

Mavzu: Kislotalarning olinishi va xossalari

Toshkent shahar Uchtepa tuman 229-maktab
kimyo fani o'qituvchisi Narbayeva F.K.



« Bilimlar hovuzchasi »



Kislotalarni guruhlarga
ajrating!

« Ortiqchasini toping! »

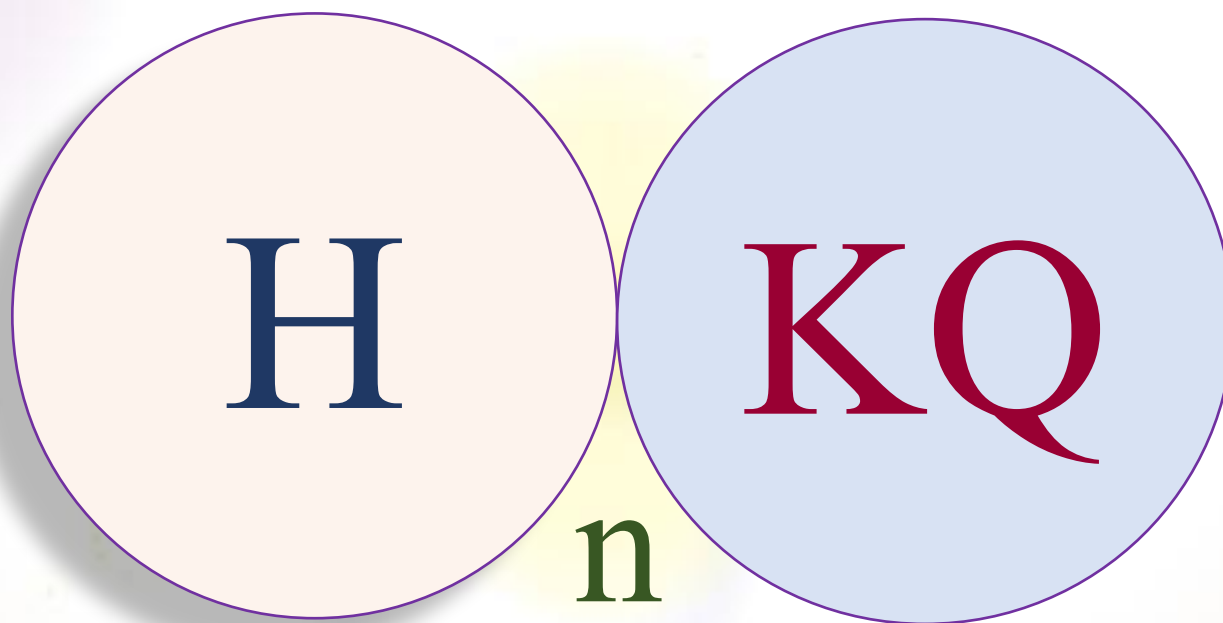
- HCl , HNO_3 , HNO_2 , H_2SiO_3
- HNO_3 , H_2CO_3 , H_2SO_4 , H_2S
- HBr , H_2CO_3 , HCN , HCl



Sizing fikringiz?

