

Calculate the molar mass of $Ca CO_3$.

- ① 120 g/mol
- () 87 g/mol
- 50 g/mol
- 100 g/mol





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MKCL OES

Chemistry_FT_Sem1_2019

Total questions in exam. 40 | Answered: 31

Question No. 37

The conjugate acid of HSO4 is

4 H₂SO₄
 4 HSO₄⁺
 4 H⁺

6 SO42



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Question No. 38

What is the equilibrium constant expression for the following reaction? $2 \operatorname{CH}_4(g) + \operatorname{O}_2(g) \rightleftharpoons 2 \operatorname{CO}(g) + 4 \operatorname{H}_2(g)$

- $K_{c} = [CO]^{2} [H_{2}]^{4} / [CH_{4}]^{2} [O_{2}]$ $K_{c} = [CH_{4}] [O_{2}] / [CO] [H_{2}]$ $K_{c} = [CO] [H_{2}] / [CH_{4}] [O_{2}]$
- $\bigcirc Kc = [CH_4]^2 [O_2] / [CO]^2 [H_2]^4$



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are the most reactive hydrocarbons.

- O Cycloalkanes
- Alkenes
- Alkynes
- () Alkanes

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Question No. 40

Which of the following solutions is "acidic"?

 $\bigcirc [H_3O^+] = 1.00 \times 10^{-3} M$ $\bigcirc [H_3O^+] = 1.00 \times 10^{-8} M$ $\bigcirc [H_3O^+] = 1.00 \times 10^{-7} M$ $\bigcirc [H_3O^+] = 1.00 \times 10^{-9} M$



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Question No. 3					
The oxidation	number of phos	phorus in PF3	18		
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MKCL OES	Chemistry_	FT_Sem1_2019
Total questions in exam 40 Answered 25		
uestion No. 31		A A
nalysis of an unknown substance showed that it has a high l eifed. Which of the following substances would have those o	boiling point and is brittle. It is an insulate characteristics?	tor as a solid but conducts electricity when
ßr		
ici		
0		

acid

Question No. 33

The correct name for the acid HCI is _____

O hydrogen chloride

O hydrogen chlorate

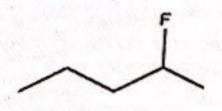
() hydrochloric

O hydrogen chlorite



Question No. 34

Provide the name of the compound below.



- 2-fluoro-2-methylpentane
- U 4-fluoro-4-methylbutane
- 2-fluoro pentane
- 4-fluoro pentane



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Question No. 35

A chemical equation is balanced when

- the total number of molecules is the same in reactants and products.
- O the number of atoms of each element is the same in reactants and products.
- Ine total number of ions is the same in reactants and products.
- 10 the sum of the coefficients of the reactants is equal to the sum of the coefficients of the products.





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Total questions in exam: 40 | Answered: 27

Question No. 32

Consider the reaction below at equilibrium. What is the effect of reducing volume on the system ?

 $CuS(s) + O_2(g) \rightleftharpoons Cu(s) + SO_2(g)$

O The equilibrium constant will increase.

The equilibrium constant will decrease

No effect will be observed

O The reaction will shift to the right in the direction of products.

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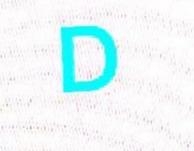
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When the temperature is decreased on the following system at equilibrium: $HCl_{(aq)} + Mg_{(s)} \rightleftharpoons MgCl_{2(aq)} + H_{2(g)} + heat$

- None of these choices is true
- O the reaction shifts left to restore equilibrium
- No change occurs
- O the reaction shifts right to restore equilibrium An order of the second se

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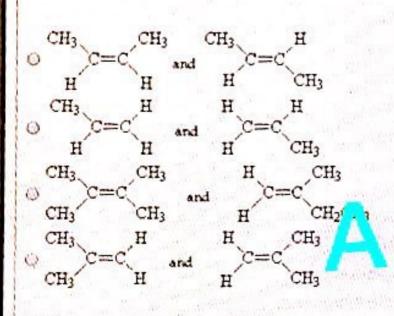
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MKCL OES

Total questions in exam: 40 | Answered: 22

Question No. 25

Which of the following pairs of compounds are cis-trans isomers?



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Chemistry_FT_Ser

Question No. 24

What is the empirical formula of the compound that has a composition by mass of 13.6% C and 86.4% F?

- O CF4
- O CF
- ⊙ C₂F₂
- 0 C2F3



Mitty OF S Commission Commission 2011

How many Iron (Fe) atoms are contained in 354 g of iron?

2.13 × 1026 Fe atoms
3.82 × 1024 Fe atoms
2.62 × 1025 Fe atoms
4.69 × 1024 Fe atoms



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50% COES Examination version 2.0.01.

Question No. 28

Identify the conjugate acid in the following reversible reaction. HF(aq) + HSO₃ (aq) ↔ F (aq) + H₂SO₃(aq)

- O H2SO3(aq)
- O HF(aq)
- O HSO3-(aq)
- F (aq)





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Question No. 29

If 180.0 g of NaOH are dissolved in enough water to make 2.50 L of solution, what is the molarity of this solution?

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Question No. 27

What is the motarity of HCI in the final solution when 100 mL of a 12 M HCI solution is diluted with pure water to a total final volume of 0.12 L?

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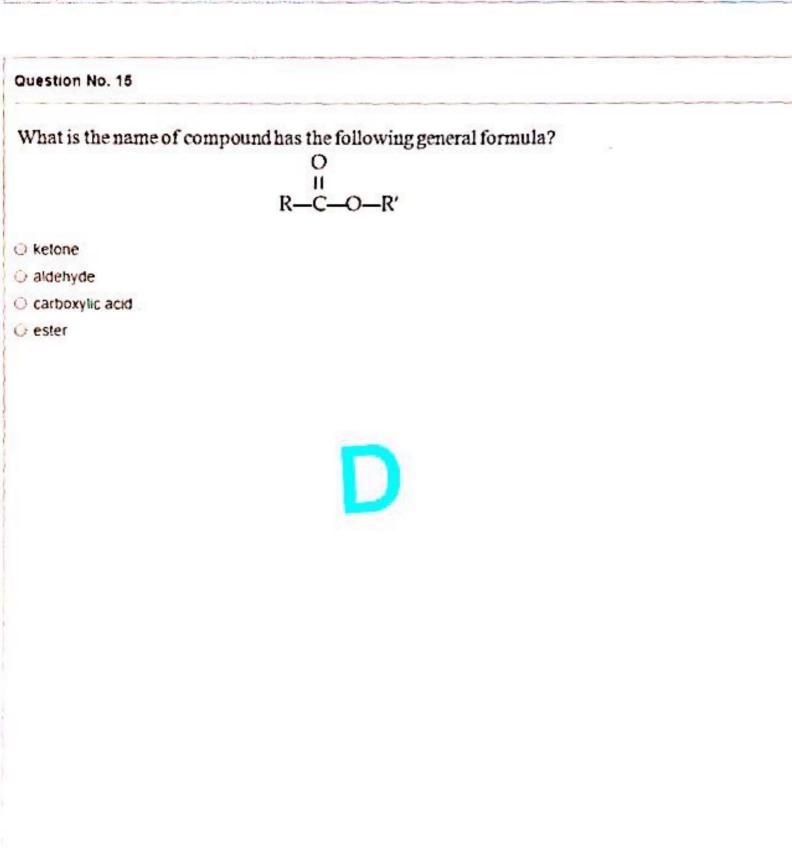
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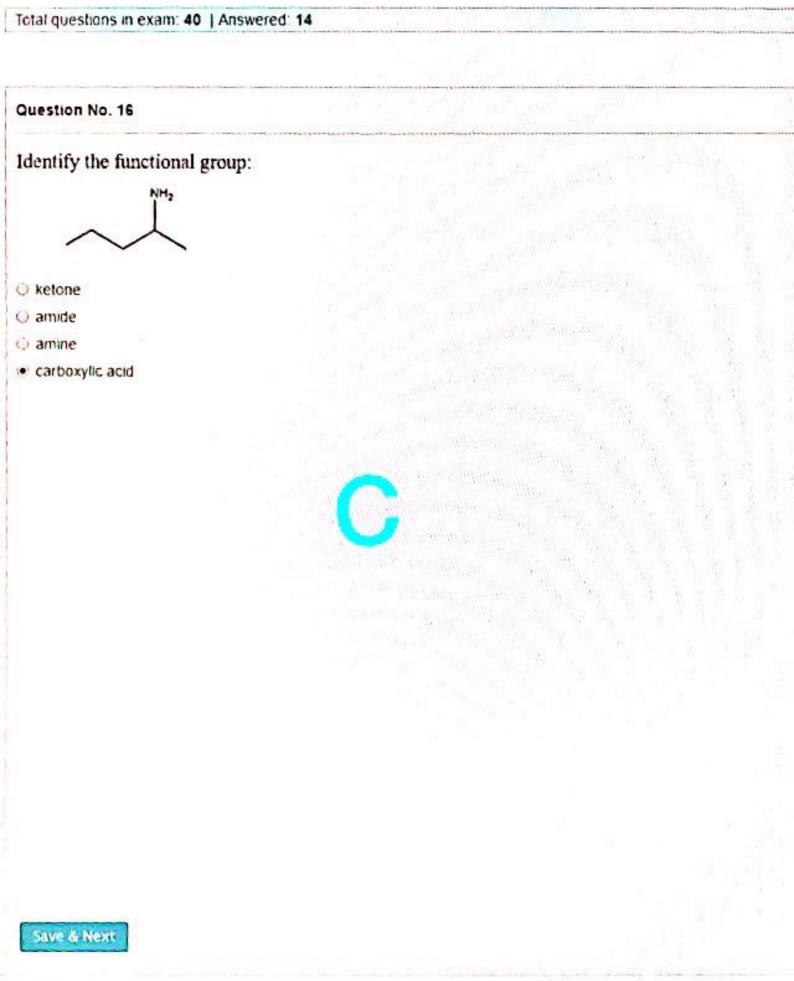






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Organic compounds with the general formula R-O-R (where R is an alkyl group) are called _____

O aldehydes

- O carboxylic acids
- amines
- O ethers





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[
H22O11. What is the mass percent of carbon in sucrose?	

○ 62.8 %
○ 6 5 %

0 51.4 %

0 42.1 %



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MKCL OES

Chemistry_FT_Sem

Total questions in exam: 40 | Answered: 19

Question No. 14

Determine the value of K_c for the following reaction if the equilibrium concentrations are as follows: [HCl]eq = 0.13 M, [HI]eq = 5.6×10^{-16} M, [Cl₂]eq = 0.0019 M. 2 HCl(g) + I₂(s) \rightleftharpoons 2 HI(g) + Cl₂(g)

- 3.5 × 10-32
- 1.4 × 10-19
- © 2.9 × 1031
- 1.2 × 1017

Next



Question No. 19

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Which of the following compounds is a weak acid.

- O HF
- O HNO,
- HCI
- HBr



Statut - England Sant Intern

What class of hydrocarbons has the general formula CnH2n?

