7	
Дипропилкетон	$C_3H_7 – CO –C_3H_7$	2	-32,6	144	
Нормал тузилишли бир негизли тўйинган карбон кислоталар					
Чумоли кислота	$HCOOH$	-	8,4	100,7	1,227
Сирка кислота	CH_3COOH	-	16,6	118,1	1,049
Пропион кислота	C_2H_5COOH	-	-22	141,1	0,999
Мой кислота	C_3H_7COOH	2	-7,9	163,5	0,959

Валериан кислота	C_4H_9COOH	4	-34,5	186,35	0,942
Капрон кислота	$C_5H_{11}COOH$	8	-2	202	0,929
Энант кислота	$C_6H_{13}COOH$		-10,5	223	0,918
Каприл кислота	$C_7H_{15}COOH$		16	237,5	0,910
Пеларгон кислота	$C_8H_{17}COOH$		12,5	254	0,906
Каприн кислота	$C_9H_{19}COOH$		31,5	269	0,886
Мeристин кислота	$C_{13}H_{27}COOH$		53,8	250.5	0,862
Пальметин кислота	$C_{15}H_{31}COOH$		64,6	272	0,849
Маргарин кислота	$C_{16}H_{33}COOH$		60,6	277	0,858
Стеарин кислота	$C_{17}H_{35}COOH$		69,4	287	0,847
Икки негизли карбон кислоталар.					
Оксалат кислота	HOOC - COOH	-	189,5		
Малон кислота	$HOOC –CH_2$ - COOH	-	135,6		
Қаҳрабо кислота	$HOOC-(CH_2)_2$-COOH	-	185		
Глутар кислота	$HOOC-(CH_2)_3$-COOH	2	97,5		

Адипин кислота	$HOOC-(CH_2)_4-COOH$	6	153		
Пропка кислота	$HOOC-(CH_2)_5-COOH$		140		
Себацин кислота	$HOOC-(CH_2)_6-COOH$		133		
Оддий эфирлар					
Диметил эфир	CH_3-O-CH_3	1			
Метилэтил эфир	$CH_3-O-C_2H_5$	1			
Диэтил эфир	$C_2H_5-O-C_2H_5$	3			
Метилизопропил эфир	$CH_3-O-C_3H_7$	3			
Метилпропил эфир	$CH_3-O-C_3H_7$	Изомер			
Этилпропил эфир	$C_2H_5-O-C_3H_7$	6			
Этилизопропил эфир	$C_2H_5-O-C_3H_7$	Изомер			
Дипропил эфир	$C_3H_7-O-C_3H_7$				
Диизопропил эфир	$C_3H_7-O-C_3H_7$	Изомер			
Мураккаб эфирлар					

Чумоли кисло-таниг метилэфири	$HCOOCH_3$	-	31,8	-99	0,975
Сирка кислотаниг метилэфири	CH_3COOCH_3	2	57	-98,1	0,934
Пропион кисло-таниг метилэфири	$C_2H_5COOCH_3$	3	80,6	-87,5	0,915
Мой кислотаниг метилэфири	$C_3H_7COOCH_3$	9	102,7		0,898
Валериан кисло-таниг метилэфири	$C_4H_9COOCH_3$		127,7	-91	0,910
Чумоли кисло-таниг этилэфири	$HCOOC_2H_5$	2	54,3	-89	0,923
Сирка кислотаниг этилэфири	$CH_3COOC_2H_5$	3	77,2	-83,4	0,901
Пропион кисло-таниг этилэфири	$C_2H_5COOC_2H_5$	9	99,1	-73,9	0,888
Мой кислотаниг эитлэфири	$C_3H_7COOC_2H_5$		120,55	-97,9	0,879
Валериан кисло-таниг этилэфири	$C_4H_9COOC_2H_5$		145,5	-91,2	0,877

Аминокислоталар					
Очиқ занжирли (ациклик), алифатик аминокарбон кислоталар. 1) Моноамино монокарбон кислоталар – молекуласида битта – NH_2 ва битта – COOH группа тутадилар					
Глицин	$H_2N - CH_2COOH$				
Аланин	$CH_3CH(NH_2)COOH$				
Серин	$HOH_2C-CH(NH_2)COOH$				
Цистеин	$HSH_2C-CH(NH_2)COOH$				
Цистин	$HOOC-CH(NH_2)-CH_2-S-S-CH_2$				
Треонин	$H_3C-CH(OH)-CH(NH_2)COOH$				
Метионин	$CH_3S-(CH_2)-CH(NH_2)COOH$				
Лейцин	$(CH_3)_2CH_2-CH(NH_2)COOH$				
Изолейцин	$C_2H_5CH(CH_3)CH-(NH_2)COOH$				
2) Моноаминокарбон кислоталар – молекуласида битта – NH_2 а ва иккита – COOH группа тутадилар					
Аспартат кислота	$HOOC-CH_2-CH(NH_2)COOH$				
Аспаргин	$H_2NCO-CH_2-CH(NH_2)COOH$				
Глутамат кислота	$HOOC-(CH_2)_2-CH(NH_2)COOH$				

Глутамат	$H_2NCO-(CH_2)_2-CH(NH_2)COOH$				

Olimlar haqida ma’lumot.

1892-yil Jenevada Xalqaro kimyogarlar kongresida yangi nomenklatura qabul qilindi. Jeneva nomenklaturasi bo’yicha moddalardagi asosiy zanjir no’merlanib, radikal nomining oldiga ushbu radikalning asosiy zanjirdagi qaysi uglerod atomiga brikkanligini ko’rsatuvchi raqam qo’yiladi.

1960-yilda IUPAC (International) Union of Pure Applied Chemistry)-IYPAK (sof va amaliy xalqaro ittifoqi) kamissiyasi tomonidan ishlab chiqilgan yangi nomenklatura e’lon qilindi

A.A.Abduvohobov akademik element organiklar maktabini yaratgan.

Abdubakirov N.Q. – tabiiy glukozaning kimyoviy tuzilishi va farmakologik hossalarini o’rganib, “Erizimozid” , “Strofantidin asetat” , “Psorolen” dorivor moddalarini ajratib olgan va tadbiq etgan.

Abu Ali Ibn Sino – dorivor, ta’biiy kimyoviy brikmalarning tarkibi va hossalariga ko’ra sinflarga toifalashtirgan.

Abu Rayhon Beruniy – atomlar bo’linmedi degan olimlaga qarshi chiqib ula bo’linadi lekin cheksiz emas dedi.979-1048

Adryenov va **Voronkovlar** - kremniy organik brikmalar kimyosini rivojlanishiga katta hissa qo’shgan.

Ahmad al-Farg’oniy – “Kitob amal ar-rohamat” ning muallifi. Nilometrni kashf qilgan, u uchun emirilmaydigan qorishma tayyorlagan.

Ahmedov – “K-4” ning tuproq erroziyasini kamaytirishini va suv rejimini yahshilashni aniqlagan.

Ahmedov.K.S – suvda erydigan polimer yaratdi.

Alfred Nobel – Daraxtning mayda qipig’iga nitroglitserin shimdirib, dinamitga aylantiriladi.

Andreyv – sanoatda ammikni Pt katalizatori ishtirokida oksidlab nitrat kislota olishni kashf etdi.

Ar Roziy – atomlarni bo’linishini va atom mayda bo’laklar bilan bo’shliqlardan iborat ekanligini va ular doimo harakatda bo’lishini izohlagan 865-925

Ar Roziy – moddiy unsurlarning eng kichik birligi atom va u yana kichik zarralarga bo'linishi mumkin degan.
Arbuzov.E – birinchi marta uchlamchi alkilfosfatga galoid alkil ta'sir ettirib alkilfosfin kislota efirini sintez qildi.
Arbuzov.E r-si. $(C_2H_5O)_3P + CH_3J \rightarrow CH_3 – P(O)(OC_2H_5)_2 + C_2H_5J$
Arrenius Svante – elektrolitmaslarning suvli eritmalari elektr tokini o`tkazmasligini o`zining elektrolitik dis-nish nazariyasida javob berdi. 1887
Ar-Roziy (Rezes) – birinchi bo'lib kimyoviy moddalarni sinflarga ajratgan. Tajribahonalarida qo'llangan asboblarni tasvirlarini bergan.
Asqarov – "Askalsiy" brikmasini joriy qilgan.
Asqarov – "sintetik polimerlar kimyosini" va "polimerlar fizikasi va kimyosi" kitobini yozgan.
Asqarov va Qirg`izov – tarkibida temir saqlovchi – ferrostimulator larni ixtiro qilganlar
Bayer nazariyasi – simloalkanlarda halqada uglerodlar soni 5 ta bo'lguncha mustahkimlik ortadi so'ngra kamayadi.
Beketov – metallar ularning brikmalaridan siqib chiqarishni o'rgangan.
Bekkerel - uran tuzlaridan rentgen nurlariga o'hshash nurlar chiqishini aniqladi 1896.
Bekkerel – radiaktivlikni kashf qilgan 1996 yil.
Belozerski va A.S.Sipirnlar - 1957-yilda rus olimlari i-RNK mavjudligini aytib o'tgan edilar. Lekin u faqat 1960 yilga kelib aniqlandi
Belozerskiy – 1936 yili birinchi bo'lib o'simliklar hujayrasida DNK borliqini aniqlagan.
Berselius - 46 ta elementni atom massalari asosida elementlar jadvalini tuzdi 1814.
Berselius – bir hil sharoitda olingan va hajmlari teng bo'lgan gazlardagi atomlar soni barobar bo'ladi.
Berselius – kimyoviy elementlarni lotincha nomlarini bosh harflari bilan belgilashni fanga kiritgan. 1813.
Berselius - tomonidan XIX asr 30-yillarida kimyo faniga Izometriya tushunchasi kiritilgan. 1823 yilda kremniyni kashf qilgan.
Bertlo 1854 yili Fransus kimyogari yog'ni oldi.
Bertolle – 1-marta CH_4 ni atsetilen oldi. 1956

Beylshteyn – har hil sharoidda toluolga xlor tasir ettirib benzol halqasidagi vodorod atomini va benzol tashqarisidagi radikalning vodorod atomi xlor atomiga o'rin almashganini ko'rsatdi.
Beylshteyn.F – usulida organik moddalar tarkibida galogenlar borligi tezda aniqlanadi.
Blek.J – Mg ni kashf qilgan 1755
Bomberger – usuli $-(CH_3)_3C - NH_2 + [O] = (CH_3)_3C - NO_2 + H_2O$
Broun – diffuziya harakatini yaratdi 1827.
Butlerov – organik brikmalarning tuzilish nazariyasini yaratdi 1861
Butlerov – shakarsimon moddalarni birinchi marta chumoli aldegidan sintez qilgan1861.
Butlerov (1828-1886) o'zining "Organik kimyoni toliq o'rganishga kirish" degan kitobi va 1861 yili organik moddalarning kimyoviy tuzilishi nazariyasini yaratish bilan organik kimyoning rivojlanishiga katta xissa qo'shdi.
Butlerov rus olimi 1861 yilda organik moddalar tuzilishi nazariyasining to'la ma'noda asoschisi hisoblanadi. U bu nazariyaning asosiy qoidalarini bayon qildi. Izomeriya hodisasining mohiyatini birinchi bo'lib tushuntirib berdi. (1864)yilda Izofutileni sintez qiliz qildi va uning polimerlanish reaksiyasini amalgam oshirdi (1867)yilda bu bilan yuqori molekulyar birikmalari sinteziga asos soldi
Butlerovning oddiy chumoli aldegididan shakarsimon moddani olishi natijasida organic moddalar faqat inson va hayvon azosidagina uchramasligi isbotlanib ularni sintez yo'li bilan olishga keng yo'l ochildi
Chargaff – DNK tarkibidagi nukleotidlarni o'zoro munosabatini malum qonuniyatlarga bo'sunishini o'rgangan.
Charix Gudyar - Kauchukni sanoatda keng miqiyosida ishlatilishini **1849 yilda** Amerikalik savdogar tomonidan vulkanizatsiya jarayoni yani rezina kashf qilinganidan so'ng boshlandi
Dalton – 18 asrning ohirida elementlarning o'zoro muayyan miqdordagina brika olishini aytdi, hamda bu miqdorlarni birikuvchi moqdorlar deb atadi.
Dalton – atom molecular ta'limotni rivojlantirdi va atom massa haqidagi tushunchani fanga kiritdi 1803-1804
Dalton – atomistik nazariya asosini bayon etgan.
Dalton – atomni harakatdan tamomila holi, harakatsiz deb tasavvur qildi.

Dalton – bir elementning ma’lum sondagi atomlari boshqa elementning aniq sondagi atomlari bilan brikishidan hosil bo’ladi degan fikrni bildirdi.
Dalton – esa molekulani atomlarning mehanik to’dalanish deb qaradi.
Dalton – karrali nisbatlar qonunini kashf qildi. 1803
Dalton – ta’limotida esa oddiy moddalar faqat ayrim atomlardan tuzilgan deyilib hato qilinadi.
Danilevskiy – 1888 –yilda oqsillar molekulasida peptid bog’ mavjudligi xaqidagi fikimi ilgari surgan.
Debereyner – elementlarni triadalarga yani o’hshash uchtadan iborat tabiiy oilalarni tuzdi. 1817-1829.
Debereyner – elementlarning atom massalariga asoslanib triadalar nazariyasini taklif qildi. 1817-1829.
Demokrit – tabiatda barcha narsalar juda kichik zarralar –atomlardan tashkil topganligini aytgan. Mil.av. 460-370
Devi – Ca (1808) ,Na (1807) , K (1807) ni kashf qilgan.
Dyuma, Buley – tomonidan organik moddalarni radikallar asosida birinchi yuzilish nazariyasi taklif etildi.
Dyuma.J – elementlar jadvalini tuzishga harakat qilgan.
Emanuel r-si. $2CH_3\text{-}(CH_2)_2\text{-}CH_3 + 5O_2 \longrightarrow 4CH_3COOH + 2H_2O$
Engelgart.A – tomonidan bazi bir genlar fermentativ usulda sintez qilindi.
Ersted.K – Al ni kashf qilgan 1825.
Faradey – elektroliz qonunlarini kashf qilgan.
Faradey 1825 yilda ingliz kimyogari va fizigi Molekulasi tarkibida benzol yoki uning gomologlarini saqlaydigan karbosiklar birikmalarga aromatik uglevodorodlar deb ataladi ularning birinchi vakili benzol bo’lib uni ko’ks gazidan ajratib olgan
Faradey 1826 yilda kauchuk molekulasi uglerod va vodorod atomlaridan iborat to’yinmagan uglevodorod ekanligini aniqladi.
Faradey.M - 1825 yilda kaks gazidan benzolni ajratib olgan.
Farobiy – talqiniga ko’ra
Fersman.A.Yu. – fosforni hayot va tafakkur elemanti deb atadi.
Flips – 1831 yilda kontakt usuli bilan sulfat kislota olishni ishlab chiqi.
Fokin.A – yog’larni gidrolizlanishini gidrogenlashni kashf qilgan.
Foking usuli - moylarni gidrogenlab yog’larni olinishi.

Fovoriskiy (1860-1945)akademik asetilen allen va diyen uglevodorodlarining kimyosini o'rgandi.
Frankland - ingliz olimi1849 yilda birinchi bo'lib element-organik brikmalarini kashf etdi.
Franklend – valentlik tushunchasini fanga kiritdi. 1852
Fredrix Jolio Kyuri va Iren Kyurilar – suniy radioaktivlikni kashf etdilar.1934
Fridel – Kraft r-si. $C_6H_6 + CH_3ClB \xrightarrow{AlCl3} C_6H_5\text{-}CH_3 + HCl$
Fridel.Sh – Kraft.D – usuli bilan 1877 yilda ham laboratoriyada ham sanoatda aramatik uglevodorodlar aramatik yadroga $AlCl_3$ ishtirokida alkil xlorid ta'sir ettirib olindi.
Gaber - 721-813 yillarda yashagan. Sulfat, nitrat kislotalarini va zar suvini olish usullarini yozib qoldirgan. Navshadil spirtini aniqlab, hossalarini o'rgangan. Oq bo'yoq tayyorlash uslubini taklif qilgan. Sirka kislotani haydash orqali tozalash usuluni o'rgangan, uning turli % li eritmalarini tayyorlashni ko'rsatib bergan. "Yetmish kitob" ida metallar va mineralar haqida ko'p ma'lumotlar bergan.
Gapon – praton-neytron nazariyasini kashf qildilar 1932.
Gassendi – moddalar atomlardan tuzilgan, atomlarning brikishidan molekula hosil bo'ladi.
Gassendi-atom tushunchasini fanga kiritgan.
Gess – 1840 yilda termokimyo tushunchasini tariflab bergan .
Geylyussak va Glover – lar tomonidan 1859 yilda nitroza usulini takomillashtirdi.
Geyzenberg – praton-neytron nazariyasini kashf qildilar 1932.
Gippokrat – miloddan avval 460-377-yillarda yashagan. U hayvonlar o'simliklar va tabiiy minerallardan dorivor vositalar olish haqida qimmatli ma'lumotlar bergan.
Gize – xininni oldi 1815
Gofman – galoidalkillarga ammiak ta'sir etib quyidagi shema bo'yicha birlamchi, ikkilamchi, uchlamchi, aminlar va to'rtlamchi ommoniy asoslarini olishga muvaffaq bo'ldi. Shuning uchun bu reaksiyani Gofman reaksiyasi deb yuritilgan.
Grem T. – kalloid kimyoga asos solgan.