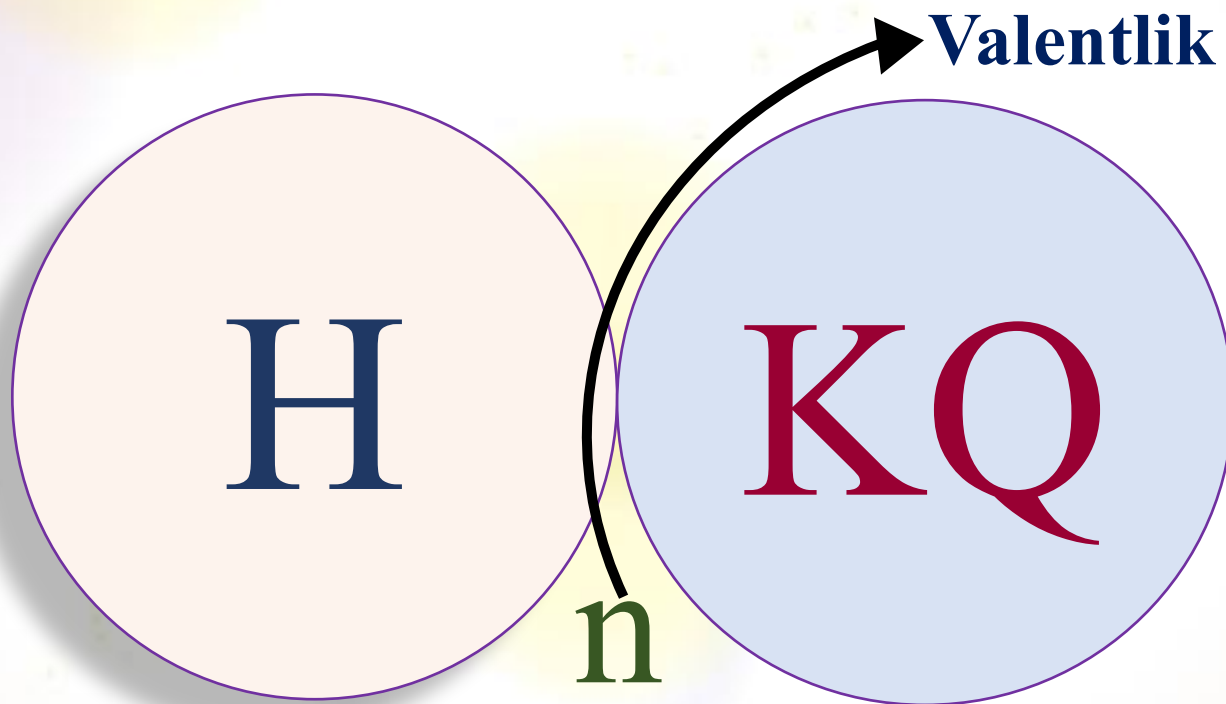


Kislotalarning tarkibi:



KQ – kislota qoldig'i

Kislotalarning tarkibi:



KQ – kislota qoldig'i

Mavzu rejasi:



Kislotalarning olinishi;

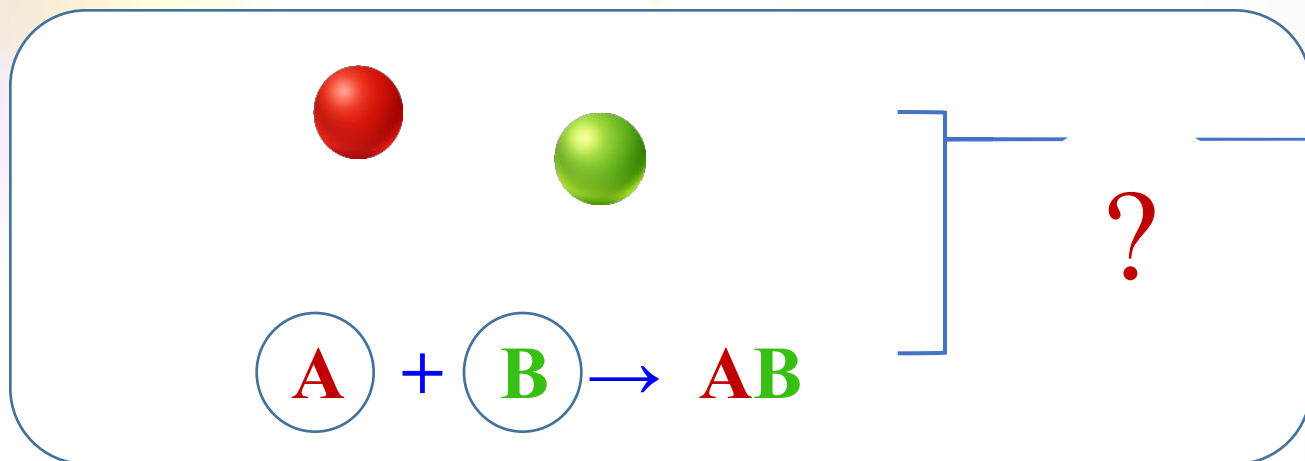


Kislotalarning fizik xossalari;

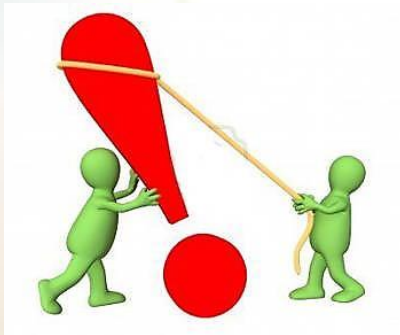
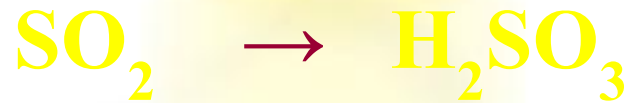


Kislotalarning kimyoviy xossalari.