O aromatics

alkanes

both alkenes and cycloalkanes

alkynes

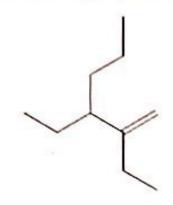


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Question No. 21

Name the following organic compound:



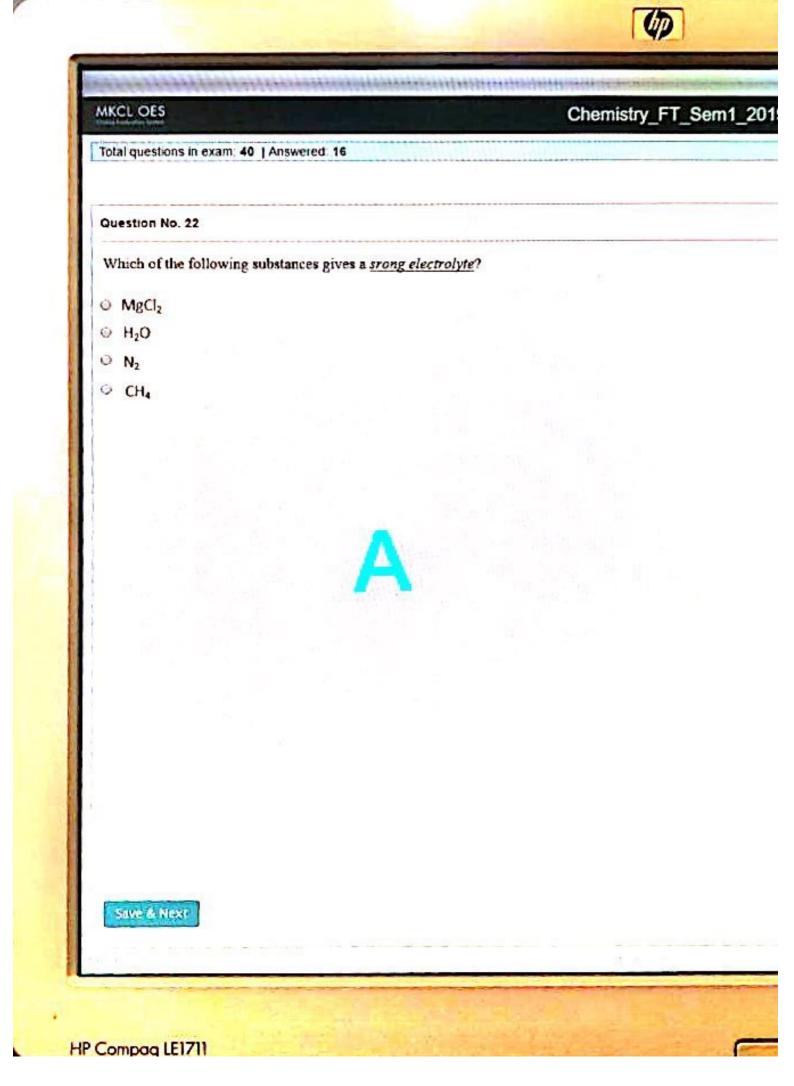
- Q 2,3-diethyl-1-hexyne
- O 2,3-diethyl-1-hexene
- 4-ethyl-3-methyleneheptane
- 2-ethyl-3-propyl-1-pentene

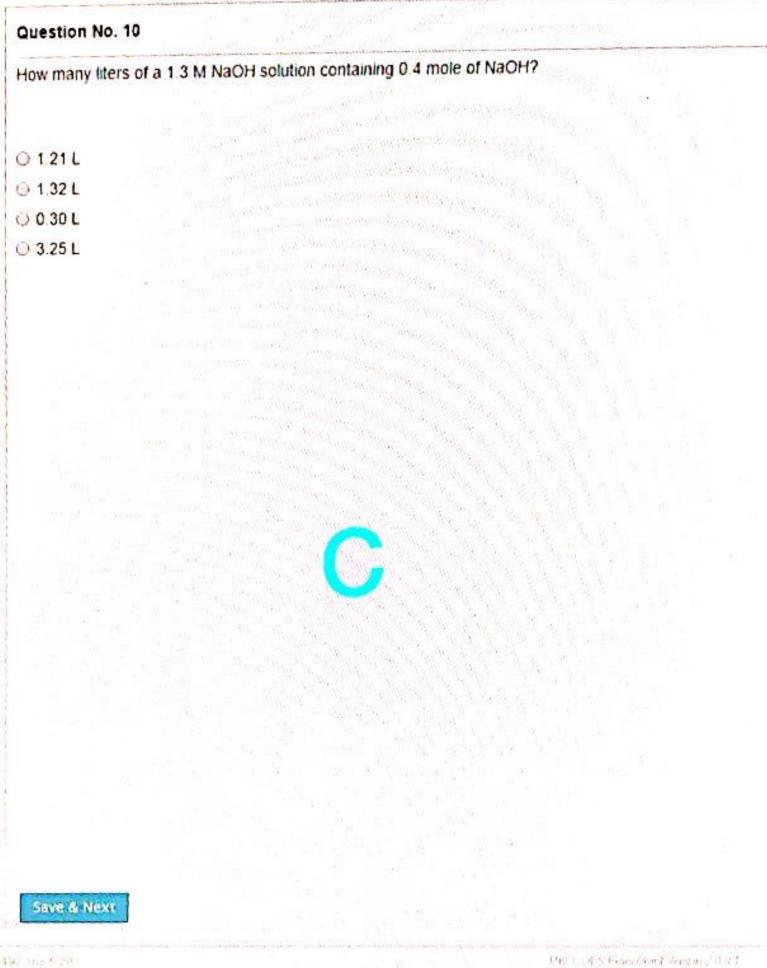




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Total questions in exam 40	Answered: 7
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Question No. 11	
What is the name of compound shown below?	
O aniline	
Denzene	
O toluene	

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lotal question	ns in exam. 40	Answered: 7			
Question No	. 12				A
Which of the carbon?	he following i	s the electron d		vis structure) for an atom of	
	(a) C·	(p) . Ċ .	(c) · C ·	(d) :C:	
(b)					
) (a)					
(b)					
) (c)					
			-		
				-	
Sale 6 Nex	ti l				
					V = II

Chemistry_FT_Sem1_2

Total questions in exam: 40 | Answered: 7

Question No. 13

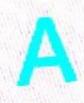
If a rain-water sample has a pH = 5.8, this sample is

O weakly acidic

Strongly acidic

weakly basic

O neutral



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MKCL OES

Chemistry_

Total questions in exam: 40 | Answered: 4

Question No. 5

Lewis Acid is defined as _____.

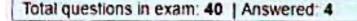
- o an electron pair acceptor
-) an electron pair donor
- O Produces OH ions in an aqueous solution
- a proton acceptor



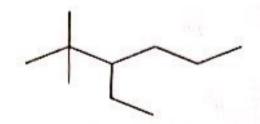


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Provide the name of the compound below.



- 4-ethyl-5,5-dimethyl hexane
- O 2-methyl-3-ethyl hexane
- O 3-ethyl-2,2-dimethyl hexane
- © 4-ethyl-2,2-dimethyl hexane





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Question No. 6

In the reaction below, what is the theoretical yield in grams for B₂H₆ when 5 moles of BF₃ react with 4 moles of NaH?

 $8BF_3 + 6NaH \rightarrow 6NaBF4 + B_2H_6$

and the second

28.5 g
 9.5 g
 12.5 g

Q 17.3 g

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Table				
Question No. 9				
How many grams of CO ₂ react with oxygen gas acc	could be produced when 44 grams of C ₃ H ₂ COOH complete ording to the reaction? C ₃ H ₂ COOH+5O ₂ → 4CO ₂ + 4H ₂ O	чly		
) 133 g				
) 22 g				
) 44 g				
) 88 g				
Save & Next				

MKCLOES	Chemistry_FT_Sem1_2019
Total questions in exam 40 Answered: 7	
Question No. 8	

When the substances in the equation below are at equilibrium, at pressure P and temperature T, the equilibrium can be shifted to favor the products by

$$CuO(s) + H_2(g) \rightleftharpoons H_2O(g) + Cu(s) + Heat$$

adding more CuO

increasing the pressure.

decreasing the pressure.

decreasing the temperature



Save & Next

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PAKEL OES Examplient Version 2.0.0 1

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Total questions in exam: 40 | Answered: 0

Question No. 1 A double covalent bond contains _____ shared electrons. O four 2 O one O two () three State and State Save & Next

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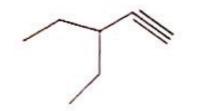
MKCL OES

Chemistry_I

Total questions in exam: 40 | Answered: 1

Question No. 3

Name the following compound:



- ③ 3-ethyl-1-pentyne
- 3-ethyl-2-pentyne
- 3-ethyl-4-pentyne
- 3-ethyl-5-pentyne





that I SHES from David combines,

Total questions in exam: 40	Answered: 1
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Question No. 4

What is the oxidation number of sulfur in SO_3^{2-} ?

- O +6
- 0 -2
- O +2
- O +4



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Total questions in exam: 40 | Answered: 1

Question No. 2

The most correct name for the compound N2O3 is:

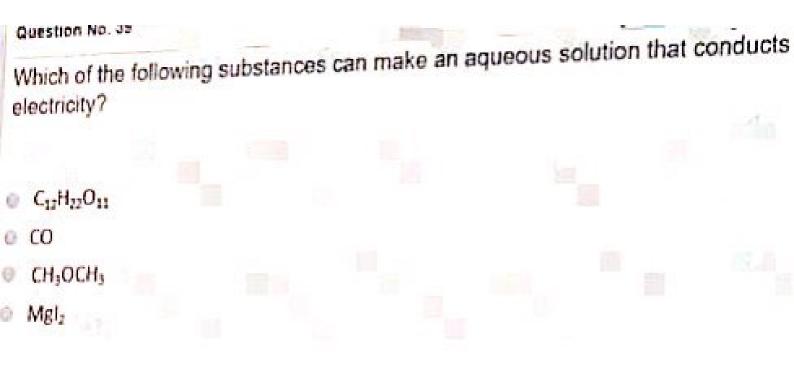
- O dinitrogen tetraoxide
- O mononitrogen trioxide
- 😔 dinitrogen trioxide
- O nitrogen oxide

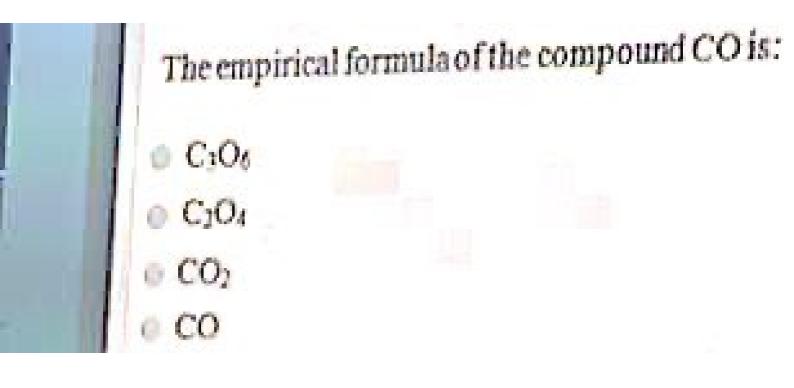
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Select the element whose Lewis dot symbol is correct.

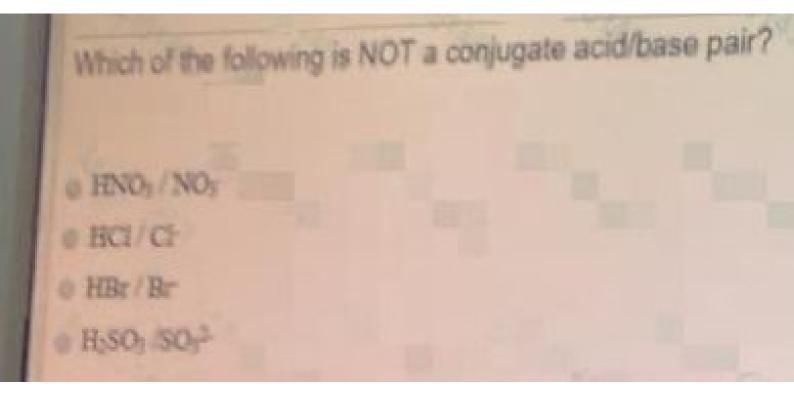




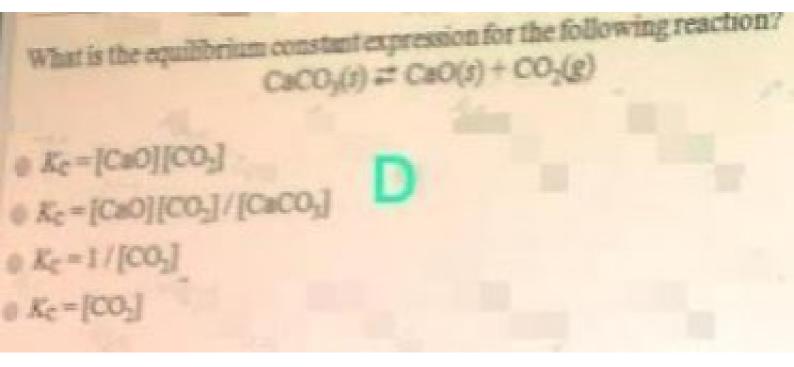


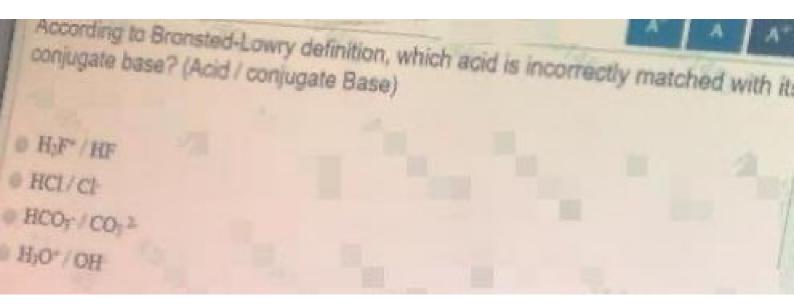
How many hydrogen atoms are there in "pentane" ?