Grinyar 1861-yilda - fransus kimyogari birinchi bo'lib RX+Mg= R-Mg + X bu reaksiyani ochgan shuning uchun uni Grinyar reaksiya deb atalib hosil qilingan magniy-organik brikmani Grinyar reaktivi deb ataldi.
Grinyar r-si 1861. $RX + Mg \rightarrow R - MgX$
Guldberg.K va Vaage.P – massalar ta'siri qonunini kashf etdilar. 1868
Ivanenko, E.N.Gapon, V.Geyzenberg – praton-neytron naza-sini kashf qildilar 1932.
Jak Sharl – tomonidan vodorod to'ldirilgan shar havoga uchirildi.1783.
Jobir Ibn Hayyom (Gaber) – 721-813 yillarda yashagan. Sulfat, nitrat kislotalarini va zar suvini olish usullarini yozib qoldirgan. Navshadil spirtini aniqlab, hossalarini o'rgangan. Oq bo'yoq tayyorlash uslubini taklif qilgan. Sirka kislotani haydash orqali tozalash usuluni o'rgangan, uning turli % li eritmalarini tayyorlashni ko'rsatib bergan. "Yetmish kitob" ida metallar va mineralar haqida ko'p ma'lumotlar bergan.
Joffrua.E – moddalarni o'hshashlik jadvalini tuzdi 1718.
Kablukov – birinchi marta Mendeleyevning "Gidratlar" nazariyasini va Arreniusni "ionlanish nazariyalari" ni "elektrolitik dissotsiyalanish nazariyasi" shaklida birlashtirishni taklif etdi.
Kanissaro r-si. $H\text{-}COH + KOH + H\text{-}COH \rightarrow CH_3OH + HCOOK\ 5O_2$
Kassel – 1916 yil kassel nazariyasini kashf qilgan.
Kavendish – yonuvchi havo yani H ni kashf etdi 1766.
Kekula – birgina sirka kislotani 20 ta formulasidan foydalangan.
Kekule – nemis kimyogari benzol tuzilishi ikki ko'rinishda ifodalaydi. 1865 yilda
Kekule va A. Kuper.1858 yili - Uglerod atomlari o'zaro birikib uzun C-C bog' hosil qilishi aniqlanadi
Kekule va A.Kolbe 1867 organik birikmalarda uglerodning doimiy 4 valentlik bo'lishi aniqlandi
Kirxgof.S – kraxmalni kislotali va fermentativ gidrolizlanishini kashf qilgan. 1814
Klayzen.L – murakkab efirlarni kondensatlanishini kashf etgan.
Klechkovskiy – elektronlarni pog'onalarda o'zi yaratgan qonun asosida tartib bilan to'lib borishini aniqladi.1900-1972
Kolbe 1845-yili Nemis kimyogarining sirka kislotani sintez qildi.
Konovalov – alkanlarni nitrolanish reaksiyasii kashf qildi.1888

Korana – sintezi bilan DNK tuzilishi aniqlandi.
Krik - ingliz olimini 1961-yilda genetik kod tripletli xarakterga ega ekanligini yani uchta nukleotid to'plamidan tashkil topganini aniqladi.
Kucherov 1881 yilda rus olimi Suvning birikishi osetilenga, $HgSO_4+H_2SO_4$ aralashmasi ishtirokida suvning oson birikishi tufayli sirka aldegid hosil bo'lishini kashf etdi.
Kuper.A – atomlarning ulanish kimyoviy kuchini belgilash uchun valentshtrihni kiritdi.
Kurnokov - daltonitlar va bertolitlarni bo'lishini taklif qilgan.
Kurnokov – ning qotishmalarni hususiyatlarini o'rgangan.
Kyuri Mariya Skladovskaya va **Pyer Kyuri** - radiotermik usul bilan Ra va Po elementlarini aniqladi lar.1898
Kyuri Pyer - radiotermik usul bilan Ra va Po elementlarini aniqladi lar.1898
Lavuaze - 101 kun davomida og'irligi tortilgan kolbada aniq miqdor suvni qaynatib idish og'irligini ma'lum miqdorga kamayganligini, bu miqdor suvni bug'latilgandan keyin qolgan qoldiq miqdoriga tengligini aniqladi.
Lavuaze - kislorodni yangi modda sifatida izohlab bergan.
Lavuaze - vodorodni suv tarkibiga kirishini aniqladi va unga GIDROGENIUM yani suv yaratuvchi degan nom berdi.1787
Lavuaze – 1774-1775 yilda Lomonosov – ning azot ustida qilgan tajriblarini simob elementlari bilan takrorlab yonishdan ortib qolgan gaz havoning 5 dan 4 qismini tashkil etishini aniqladi.
Lavuazye – kislorodni lotincha nomlashni taklif qildi.
Lavuazye – yonish va oksidlanish haqidagi ilmiy nazariyani yaratgan.
Lebedov – sanoatda sintetik kauchukni oldi.
Lebedov 1928 yilda Akademik yuqori tempreturada etil spirtidan katalizator (MgO; ZnO) ishtirokida 1,3-butadiyen sintez qildi.
Lebedov akademik sanoatda sintetik kauchukni oldi.
Lebedov raxbarligida **1932 yilda** dunyoda birinchi bo'lib Rossiyada sintetik kauchuk sanoat masshtabida ishlab chiqarila boshlandi
Leblan – soda olishni "sulfat usuli"ni taklif qilgan.
Lekok De Buabadron – galliyni 1875 aniqladi.
Leshatele – 1884 yilda muvozanatni siljishini kashf etdi.

Libih, Vyollerlar – tomonidan izomeriya hodisasi ochilgan.
Libiz .Yu. – agrokimyo fanigan asos soldi.
Lomonosov – atom molekulyar talimotni to'g'risidagi tushunchalarni rivojlantirdi.
Lomonosov – molekulada yangi sifatlar hosil bo'lishini tushuntira oldi.
Lomonosov – ning fikricha oddiy moddalar ham moddalardan tuzilishi mumkin.
Lomonosov va Rezerford – 1756-1772 yilda metallar berk idishda qizdirilganda havoning bir qismini metal bilan brikmasdan ortib qolishini tajribada isbotladi.
Lomonsov – atom hamisha harakatda deb qarab materiyani harakat bialan birgalikda tasavvur etgan.
Lomonsov, Berselik Selmi, Musin Pushkin, Faradey, Berigov, Veymarn va boshqa olimlar kalloid kimyo sohaida ish olib bordilar.
Mahsumov A.G. – tomonidan XX asrning ikkinchi yarmida kimyoviy tuzilish nazariyasining elektron va fazoviy tuzilishiga bog'liq hozirgi zamon varianti taklif etildi.
Makintosh (1823) Angliyalik muhandis birincji bo'lib kauchukni amaliyotda ishlatishi topdi va va kauchuk eritmasida shimdirilgan gazmoldan suv o'tkazmaydigan buyumlarni ishlab chiqarishni yo'lga qo'ydi.
Malliksi va Poling – elementlarning metallik va metalmaslik hossalarini taqqoslab ko'rish uchun elektronmanfiylikni nisbiy qiymatlaridan foydalanishni taklif qilgan.
Manshutkin – va uning shogirdlari tomonidan R-OH-HOOC-R=R-O-C^0-R+H_2O reaksiyaning kinetikasi batafsil o'ranilgan. (1877-1891)
Markovnikov - neft tarkibidan sikioalkanlarning besh va otti azoli vakillari ilk bor ajratib olib o'rgangan.
Markovnikov (1869) qo'shbog' yonidagi uglerod atomlaridagi vodorod atomlari teng bo'lmaganda galoidovodorodlarning birikishi rus olimi qoidasiga asosan boradi
Mendeleyev – 1871 yil davriy sistemani 2 – variantini bosib chiqardi.
Mendeleyev – davriy qonunni ta'rifladi 1869
Meyer – atom massa ortib borishiga asoslangan jadvalni taklif qildi. 1864.
Misher – 1868 y nuklein kislotalarni birinchi marta topgan.

Misher – 1869-yili leykosit tarkibida nuklein kilata borligini aniqlagan.
Mozli – Atom yadrosi zaryadini elementninig davriy sistemadagi tartib raqamiga tengligini aniqladi.
Mozli.D – atom yadrosi zaryadining elementning davriy sistemadagi tartib raqamiga tengligin topgan.
Nabiyev .M.N. – kam zaharli defolintlar ustida tadqiqotlar olib bordi.
Nilson – skandiyni 1879 aniqladi.
Nyulends – ekvivalentlarga asoslangan oktavalar qonunini taklif qildi 1865.
Odling.U – elementlar jadvalini tuzishga harakat qilgan.
Omelyanskiy – "azot biologik nuqtai nazardan eng asl metallardan ham aslroq" degan.
Orexov - rus olimi akademik Rossiyada alkoloidlar kimyosiga asos slogan. Anabazin- ning tuzilishi aniqlagan. 1929
Poling – 1932 yil elekromanfiylik tushunchasini fanga kiritdi.
Poling 1931 yilda Amerikalik kimyogar olim Bug'lanishlar puxtaligini bir xiligi (1901-1994)olim tomonidan taklif etilgan atom arbitallarining gibritlanishi haqidagi qoida bilan izohlanadi
Popov qoidasi – ketonlar oksidlanganda karonil gruppaning har ikkala tomonidan ham uziladi.
Prist – tarkibni doimiylik qonini 1799 taklif etgan. Omma tomonidan 1809 yilda etirof etilgan.
Pristli – kislorodni kasf etgan 1744. Shu yili Shele ham undan behabar holda keshf etgan.
R Boil – kimyoviy element eng oddiy kimyoviy jihatdan bo'linmaydigan modda bo'lib u murakkab moddalar tarkibiga kirishini tushuntirdi.1627-1691
Rashidova - kovilon deb nomlanuchi plazma o'rnini bosuvchi dori olgan.
Raysev qoidasi – vodorod atomi bazi reaksiyalarda kam gidrogenlangan uglerod atomidan ajraladi.
Rentgen - rengen nurlarini ochigan 1895 yil.
Rezarford – atom yuzilishining planetar modelini taklif etdi 1911
Rezerford – 1919 yilda azot atomlarini alfa zarrachalari bilan bombardimon qilib azotni vodorod va kislorodga aylantirdi.

Rezerford – 1-marta suniy ravishda yadro reaksiyani amalga oshirdi 19119 yil.
Rezerford - radioaktiv nurlarni 3 qismga a) alfa b)betta c)gamma nurlarga ajratdi.1899
S.Sh.Rashidovna akademik yuqori molekulalar birikmalar kimyosi sohasidagi olima
Sabate – alkenlardan 150 -200 C da Ni yoki Pl katali-da H_2 briktirib alkanlar olgan.
Sala.A – 1620 –yilda erituvchilarni suvli, kislotali va yog'li sinfga ajratdi.
Salimov.Z.Z. – tomonidan chiqindisiz tehnologiya asosida Farg'ona kimyoviy tolalar zavodi chiqindilaridan aseton bug'larini yutib qoluvchi sferik va yarim sferik yutkichlarni ishlab chiqdi. Iqtisodiy samarador "Pnevmo" qurilmalar ishlab chiqqan.
Segen - Fransus farmatsevti tozalanmagan morfinni oldi. 1804 yili
Semyonov.N – alkanlarning galogenlanish reaksiyalarini yani radikal mehanizmini aniqlagan.
Sent Kleer Devil – 1885 yilda alyuminiyni kashf qilgan.
Sertyurner - Nemis formasefti toza morfinni oldi. 1906 yilda
Seyrel – usuli C_2H_5-O-C_2H_5 + IJ = C_2H_5J + C_2H_5OH reaksiyadan foydalanib metoksil va etoksil gruppalar miqdorini aniqladi.
Seyze 1827 yilda birinchi bo'lib platina Pt (II) ning π –kompleksini aniqlagan
Shankurtua – kimyoviy elementlarning slindr shaklidagi jadvalini yaratdi. 1862.
Sharipov.X.T. – oltin platina molibden volfram kabi qimmatbaho metallarni chiqindilardan ajratib olish texnologiyasini ishlab chiqdilar va metallurgiya sanoatida amaliyotga joriy qildilar.
Shele – 12 kun davomida distillangan qor suvini kolbada qaynatib kolbani yemirilganligini aniqladi. Eruvchanlikni isbotladi
Sheyelye – 1774 yilda xlorni aniqlagan.
Shtal.G – flogiston nazariyasini yaratdi XVII asr.
Shtaudinger 1924 yil nemis kimyogari Tabiy kauchok izoprenni polimerlash mahsuloti ekanligi va uning to'liq tuzilishini aniqlagan
Shyele – Sut kislota yoki oksipropion kislotani CH_3-CH (OH)-COOH birinchi marta qatiqdan ajratib olgan 1870 yilda

Siglerning - aluminiy-organik brikmalari kimyosida yangilik boldi K.
Sigler (1955) vodorod ishtirokida allenlarga aluminiy ta'sir etilib (3-20 MPa, 60-100^{0}S da) trietil aluminiyni sintez qildi.
Sodiqov (1913-1987)akademik dunyoga tanilgan o'zbek kimyogar olimi va tashkilotchi rahbardir U 1966 yildan 1983 yilgacha O'zbek Fanlar Akademiyasining Prezidenti bo'lib ishlagan
Solvey - soda olishni "ammiakli usuli"ni taklif qilgan.
Sukervanik (1901-1968) akademik "aromatik birikmalarni alkillash va asillash" sohasi bo'yicha izchil va keng qamrovli tadqiqotlar o'tkazgan, shu yo'nalishda tanilgan organik kimyogarlar maktabini yaratgan olim
Tilden – izoprenni polimerlab kauchuksimon modda oldi.
Tile 1899 yilda Konyugirlangan diyen uglevodorodlarning bu xususiyatini malekuladagi uglerod atomlaridan saqlanib qolgan qoldiq valentlik hisobiga shunday birikishi mumkin degan nazariyasida isotlab berdi
Tishchenko r-si. $2CH_3COH \xrightarrow{Al(OC_2H_5)_3} CH_3COOC_2H_5$
Tomson – elektronni ochilishi 1897 yil.
Tood.A – tomonidan nuklein kislotalar tuzilishi aniqlandi.
Uilard.P. – gamma nurlarni elektromagnil nurlar ekanligini aniqladi.1900
Uilkins 1951-yilda - DNK ning rentgen struktura analizini amalga oshirdi
Uotson va F. Krik - E.Chargaff A.Todd L.Poling ishlariga asoslanib DNK ning ikilamchi to'liq strukturasini va uning qo'sh spiral modelini aniqladilar.
Vant-Goff - kimyo sohasida birinchi Nobel mukofoti sovrindori.
Vant-Goff , Le-Bel – bir biridan behabar holda bir vaqtni o'zida organik moddalardagi har bir uglerod alementining to'rt valinti to'rt atom yoki atomlar grupassi bilan brikkan bo'lsa shu moddalar asimmetrik markazga ega bo'lishini isbotlaganlar 1874.
Vegner – olefinlarga katalizator (Cr_2O_3) ishtirokida peroksid ta'sir ettirib ikki atomli spirt olgan
Vilyams 1860 yilda ingliz olimi kauchukni "quruq haydash" natijasida C_5H_8 tarkibli izoprenni oldi
Vinkler – germaniyni aniqladi 1886.
Voronkov akademik kremniy-organik birikmalarning alohida katta sinfi silatronlarni kashf etdi

Voskresenskiy 1842 yili teobrominni ajratib oldi. Alkaloid konining tuzilishi 1886-yilda aniqlangandan so'ng alkaloidlar kimyosi keng rivojlanib ketdi.

Vyolerning -1824 yili nemis kimyogari o'simlik a'zosida uchraydigan oksalat kislotani ditsiandan va 1828 yili inson va hayvon azosida hosil bo'ladigan mochevinani ammoniy sianatdan labaratoriya sharoitida sintez qildi.

Vyoller – 1824 yilda o'simlik a'zosida uchraydigan oksalat kislotani ditsiandan oldi. 1828 yili hayvon azosida hosil bo'ladigan machevinani ammoniy sianatdan oldi.

Vyurs – dixloretanini gidroliz qilish etandiol olgan 1856 y.

Yakobi.B – galvanoplastikani kashf qilgan. 1837.

Yunusov (1909-1995)akademik boshchiligida izohi nolin, eritrin, diterpen xinolin, indol, xinozolidin, xinozolin, steroid, piroliziddin, priding, tropan va oltingugurtli alkoloidlar ustida ilmiy ishlar olib borildi.

Yuryev.K –ning ko'rsatishicha 300 C^0 da Al_2O_3 katalizotori ishtirokida furon tiofen va pirrollar o'zoro bir-biriga o'tib turadi.

Zeliniskiy (1861-1953) akademik to'yingan va to'yinmagan siklik birikmalar kimyoni va ularning sintez qilish usullari bilan organik kimyoni rivojiga o'z hissalarini qo'shdi.

Zelinskiy - neft tarkibidagi sikloqeksandan benzol olishni isbotladi.

Zelinskiy – protiva gazni kashf qilgan.

Zelinskiy.D.N – siklogeksanni degidrogenlab benzol oldi.

Zelinskiy.D.N va Kazanskiy.B.A. – aktivlangan ko'mir bilan atsetilenni trimerlab benzol oldilar.

Zinin – Nitrobirikmalarni qaytarish bilan aromatik aminlarni olish usulini birinchi bo'lib kashf qilgan 1842

Zinin (1812-1880)rus olimi sanoatda benzoldan anilin oldi.

ENG ENG ENG.

Eng aktiv metallar	Cs, Fr
Eng bolg'alanuvchan metal	Oltin
Eng og'ir gaz	Radon Rn
Eng og'ir metal	Os p=22,5 g/ml

Eng plastik metal	Oltin
Eng qattiq metal	Cr xrom
Eng qimmatbaho element	Cf
Eng qiyin eriydigan metal	W volfram 3220 C^0 da eriydi
Eng siyrak element	At er qobig'ida 0,16 g
Eng yahshi tok o'tkazuvchilar	Ag – Cu – Au – Al ortadi
Eng yengil metal	Li
Eng g'ayrioddiy metal	Pt (u 320-540 C^0 oralig'ida hajmi kichrayib zichligi keskin ortadi
Eng katta kengayish koeffitsantiga ega metal	Cs ($97 \cdot 10^{-6} k^{-1}$)
Eng qarshiligi katta metal	W
Eng yengil gaz	Vodorod
Eng ko'p tarqalgan metal	Al

Metallarning aktivlik qatori

Li K Ca Na Mg Al Mn Zn Cr Fe Ni Sn Pb (H) Cu Hg Ag Pt Au

←——————— Ортади ——————— Атомларнинг электрон бериш қобилияти

Metallarni olinish usullari.

Polimetallurgik usul	Po'lat va cho'yan
Gidrometallurgik usul	Au, Ag, Zn, U va b.
Elektrotermik usul	Ishqoriy va ishqoriy er met. Al

Pestitsidlar.