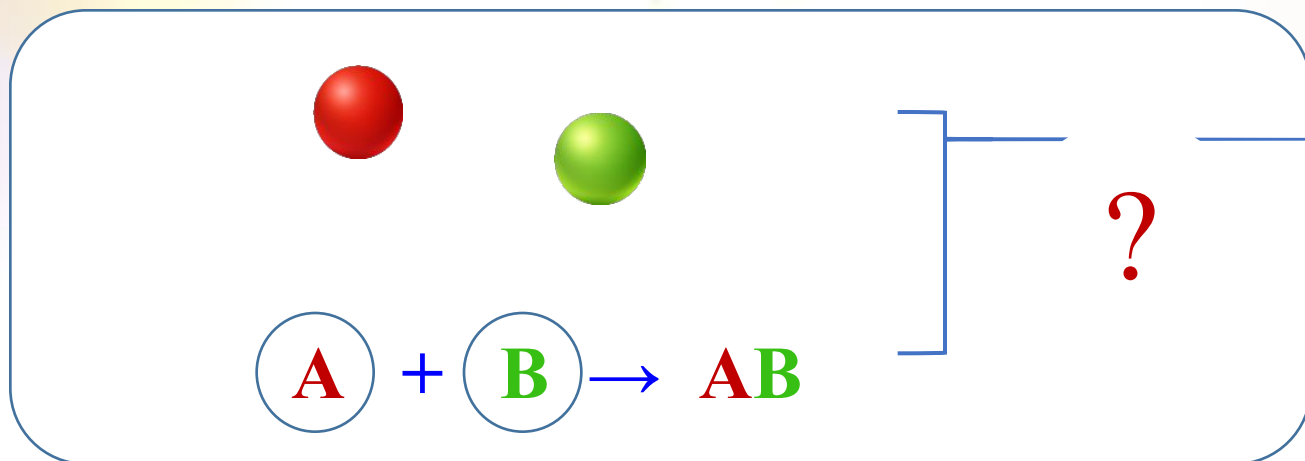
Kislotalarning olinishi



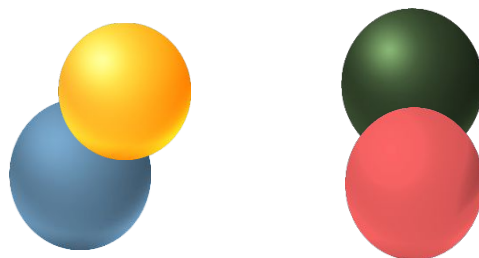
Kislotali oksidga mos keladigan kislotalar formulasi



Kislotalarning olinishi



Kislotalarning olinishi



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(Xlorid kislota)