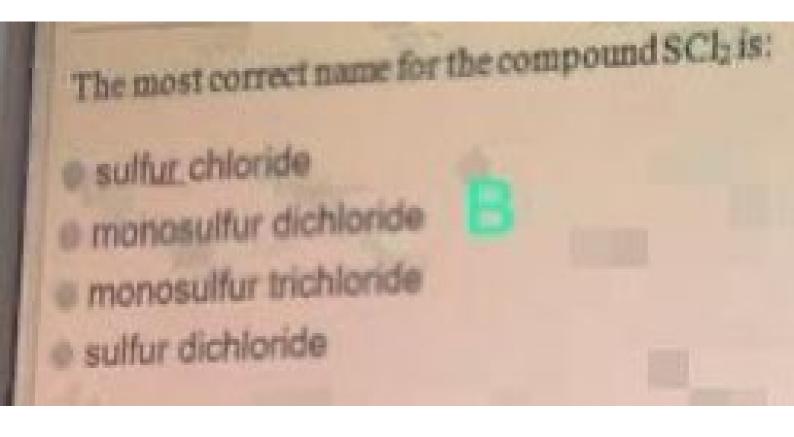


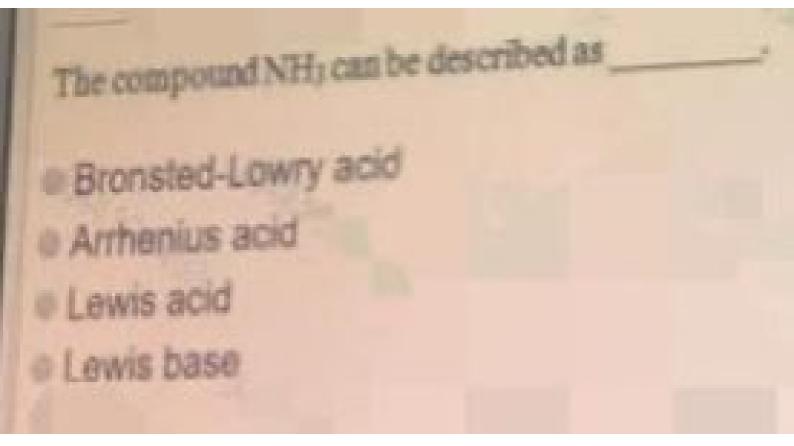


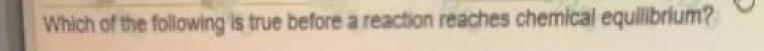




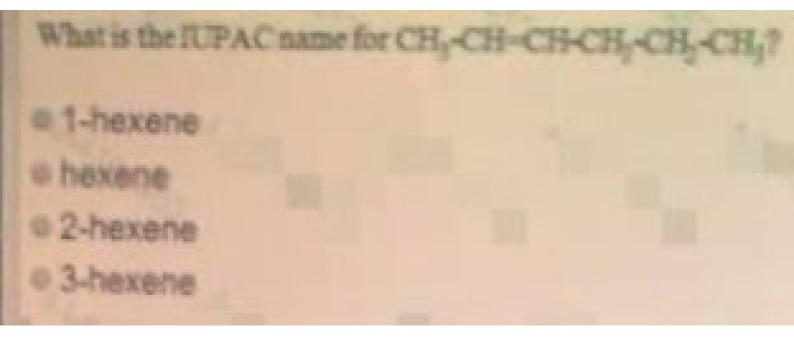


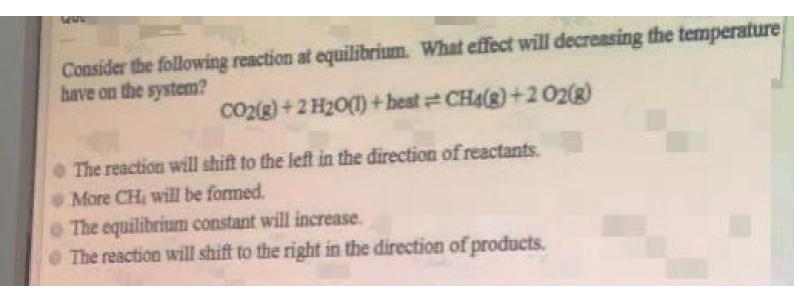




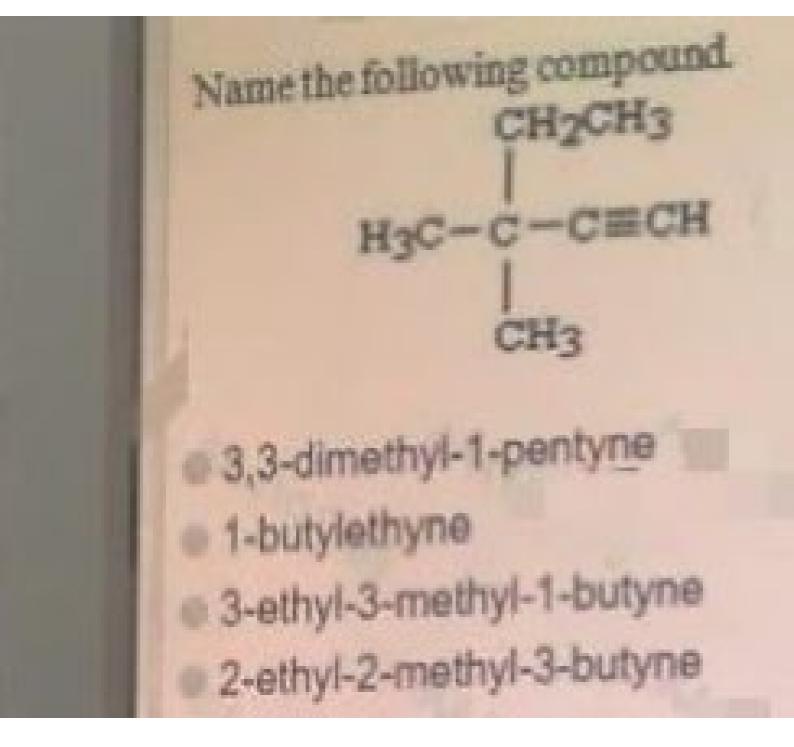


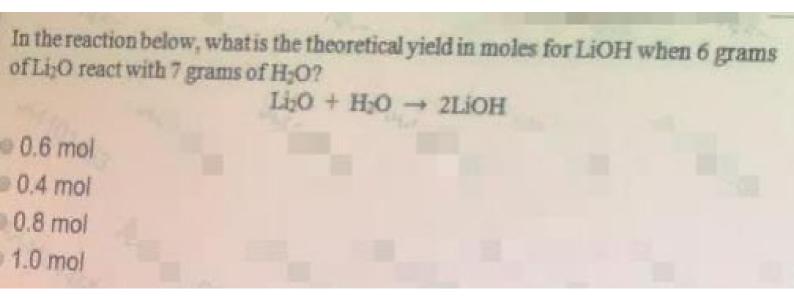
- The rates of the forward and reverse reactions are decreasing.
- The rates of the forward and reverse reactions are increasing.
 - The rate of the forward reaction is decreasing, and the rate of the reverse reaction is increasing.
 - The rate of the forward reaction is increasing, and the rate of the reverse reaction is decreasing.

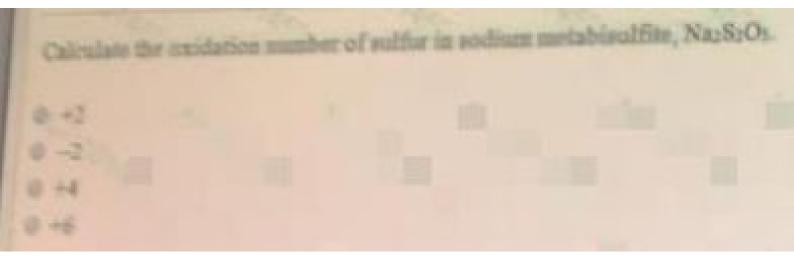


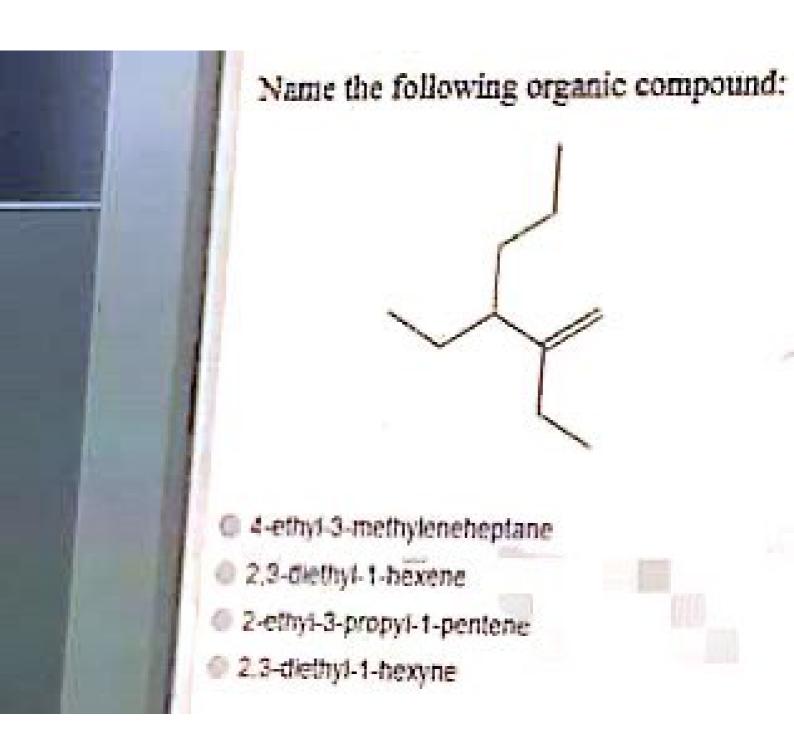


Calculate the molar mass of potassium chloride, KCI. 54.5 g/mol 74.6 g/mol 67.4 g/mol