Insektitsid	Zararli hashoratlarga qarshi ishlatiladi
Akaritsid	Kapalaklarga qarshi ishlatiladi
Fungitsid	Kasallik tarqatuvchi zamburug'larga qarshi ishlatiladi
Gerbitsid	Begona o'tlarga qarshi ishlatiladi
Bakteritsid	Zararli bakteriyalarga qarshi ishlatiladi
Zootsid	Zararli kemiruvchilarga qarshi ishlatiladi
Defoliant	O'simlik bargini to'kadigan modda sifatida

$8Al+30HNO_3 \rightarrow 8Al(NO_3)_3+3N_2O+15H_2O$

$Al_2O_3+2KOH \rightarrow 2KAlO_2+H_2O$

$2AlCl_3+3Na_2CO_3+3H_2O \rightarrow 2Al(OH)_3\downarrow+2CO_2+6NaCl$

$AlCl_3+3K_2CO_3+3H_2O \rightarrow 2Al(OH)_3+3CO_2+6KCl$

$Ag+KNO_3+H_2SO_4 \rightarrow Ag_2SO_4+NO+H_2O+K_2SO_4$

$AgO+H_2O+Cl_2 \rightarrow AgCl_2+HOCl$

$AgNO_3+2KOH \rightarrow Ag_2O+2KNO_3+H_2O$

$AgCl+2NH_4OH \rightarrow [Ag(NH_3)_2]Cl+2H_2O$

$AgS+CaO+O_2 \rightarrow Ag+CaSO_4$

$Au+3HCl+HNO_3 \rightarrow AuCl_3+NO+2H_2O$

$Au+4HCl+HNO_3 \rightarrow H[AuCl_4]+NO+2H_2O$

$4Au+8NaCN+O_2+2H_2O \rightarrow 4Na[Au(CN)_2]+4H_2O$

$3AuCl_3 \rightarrow AuCl_3+2Au$

$AuCl+KCl \rightarrow K[AuCl_2]$

$AuCl_3 \rightarrow AuCl+Cl_2$

$Be+2NaOH+2H_2O \rightarrow Na_2[Be(OH)_4]+H_2$

$Be+H_2SO_4 \rightarrow BeSO_4+H_2$

$Ca(OCl)Cl_2 \rightarrow CaCl_2+O_2+92kj$

$Ca_3(PO_4)_2+2H_2SO_4 \rightarrow 3Ca(H_2PO_4)_2+2CaSO_4$

$Ca_3(PO_4)_2+3H_2SO_4 \rightarrow 3CaSO_4+2H_3PO_4$

$Ca_3(PO_4)_2+4H_3PO_4 \rightarrow 3Ca(H_2PO_4)_2$

$CaF_2+H_2SO_4 \rightarrow CaSO_4+2HF$

$CaO+3C \rightarrow CO+CaC_2$

$CO+2H_2 \rightarrow CH_3OH$

$CO+NaOH \rightarrow HCOONa$

$CO_2+2Mg \rightarrow 2MgO+C$

$2ClO_2+2KOH \rightarrow KClO_3+KClO_2+H_2O$

$Cl_2+2KOH \rightarrow KClO+KCl+H_2O$

$Cl_2+H_2O \rightarrow HCL+HOCl$

$Cl_2O+H_2O \rightarrow 2HOCl$

$4CrO_3 \rightarrow 2Cr_2O_3+3O_2$

$2CrCl_2+2H_2O=2Cr(OH)Cl_2+H_2$

$2Cu(OH)_2+K_2S_2O_8=Cu_2O_3+2KHSO_4+H_2O$

$2Cu+H_2SO_4+O_2 \rightarrow 2CuSO_4+H_2O$

$2CuCl_2+4KJ \rightarrow 2CuJ+J_2+4KCl$

$Cr(OH)_3+3KOH \rightarrow K_3[Cr(OH)_6]$

$Cr_2(SO_4)_3+10KOH+3H_2O_2 \rightarrow 2K_2Cr_2O_4+3K_2SO_4+8H_2O$

$CrCl_3+3KOH \rightarrow Cr(OH)_3+3KCl$

$Cu(OH)_2+2NaOH \rightarrow Na_2[Cu(OH)_4]$ (natriy kuprit)

$Cu(OH)_2+4NH_3 \rightarrow [Cu(NH_3)_4](OH)_2$

$Cu+4HCl+O_2 \rightarrow Cl_2+2H_2O$

$Cu_2O+H_2SO_4 \rightarrow Cu_2SO_4+H_2O$

$Cu_2SO_4 \rightarrow CuSO_4+Cu$

$CuSO_4+4NH_4OH \rightarrow [Cu(NH_3)_4]+SO_2+4H_2O$

$2Fe+1.5O_2+nH_2O \rightarrow Fe_2O_3 \cdot nH_2O$

$2Fe+3Cl_2 \rightarrow 2FeCl_3$

$2Fe+6H_2SO_4 \rightarrow Fe_2(SO_4)_3+3SO_2+6H_2O$

$2FeCl_2+2HCl+H_2O_2 \rightarrow 2FeCl_3+2H_2O$

$Fe(OH)_2+KOH \rightarrow KFeO_2+2H_2O$

$Fe+4HNO_3 \rightarrow Fe(NO_3)_3+NO+2H_2O$

$3FeSO_4+2K_3[Fe(CN)_6]=Fe_3[Fe(CN)_6]_2+3K_2SO_4$

$Fe_2(SO_4)_3+K_4[Fe(CN)_6] \rightarrow Fe_4[Fe(CN)_6]\cdot \cdot xK_4[Fe(CN)_6] \cdot nH_2O$ (bunda x-0.3-0.8 va n=12-24)

$Fe_2O_3+2NaOH \rightarrow 2NaFeO_2+H_2O$

$Fe_2O_3+CO \rightarrow 2FeO+CO_2$

$FeCl_3+3KSCN \rightarrow Fe(SCN)_3+3KCl$

$FeCO_3+CO_2+H_2O \rightarrow Fe(HCO_3)_2$

$FeS_2+8HNO_3 \rightarrow Fe(NO_3)_3+2H_2SO_4+5NO+2H_2O$

$FeSO_4+2NaOH \rightarrow Fe(OH)_2+Na_2SO_4$

$4Fe(OH)_2+O_2+H_2O \rightarrow 4Fe(OH)_3$

$2H_2SO_{4(kons)}+Cu \rightarrow CuSO_4+SO_2+2H_2O$

$2H_2SO_4+P_4O_{10} \rightarrow 4HPO_3+2N_2O_5$

$2H_3PO_2 \rightarrow PH_3+H_3PO_4$

$2HClO_4+P_2O_5 \rightarrow 2HPO_3+Cl_2O_7$

$2HNO_2+O_2 \rightarrow 2HNO_3$

$4H_3PO_2 \rightarrow PH_3 + 3H_3PO_4$

$4HNO_3 + P_4O_{10} \rightarrow 4HPO_3 + 2SO_3$

$11H_2SO_{4(kons)} + 8Zn \rightarrow 8ZnSO_4 + H_2S + S + SO_2 + 10H_2O$

$2H_2SO_{4(kons)} + C \rightarrow CO_2 + 2SO_2 + 2H_2O$

$H_2SO_{4(suyl)} + Zn \rightarrow ZnSO_4 + H_2$

$HCOOH \rightarrow H_2O + CO$

$Hg(NO_3)_2 + 2KJ \rightarrow HgJ_2\downarrow 2KNO_3$

$HNO_3 + 6H \rightarrow NH_2OH + H_2O$

$2K[AuCl_2] + 2KOH \rightarrow 4KCl + Cu_2O + H_2O$

$2K[AuCl_4] + N_2H_4 + 6KOH \rightarrow N_2 + 8KCl + Au_2O + 5H_2O$

$2K_2Cr_2O_7 + 3C + 8H_2SO_4 \rightarrow 2Cr_2(SO_4)_3 + 3CO_2 + 2K_2SO_4 + 8H_2O$

$2K_2MnO_4 + Cl_2 \rightarrow 2KMnO_4 + 2KCl$

$2K_3[Cr(OH)_6] + 3Br_2 + 4KOH \rightarrow 2K_2Cr_2O_4 + 6KBr + 8H_2O$

$2KClO_4 + H_2SO_4 \rightarrow K_2SO_4 + 2HClO_4$

$2KJ + 2HNO_2 \rightarrow J_2 + 2NO + 2H_2O$

$2KMnO_4 + 16HCl \rightarrow 2MnCl_2 + 5Cl_2 + 2Kcl + 8H_2O$

$2KMnO_4 + H_2SO_4 \rightarrow Mn_2SO_4 + K_2SO_4 + H_2O$

$K_2Cr_2O_7 + 14HCl \rightarrow 2CrCl_2 + 3Cl_2 + 2KCl + 7H_2O$

$K_2Cr_2O_7 + 6HCl \rightarrow CrCl_3 + Cl_2 + KCl + H_2O$

$K_2Cr_2O_7 + H_2S + H_2SO_4 \rightarrow Cr_2(SO_4)_3 + S + K_2SO_4 + H_2O$

$K_2Cr_2O_7 + S \rightarrow Cr_2O_3 + K_2SO_4$

$K_2Cr_2O_7 + SO_2 + H_2SO_4 \rightarrow Cr_2(SO_4)_3 + K_2SO_4 + H_2O$

$K_2O_4 + H_2SO_4 \rightarrow K_2SO_4 + H_2O_2 + O_2$

$KOH + Be(OH)_2 + H_2O \rightarrow K[Be(OH)_3(H_2O)]$

$KOH + Be(OH)_2 \rightarrow K[Be(OH)_4]$

$KOH + HCl \rightarrow KCl + H_2O$

$6KOH + 3Cl_2 \rightarrow KClO_3 + 5KCl + 3H_2O$

$Mg(HCO_3)_2 \rightarrow MgCO_3 + CO_2 + H_2O$

$Mg(OH)_2 + H_2O_2 \rightarrow MgO_2 + 2H_2O$

$Mg_2Si + 4HCl \rightarrow 2MgCl_2 + SiH_4$

$MnO_2 + K_2CO_3 + KNO_3 \rightarrow K_2MnO4 + KNO_2 + O_2$

$2Na[Au(CN)_2] + Zn = Na_2[Zn(CN)_4] + 2Au$

$2NaN_3 + H_2SO_4 \rightarrow Na_2SO_4 + 2HN_3$

$2NaNO_2 + 4Na + 2H_2O \rightarrow Na_2N_2O_2 + 4NaOH$

$2NaOH + H_2SnO_3 + H_2O \rightarrow Na_2[Sn(OH)_6]$

$Na_2S + 2S \leftrightarrow Na_2S_3$

$Na_2S + S \leftrightarrow Na_2S_2$

$Na_2S_4 + 2HCl \rightarrow 2NaCl + H_2S + 3S$

$Na_3PO_4 + H_2O \rightarrow NaOH + Na_2HPO_4$

$NaCl + AgNO_3 \rightarrow AgCl + NaNO_3$

$NaNH_2 + N_2O \rightarrow NaN_3 + H_2O$

$2NH_3 + 3O_2 \rightarrow 2HNO_2 + 2H_2O$

$2NO + H_2 \rightarrow N_2O + H_2O$

$2NO_2 + H_2O \rightarrow HNO_3 + HNO_2$

$4N2O_5 \rightarrow 4NO_2 + O_2$

$4NH_4SH + O_2 \rightarrow 2H_2O + 2NH_4\text{-}S\text{-}S\text{-}NH_4$

$4NO_2 + O_2 + 2H_2O \rightarrow 4HNO_3$

$5NH_2OH \rightarrow NH_3 + N_2 + N_2O + H_2O$

$(NH_4)_2Cr_2O_7 \rightarrow N_2 + Cr_2O_3 + 4H_2O$

$(NH_4)_2SO_4 + 2NaOH \rightarrow 2NH_3\uparrow + Na_2SO_4 + 2H_2O$

$N_2O_2 + H_2SO_4 \rightarrow Na_2SO_4 + H_2O_2$

$N_2O_3 + 2NaOH \rightarrow NaNO_2 + H_2O$

$N_2O_3 + H_2O \rightarrow 2HNO_2$

$N_2O_3 \rightarrow NO + NO_2$

$NCl_3 + 3H_2O \rightarrow NH_3 + 3HOCl$

$NH_2OH \rightarrow NH_3 + N_2 + N_2O + H$

$NH_3 + NaOCl \rightarrow H_2N\text{-}NH_2 + NaCl + H_2O$

$2NH_3 + 6MnO_2 \rightarrow N_2 + 3Mn_2O_3 + 3H_2O$

$NH_4NO_3 \rightarrow N_2O + 2H_2O$

$2Pb(NO_3)_2 + O_2 + 2H_2O = 2PbO_2 + 4HNO_3$

$2Pb(NO_3)_2 \rightarrow 2PbO_2 + 4NO_2 + O_2$

$2Pb+O_2+2H_2O \rightarrow 2Pb(OH)_2$

$3P_2S_2+28HNO_3+4H_2O \rightarrow 6H_3PO_4+9H_2SO_4+28NO$

$3PbO_2 \rightarrow Pb_3O_4+O_2$

$P_2+3KOH+3H_2O \rightarrow PH_3+3KH_2PO_2$

$P_4H_{10}+2H_2O \rightarrow 4HPO_3$

$P_4S_7+62HNO_3 \rightarrow 4H_3PO_4+7H_2SO_4+62NO_2+18H_2O$

$Pb(CH_3COO)_2+2NaOH \rightarrow Pb(OH)_2+2CH_3COOH$

$Pb+4KOH+2H_2O \rightarrow K_4[Pb(OH)_6]+H_2$

$Pb+H_2SO_4 \rightarrow Pb(HSO_4)_2+H_2$

$Pb+PbO_2+2H_2SO_4 \rightarrow 2PbSO_4+2H_2O$

$Pb_3O_4+4HNO_3 \rightarrow PbO_2+2Pb(NO_3)_2+2H_2O$

$PbCl_4+2KCl \rightarrow K_2[PbCl_6]$

$PbCl_4 \rightarrow PbCl_2+Cl_2$

$PbO+C \rightarrow Pb+CO$

$PbO_2+2KOH+2H_2O \rightarrow K_2[Pb(OH)_2]$

$PbO_2+4HCl(kons) \rightarrow PbCl_2+Cl_2+2H_2O$

$PbO_2+4HCl \rightarrow PbCl_4+2H_2O$

$PbO_2+H_2SO_4 \rightarrow PbSO_4+O_2+H_2O$

$PbS+O_2 \rightarrow PbO+SO_2$

$PCl_5+4H_2O \rightarrow H_3PO_4+5HCl$

$2TiCl_3 \rightarrow TiCl_4+TiCl_2$

$3S+6NaOH \rightarrow 2Na_2S+Na_2SO_3+3H_2O$

$3S+6NaOH \rightarrow 2Na_2S+Na_2SO_3+3H_2O$

$3SiF_4+4H_2O \rightarrow 2H_2[SiF_6]+ H_4SiO_4$

$S_2Cl_2+2H_2O \rightarrow SO_2+H_2S+2HCl$

$Si+2NaOH+H_2O \rightarrow Na_2SiO_3+2H_2$

$Si_2H_6+4H_2O \rightarrow 2SiO_2+7H_2$

$SiCl_4+3H_2O \rightarrow H_2SiO_3+4HCl$

$SiCl_4+LiAlH_4 \rightarrow SiH_4+AlCl_3+LiCl$

$SiH_4+2H_2O \rightarrow SiO_2+4H_2$

$SiO_2+4HF \rightarrow SiF_4+2H_2O$

$Sn+2HCl \rightarrow SnCl_2+H_2$

$Sn+4H_2SO_4 \rightarrow Sn(SO_4)_2+2SO_2+4H_2O$

$Sn+4HNO_3 \rightarrow H_2SnO_3$ (β qalaykislota)$+4NO_2+H_2O$

$SnCl_2+2KOH \rightarrow 2KCl+Sn(OH)_2$

$SnCl_4+2H_2O \rightarrow SnO_2+4HCl$

$SnCl_4+2HCl \rightarrow H_2[SnCl_6]$

$SnCl_4+4NH_4OH \rightarrow H_2SnO_3$ (α qalaykislota)$+4NH_4Cl+H_2O$

$SnS_2+(NH_4)_2S+S \rightarrow (NH_4)_2[SnS_3]$

$2TiO+2C+2Cl_2 \rightarrow TiCl_4+2CO_2$

$2TiO+6HCl \rightarrow 2TiCl_3+2H_2O+H_2$

$3TiCl_4+Ti \rightarrow 4TiCl_3$

$Zn(OH)_2 \rightarrow K_2ZnO_2+2H_2O$

$Zn_3N_2+H_2O \rightarrow Zn(OH)_2+NH_3$

$ZnCl_2+2KOH \rightarrow Zn(OH)_2+2KCl$

$ZnSO_4+2H_2O \rightarrow Zn+H_2+O_2+H_2SO_4$

$2ZnSO_4+4KOH \rightarrow 2Zn+2H_2O+O_2+2K_2SO_4$

Tashev reaksiyalar

$2NH_3 + 3O_2 \rightarrow NO_2 + NO + 3H_2O$	$2Al + 3H_2SO_4 \rightarrow Al_2(SO_4)_3 + 3H_2$ (jilvirlanganda)
$2Ag + 2H_2SO_4$ (kons) $\rightarrow Ag_2SO_4 + SO_2 + 2H_2O$	$2Al + 6H_2O \rightarrow 2Al(OH)_3 + 3H_2$ (jilvirlanganda)
$2Ag + 2O_3 \rightarrow Ag_2O_2 + 2O_2 \uparrow$	$2Al + 6HCl \rightarrow 2AlCl_3 + 3H_2$ (jilvirlanganda)
$2Al + 2NaOH + 2H_2O \rightarrow 2NaAlO_2 + 3H_2$ (jilvirlanganda)	$2Al + 6NaOH \rightarrow 2Na_3AlO_3 + 3H_2\uparrow$
$2Al + 2NH_3 = 2AlN + 3H_2 \uparrow$	

$2Al + N_2 \rightarrow 2AlN$
$2Al + N_2 = 2AlN$
$2Au(OH)_3 \rightarrow Au_2O_3 + 3H_2O$ (100*)
$2Ca + N_2 \rightarrow Ca_2N_2 + 102.3$ kkal
$2CaOCl_2 + H_2O + CO_2 \rightarrow CaCl + CaCO_3 + 2HClO$
$2Cl_2 + HgO \rightarrow HgCl_2 + Cl_2O$
$2Cl_2O \rightarrow 2Cl_2 + O_2 \uparrow$
$2ClO_2 + H_2O \rightarrow HClO_2 + HClO_3$
$2Co + O_2 \rightarrow 2CoO$ yoki $4Co + 3O_2 \rightarrow 2Co_2O_3$
$2Cr_2O_3 + 3Si \rightarrow 3SiO_2 + 4Cr$
$2CrCl_3 + 3H_2O + 10NaOH \rightarrow 6NaCl + 2Na_2CrO_4 + 8H_2O$
$2CrO_3 + H_2O \rightarrow H_2Cr_2O_7$ dixromat kislota
$2Cu + O_2 + 4HCl \rightarrow 2CuCl_2 + 2H_2O$
$2Cu + O_2 + H_2O + CO_2 \rightarrow (CuOH)_2CO_3$
$2Cu + O_2 \rightarrow 2CuO$
$2Cu_20 + Cu_2S \rightarrow 6Cu + SO_2$
$2Cu_2S + 3O_2 \rightarrow 2SO_2 + 2Cu_20$
$2FeCl_3 + H_2S = 2FeCl_2 + 2HCl + S$
$2FeO + SiO_2 \rightarrow Fe_2SiO_4$ (SHLAK)
$2H_2MnO_4 \rightarrow 2HMnO_4 + MnO_2 + 2H_2O$
$2H_2S + 3O_2 \rightarrow 2H_2O + 2SO_2$
$2H_2S + O_2 \rightarrow 2H_2O + 2S$
$2H_3AsO_3 + 2H_2S \rightarrow As_2S_3 + 6H_2O$
$2H_3PO_4 \rightarrow H_4P_2O_7 + H_2O$
$2HAuCl_4 + 6H_2O \rightarrow 2[Au] + 16HCl + 3O_2$
$2HBr + H_2SO_4 \rightarrow Br_2 + SO_2 + 2H_2O$

$2HClO \rightarrow 2HCl + O_2 \uparrow$
$2Hg + 2H_2SO_4 \rightarrow Hg_2SO_4 + SO_2 + 2H_2O$
$2HgO \rightarrow 2Hg + O_2$
$2HgO \rightarrow Hg + O_2$
$2HNO_3 + P_2O_5 \rightarrow 2HPO_3 + N_2O_5$
$2K[Au(Cu)_2] + Zn \rightarrow K_2[Zn(CN)_4] + 2Au$
$2KClO_3 + I_2 \rightarrow 2KIO_3 + Cl_2 \uparrow$
$2KCrO_3 + 3Br_2 + 8KOH \rightarrow 6KBr + 2K_2CrO_4 + 4H_2O$
$2KI + 3H_2SO_4 \rightarrow 2KHSO_4 + I_2 + SO_2 + 2H_2O$
$2KI + H_2O + O_3 \rightarrow I_2 + 2KOH + O_2\uparrow$
$2Mg + CO_2 \rightarrow 2MgO + C$
$2MgOHCl \rightarrow Mg_2OCl_2 + H_2O$
$2MgOHCl \rightarrow Mg_2OCl_2 + H_2O$
$2N_2O \rightarrow 2N_2 + O_2$
$2Na[Ag(CN)_2] + Zn \rightarrow 2Ag + Na_2[Zn(CN)_2]$
$2Na[Au(CN)_2] + Zn \rightarrow Na_2[Zn(CN)_4] + 2Au$
$2Na_2CrO_4 + H_2SO_4 \rightarrow Na_2SO_4 + Na_2Cr_2O_7 + H_2O$
$2Na_2O_2 + 2CO_2 \rightarrow 2Na_2CO_3 + O_2$
$2Na_2O_2 + 2H_2O_{(}issiq) \rightarrow 4NaOH + O_2$
$2Na_2SO_4 + C + 2SiO_2 \rightarrow 2Na_2SiO_3 + CO_2\uparrow + 2SO_2\uparrow$
$2NaCrO_2 + 3Br_2 + 8NaOH \rightarrow 2Na_2CrO_4 + 6NaBr + 4H_2O$
$2NaI + MnO_2 + H_2SO_4 \rightarrow 2NaHSO_4 + MnSO_4 + I_2 + 2H_2O$
$2NaOH + Al_2O_3 = 2NaAlO_2 + H_2O$