Kislotalarning fizik xossalari



Kislotalar

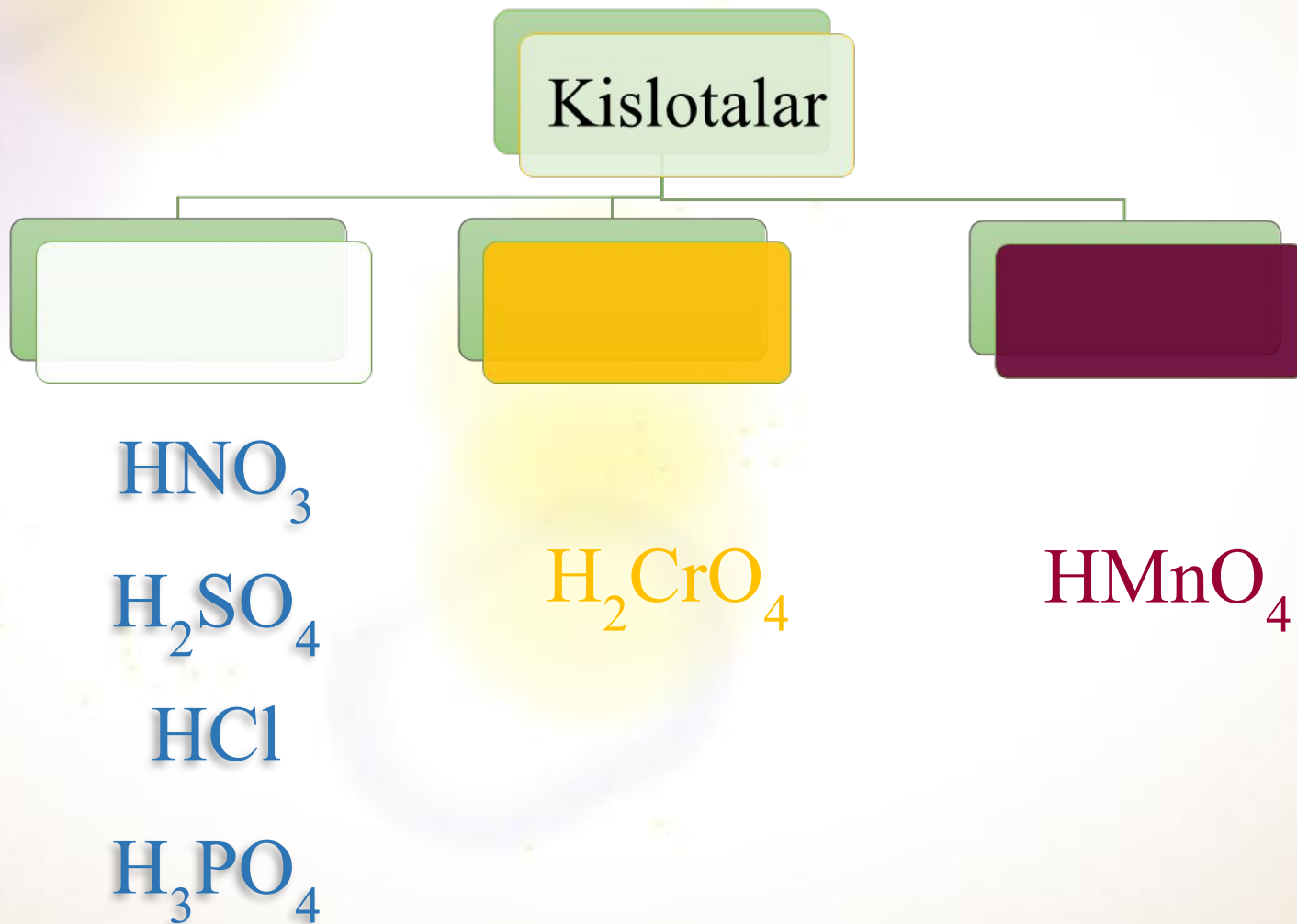
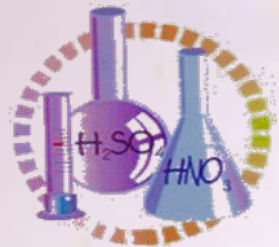
Suvda eriydigan



Suvda erimaydigan



Kislotalarning fizik xossalari



Kislota bilan ishlaganda amal qilinadigan qoidalar



Kislota bilan ishlaganda amal qilinadigan qoidalar

- **Hidlamaslik!**
- **Tatib ko'rmasslik!**
- **Ko'zga tushishiga yo'l qo'ymaslik!**
- **Teriga tushishiga yo'l qo'ymaslik!**
- **To'kib qo'ymaslik!**

Shilliq qavatning kuyishiga olib keladi

Terini, matoni, qog'ozni, yog'ochni yemiradi

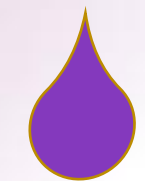
Kislotalarning kimyoviy xossalari



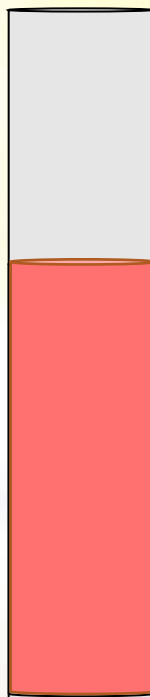
Indikator bilan kislotalarning taʼsiri.

Kislotalarning kimyoviy xossalari

Lakmus



Metilzarg'aldog'i



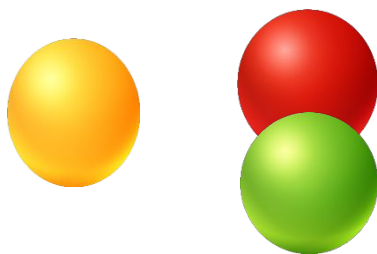
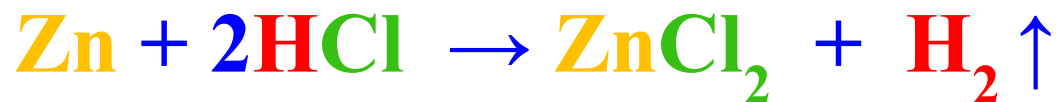
Fenolftalein