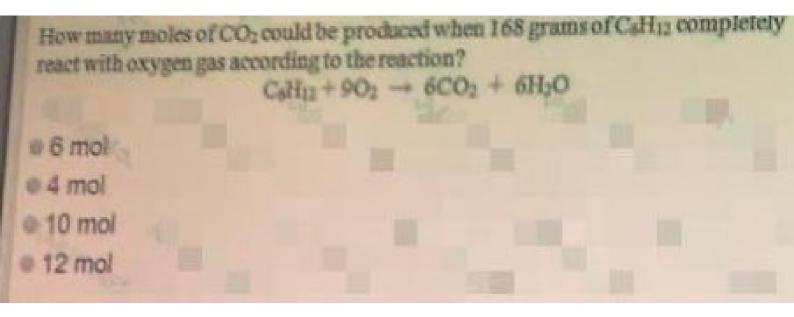


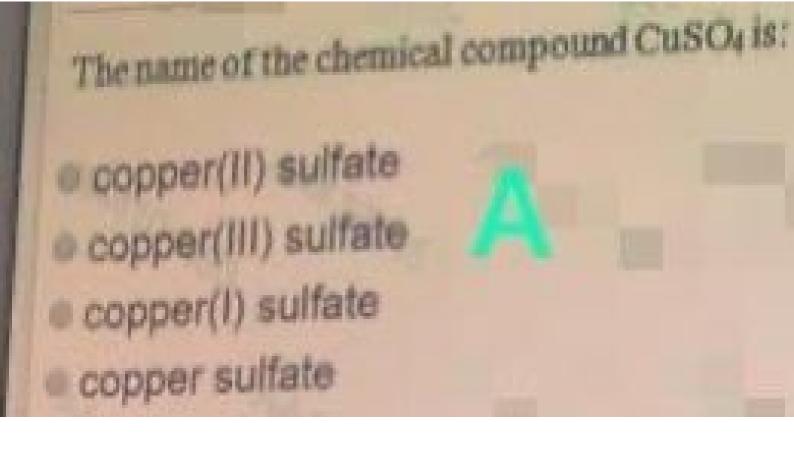


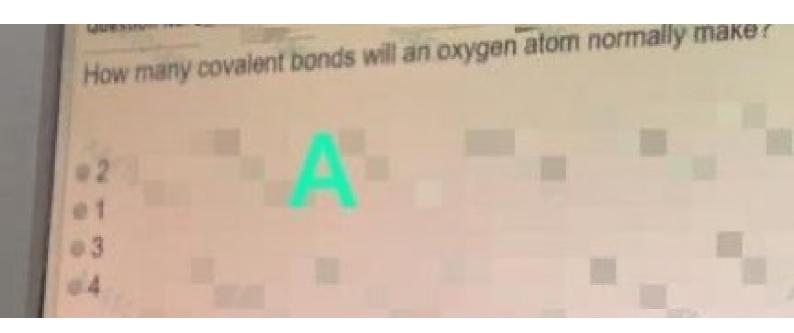


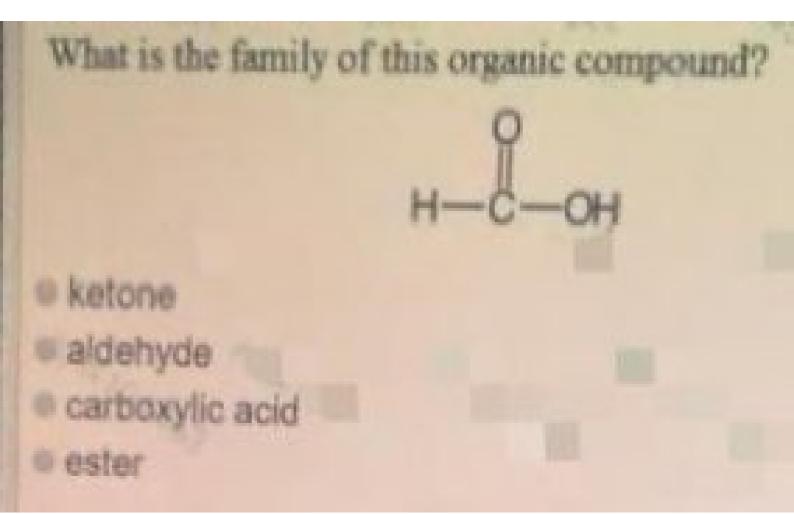


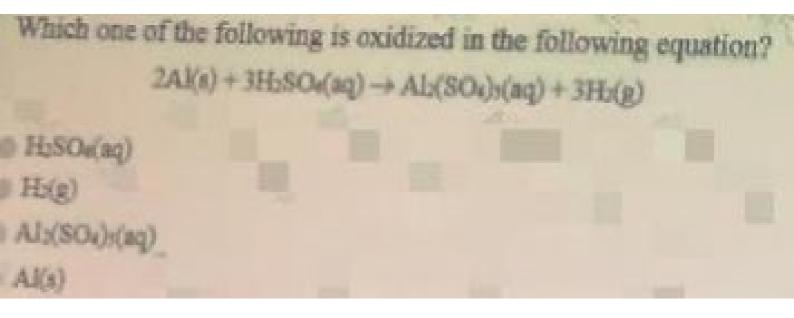
Provide the name of the compound below. CH₃ CH₂CH₃ CH3CH2CH2 CH3 CH2CH3 3-ethyl-4,4-dimethylpentane 1,1-diethyl-2,2-dimethylpentane 5-ethyl-4-methylheptane 3-ethyl-4,4-dimethylheptane

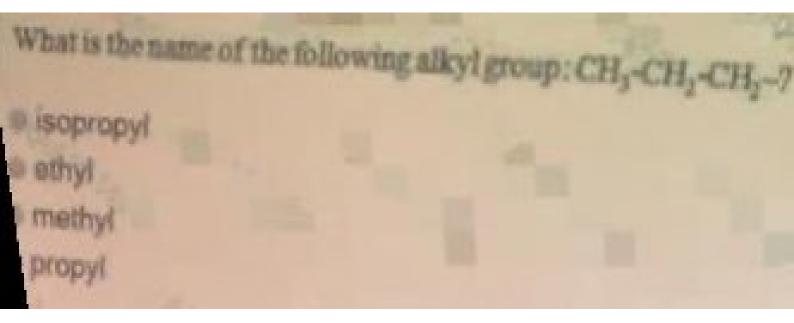


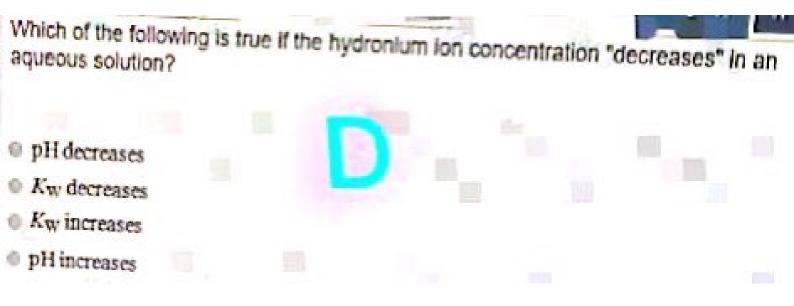


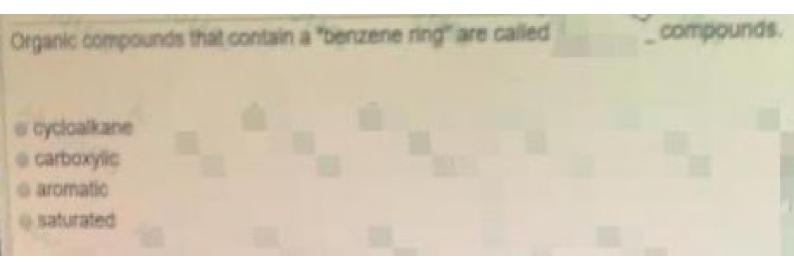


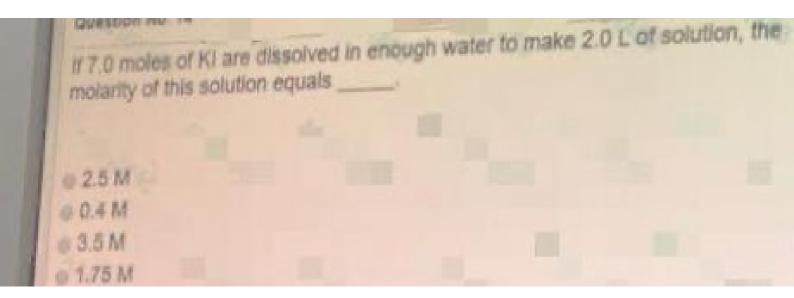






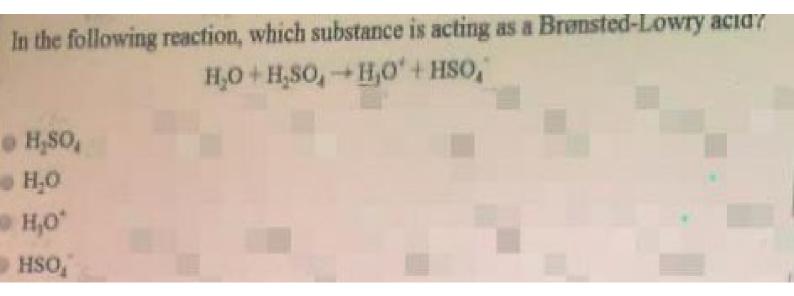


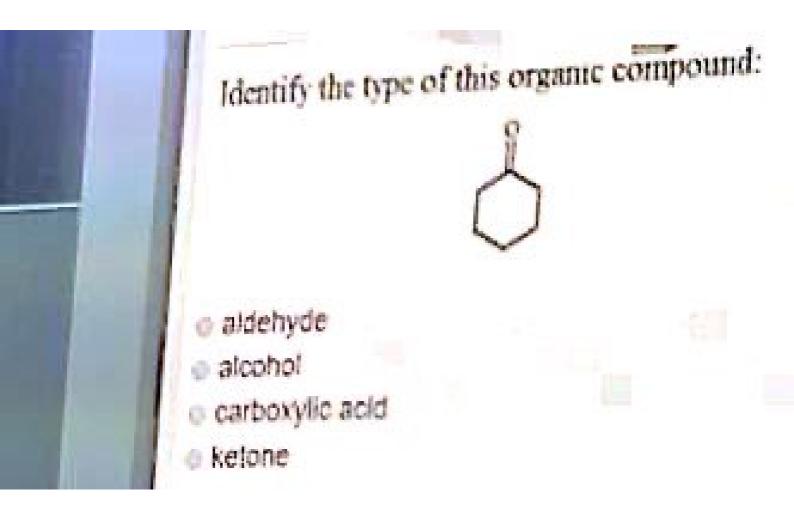


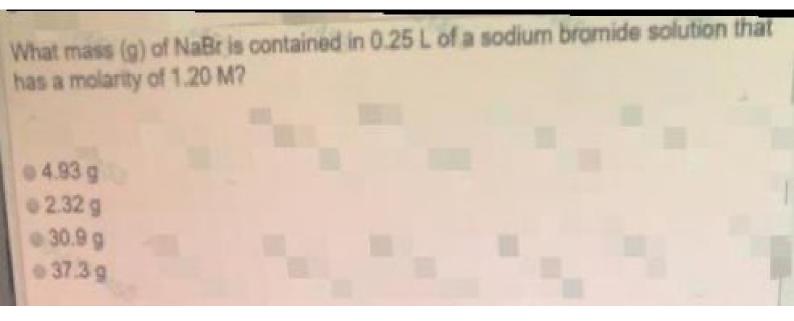


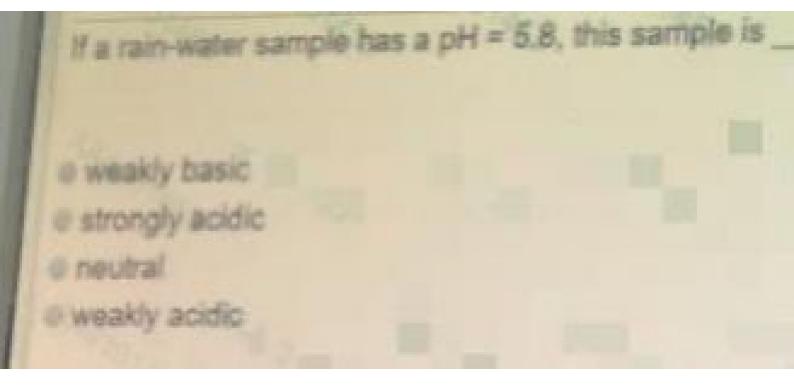
Provide the name of the compound below.

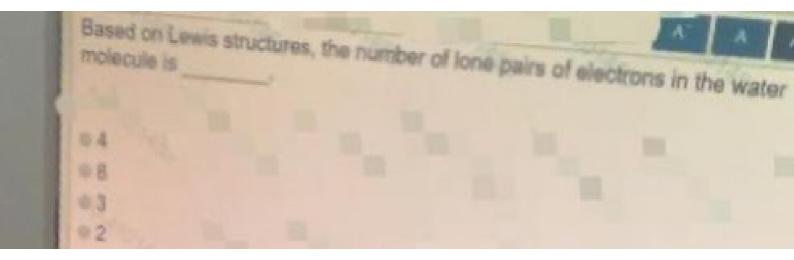
methylcyclopentane ethylcyclopentane methylcyclopentane