$2NaOH + Cl_2 \rightarrow NaCl + NaClO + H_2O$(sovuqda)
$2NaOH + Zn(OH)_2 = Na_2ZnO_2 + 2H_2O$
$2NaOH + Zn(OH)_2 \rightarrow Na_2ZnO_2 + 2H_2O$
$2NaOH + ZnO = 2Na_2ZnO_2 + H_2O$
$2NH_3 + CO_2 \rightarrow CO(NH_2) + H_2O$
$2NiS + 3O_2 \rightarrow 2NiO + 2SO_2$
$2NO + Cl_2 \rightarrow 2NOCl$
$2NO_2 \rightarrow N_2O_4 + 13$ kkal
$2P + 3S \rightarrow P_2S_3$
$2Pb(OH)_2 + 2O_3 \rightarrow 2PbO_2 + 2H_2O + 2O_2\uparrow$
$2Ti + 6HCl$ (suyul) $\rightarrow 2TiCl_3 + 3H_2$
$3Ag + 4HNO_3$ (suyul) $\rightarrow 3AgNO_3 + NO + 2H_2O$
$3As_2S_3 + 28HNO_3 + 4H_2O \rightarrow 6H_3AsO_4 + 9\ H_2SO_4$
$3AuCl \rightarrow AuCl_3 + 2Au$
$3BaO_2 + 3H_2SO_4 \rightarrow 3BaSO_4 + 3H_2O + O_3\uparrow$
$3Co + 8HNO_3$(kons) $\rightarrow 3Co(NO_3)_2 + 2NO + 4H_2O$
$3CuO + 2NH_3 = N_2 + 3Cu + 3H_2O$
$3Fe + 4H_2O$ 800 C^0 $Fe_3O_4 + 4H_2\uparrow$
$3Fe + C \rightarrow Fe_3C$ (sementit)
$3Fe + 2CO \rightarrow Fe_3C + CO_2$
$3Hg + 8HNO_3 \rightarrow 3Hg(NO_3)_2 + 2NO + 4H_2O$
$3Mg + 2NH_3 = 2Mg_3N_2 + H_2\uparrow$
$3Mg + N_2 = Mg_3N_2$
$3P + 5HNO_3 + 2H_2O \rightarrow 3H_3PO_4 + 5NO\uparrow$

$3Pt + 4HNO_3 + 12HCl \rightarrow 3PtCl_4 + 4NO + 8H_2O$
$3S + 6NaOH \rightarrow 2Na_2S + Na_2SO_3 + 3H_2O$
$3S + 6NaOH \rightarrow 2Na_2S + NaSO_3 + 3H_2O$
$3Si + 2N_2 \rightarrow Si_3N_4$
$3Ti + 4HNO_3 + 18HF \rightarrow 3H_2[TiF_6] + 4NO + 8H_2O$
$3XeF_4 + 8H_2O \rightarrow Xe + H_2XeO_4 + 12HF$
$4Au + 8KCN + O_2 + 2H_2O \rightarrow 4K[Au(CN)_2] + 4KOH$
$4Au + 8NaCN + O_2 + 2H_2O \rightarrow 4Na[Au(CN)_2] + 4NaOH$
$4BaXeO_4 \rightarrow Ba_4(XeO_6)_2 + 2Xe + 2O_2$
$4Co(OH)_2 + O_2 + 2H_2O \rightarrow 4Co(OH)_3$
$4Cr(OH)_2 + 2H_2O + O_2 \rightarrow 4Cr(OH)_3$
$4CrCl + O_2 + 4HCl \rightarrow 4\ CrCl_3 + 2H_2O$
$4CrO_3 \rightarrow 2Cr_2O_3 + 3O_2$
$4CuO \rightarrow 2Cu_2O + O_2$
$4Fe(OH)_2 + O_2 + 2H_2O \rightarrow 4Fe(OH)_3$
$4FeCl_3 + 3K_4[Fe(CN)_6] \rightarrow Fe_4[Fe(CN)_6]_3 + 12KCl$
$4FeO + Cr_2O_3 + 8Na_2CO_3 + 7O_2 \rightarrow 8Na_2Cr_2O_4 + 2Fe_2O_3 + 8CO_2$
$4FeS_2 + 11O_2 = 2Fe_2O_3 + 8SO_2$
$4FeS_2 + 11O_2 \rightarrow 2Fe_2O_3 + 8SO_2$
$4HgS + 4CaO \rightarrow 4Hg + 3CaS + CaSO_4$

$4HNO_3 \rightarrow 4NO + O_2 + 2H_2O$
$4NH_3 + 5O_2$ (Pt,Cr_2O_3) = $4NO + 6H_2O$
$4XeF_6 + 18H_2O \rightarrow Xe + 3H_2XeO_4 + 12HF$
$6CO_2 + 6H_2O \rightarrow C_6H_{12}O_6 + 6O_2\uparrow$
$6Hg + 8HNO_3$ (suyul) $\rightarrow 3Hg_2(NO_3)_2 + 2NO + 4H_2O$
$6KOH + 3Cl_2 \rightarrow KClO_3 + 5KCl + 3H_2O$ qaynoqda
$6Li + N_2 = 2Li_3N$
$6NaOH + 3Cl_2 \rightarrow 5NaCl + NaClO_3 + 3H_2O$(70*C gacha qizdirilganda)
A.Verner (1983-y) koordinatsion nazariyani yaratdi.
$Ag_2O + H_2 \rightarrow 2[Ag] + H_2O$
$Ag_2S + 4KCN \rightarrow 2K[Ag(CN)_2] + K_2S$
$AgCl + 2KCN \rightarrow K[Ag(CN)_2] + KCl$
$AgCl + 2NH_3 \rightarrow [Ag(NH_3)_2]Cl$
$AgNO_3 + 2NaOH \rightarrow 2NaNO_3 + Ag_2O + H_2O$ (AgOH o`r niga $Ag_2O$ cho`kmaga tushadi)
$Al_2O_3 + 2NaOH + H_2O \rightarrow 2NaH_2AlO_3$
$Au + HNO_3 + 3HCl \rightarrow AuCl_3 + NO + 2H_2O$
$AuCl_3 \rightarrow AuCl + Cl_2$ (185*)
$Ba(OH)_2 + XeO_3 \rightarrow BaXeO_4 + H_2O$
$Be + 2KOH \rightarrow K_2BeO_2 + H_2$
$C + H_2O \rightarrow CO + H_2\uparrow$
$C + H_2O \rightarrow H_2 + CO$
$Ca(HCO_3)_2 + Na_2Al_2S_2O_8 \rightarrow CaAl_2S_2O_8$* $nH_2O + 2NaHCO_3$

$Ca(HCO_3)_2 + Na_2CO_3 \rightarrow CaCO_3 + 2NaHCO_3$
$Ca(HCO_3)_2 \rightarrow CaCO_3 + H_2O + CO_2$
$Ca_3(PO_4) + 5C + 3\ SiO_2 \rightarrow 3CaSiO_3 + 2P + 5CO$
$Ca_3(PO_4)_2 + 5C \rightarrow 2P + 3CaO + 5CO$
$Ca_3P_2 + 6H_2O \rightarrow 3Ca(OH)_2 + 2PH_3\uparrow$
$CaOCl_2 + CO_2 \rightarrow CaCO_3 + Cl_2$
$CdO + H_2S = Cd_2S + H_2O$
$Cl_2 + 2KOH \rightarrow KCl + KClO + H_2O$
$Cl_2O_6 + H_2O \rightarrow HClO_4 + HClO_3$
$CO + 2H_2$ (360^0,ZnO)$\rightarrow CH_3OH$
$CO + 2H_2 \rightarrow CH_3OH$
$CO + 3H_2$ (300^0,Ni)$\rightarrow CH_4 + H_2O$
$CO + 3H_2 \rightarrow CH_4 + H_2O$
$CO + Cl_2 \rightarrow COCl_2$ (fosgen)
$CO + NaOH$ (200^0,15 Atm)$\rightarrow$ HCOONa
$Co(OH)_3 + 4H_2SO_4 \rightarrow 4CoSO_4 + O_2 + 10H_2O$
$Co_2O_3 + 6HCl \rightarrow 2CoCl_2 + Cl_2 + 3H_2O$
$Co_3O_4 + 2C \rightarrow 3Co + 2CO_2$
$Co_3O_4 + 4H_2 \rightarrow 3Co + 4H_2O$
$Cr_2O_3 + 2Al \rightarrow Al_2O_3 + 2Cr$
$CrCl_2 + 2H_2O \rightarrow Cr(OH)_2 + 2HCl$
$CrO_3 + H_2O \rightarrow H_2CrO_4$ xromat kislota
$CuO + H_2S = Cu_2S + H_2O$
$Fe + 2HCl = FeCl_2 + H_2S$
$Fe + CuSO_4 \rightarrow Cu + FeSO_4$
$Fe + Hg(NO_3)_2 \rightarrow Hg + Fe(NO_3)_2$
$Fe + S \rightarrow FeS$

$Fe(CrO_2)_3 + 4CO \rightarrow Fe + 2Cr + 4CO_2$
$Fe(OH)_3 + 3OH^{--} \rightarrow [Fe(OH)_6]^{3-}$
$FeCl_2 + 2NaOH \rightarrow Fe(OH)_2 + 2NaCl$
$FeCl_3 + 3NaCNS \rightleftharpoons Fe(CNS)_3 + 3NaCl$
$FeCl_3 + 3NaOH \rightarrow Fe(OH)_3 + 3NaCl$
$FeCl_3 + 3NH_4CNS \rightleftharpoons Fe(CNS)_3 + 3NH_4Cl$
$FeCl_3 + NaCNS \rightarrow Fe(CNS)_3 + 3NaCl$
$FeS_2 \rightarrow FeS + S$
$H_2S + Cl_2 = 2HCl + S$
$H_2S + H_2SO_3 = 3S + 3H_2O$
$H_2S + HNO_3 \rightarrow H_2SO_4 + NO + H_2O$
$H_2S + I_2 = 2HI + S$
$H_2SO_3 + 2H_2S = 3S + 3H_2O$
$H_2SO_3 + Cl_2 + H_2O = H_2SO_4 + 2HCl$
$H_2SO_4 + C = CO_2 + 2SO_2 + 2H_2O$
$HCl + KMnO_4 \rightarrow MnCl_2 + Cl_2 + KCl + H_2O$
$Hg + 2\ H_2SO_4 \rightarrow HgSO_4 + SO_2 + 2H_2O$
$Hg + 2H_2SO_4 \rightarrow HgSO_4 + SO_2 + 2H_2O$
$Hg + 4HNO_3 \rightarrow Hg(NO_3)_2 + 2NO_2 + 2H_2O$
$Hg_2(NO_3)_2 + 2NaCl \rightarrow Hg_2Cl_2 + 2NaNO_3$
$Hg_2Cl_2 + 2NaOH \rightarrow Hg_2O + 2NaCl + H_2O$

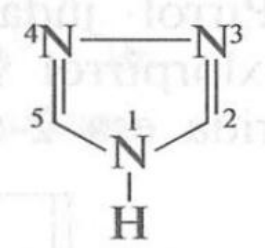
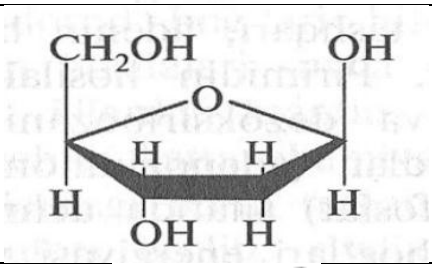
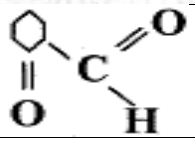
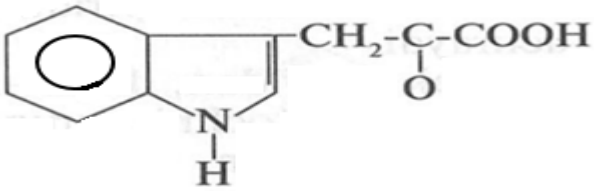
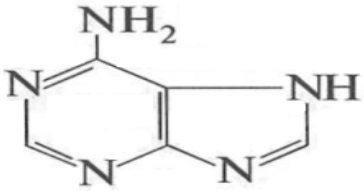
$Hg_2SO_4 + 2NaCl \rightarrow Na_2SO_4 + HgCl_2$
$HgS + Fe \rightarrow Hg + FeS$
$HgS + O_2 \rightarrow Hg + SO_2$
$HNO_3 + 3HCl \rightleftharpoons$ NOCl(nitrozil xlorid) + $Cl_2 + 2H_2O$
$HPO_3 + H_2O \rightarrow H_3PO_4$
$I_2 + H_2O \rightarrow HI + HIO$
$K_2Cr_2O_7 + H_2SO_4 \rightarrow K_2SO_4 + 2CrO_3 + H_2O$
$K_2O \cdot Al_2O_3 \cdot 6\ H_2O$(dala shpati) + $CO_2 \rightarrow Al_2O_3 \cdot 2SiO_2 \cdot 2H_2O$(kaolin) + $4SiO_2$(qumtuproq) + K_2CO_3
$KClO + CO_2 + H_2O \rightarrow KHCO_3 + HClO$
$KClO_3 + I_2 \rightarrow KIO_3 + Cl_2 \uparrow$
$KI + I_2 \rightarrow KI_3$
$KNO_2 + KMnO_4 + H_2O \rightarrow KNO_3 + MnO_2 + KOH$
$KNO_2 + KMnO_4 + H_2SO_4 \rightarrow KNO_3 + MnSO_4 + HOH$
$KNO_2 + KMnO_4 + KOH \rightarrow KNO_3 + K_2MnO_4 + HOH$
Kobalt oksidi shishani ko’k ranga, xrom oksidi och yashil ranga, marganets (II) oksidi to’q qizil ranga bo’
Ligandlar yana adendlar deb ataladi.
$Mg_2OCl_2 + 2HCl \rightarrow 2MgCl_2 + H_2O$
$Mg_2OCl_2 + 2HCl \rightarrow 2MgCl_2 + H_2O$
$MnO_2 + H_2SO_3 = MnSO_4 + H_2O$

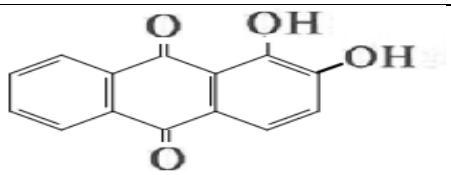
$MoO_3 + 3H_2 \rightarrow Mo + 3H_2O$
$N_2O_3\ (25^0) \rightarrow NO + NO_2$
$Na_2Al_2S_2O_8 * nH_2O + CaSO_4 \rightarrow CaAl_2S_2O_8 * nH_2O + Na_2SO_4$
$Na_2CO_3 + 2C \rightarrow 2Na + 3CO$
$Na_2CO_3 + 6SiO_2 + CaCO_3 \rightarrow Na_2O \cdot CaO \cdot 6SiO_2 + 2CO_2$
$Na_2Cr_2O_7 + 2NaOH \rightarrow 2Na_2CrO_4 + H_2O$
$Na_2O_2 + 2H_2O\ (sovuq) \rightarrow 2NaOH + H_2O_2$
$Na_2SO_3 + I_2 + H_2O \rightarrow Na_2SO_4 + 2HI$
$Na_2SO_4 + 2C \rightarrow Na_2S + 2CO_2\uparrow$
$NaNO_2 + 2HNO_3 \rightarrow NaNO_3 + N_2O_3 + H_2O$
$NaOH + Al(OH)_3 = NaAlO_2 + 2H_2O$
$NH_3 + HCl + H_2O = NH_4Cl + H_2O$
$NH_4NO_2 = 2H_2O + N_2\uparrow$
$NH_4NO_2 = 2N_2 + O_2 + 4H_2O$
$NH_4NO_3 = N_2O + 2H_2O$
$NiO + C \rightarrow Ni + CO$
$NOCl$(nitrozil xlorid) $\rightarrow 2NO + Cl_2$
$P_2O_3 + 3H_2O \rightarrow 2H_3PO_3$
$P_2O_5 + 4CaO \rightarrow Ca_3(PO_4)_2 * CaO$
$P_2O_5 + H_2O \rightarrow 2HPO_3$
$PbO_2 + KCl \rightarrow PbCl_2 + Cl_2 + H_2O$
$PBr_3 + 3H_2O \rightarrow H_3PO_3 + 3HBr$
$PbS + 2O_3 \rightarrow PbSO_4 + O_2\uparrow$
$PH_3 + HCl \rightarrow PH_4Cl$
$PI_3 + 3H_2O \rightarrow H_3PO_3 + 3HI$
$S + 2HNO_3 \rightarrow 2H_2SO_4 + 2NO\uparrow$
$S + Na_2SO_3 \rightarrow Na_2S_2O_3$
$S + Na_2SO_3 \rightarrow Na_2S_2O_3$

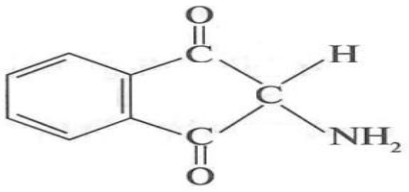
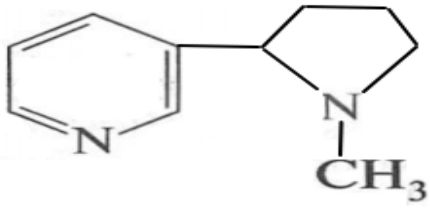
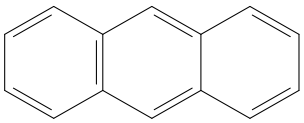
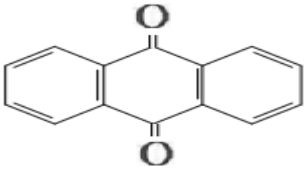
$Sb(OH)_2Cl \rightarrow SbOCl + H_2O$
$Sb_2O_3 + 2NaOH \rightarrow 2NaSbO_2 + H_2O$
$Si + 2Cl_2 \rightarrow SiCl_4$
$Si + 2F_2 \rightarrow SiF_4$
$Si + 2Mg \rightarrow Mg_2Si$
$Si + 2NaOH + H_2O \rightarrow Na_2SiO_3 + 2H_2\uparrow$
$SiO_2 + 2C \rightarrow 2CO + Si$
$SiO_2 + 2Mg \rightarrow 2MgO + Si$
$SiO_2 + 2NaOH \rightarrow Na_2SiO_3 + 2H_2O$
$SiO_2 + 3C \rightarrow 2CO +$ SiC(karborund)
$SiO_2 + K_2CO_3 \rightarrow K_2SiO_3 + CO_2$
$SiO_2 + C \rightarrow Si + 2CO$
$SO_2 + 2C\ (800^0) = S + 2CO$
$SO_2 + 2H_2\ (500^0) = S + 2H_2O$
$SO_2 + H_2O + NO_2 = H_2SO_4 + NO$
$Ti + 2H_2O \rightarrow TiO_2 + 2H_2$
$Ti + 2H_2SO_4 \rightarrow TiSO_4 + SO_2 + H_2O$
$Ti + H_2SO_4 \rightarrow TiSO_4 + H_2$
$TiCl_4 + 2Mg \rightarrow Ti + 2MgCl_2$
$TiCl_4 + 4Na \rightarrow Ti + 4NaCl$
$TiO_2 + 2Cl_2 + 2C \rightarrow TiCl_4 + 2CO$
$XeF_4 + 2H_2O \rightarrow Xe + O_2 + 4HF$
$XeF_6 + 2H_2O \rightarrow XeO_2F_2 + 4HF$
$XeF_6 + 3H_2O \rightarrow XeO_3 + 6HF$
$XeF_6 + H_2O \rightarrow XeOF_4 + 2HF$
$XeO_3 + 4NaOH + O_3 \rightarrow Na_4XeO_6 + O_2 + 2H_2O$
$Zn + 2KOH + 2H_2O \rightarrow K_2[Zn(OH)_4] + H_2$
$Zn + 2NaOH \rightarrow Na_2ZnO_2 + H_2\uparrow$
$Zn + 2NaOH \rightarrow Na_2ZnO_2 + H_2\uparrow$