Kislotalarning kimyoviy xossalari

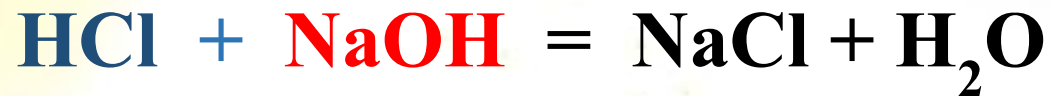
Metallarning faollik qatori

Li K Ba Ca Na Mg Al Zn Fe Sn Pb H Cu Hg Ag Pt Au

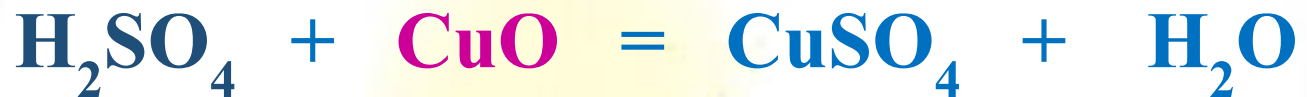


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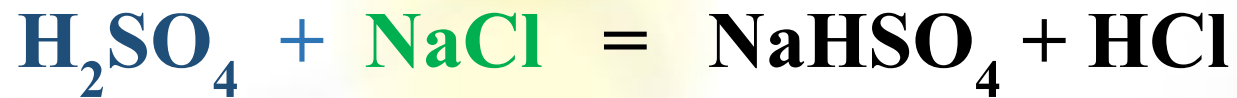
Kislotalarning kimyoviy xossalari



asos



asosli oksid



tuz

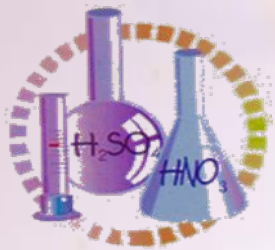


“Yashirilgan” kislota nomini toping.



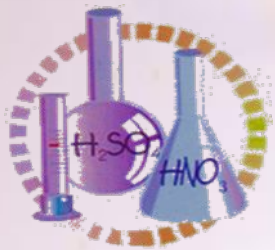
Turlar Murakkab moddalar	Asos	Kislota	Oksid
P_2O_5			
$Al(OH)_3$			
H_2SO_4			
$NaOH$			
HCl			

Jadvalni to'ling!



Indikator nomi	Neytral eritmadagi rangi	Kislota eritmasidagi rangi
Lakmus	Binafsha	?
Fenolftalein	Rangsiz	?
Metil zarg'aldog' i	Zarg'aloq	?

Jadvalni to'ling!



Indikator nomi	Neytral eritmadagi rangi	Kislota eritmasidagi rangi
Lakmus	Binafsha	Qizil
Fenolftalein	Rangsiz	Rangsiz
Metil zarg'aldog'i	Zarg'aldoq	Qizil

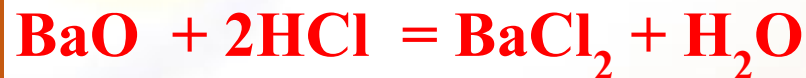
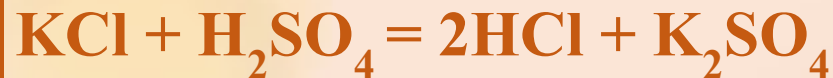
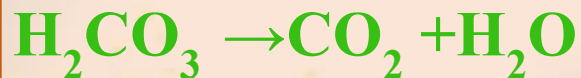
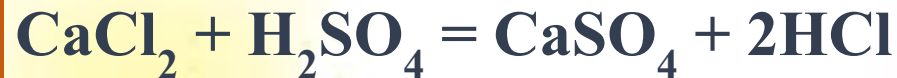
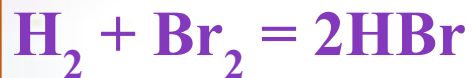
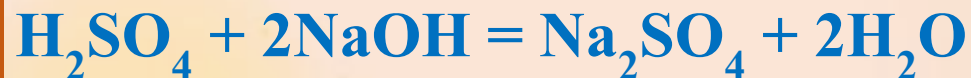
Jadvalni to'ldiring!

Quyidagi reaksiyalarni davom ettiring:



Jadvalni to'ldiring!

Quyidagi reaksiyalarni davom ettiring:



Laboratoriya ishi

- ✓ Kislota olish;
- ✓ Neytrallanish reaksiyasi;
- ✓ Kislotalarning indikatorlar bilan ta'siri.



Uyga vazifa:

- 120- betdagi savol va topshiriqlarga javob yozish;



- 117-120-betlarni o'qish ;





E'tiboringiz uchun rahmat!