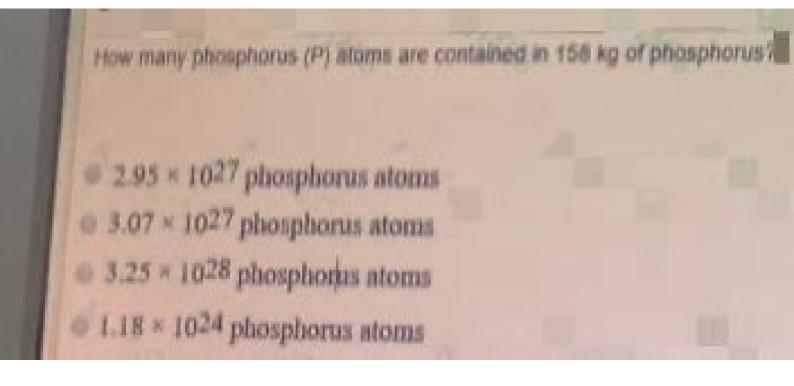


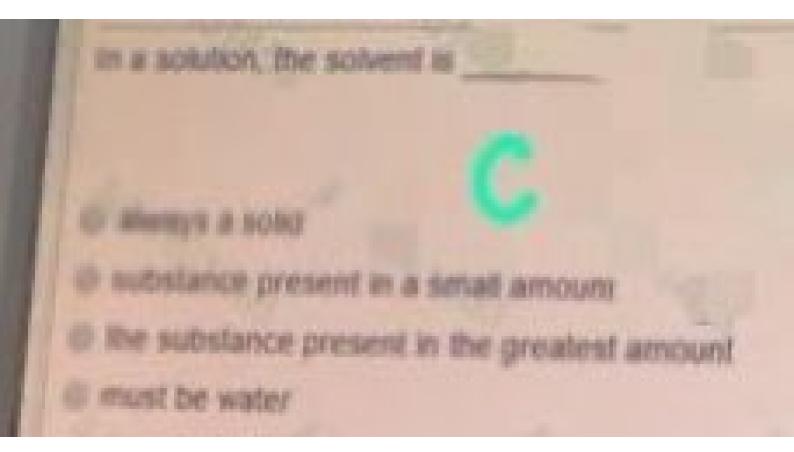


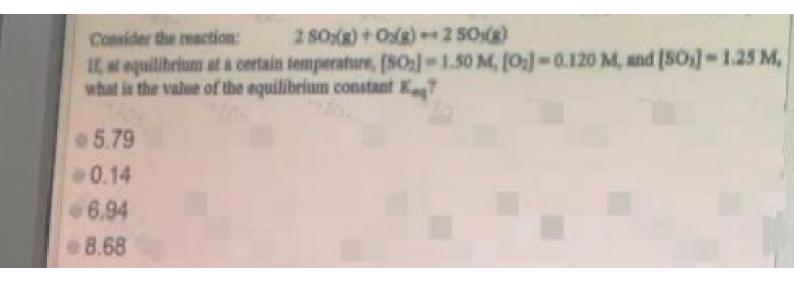


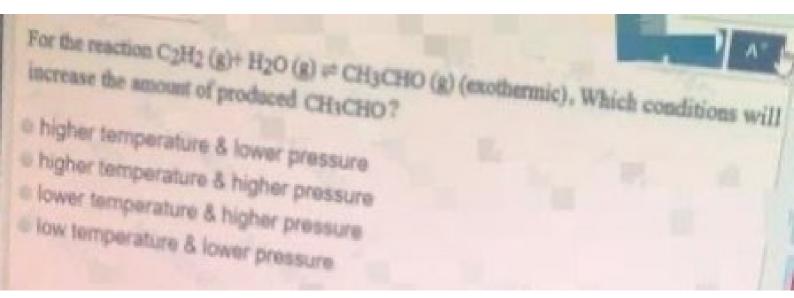


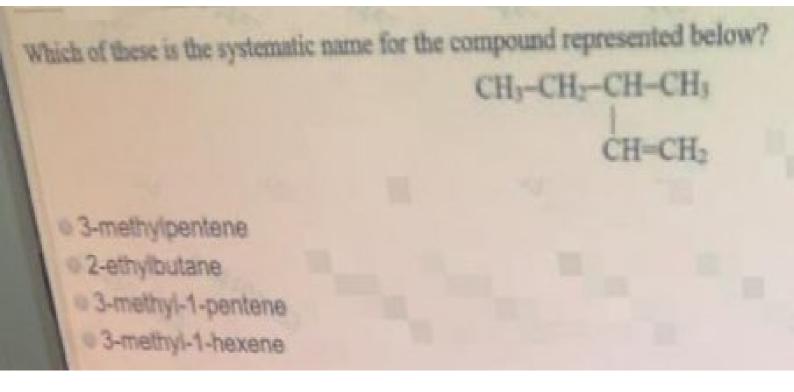


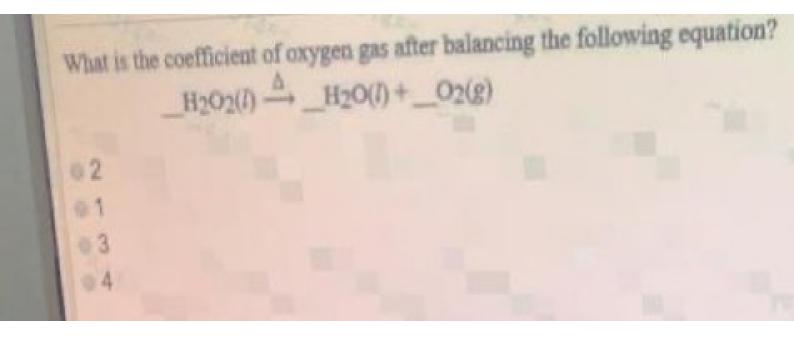


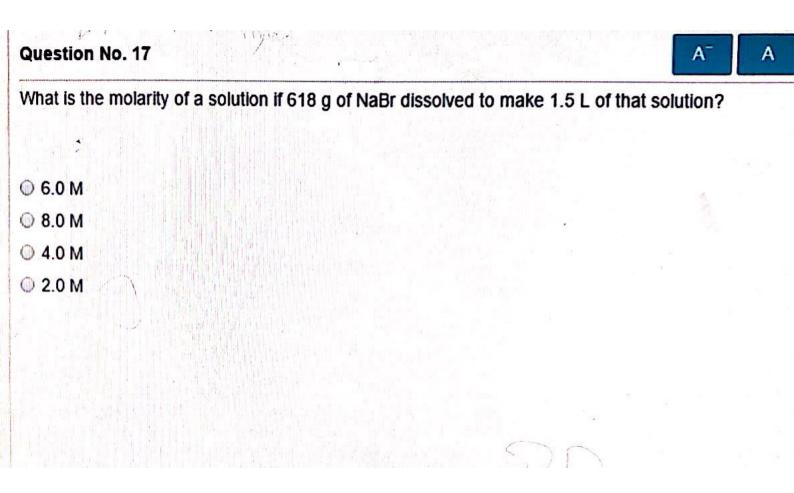


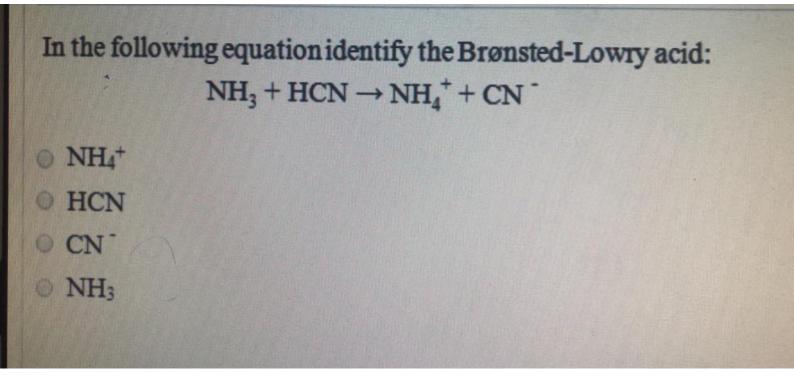












The correct name for the acid HCI is	acid	
-		
hydrogen chlorite		
hydrogen chloride		
hydrochloric		
hydrogen chlorate		

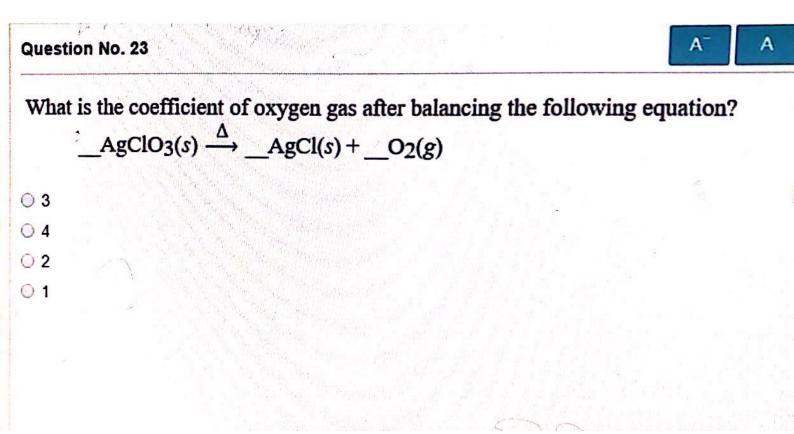
What is the IUPAC name for the following? CH₃

2,2-dimethylbutane
2-dimethylbutane
3,3-dimethylbutane
dimethylbutane

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CH3-C-CH2-CH3

CH₃



Total questions in exam: 40 | Answered: 11

Question No. 24

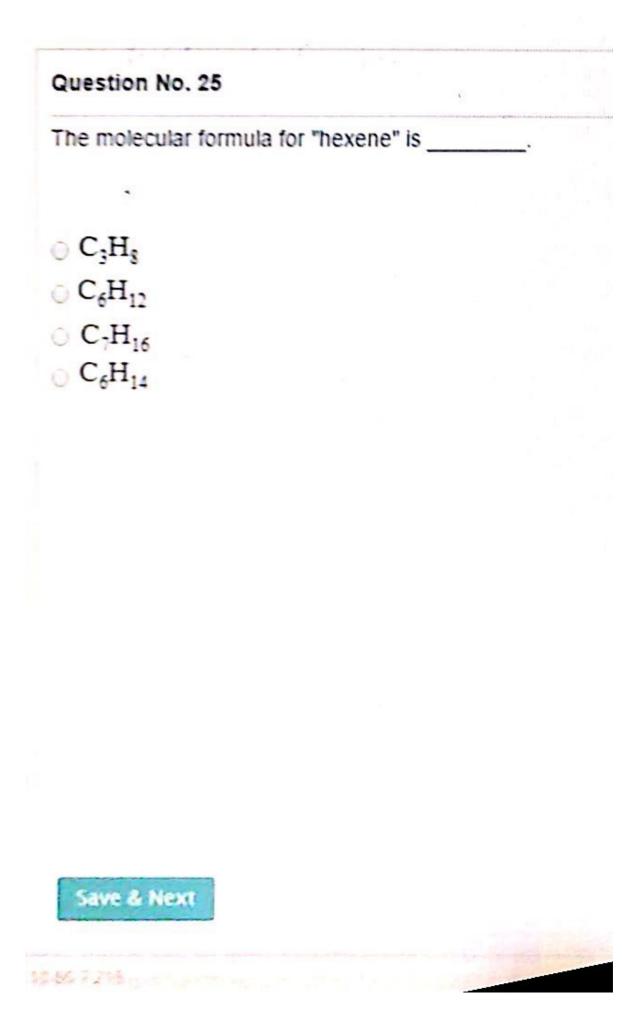
What is the IUPAC name for CH_3 - CH_2 - $CH=CH_2$?

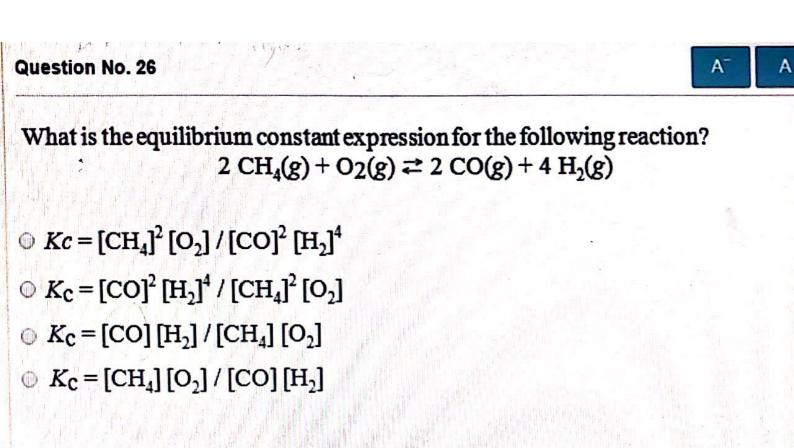
- O 2-butene
- O 3-butene
- 1-butene
- O butene

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Total questions in exam: 40 | Answered: 11





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A⁻ A

Which of the following pairs of systematic names and common names is correctly matching?

- aniline = aminobenzene
- acetylene = ethene
- o phenol = methylbenzene
- toluene = hydroxybenzene

Oxidation is the	and reduction is the	<u> </u>		
•				
Ioss of electrons, g	ain of electrons			
○ gain of electrons, le			5	
Ioss of oxygen, gai	n of electrons			
gain of oxygen, los				

How many moles of cesium (Cs) are contained in 595 kg of cesium?

7.91 × 104 moles Cs
1.26 × 103 moles Cs
2.23 × 102 moles Cs
4.48 × 103 moles Cs

1.

Calculate the molar mass of Fe3(PO4)2.

O 357.5 g/mol

525.1 g/mol

262.5 g/mol

237.6 g/mol



HU TOLA -

Calculate the molar mass of Fe3(PO4)2.

357.5 g/mol
 525.1 g/mol
 262.5 c/mol

© 262.5 g/mol

© 237.6 g/mol

•

Predict which of the following has a polar covalent bond.

- O HCI
- O LICI
- O KCI
- NaCl



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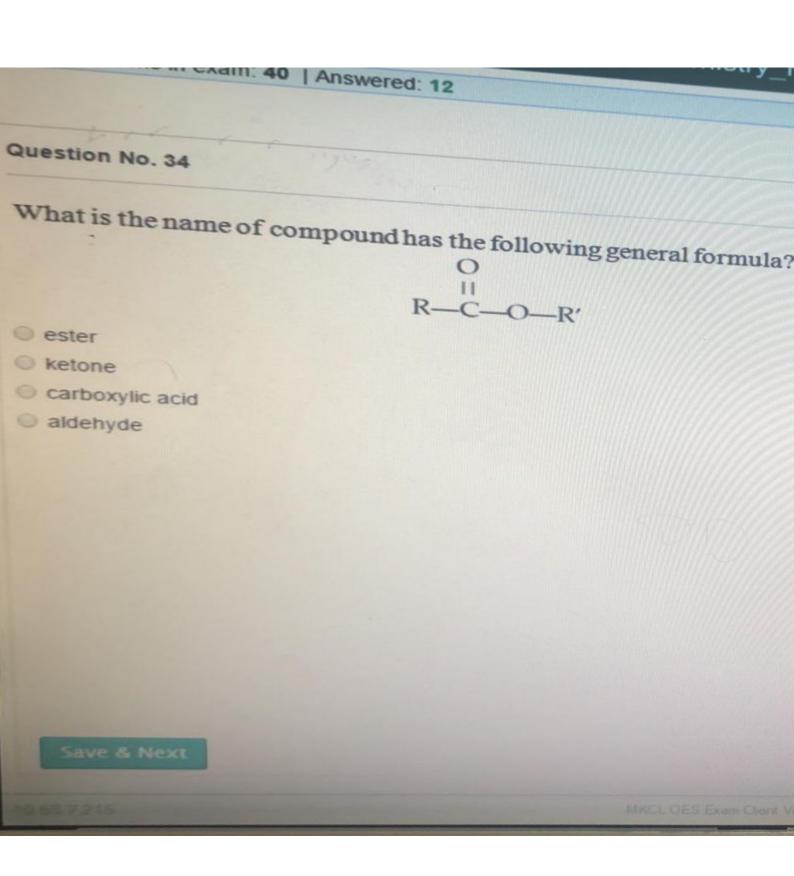
SIX L

4

Which of these species will act as a Lewis acid?