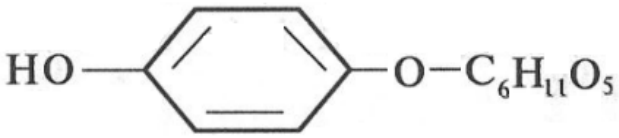
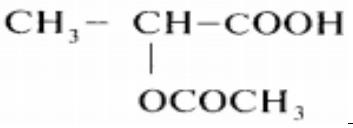
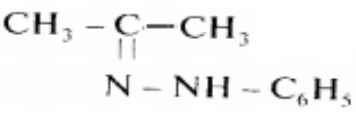
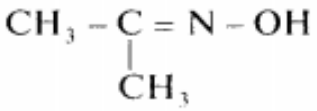
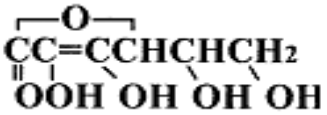
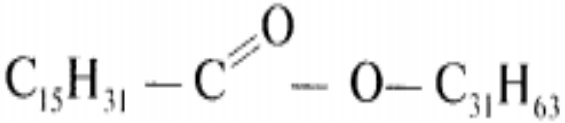
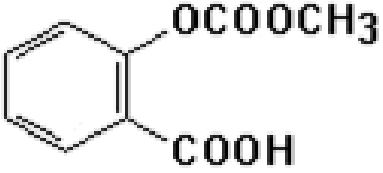
$Zn(OH) + 2NaOH \rightarrow Na_2[Zn(OH)_4]$	$Zn(OH) + 6NH_3 \rightarrow [Zn(NH_3)_6](OH)_2$

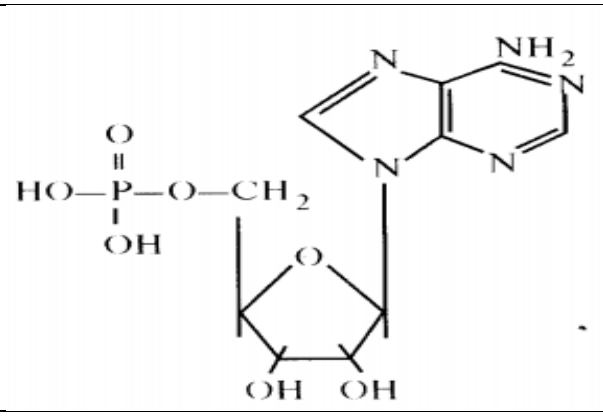
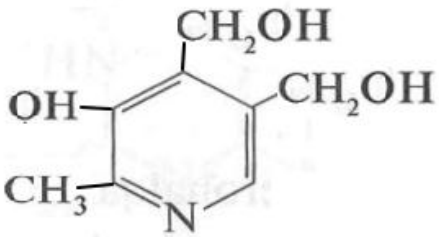
MODDALAR FORMULASI.

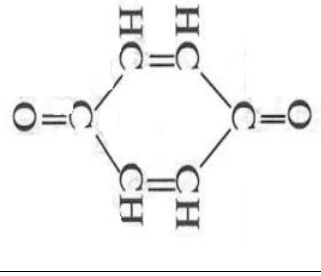
1,3,4 trizol		
2-dezoksi-(β-D-ribofuranoza)		
2-formil siklogeksanon		126
3 indolpirouzum kislota		
Ablest	$3MgO•2SiO_2•2H_2O$	276
Achchiqtosh	$KAl(SO_4) •12H_2O$	294
Achchiqtuz	$MgSO_4•7H_2O$	246
Adenin		
Adipin kislata	$HOOC-(CH_2)_4-COOH$	146
Agat	SiO_2	60
Akril kislota	$H_2C=CHCOOH$	
Akril kislota nitrili	$CH_2=CHCN$	53
Akrilamid	$CH_2=CH-CO-NH_2$	71
Akrilonitril	CH_2CHCN	53
Akrolein	$H_2C=CHCOH$	

Alanin	$CH_3CH(NH_2)COOH$	89
Albaster	$2CaSO_4•H_2O$	290
Albit	$[Na(AlSi_3O_8)]$ yoki $Na_2O•Al_2O_3•6SiO_2$	524
Albit	$[Na(AlSi_3O_8)]$	262
Aldol	$CH_3 – CH(OH) – CH_2 – COH$	88
Alebaster	$CaSO_4•0,5H_2O$	145
Alfaoksipropion kislota nitrili	CH_3-CH(CN)-OH	
Alizarin		
Alkogolat	C_3H_7-OK	98
Allen	$CH_2=C=CH_2$	40
Allil radikali	$CH_2=CH-CH_2$-	
Allil spirt	$CH_2=CH-CH_2-OH$	
Allil xlorid	$CH_2=CH-CH_2-Cl$	
Alumosilikat	$Na_2Al_2Si_4O_{12}$	394
Alunit	$K_2\ SO_4\ .\ Al_2(SO_4)_3 \cdot 2Al_2O_3 \cdot 6H_2O$	828
Alyumel	Ni[95%]•Al[1,8-2,5%]•Mn[1-2,2%]•Si[0,88-1,15%]	
Alyuminiy achchiqtosh	$Kal(SO_4)_2•12H_2O$	474
Alyuminiy arsenat	$AlAsO_4$	166
Alyuminiy borat	$2Al_2O_3 \cdot B_2O_3 \cdot H_2O$	292
Alyuminiy bromid	AlB_2	49
Alyuminiy dixromat	$Al_2(Cr_2O_7)_3$	702
Alyuminiy radanit	$Al(CNS)_3$	201
Amakinit	$Fe(OH)_2$	90
Amblironit	$LiAl(PO_4)F$	148
Amigdalin	$C_{20}H_{27}O_{11}N*H_2O$	
Amil spirt	$C_5H_{11}OH$	
Amilen	C_5H_{10}	70
Aminobenzol	$C_6H_5NH_2$	93

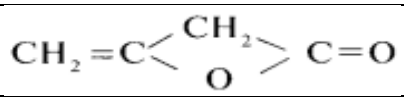
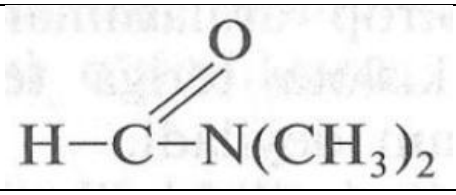
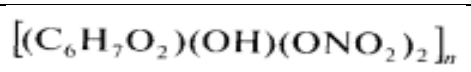
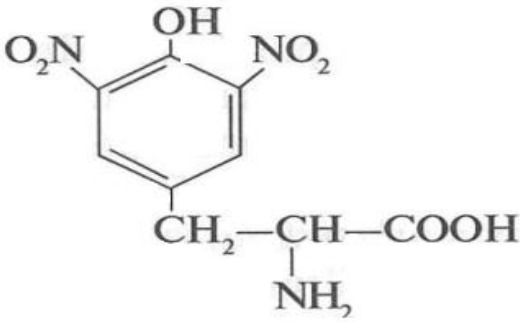
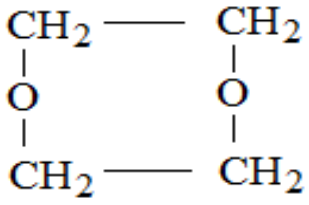
Aminodiketogidrinden Diketogidrindamin		
Amitist(agat)	SiO_2	60
Ammiakli selitra	NH_4NO_3	80
Ammofos	$NH_4H_2PO_4$•$(NH_4)_2HPO_4$	247
Ammoniy atsetat	CH_3COONH_4	77
Ammoniy dixromat	$(NH_4)_2Cr_2O_7$	252
Ammoniyli selitra	NH_4NO_3	78
Amorf qumtuproq	SiO_2•nH_2O	
Anabazin		
Anartit	$Ca[Al_2Si_2O_6]$ yoki $CaO \cdot Al_2O_3 \cdot 2SiO_2$	
Angidrit	$CaSO_4$	136
Anilin	$C_6H_5NH_2$	93
Anorganik benzol	$B_3N_3H_6$	81
Anorit	$CaO•Al_2O_3•2SiO_2$ yoki $Ca(Al_2Si_2O_8)$	278
Anortit	$CaO•Al_2O_3•2SiO_2$	278
Anortit	$[Ca(Al_2Si_2O_8)]$	278
Antimonit	Sb_2S_3	340
Antratsen	$C_{14}H_{10}$ 	178
Antraxinon		
Apatit	$Ca_3(PO_4)_2$	
Appatit	$Ca_5(PO_4)_3F_2(OH)_2$	557
Arabinoza	$C_5H_{10}O_5$	150
Arahin kislota	$C_{19}H_{39}COOH$	
Araxidon kislota	$C_{19}H_{31}COOH$	304
Araxin kislota	CH_3-$(CH_2)_{18}$-COOH	312

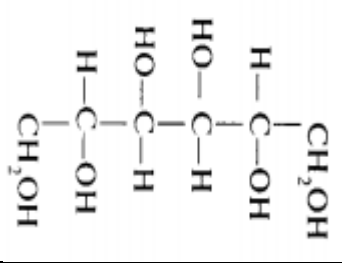
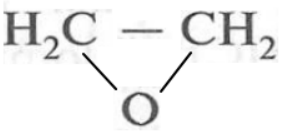
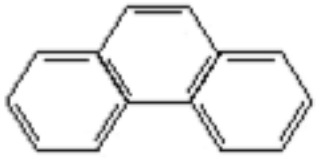
Arbutin glikozidi		
Argentit (kumush yaltirog'i)	Ag_2S	248
Arogonit	$CaCO_3$	
Arsenat kislota	H_3AsO_4	142
Arsenit kislata	H_3AsO_3	126
Arsenopirit	FeAsS	166
Asbest	$CaO \cdot 3MgO \cdot 4SiO_2$	416
Asetamid	CH_3CONH_2	59
Asetanilid		133
Asetil sut kislota		132
Aseton fenilgidrazoni		
Aseton oksimi		73
Asharit	$2MgO \cdot B_2O_3 \cdot H_2O$	168
Askarbin kislota		175
Aslari mumi, palmitin kislotaning miritsil efiri		690
Aspirin		
Astraxanit	$Na\ SO_4 \cdot Mg\ SO_4 \cdot 4H_2O$	311

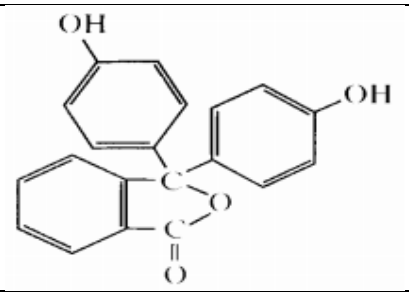
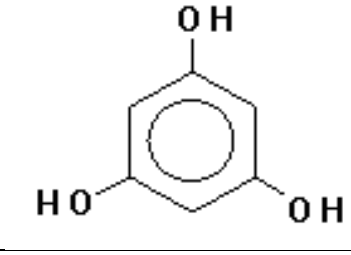
ATF		
Atsetaldegid	CH_3CHO	44
Atsetat tola	$[(C_6H_7O_2)(OCOCH_3)_3]_n$	
Atseton oksimi	$CH_3C(CH_3)NOH$	59
Atseton,propanon	$CH_3C(O)CH_3$	58
Atsetonitril	CH_3CN	41
Auratlar	$KAuO_3 \cdot 3H_2O$	338
Azafoska	$(NH_4)_3PO_4$	149
Azelain kislata	$HOOC(CH_2)_7COOH$	188
Azid kislata	HN_3	43
Azoimid	HN_3	43
Azot angidridi	NH_3	17
Azurit	$2CuCO_3 \cdot Cu(OH)_2$	346
B_6 vitamin		
Babbatlar	Pb[65%]•Sn[19-17%]•Sb[15-17%]•Cu[2%]	
Balost	$CaSO_4$	136
Barit	$BaSO_4$ (oq)	233
Barit suvi	$Ba(OH)_2$	171
Bariy peroksid	BaO_2	169
Bariy selenat	$BaSeO_4$	280
Bariy sulfatning nordon tuzi	$Ba(HSO_4)_2$	331
Bariyli shpat	$BaO \cdot Al_2O_3 \cdot 2SiO_2$	375
Bariyli suv	$Ba(OH)_2$	171
Bastnezit	$(Ce, La)FCO_3$	

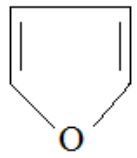
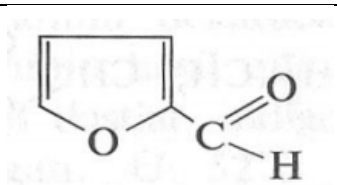
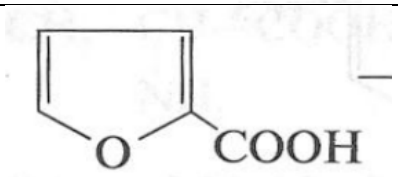
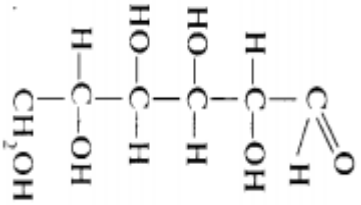
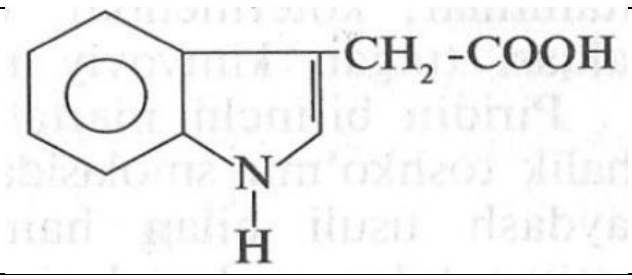
Benzil amin anilin	$C_6H_5NH_2$	93
Benzil spirti	$C_6H_5CH_2OH$	
Benzilamin	$C_6H_5CH_2NH_2$	
Benzol	C_6H_6	78
Benzoxinon		108
Benzoy kislota	C_6H_5COOH	122
Berill	$3BeO•Al_2O_3•6SiO_2$ yoki $(Be_3Al_2)Si_6O_{18}$	537
Berilliy karbid	Be_3C	39
Berinit	H_2BeO_2	43
Berlin sarig'i	$Fe_4[Fe(CN)_6]_3$	860
Berlin siri yoki parij ko'ki	$Fe_4[Fe(CN)_6]$ $K_4[Fe(CN)_6]\cdot nH_2O$	
Berlin zangorisi	$Fe_4[Fe(CN)_6]_3$	860
Bertole tuzi	$KClO_3$	122,5
Beshofit	$MgCl_2 \cdot 6H_2O$	203
Billur(xrustal)shish	$K_2O•PbO_2•6SiO_2$	693
Binafsha shisha	$Na_2O•MnO_2•6SiO_2$	509
Binopar(ohakli)qoti shma	$Ca(OH)_2$	74
Bipolyar ion	$[H_3N^+\text{-}CH_2\text{-}COO^-]$	
Bishofit	$MgCl_2•6H_2O$	203
Biuret	$NH_2CONHCONH_2$	103
Boksid (gil tuproq)	$Al_2O_3 \cdot nH_2O$	
Bomit	Cu_5FeS_4	504
Bor	$CaCO_3$	100
Bor bromid	BBr_3	248
Bor gidrid	BH_3	14
Bor karbid	B_3C	45
Bor karbid	B_4C_3	80
Bor nitrid	BN yoki $(BN)_3$	25
Boran	B_2H_4	26

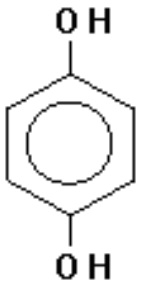
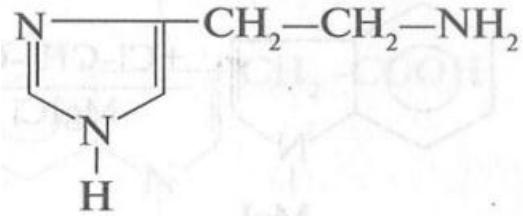
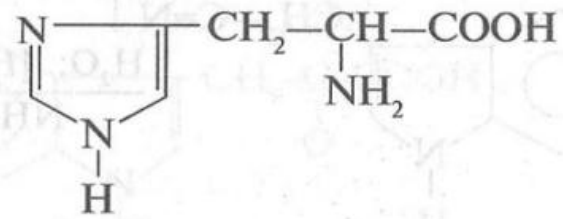
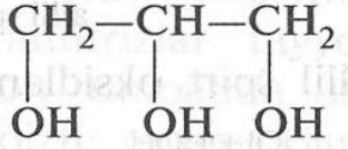
Boranlar	B_2H_6	28
Boratsit	$2Mg_3B_8O_{15} \cdot MgCl_2$	895
Braunit	Mn_2O_3	158
Brom sirka k-ta	$BrCH_2\text{-}COOH$	138
Bromaseton	$CH_3 – C(O) – CH_2Br$	
Bura	$Na_2B_4O_7 \cdot 10H_2O$	382
Butadiyen 1,3	$CH_2CHCHCH_2$	54
Butadiyen kauchuk	$(\text{-}CH_2\text{-}CH=CH\text{-}CH_2\text{-})$	
Butadiyen stirol	$(\text{-}CH_2\text{-}CH=CH\text{-}CH_2CH(C_6H_6)CH_2\text{-})$	
Buten 2al	$CH_3\text{-}CH=CH\text{-}CHO$	70
Byotit	$K(Mg,Fe)_3AlSi_3O_{10}(OH)_2$	
Byuret	$NH_2\text{-}CO\text{-}NH\text{-}CO\text{-}NH_2$	103
Chili selitrasi	$NaNO_3$	85
Cho’yan	[Fe 93%]•[C 4.5%]•[Si 0.5-2%]•[Mn 1.3%]•[P 0.02-2.5%]•[S 0.005-0.08%]	
Chumoli aldegid	HCOH	30
Chumoli kislota	HCOOH	46
Chumoli kislota amidi	$HCONH_2$	45
Dala shpati	$[Na(AlSi_3O_8)]$	262
Dala shpati	$[Ca(Al_2Si_2O_8)]$	278
Dala shpati	$[K(AlSi_3O_8)]$, $6SiO_2 \cdot K_2O \cdot Al_2O_3$	278
Dala shpati	$[Ba(Al_2Si_2O_8)]$	375
Datolit	$2CaO \cdot B_2O_3 \cdot 2SiO_2 \cdot H_2O$	320
Defoliant	$Mg(ClO_3)$	107.5
Dekstrinlar	$(C_6H_{10}O_5)_m$	
Deraza oynasi	$Na_2O \cdot CaO \cdot 6SiO_2$	478
Detsilen	$C_{10}H_{20}$	
Diamid	N_2H_4	32
Diatseton spirt	$CH_3\text{-}C(OH)(CH_3)\text{-}CH_2\text{-}CO\text{-}CH_3$	116
Dietilfenilamin	$(C_2H_5)_2NC_6H_5$	
Dietilsulfat	$C_2H_5\text{-}O\text{-}SO_2\text{-}O\text{-}C_2H_5$	
Difenil efir	$C_6H_5\text{-}O\text{-}C_6H_5$	160
Difosfin	P_2H_4	66

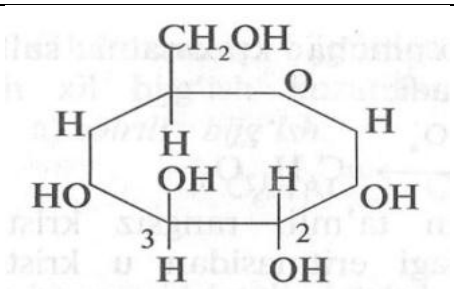
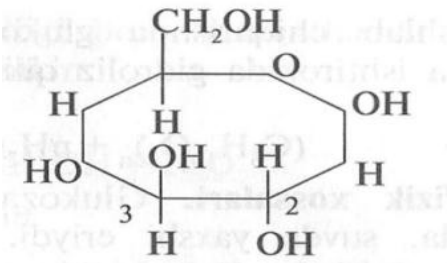
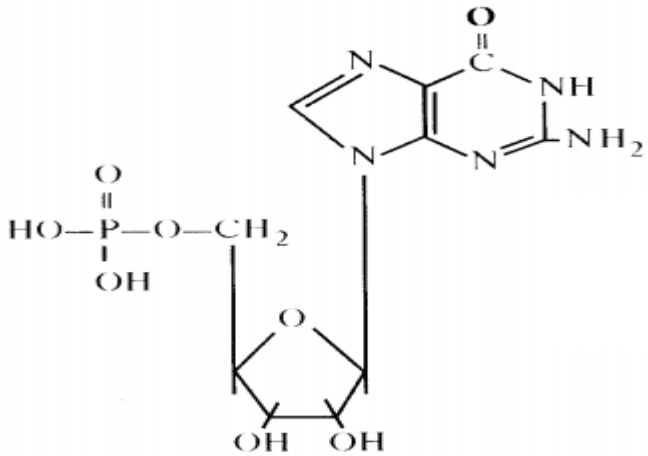
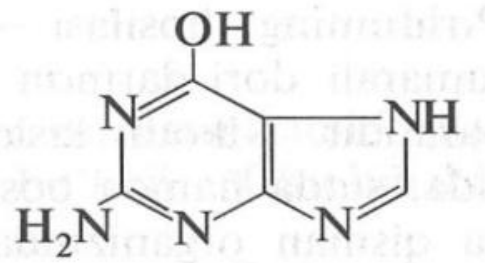
Digidroksoalyuminiy karbonat	$[Al(OH)_2]_2CO_3$	182
Digidroksoalyuminiy xlorid	$Al(OH)_2Cl$	96.5
Diketen		
Diketon		
Dikremniy kislata	$H_6Si_2O_7$ yoki $2SiO_2 \cdot 3H_2O$	174
Dikremniy kislota	$H_6Si_2O_7$	
Dimetil amin	$CH_3\text{-}NH\text{-}CH_3$	45
Dimetil efir	$CH_3\text{-}O\text{-}CH_3$	46
Dimetil formamid		
Dimetilformamid	$H\text{-}C(O)\text{-}N(CH_3)_2$	73
Dimetilnitroza amin	$(CH_2)_2N\text{-}N{=}O$	72
Dimetilsilikat kislota	$H_2Si_2O_5$ yoki $2SiO_2 \cdot H_2O$	138
Dimolibden kislota	$H_2Mo_2O_7$	306
Dinitril adipin kislota	$N{\equiv}C\text{-}(CH_2)_4\text{-}C{\equiv}N$	108
Dinitroselluloza		
Dinitrotirozin (sariq rangli)		
Dioksan		88
Disian	C_2N_2	52
Divinil	$CH_2CHCHCH_2$	54
Divinil kauchuk	$CH_2{=}CH\text{-}CH{=}CH_2$	66

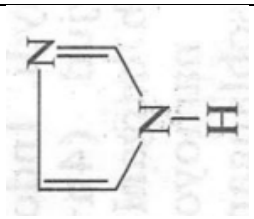
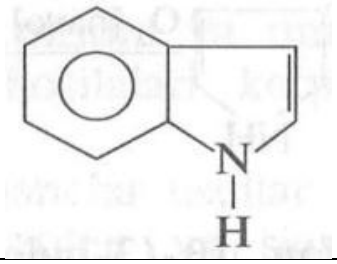
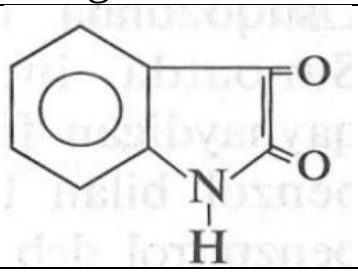
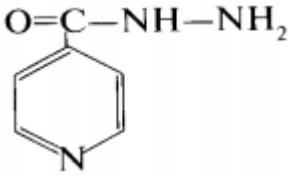
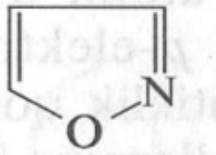
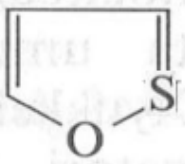
Diyuralyuminiy	Al•Cu[3.5%]•Mg, Ni, Mn[1%]	
Dizoksiriboza	$C_5H_{10}O_4$	134
Do’zax toshi	$AgNO_3$	170
Dodetsilamin	$C_{12}H_{25}NH_2$	185
Doimiy qattiqlik	$CaSO_4$•$MgSO_4$	256
Dolomit	$CaCO_3$•$MgCO_3$	184
Don(solod) shakari	$C_{12}H_{22}O_{11}$	342
Dulsit		
Ebonit	S[25-40%] Agar kauchukka S kop qoshilsa kauchuk qattiq mo’rt va elastikligini yoqotadi. Xosil bolgan modda ebonit deyiladi	
Enant kislota	CH_3-$(CH_2)_5$-COOH	130
Eruvchan shisha	K_2O•Na_2O•$6SiO_2$	376
Eruvchan shisha	$Na_2SiO_3K_2SiO_3$	376
Etanol	C_2H_5OH	46
Etilasetat	CH_3-O-C(O)-C_2H_5	88
Etilendiamin	NH_2-CH_2-CH_2-NH_2	
Etilenoksid		
Etilenxlor gidrin	Cl-CH_2CH_2ON	93.5
Etiletanoat	CH_3-C(O)-O-C_2H_5	88
Etilnitrat o’rta efiri	C_2H_5-O-NO_2	91
Etilsulfat kislota	$C_2H_5OSO_3H$	
Etoksietan (Dietilefir)	C_2H_5-O-C_2H_5	74
Eykozan	$C_{20}H_{42}$	
Farmaldegid	$HCONH_2$	45
Fenantren		

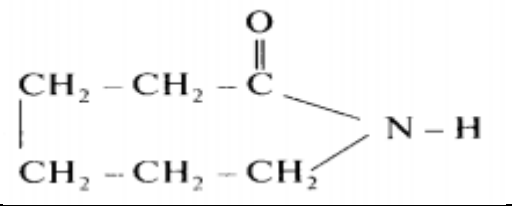
Fenilammoniy xlorid Anilin xlorid	$[C_6H_5NH_3]Cl$, $C_6H_5NH_2$ - HCl	129.5
Fenilgidroksilamin	C_6H_5NHOH	109
Fenol	C_6H_5OH	
Fenolftolein		302
Fernikel	NiAs	134
Ferrat	K_2FeO_4	198
Ferrat kislota	H_2FeO_4	122
Feruza toshi	$CuAl_2(OH)_2(PO_4) \cdot 5H_2O$	337
Floroglyutsin		
Floroglyutsin		
Flus	$CaCO_3$	100
Flyuorit	CaFe	96
Formalin	HCOH	30
Fosfarit	$Ca_3(PO_4)_2$	310
Fosfat kislota xlorangidridi	PCl_5	208.5
Fosfin	PH_3	34
Fosfit kislota	H_3PO_3	82
Fosforit	$Ca_3(PO)_4$	310
Fosforit uni	$Ca_3(PO_4)_2 \cdot CaCO_3$ va $Ca_3(PO_4)_2 \cdot CaF_2$ ning Fe,Al birikmalarda 50 % NaCl	
Fosgen	$COCl_2$	99
Freon	CF_2Cl_2	121
Fruktoza	$CH_2(OH)$-$(CH(OH))_3$-$C(O)$-CH_2-OH	180
Ftor apatit	$3Ca_3(PO_4)_2 * CaF_2$	628
Ftor borat kislota		

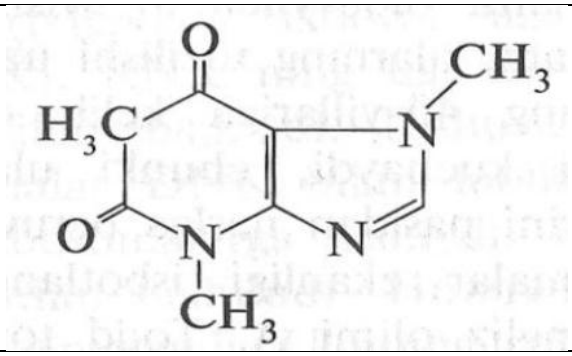
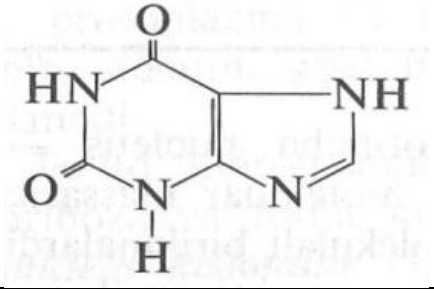
Ftor sirka k-ta	FCH_2-COOH	78
Fumar kislota (trans izomer)	HOOC-CH=CH-COOH	116
Furan	C_4H_4O 	68
Furfurol		
Furilkarbon kislota		
Galaktoza		
Galenit (qo'rg'oshin yaltirog'i)	PbS	239
Galit	NaCl	58,5
Galmey	$ZnCO_3$	125
Gaustanit	Mn_3O_4	229
Geksametilendiamin	H_2N-$(CH_2)_6$-NH_2	116
Gematit	Fe_2O_3	160
Gemimorfit	$Zn_4Si_2O_7 \cdot 2H_2O$	464
Geminal	Alkanlarda ikkala galogen atomlari bitta uglerod atomiga birikkan xosila	
Geptokozan	$C_{27}H_{56}$	
Geteroauksin		

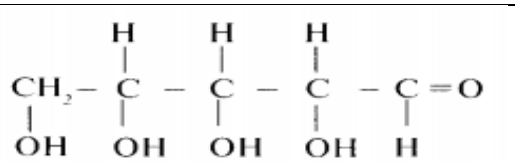
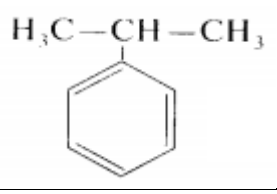
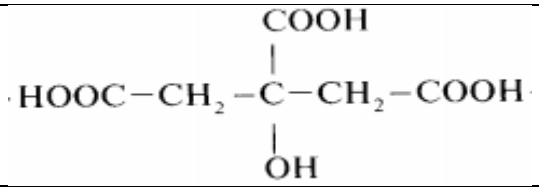
Gidrazin	N_2H_4	32
Gidrol	H_2O ni dissosiyalanmagan molekulasi	
Gidrolit	CaH_2	42
Gidroxinon		
Gil	$Al_2O_3 \cdot 2AlO_2 \cdot 2H_2O$	256
Giltuproq	$Al_2O_3 \cdot nH_2O$	134
Gipofosfit kislota	H_3PO_2	66
Giponitrid kislota	$H_2N_2O_2$	62
Gipoxlorit angidrid	Cl_2O	87
Gips	$CaSO_4 \cdot 2H_2O$	172
Gistamin		
Gistidin		
Glauber tuzi	$Na_2SO_4 \cdot 10H_2O$	322
Glauberit	$NaSO_4 \cdot CaSO_4$	278
Glazerit	$NaSO_4 \cdot 3K_2SO_4$	664
Glikogen	$(C_6H_{10}O_5)_n$	
Glikokol	$NH_2\text{-}CH_2\text{-}COOH$	75
Glikol kislota	$CH_2(OH)COOH$	76
Glioksal	HOC – COH	
Glioksil kislota	HOCCOOH	74
Glioksil kislota	HOOC – COH	
Glitserin		
Glukon kislota	$CH_2(OH)\text{-}(CH(OH))_4\text{-}COOH$	

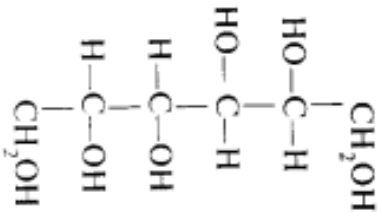
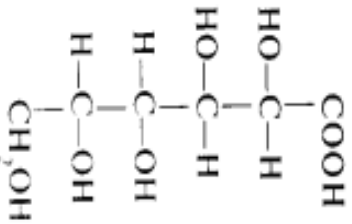
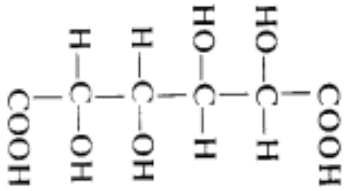
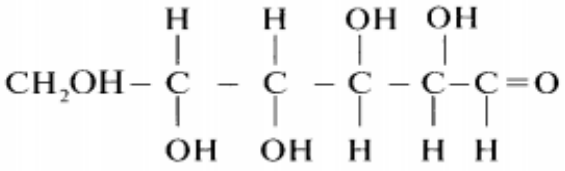
Glukoza (uzum shakari)	$C_6H_{12}O_6$	180
Glukoza kristalgidrati	$C_6H_{12}O_6 \cdot H_2O$	
Glukozaning α-shakli		
Glukozaning β-shakli		
Glutar kislota	$HOOC-(CH_2)_3-COOH$	132
GMF		
Grinyar reaktivi	CH_3HgJ	343
Guanin		
Gyotit	FeO(OH)	89
Ichimlik soda	$NaHCO_3$	84
Ilmenit	$FeTiO_3$	152
Ilminit	$FeO \cdot TiO_2$	152

Imidazol	$C_3H_4N_2$ 	68
Indol		
Infimiz tuzi	$MgSO_4 \cdot 7H_2O$	246
Izaton		
Izobutan	$CH_3CH(CH_3)CH_3$	58
Izoniazid		
Izooksazol		
Izopren	$CH_2=C(CH_3)CH=CH_2$	68
Izotiazol		
Javel suvi	$KCl+KClO+H_2O$	181
Kainit	$KCl \cdot MgSO_4 \cdot 3H_2O$	248.5
Kaliy – temir achchiqtosh	$K_2SO_4 \cdot Fe(SO_4)_3 \cdot 24H_2O$	950
Kaliy amid	KNH_2	55
Kaliy arsenat	K_2AsO_4	217
Kaliy auriti	$K[AuO_2] \cdot 3H_2O$	322
Kaliy azid	KN_3	81

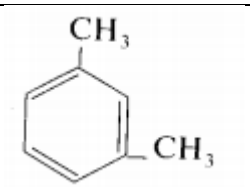
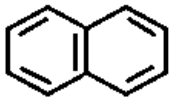
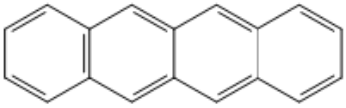
Kaliy azonid	KO_4	103
Kaliy digidrofosfat	$KH_2\ PO_4$	137
Kaliy dixromat	$K_2Cr_2O_7$	294
Kaliy gidrofosfat	K_2HPO_4	175
Kaliy gidrokarbonat	$KHCO_3$	100
Kaliy gidrosulfat	$KHSO_4$	136
Kaliy gipoxlorid	$KClO$	90.5
Kaliy meta alyuminat	$KAlO_2$	98
Kaliy peroksid	K_2O_4	142
Kaliy persulg'fat	$K_2S_2O_8$	270
Kaliy perxlorat	$KClO_4$	138.5
Kaliy peryodad	KJO_4	230
Kaliy silikat	$K_2SiO_3 \cdot H_2O$	133
Kaliy tetraxloroplatinat	$K_2[PtCl_4]$	415
Kaliy xromat	K_2CrO_4	194
Kaliyli selitra	KNO_3	101
Kaliyli soda	$KAl_2[AlSi_3O_m(OH)]$	
Kalsit	$CaCO_3$	
Kalsiy peroksid	CaO_2	72
Kalsiy diamid	$Ca(NH_2)_2$	72
Kalsiy gidrid	CaH_2	42
Kalsiy glukonat	$(CH2(OH)\text{-}(CH(OH))_4\text{-}COO)_2Ca$	
Kalsiy karbid	CaC_2	64
Kalsiy yodat	$Ca(JO_3)_2$	390
Kaolinit	$Al_2Si_2O_5(OH)_4$	182
Kapril kislota	$C_7H_{15}COOH$	144
Kaprolaktam		
Karbamin kislota	$O=C(OH)(NH_2)$	61
Karbinol	CH_3OH	48

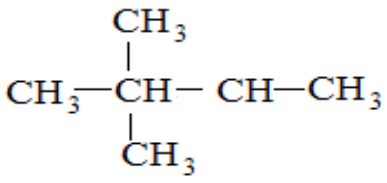
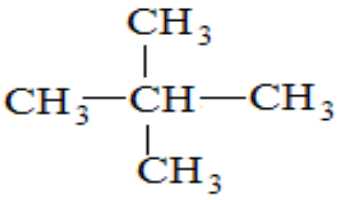
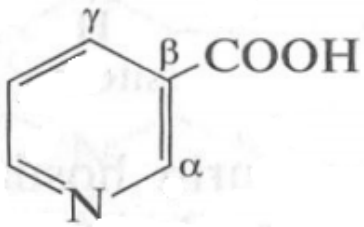
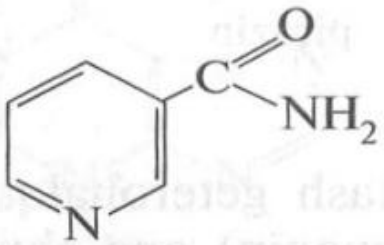
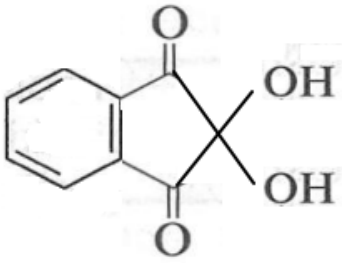
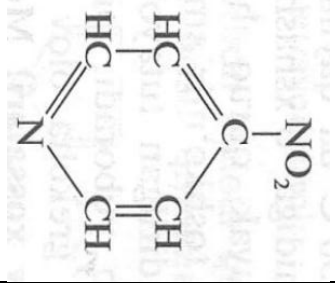
Karboraund	SiC	40
Karnallit	$KCl \cdot MgCl_2 \cdot 6H_2O$ (qisman NaCl)	277.5
Karnotit	$K_2O•2UO_2•U_2O_5•3H2O$	1276
Kaustik soda	NaOH	40
Kernit	$Na_2B_4O_7•4H_2O$	274
Kinovar	HgS	233
Kislota galogen angidridi	R-C(Cl)-C=O	
Kizirit	$Mg\ SO_4 \cdot H_2O$	138
Kobalt yaltirog'i	CoAsS	166
Kobaltin	CoAsS	166
Kodaverin	$NH_2-CH_2-CH_2-CH_2-CH_2-CH_2-NH_2$	
Kofein		
Kolemanit	$Ca_2B_6O_{11} • 5H_2O$	412
Korunol		
Kraxmal	$(C_6H_{12}O_5)_n$	
Kremniy kislota xlorangidridi	$SiCl_4$	170
Kriolit	$Na_3[AlF_6]$	210
Kristal soda	$NaCO_3 \cdot 10H_2O$	263
Krokoit	$PbCrO_4$	327
Kroton aldegid	CH_3-CH=CH-CHO	70
Ksantin (2,6 dioksi purin)		
Ksenon tetraftorid	XeF_4	207