- H₂O
- O BF₃
- **F**-
- O NH₃





The most correct name for the compound N_2O_3 is:

- nitrogen oxide
- dinitrogen tetraoxide
- dinitrogen trioxide
- mononitrogen trioxide



10 68 / 216

MACE DESE

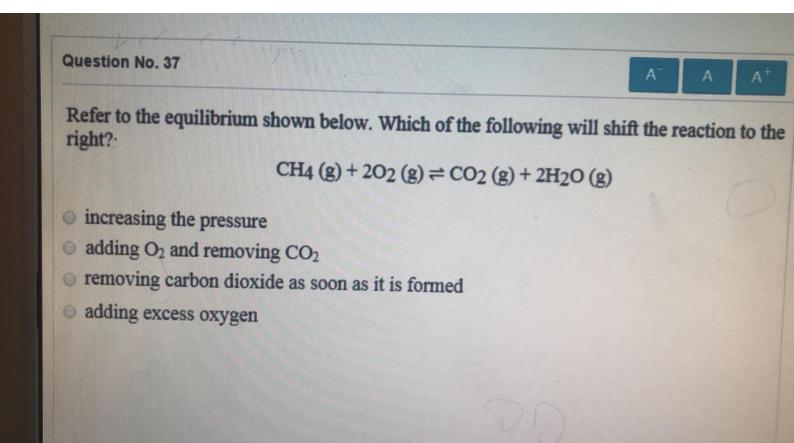
What is the oxidation number of carbon in $Na_2 CO_3$?

- 0 +2
- O +4
- O +1
- 00

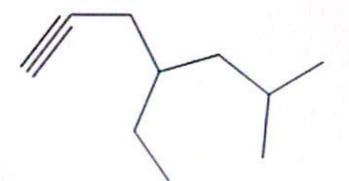


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MALL DESE



Name the following compound:



- O 2-ethyl-2-methyl-6-heptyne
- O 2-methyl-4-ethyl-1-heptyne
- 4-ethyl-6-methyl-1-heptyne
- 4-ethyl-2-methyl-6-heptyne







In the reaction below, what is the theoretical yield in moles for NO when 3 moles of NH_3 react with 3 moles of O_2 ?

 $4 \text{ NH}_3 + 5 \text{ O}_2 \rightarrow 4 \text{ NO} + 6 \text{ H}_2\text{O}$

- 2.8 mol
- O 3.0 mol
- 0 2.6 mol
- 2.4 mol

Total questions in exam: 40 | Answered: 12

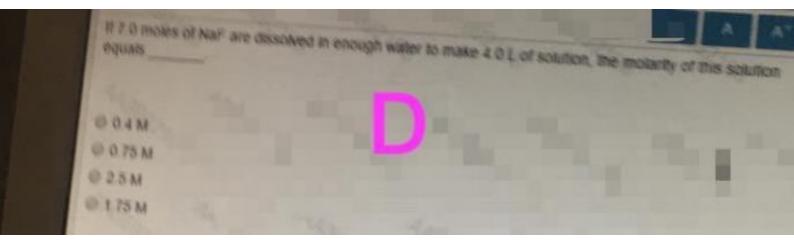
Question No. 40

Provide the name of the compound below.

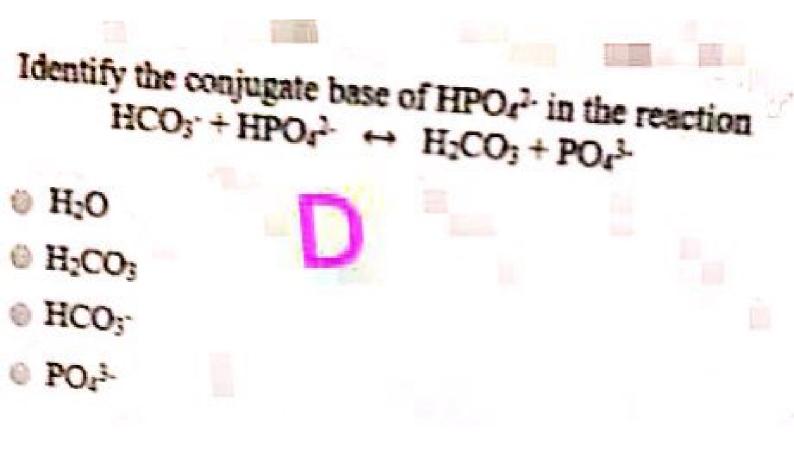
 $CH_3 CH_2CH_3$ | | $CH_3CH_2CH_2 - C - H$ | | $CH_3 CH_2CH_3$

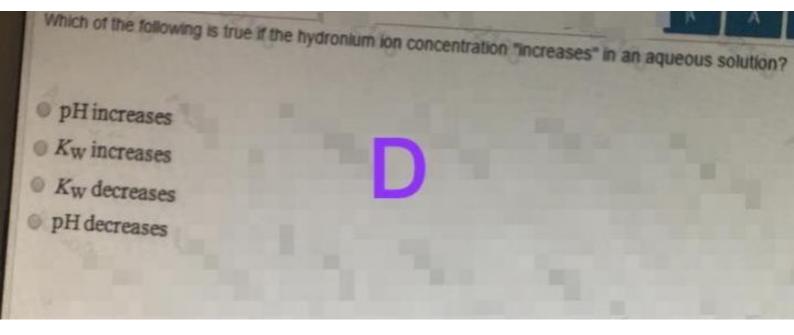
- 5-ethyl-4-methylheptane
- 3-ethyl-4,4-dimethylheptane
- 3-ethyl-4,4-dimethylpentane
- 1,1-diethyl-2,2-dimethylpentane

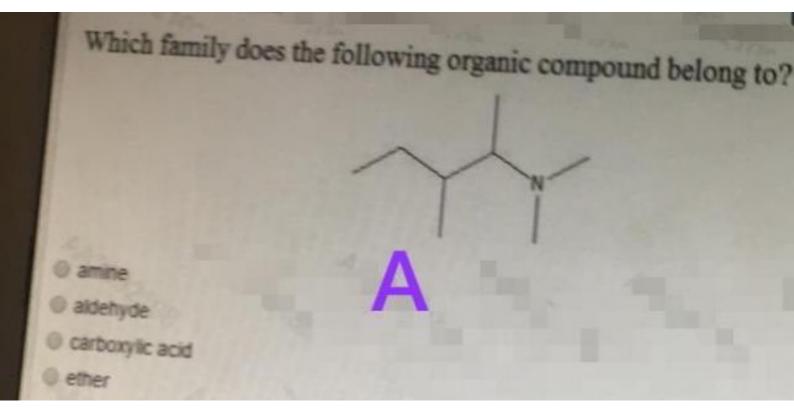




An Ionic compound has a net positive charge. contains only cations. has a net negative charge. has a net charge of zero.



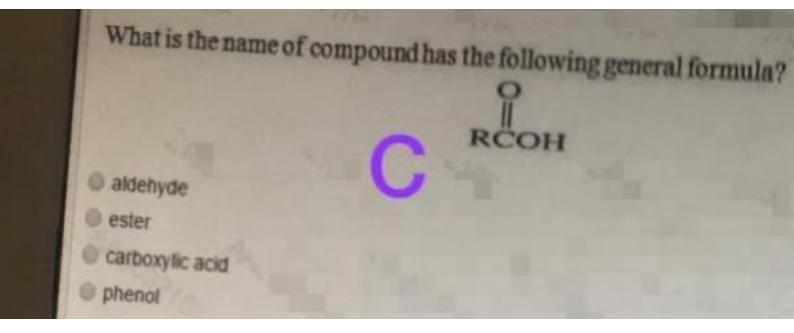


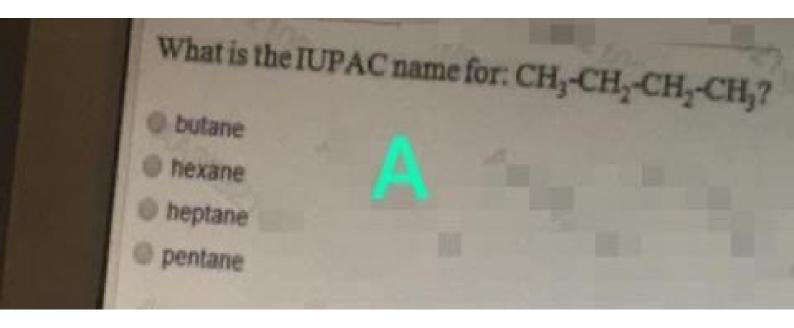


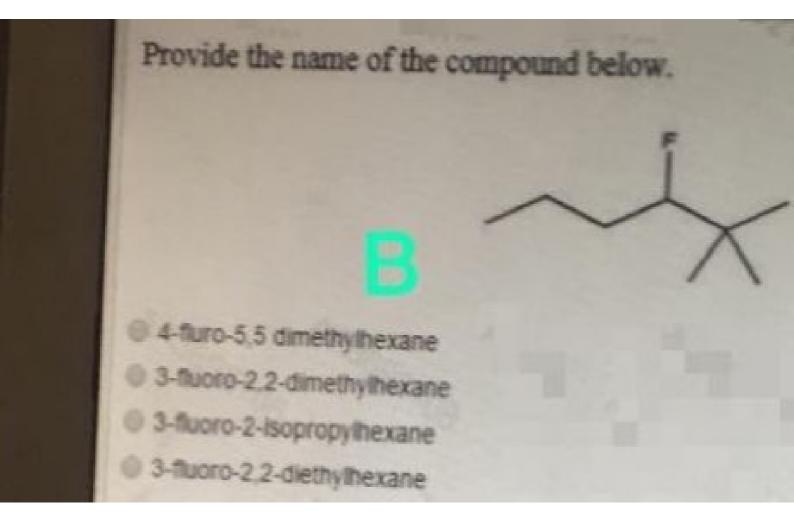
Name the following compound. $CH_{1}CH = CHCHCH_{1}$

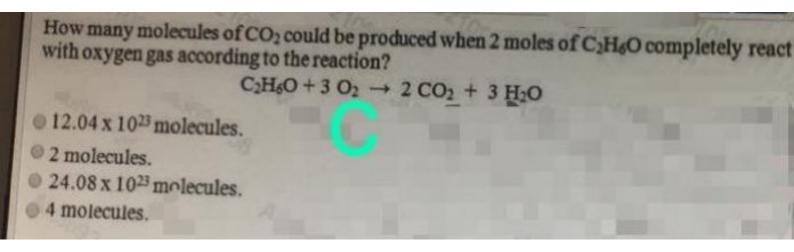
CH

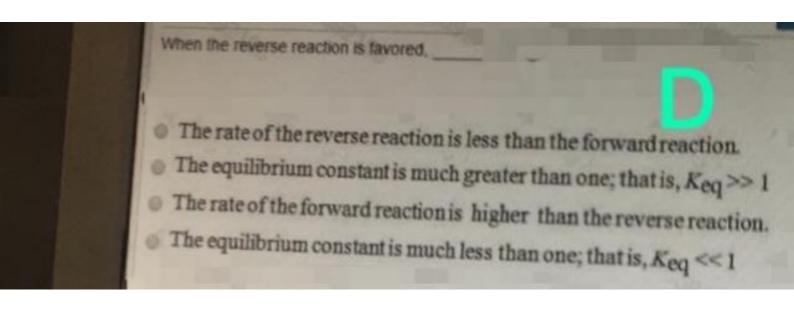
- 2-methyl-4-pentane
- 4-methyl-2-pentene
- 1.1-dimethyl-3-butene
- 2-methylpentane