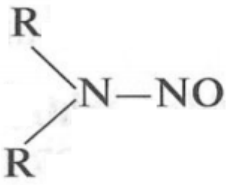
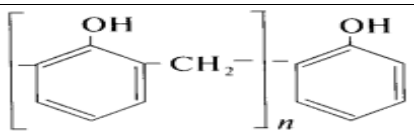
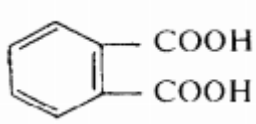
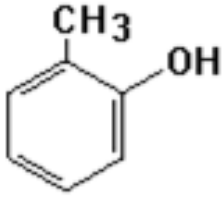
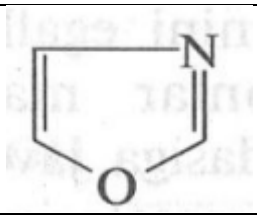
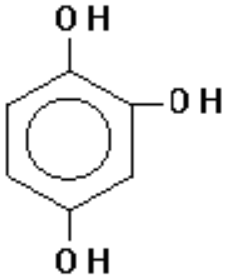
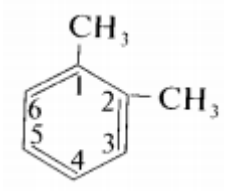
Ksiloza		
Kuldiruvchi gaz	N_2O	62
Kumol , izopropil benzol		120
Kumush yaltirog'i	Ag_2S	248
Kuporos moyi	H_2SO_4	98
Kuprit	Cu_2O	144
Kuydirilgan gips	$2Ca\ SO_4 \cdot H_2O$ yoki $Ca\ SO_4 \cdot 0{,}5H_2O$	145
Kuydirilgan oxak	CaO	56
Kvarts	SiO_2	60
Laktoza	$C_{12}H_{22}O_{11}$	
Lautarit	$Ca(JO_3)_2$	390
Lavrensit	$FeCl_2$	127
Lazuri	$Fe_4[Fe(CN)_6]_3$	860
Lepidolit	$Li_2KAl\ [Si_4O_m\ (F,H_2O)_2]$	
Levingstanit	$HgS \cdot 2Sb_2S_3$	913
Levulin aldegidi	$CH_3\text{-}C(O)\text{-}CH_2\text{-}CH_2\text{-}COH$	100
Liapis	$AgNO_3$	170
Lignoserin kislota	$C_{23}H_{47}COOH$	
Limon kislota		
Limonit	$2Fe_2O_3 \cdot H_2O$	338
Linol kislota	$CH_3(CH_2)_4CH=CH\text{-}CH_2\text{-}CH=CH(CH_2)_7COOH$	
Linolen kislota	$CH_3CH_2CH=CHCH_2CH=CHCH_2CH=CH(CH_2)COOH$	
Lipoton (oq bo'yoq)	$BaSO_4 + ZnS$	
Machevina karbamid	$CO(NH_2)_2$	56
Magnezial sement	$MgOHCl$	60.5

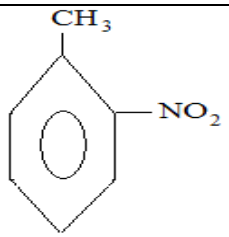
Magnezial tsement	$nMgO \cdot mMgCl \cdot PH_2O$	
Magnezit	$MgCO_3$	84
Magnit temirtosh (magnetit)	Fe_3O_4	232
Magniy nitrid	Mg_3N_2	100
Magniy oksixlorid	Mg_2OCl_2	135
Magniy peroksid	MgO_2	56
Magniyli silikat	$(Ni,Mg)_6(OH)_8Si_4O_{10}$	906
Malaxit	$CaCO_3 \cdot MgCO_3$	184
Malein kislota (sis izomer)	HOOC-CH=CH-COOH	116
Malon kislota	$HOOC-CH_2-COOH$	104
Maltoza	$C_{12}H_{22}O_{11}$	342
Manganat kislota	H_2MnO_4	121
Manganit	$Mn_2O_3 \cdot H_2O$	176
Mannit		
Mannon kislota		
Mannoshakar kislota		
Mannoza		
Marganesli shpat	$MnCO_3$	115
Margarin kislota	$C_{16}H_{33}COOH$	272

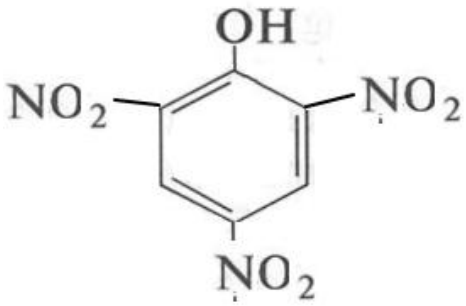
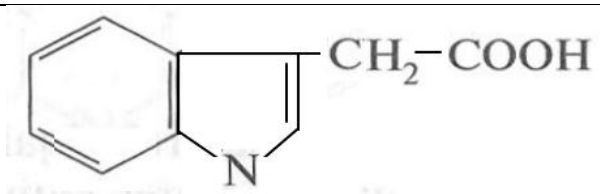
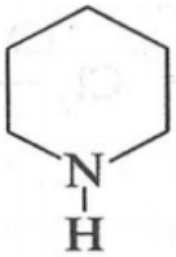
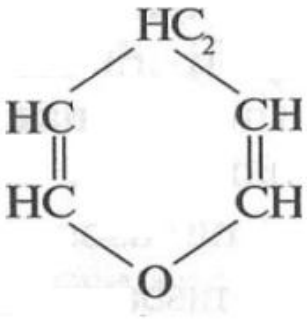
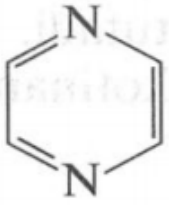
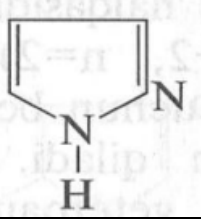
Marmar tosh (kuydirilmagan oxak)	$CaCO_3$	100
Massikot	PbO sariq shakl o’zgarishi	223
Meta borat kislota	HBO_3	44
Metakremniy kislota	H_2SiO_3	78
Metakril kislata	$CH_2=CH-COOH$	
Metakrilat	$CH_2=CH-COOCH_3$	86
Metan	CH_4	16
Metanal	CH_3CHO	44
Metanol	CH_3OH	32
Metil benzol	$C_6H_5CH_3$	92
Metil etil efir	$CH_3-O-C_2H_5$	76
Metil formiat	$HCOOCH_3$	60
Metiletilmalon kislota	$HOOC-C(CH_3)(C_2H_5)-COOH$	146
Metilgeksadetsilketon	$CH_3-C(O)-C_{14}H_{29}$	240
Metilizoprpilketon	$CH_3-C(O)-CH(CH_3)_2$	86
Metilmalon kislota	$HOOC-CH(CH_3)-COOH$	118
Metilmetakrilat	$CH_2=C(CH_3)-COOCH_3$	100
Metilmetanoat	$H-C(O)-O-CH_3$	60
Metoksimetan (Metiletilefir)	CH_3-O-CH_3	46
Miritsin kislota	$C_{13}H_{27}COOH$	
Mis (II) glitserat	$C_3H_6O_3Cu$	154
Mis gidrid	CuH_2, Cu_2H_2	66, 130
Mis kolchedani	$CuFeS_2$	184
Mis kuporosi	$CuSO_4•5H_2O$	250
Mis kuprit	Cu_2O	
Mis nitrid	Cu_3N	206
Mis yaltirog’i	Cu_2S	160
Mis(II)-atsetilenid	Cu_2C_2	152
Mis(II)-oksid	Cu_2O_3	176

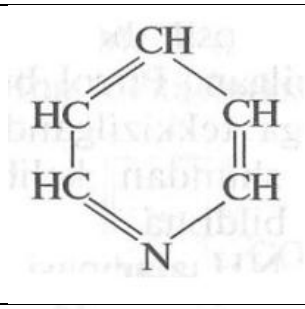
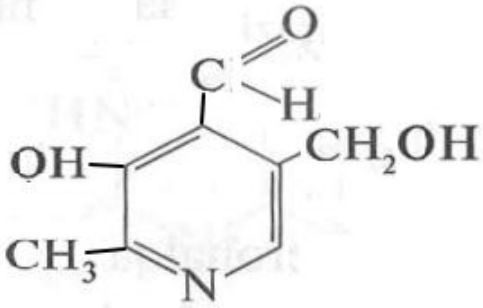
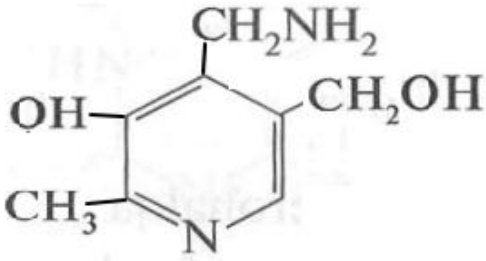
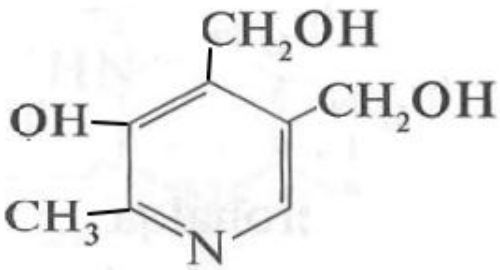
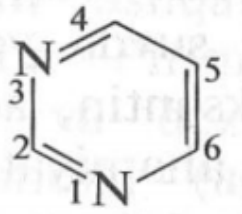
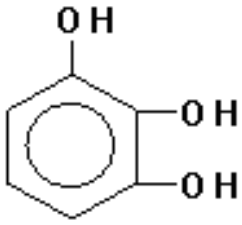
m-ksilol		106
Mochevina	$NH_2C(O)NH_2$	60
Molebdenit	MoS_2	160
Molizit	$FeCl_3$	162.5
Monoxlorsiklogeksan	$C_6H_{11}Cl$	
Mor tuzi	$(NH_4)_2SO_4 \cdot FeSO_4 \cdot 6H_2O$ yoki $Fe(NH_4)_2(SO_4)_2$	
Moy kislota	C_3H_7COOH	88
Muskovit	$KAl_2AlSi_3O_m)_2\ (OHF)_4$	
Naftalin	$C_{10}H_8$ 	128
Naftatsen		
Nasturan	U_2O_3	842
Natriy amid	$NaNH_2$	39
Natriy angidrid	Na_2O_3	94
Natriy atsetat	CH_3-COONa	82
Natriy bikarbonat	$NaHCO_3$	
Natriy borat	$NaBO_3$	82
Natriy disulfid	Na_2S_2	110
Natriy oksalat	$(COONa)_2$	134
Natriy stearat	CH_3-$(CH_2)_{16}$-COONa	306
Natriy stearat	$C_{17}H_{35}COONa$	306
Natriy tetragidroksiberillat	$Na_2[Be(OH)_4]$	123
Natriy trisulfid	Na_2S_3	142
Natron ohak	$Ca(OH)_2$ va NaOH aralashmasi	
Navshadil spirt	NH_4OH	35
Nefelin	$Na_2O \cdot Al_2O_3 \cdot 2SiO_2$	284

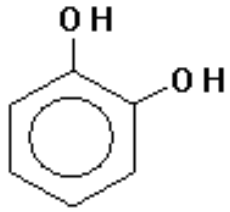
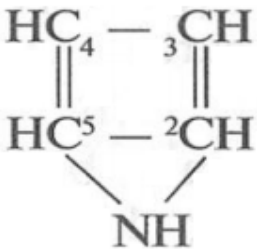
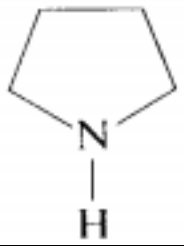
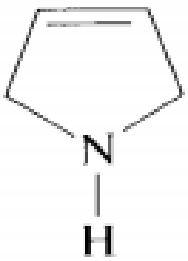
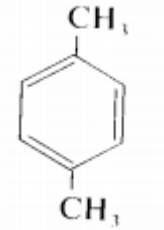
Neogeksan		76
Neopentan		72
Neyzelberg qotishmasi	65%Cu, 20%Ni, 15%Zn	
Nikelning melixor qotishmasi	53%Cu, 27%Ni, 20%Zn	
Nikotin kislota Piridin karbon kislota		
Nikotin kislota amidi Vitamin PP		
Ningidrin		
Nitrometan	CH_3NO_2	61
Nitropiridin		

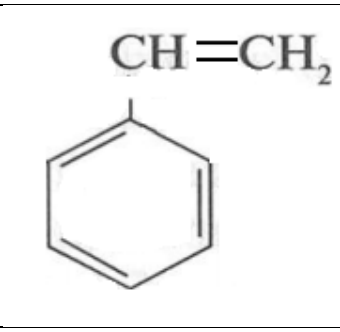
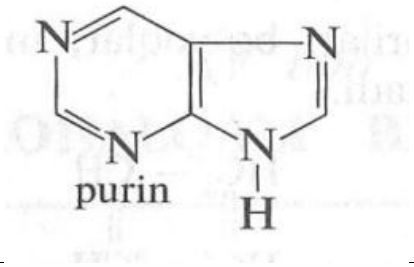
Nitrozaamin		
Nitrozil xlorid	NOCl	65.5
Nitrozobenzol	C_6H_5-N=O	107
Nonakozan	$C_{29}H_{60}$	
Novolak smola		
Oddiy superfosfat	$Ca(H_2PO_4)_2 + 2CaSO_4$	506
o-ftal kislota		166
Og’ir suv	D_2O	
o-krezol		108
Oksalat Kislota	HOOC-COOH	90
Oksazol		
Oksiatsetaldegid	HO-CH_2COH	60
Oksietil peroksid	CH_3-CH_2-CH(OH)-O-O(OH)-CH-CH_3	135
Oksigidroxinon		
o-ksilol		106
Oksimetiletilketon		
Oktakozan	$C_{28}H_{58}$	

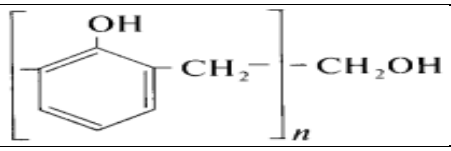
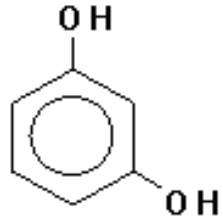
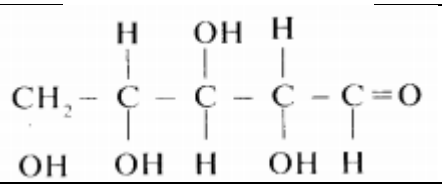
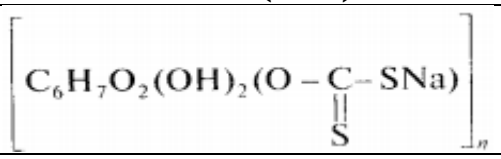
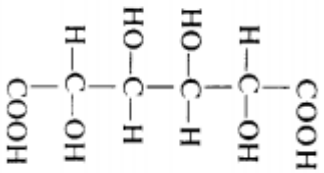
Oktodetsin	$HC{\equiv}C{-}(CH_2)_{15}{-}CH_3$	
Olein kislota	$C_{17}H_{33}COOH$	282
Olein triglitseridi		
Olevin	Mg_2SiO_4	140
Olma kislota	$HOOC\text{-}CH_2\text{-}CH(OH)\text{-}COOH$	134
Oltin kislotasi	$H[AuCl_4]$	340
Oltin telurid	$AuTe_2$	453
o-nitro toluol		
Oq loy	$CaCO_3$	100
Oq magneziya	$3MgCO_3 \cdot Mg(OH)_2 \cdot 3SiO_2$	454
Ortaklaz (dala shpati)	$K[AlSi_3O_8]$ yoki $K_2O \cdot Al_2O_3 \cdot 6SiO_2$	278
Ortakremniy kislota	H_4SiO_4	96
Ortamanganat kislota	H_4MnO_4	123
Ortayodad kislota	H_5JO_6	228
Orto borat kislota	H_3BO_3	62
Ortosilikat kislota	H_4SiO_4	96
Oxaktosh	$CaCO_3$	100
Oxakli suv	$Ca(OH)_2$	74
Palmitin	$C_{15}H_{31}COOH$	256
Palmitoolein kislota	$CH_3(CH_2)_5CH{=}CH(CH_2)_5COOH$	
Paraform	$nHCHO \leftrightarrow (HCHO)_n$	
Pardermit	$Ca_2B_6O_{11} \bullet 3H_2O$	376
Pellargon kislota	$C_8H_{17}COOH$	158
Pentlantid	$NiSFeS$	179
Permanganat kislota	$HMnO_4$	120
Perovskit (Kalsiy titanat)	$CaTiO_3$	136

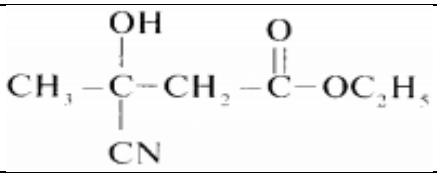
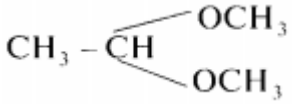
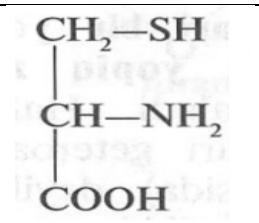
Persulfat kislata	$H_2S_2O_8$	194
Perxlorat angidrid	Cl_2O_7	183
Peryodad kislota	HJO_4	192
Pikrin kislota		
p-indolil sirka kislota		
Piolyuzit	MnO_2	87
Piperidin		
Piran		
Pirargirit	$3Ag_2SSb_2S_3$	1764
Pirazin		
Pirazol		

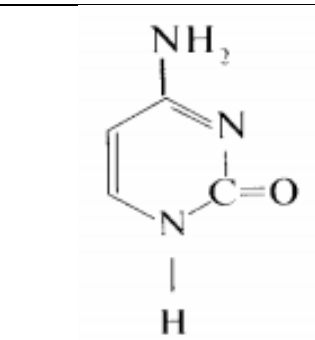
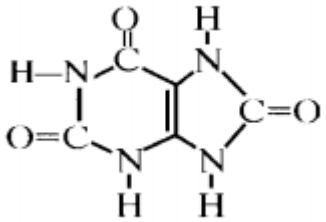
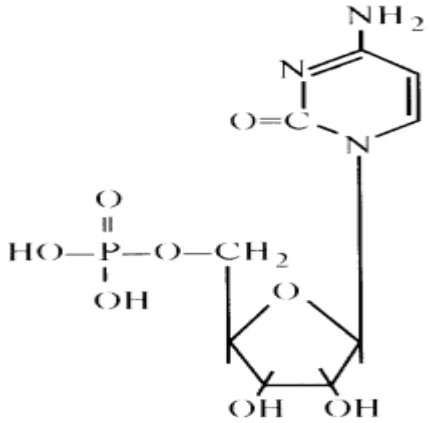
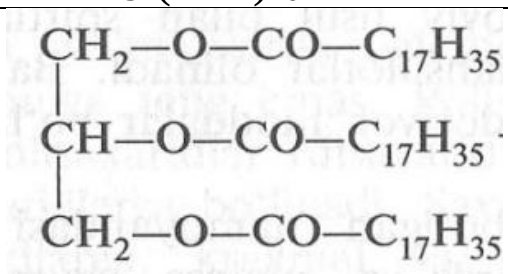
Piridin		
Piridoksal		
Piridoksamin		
Piridoksin		
Pirimidin		
Pirit	FeS_2	120
Pirogallol		

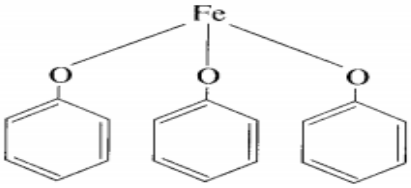
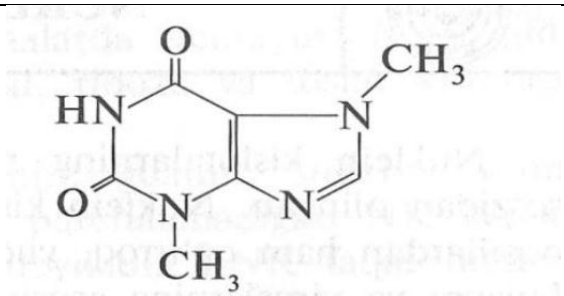
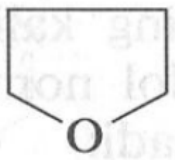
Pirokatexin		
Pirolyuzit	$MnO_2 \cdot xH_2O$	
Pirosulfat	$H_2S_2O_7$	178
Pirouzum kislota	$CH_3C(O)C(O)COOH$	116
Pirrol		67
Pirrolidin		
Pirrolin		
p-ksilol		106
Plavik shpati	CaF_2	
Poliizobutilen, oppanol, vistaneks, polibuten	$CH_2=C(CH_3)-CH=CH_2$	
Polimeta silikat kislota	H_2SiO_3	78

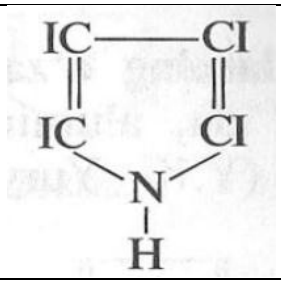
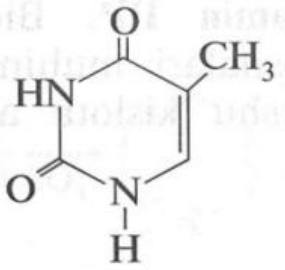
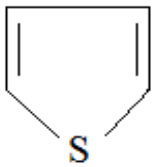
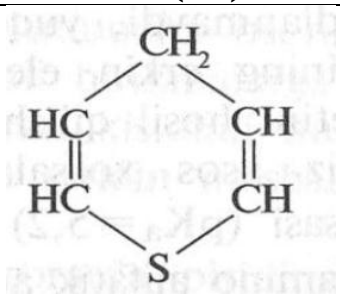
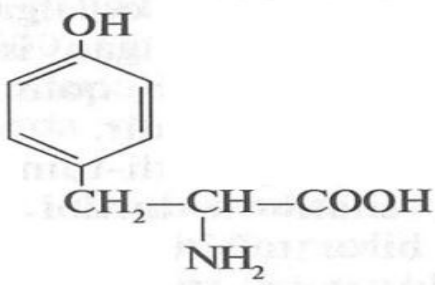
Polistirol		
Pollutsit	$CsAl(SiO_3)_2$	312
Porox	$Pb(N_3)_2$	291
Potash	K_2CO_3	99
Prapanon, atseton, dimetilketon	$CH_3C(O)CH_3$	58
Pretsipitat	$CaHPO_4 \cdot 2H_2O$	172
Propilbutanoat	C_3H_7-C(O)-O-C_3H_7	130
Propka kislota	HOOC-$(CH_2)_5$-COOH	
Psevdobutilen	C-C=C-C	
Psevdonitril		
Purin	 purin	
Putressin , tetrametilen diamin	$NH_2 - CH_2 - CH_2 - CH_2 - CH_2 - NH_2$	
Qalay oksixlorid	SbOCl	173, 5
Qalg'diroq gaz	NO	30
Qizil mis rudasi (kuprit)	Cu_2O	144
Qizil qon tuzi	$K_3[Fe(CN)_6]$	329
Qizil temirtosh (gematit)	Fe_2O_3	160
Qo'ng'ir temirtosh	$Fe_2O_3 \cdot 3H_2O$	214
Qo'rg'o yal-g'i	PbS	239
Qo'sh superfosfat	$Ca(H_2PO_4)_2$	234
Qo'shaloq superfosfat	$Ca(H_2PO_4) \cdot H_2O$ qisman H_3PO_4	

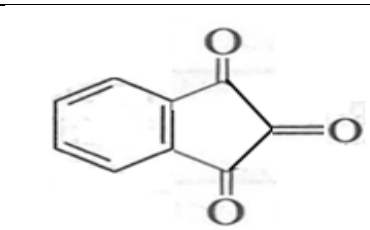
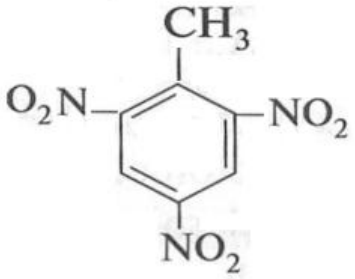
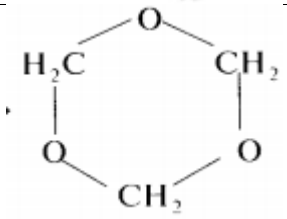
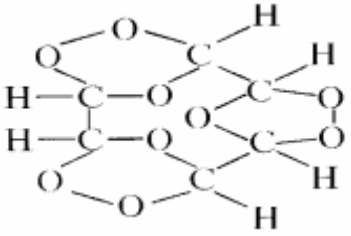
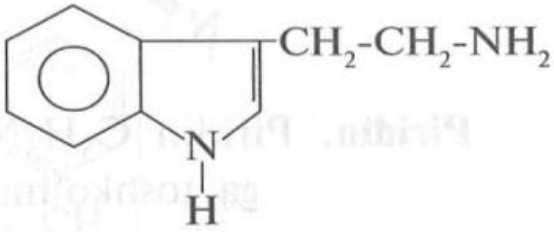
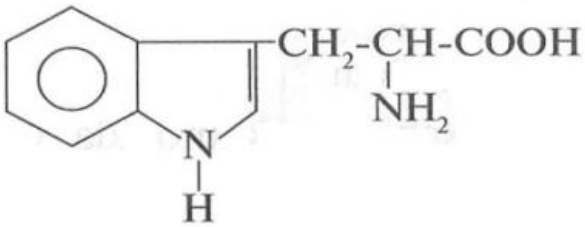
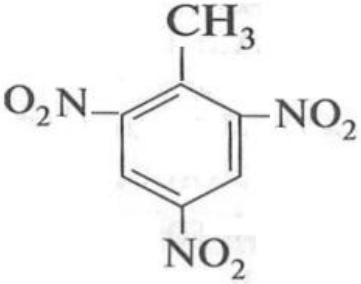
Qora poroh	75% KNO_3 15%C	
Qorg'oshin yaltirog'i	PbS	239
Qumtuproq	SiO_2	60
Quruq muz	SO_2	64
Rezol smola		
Rezorsin		
Riboza		
Ruh aldamasi	ZnS	97
Sariq qon tuzi	$K_4[Fe(CN)_6]$	368
Saxaroza izomeri	$C_{12}H_{22}O_{11}$	342
Sebatsin kislota	$HOOC-(CH_2)_6-COOH$	
Segler-natt katalizatori	$TiCl_4 . Al(CH_3)_3$	262
Selestin	$SrSO_4$	184
Selluloza	$[C_6H_7O_2(OH)_3]_n$	
Selluloza ksantogenati		
Selzian	$[Ba(Al_2Si_2O_8)]$	375
Sementit	Fe_3C	180
Serin	$CH_2(OH)-CH(NH_2)-COOH$	91
Sfen	$CaTiSiO_3$	164
Shavel kislota	HOOC-COOH	90
Shilliq kislota		

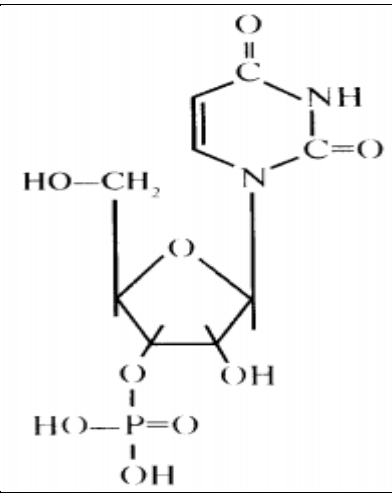
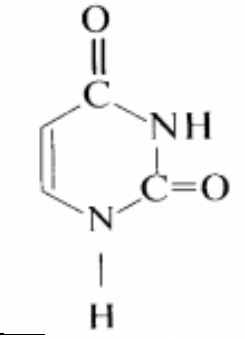
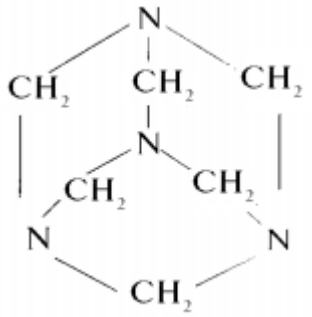
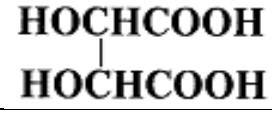
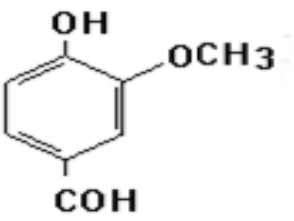
Shisha	$Na_2O•CaO•6SiO_2$	478
Shveyster reaktivi	$Cu(OH)_2$ning ammikdagi eritmasi	
Sian	CN	26
Siangidrin		
Siderit	$FeCO_3$	116
Siklo butan	C_4H_8 	56
Siklo pentan	C_5H_{10} 	70
Siklo propan	C_3H_6 	42
Siklogeksan	C_6H_{12}	84
Silan	SiH_4	32
Silvin	KCl	74,5
Silvinit	$NaCl \cdot KCl$	133
Sing’ka	$Na_2Al_2S_2O_4$	228
Sintez gazi	$CO+2H_2$	28+4
Sirka aldegid	CH_3CHO	44
Sirka aldegidmi metil asetali		
Sirka etil efiri	CH_3-$COOC_2H_5$	88
Sirka kislataning mazi	CH_3CONH_2	59
Sirka kislota angdriti	CH_3-C(O)-O-C(O)-CH_3	102
Sirka kislota oksimi	CH_3-CH=N-OH	59
Sirka kislotaning butil efiri	C_4H_9-O-C(O)-CH_3	116
Sistein		

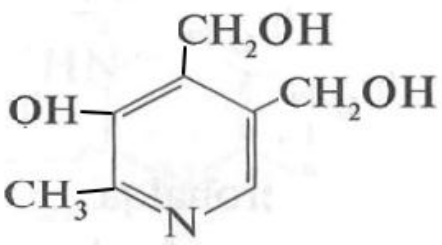
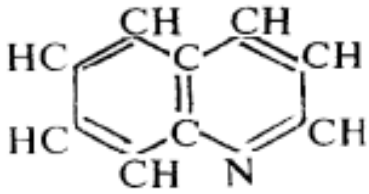
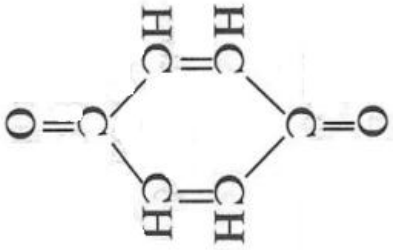
Sitozin		
Siydik kislata		
SMF		
So’ndirilgan ohak	$Ca(OH)_2$	74
Soda	Na_2CO_3	106
Sorbit	$CH_2(OH)(CH(OH))_4\ CH_2OH$	178
Sovun (qattiq)	$C_{17}H_{35}COONa$	306
Spodumen	$LiAl(SO_4)_2$	226
Stannan	SnH_4	123
Stearin	$C_{17}H_{35}COOH$	284
Stearin kislota	$CH_3\text{-}(CH_2)_{16}\text{-}COOH$	284
Stearin kislotaning triglitseriti (Tristearin)		890
Strontsianit	$SrCO_3$	148
Sulema	$HgCl_2$	272
Sulfat kislotaning metil efiri	$CH_3\text{-}O\text{-}S(O)_2\text{-}OH$	112

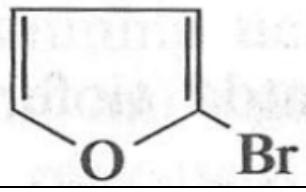
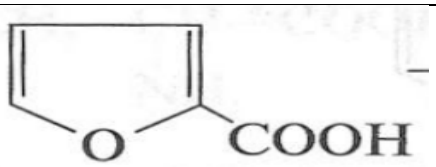
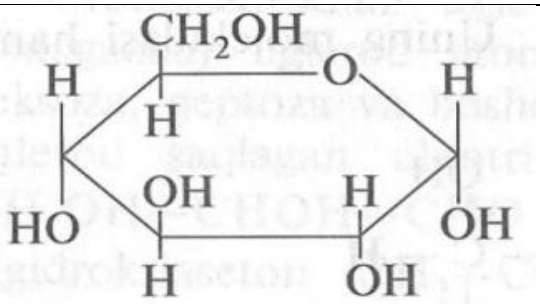
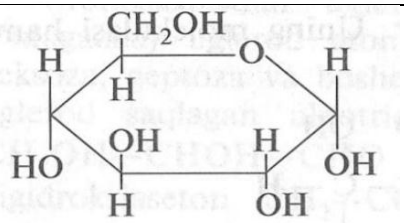
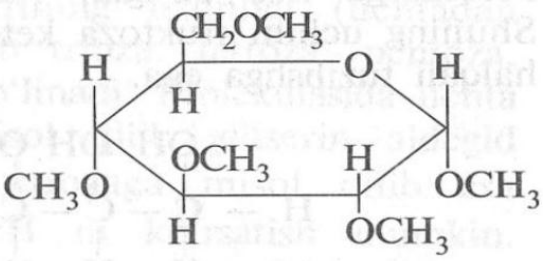
Sulfatli efir	$C_2H_5O\text{-}SO_3H$	126
Surik (xrom sarig')	$PbCrO_4$	323
Surma indiy	InSb	237
Surna alyuminiy	AlSb	149
Susal oltin	SnS_2	183
Sut kislota	$CH_3\text{-}CH(OH)\text{-}COOH$	90
Suv gazi	CO va H_2	
Suyak tolqoni	$Ca_3(PO_4)_2$	310
Suyak uni	$Ca_3(PO_4)_2$. $CaCO_3$	412
Tahir tuz	$Na_2SO_4 \cdot 7H_2O$	246
Talk	$3MgO \bullet 4SiO_2 \bullet H_2O$	378
Tanakor	$Na_2B_4O_7 \bullet 10H_2O$	382
Taxir tuz	$MgSO_4 \bullet 7H_2O$	246
Teflon	C_2F_4	100
Temir (II) kuporosi	$FeSO_4 \cdot 2H_2O$	188
Temir (II)geksa tsianofferoat	$K_4[Fe(CN)_6]$	368
Temir (II)-gidrosulg'fid	$Fe(SH)_2$	122
Temir (II,III)-geksatsianofferiat	$K_3[Fe(CN)_6]$	329
Temir (III) fenolyat		
Temir karbid yoki Tsementit	Fe_3C	180
Temir kolchedani	FeS_2	120
Teobromin		
Tetragidrofuran		

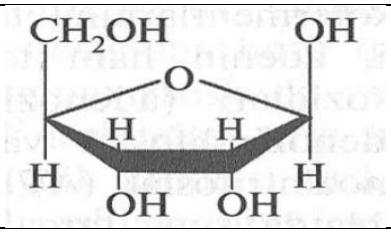
Tetrayodpirrol		
Tiazol	C_3H_3NS 	85
Timin		
Tiofen	C_4H_4S 	84
Tionil xlorid	$O=S(Cl)_2$	119
Tiopiran		
Tiotsionat kislota	HSCN	59
Tirozin		
Titan magnetitlari	$FeTiO_3 \cdot Fe_3O_4$	384
Titanul	TiO_2	
Toluol	$C_6H_5CH_3$	
Tortveytit	$(Y,Se)_2Sr_2O$	
Triakontan	$C_{30}H_{62}$	
Trietilamin	$(C_2H_5)_3N$	101

Triketoindan		
Trinitrotoluol		
Trioksimetilen		90
Triozonid		222
Triptamin		
Triptofan		
Trotil		
Tulki dumi	NO_2	46
Turibil ko’ki	$K_3[Fe(CN)_6]$	329
Tuyamunit	$CaO•2UO_2•U_2O_5•3H2O$	1280

Ulmanit	NiAsSb	256
UMF		
Uran qorasi	$(UO_2 \bullet UO)_2$	1572
Uranit	$(U_3Th)O_2$	502
Uratsil		
Urotropin; Geksametilendiamin	 $(CH_2)_6N_4$	140
Uzum kislota		150
Uzum shakari	$C_6H_{12}O_6$	180
Valerian kislota	C_4H_9COOH	
Valerian kislota	C_4H_9COOH	102
Vanilin		
Villemit	$Zn_2SiO_4 \cdot H_2O$	242
Vinil radikali	$CH_2=CH-$	

Vinilbenzol	$CH_2=CH-C_6H_5$	104
Vinilbenzol, stirol,	$CH_2=CH-C_6H_5$	104
Vinilefir	$CH_2=CH-O-R$	
Vinilxlorid	$CH_2=CH-Cl$	
Vino spirti	C_2H_5OH	46
Vitamin B6		
Viterit	$BaCO_3$	197
Vizinal	Alkanlarda galogen atomlari ikki qo'shni atomga birikkan xosila	
Vodorod peroksid	H_2O_2	34
Vulg'ferin	$PbMoO_4$	367
Xalg'kopirit (mis klchedani)	$CuFeS_2$	184
Xalkopirit	$Cu_2S•Fe_2S_3$	368
Xalkozen (mis yaltirog'i)	Cu_2S	160
Xinolin		
Xinon		108
Xlor kristal gidrat	Cl_2*8H_2O	215
Xloral	Cl_3C-COH	
Xloralgidrat	$Cl_3C-CH(OH)_2$	
Xlorli ohak	$CaOCl_2$	127
Xloroform	$CHCl_3$	119,5
Xloropren	$CH_2=C(Cl)-CH=CH_2$	88,5

Xrom kaliyli achchiqtosh	$K_2SO_4 \cdot Cr_2(SO_4)_3 \cdot 24H_2O$	998
Xromit	$Fe(CrO_2)_2$	224
Xromli temirtosh	$Fe(CrO_2)_2$	224
Xromtemirtosh	$FeO \cdot Cr_2O_3$	224
Yodargirit	AgJ	235
Yodat angidridi	J_2O_5	334
Zar suvi	$3HCl \cdot HNO_3$	172.5
Zargarlik tanakori	$Na_2B_4O_7 \cdot 5H_2O$	292
Zumrad	$[3BeO \cdot Al_2O_3 \cdot 6SiO_2]$	537
α-bromfuran		
α-brompropion kislota	CH_3-CH(Br)-COOH	153
α-furilkarbon kislota		
α-glukopiranoza		
α-glukopiranoza		
α-penametil glukopiranoza		

β-D-ribofuranoza		

Imtihon taassurotlari uchun maxsus joy!!!
Hohlasen imtihon paytda yoz.

Hamma ayb bollardaaaa!!!!!!!!!