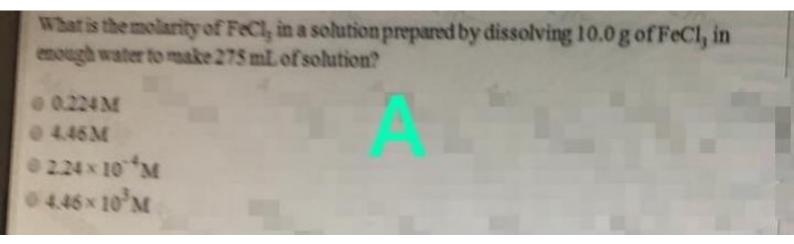


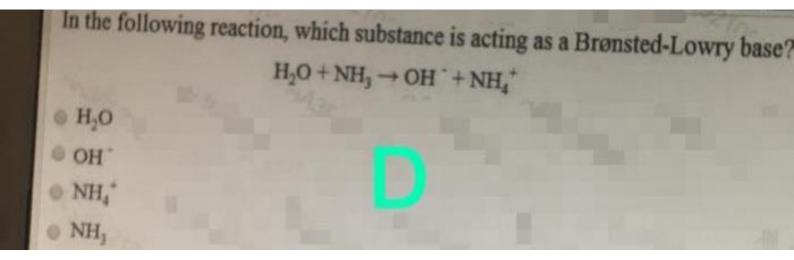


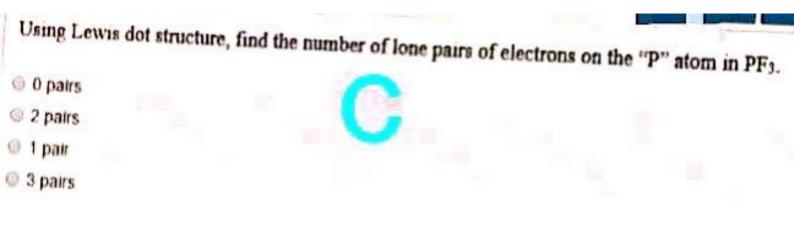


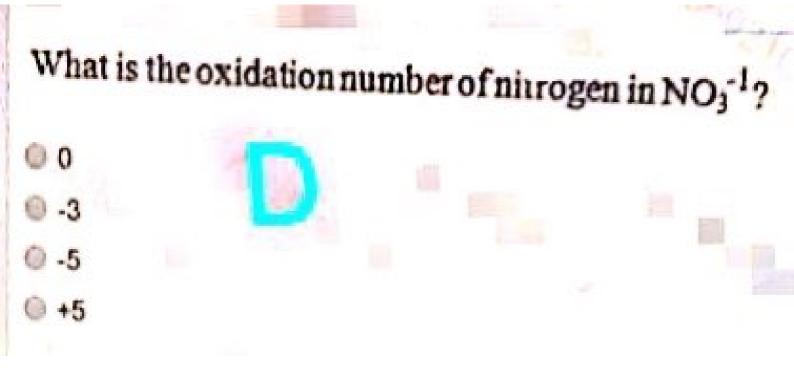


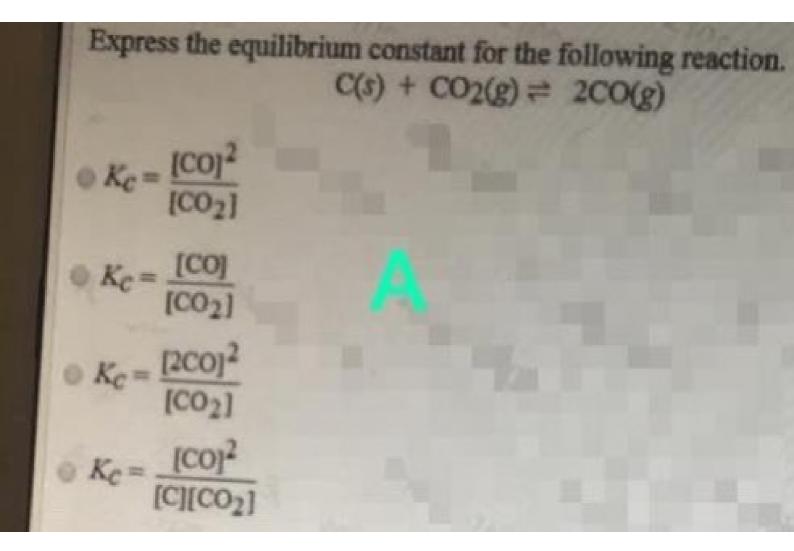


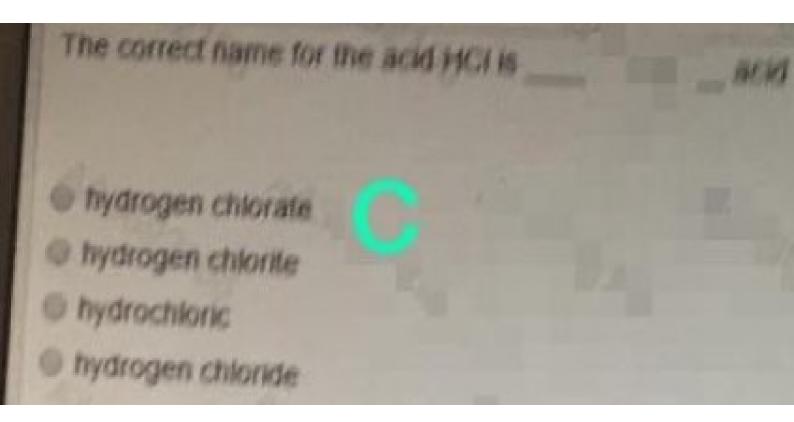


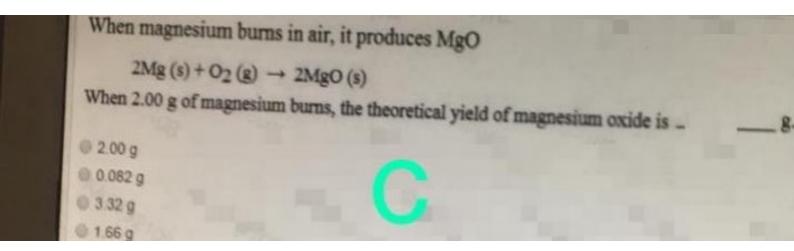


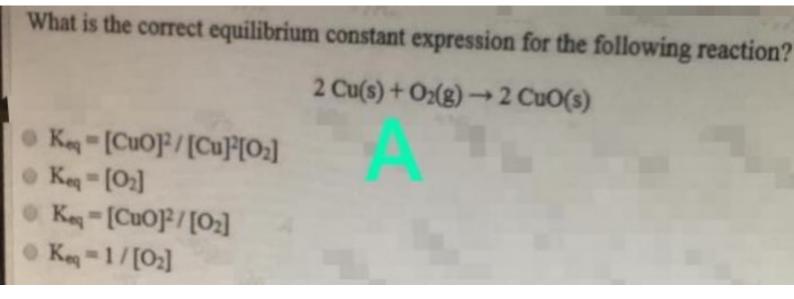


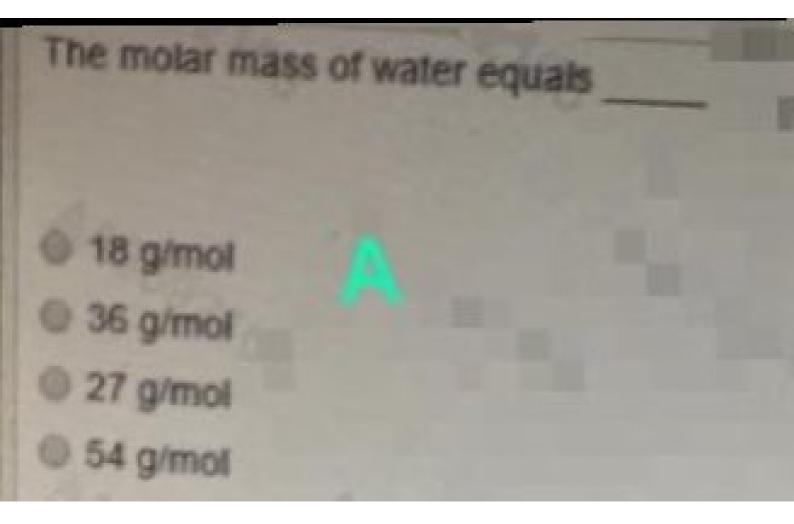


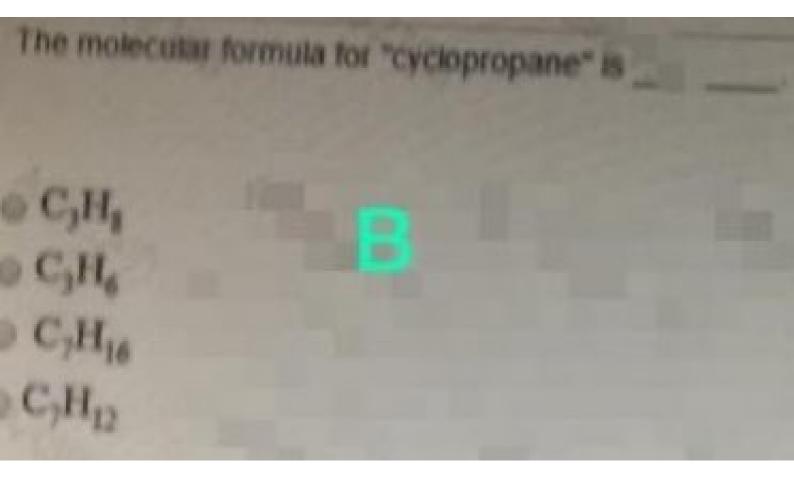


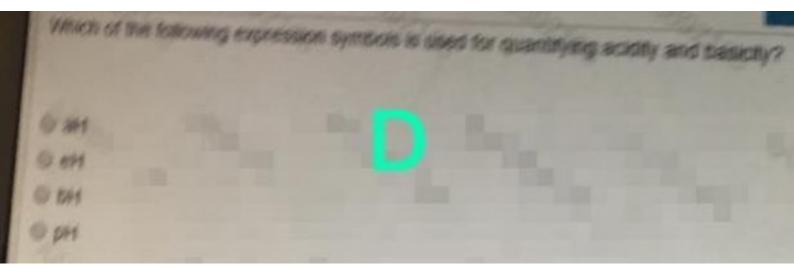








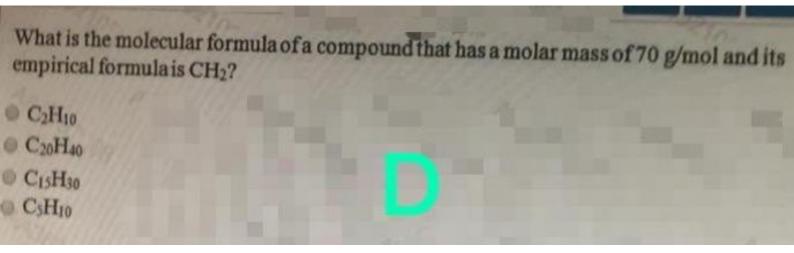


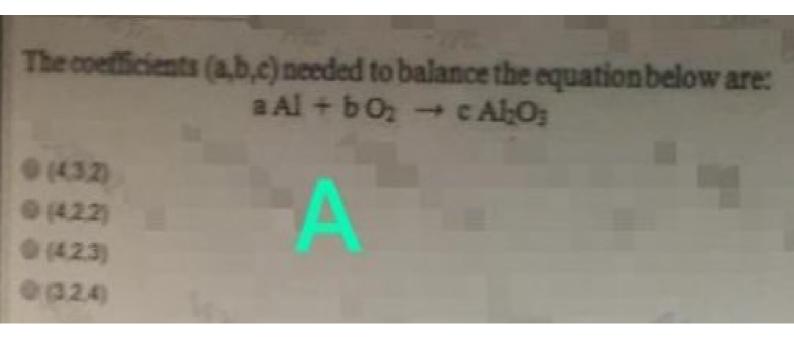


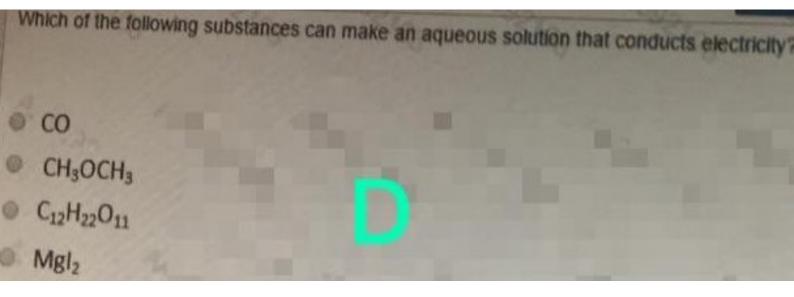
Calculate the molar mass of Fe3(PO4)2.

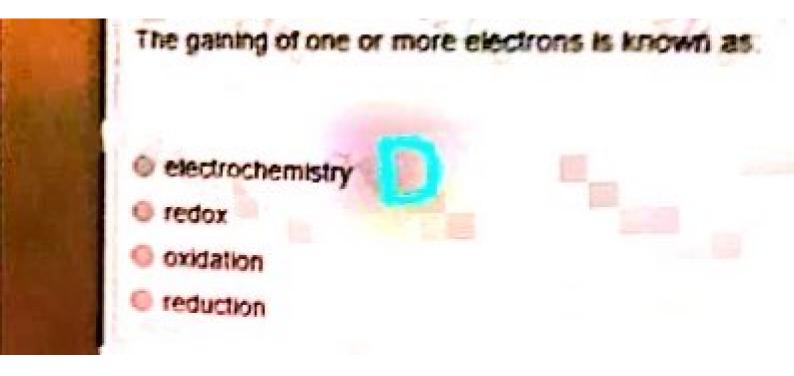
- © 237.6 g/mol
- 367.6 g/mol
- 262 5 g/mol
- 525 1 g/mpl

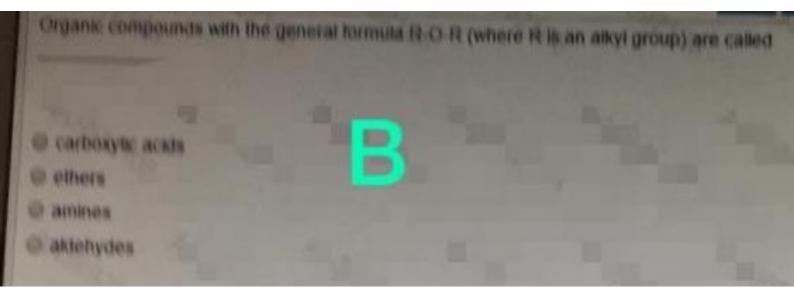


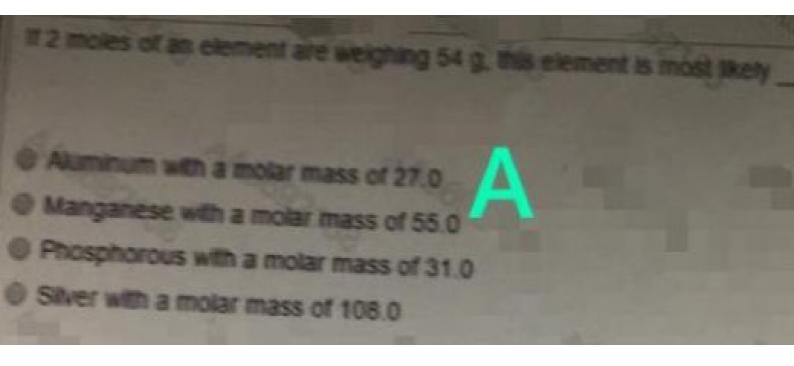


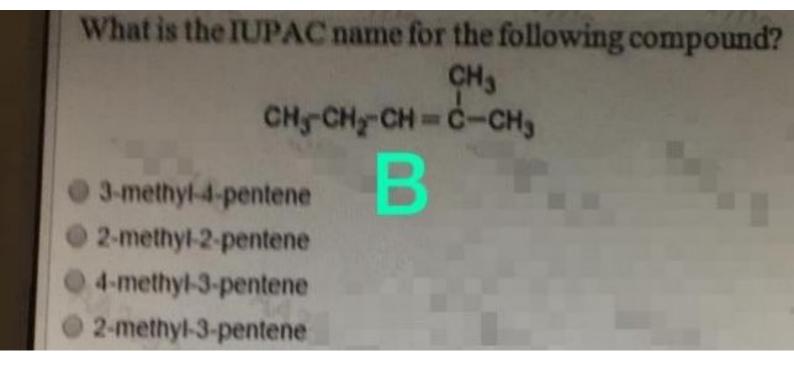


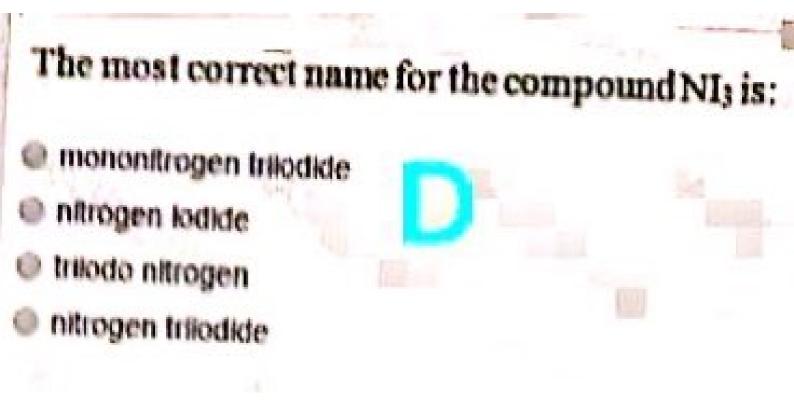


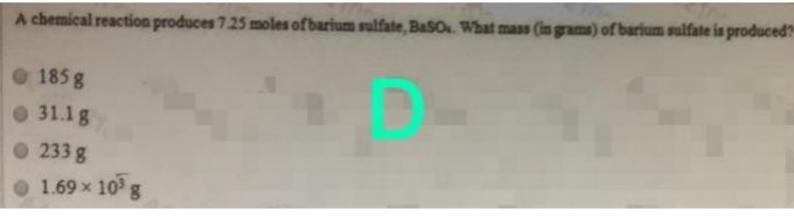


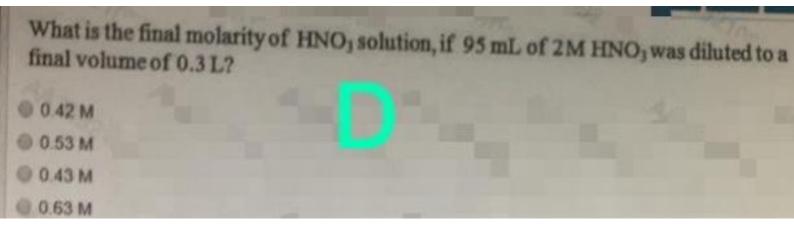


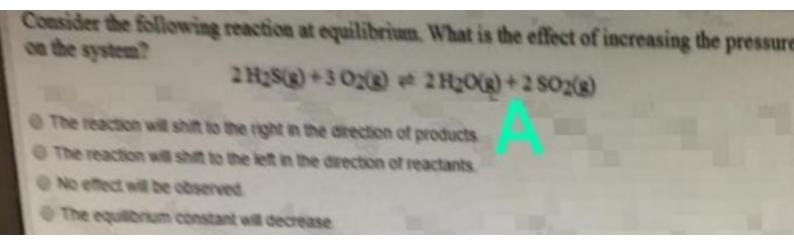


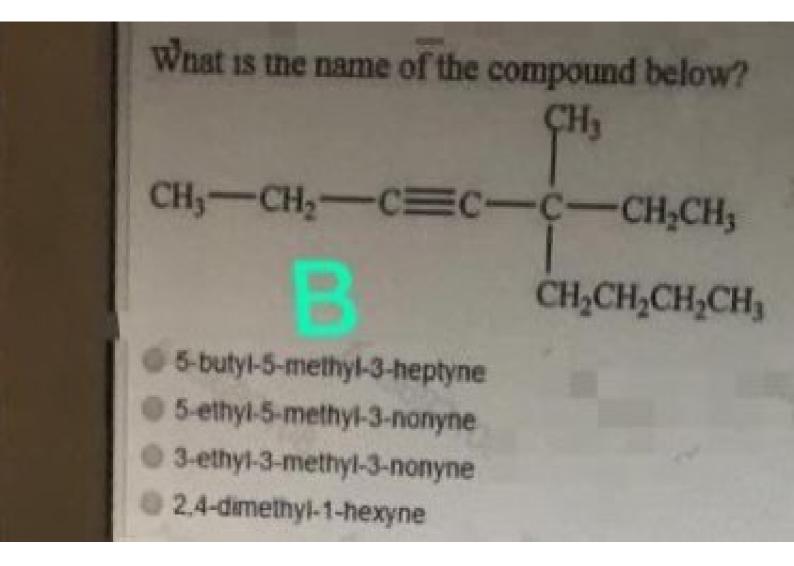


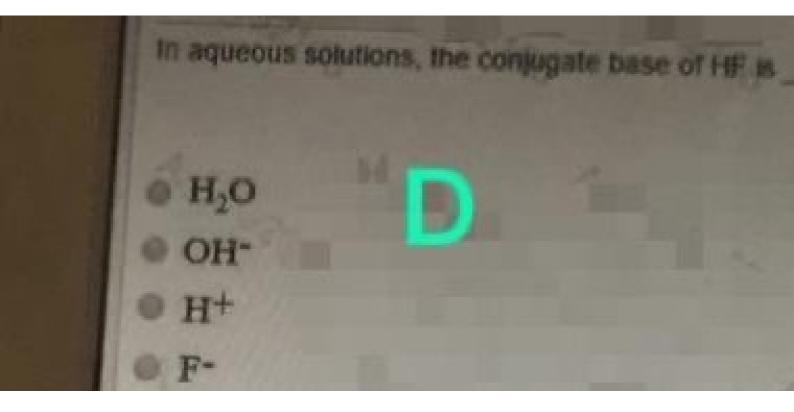


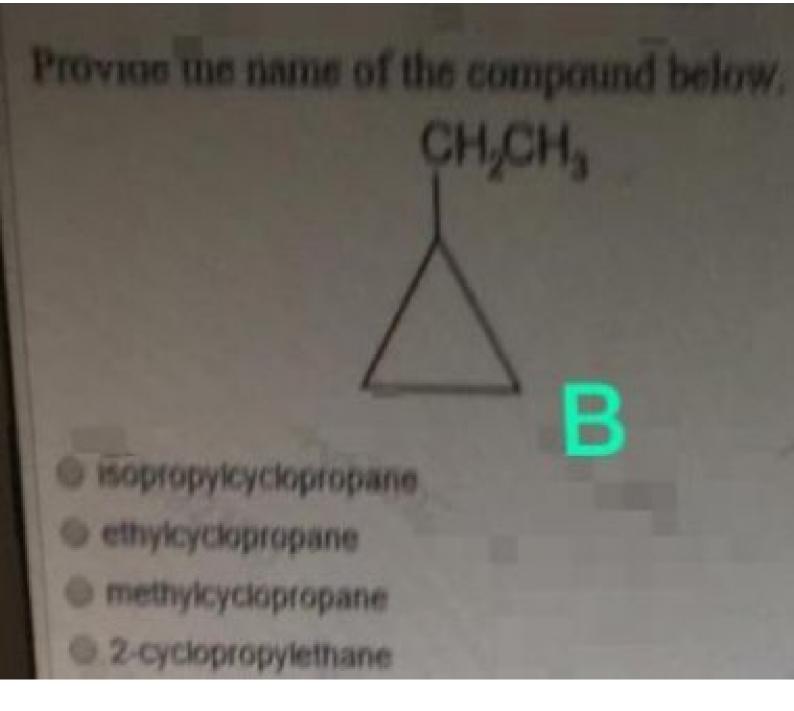


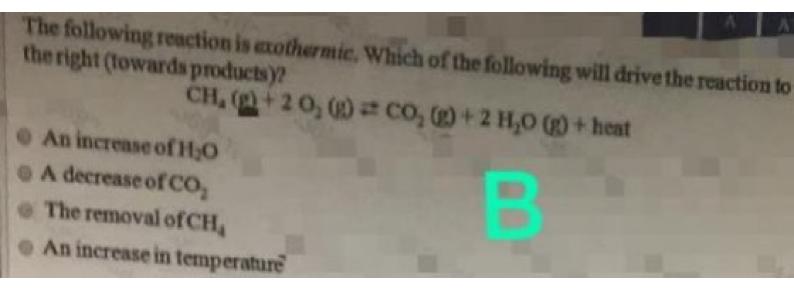






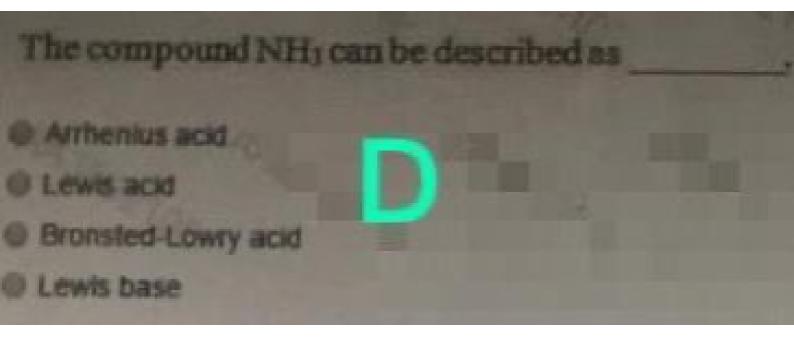






Which of the following pairs is NOT a conjugate acid-base pair according to the concept of Bronsted-Lowry?

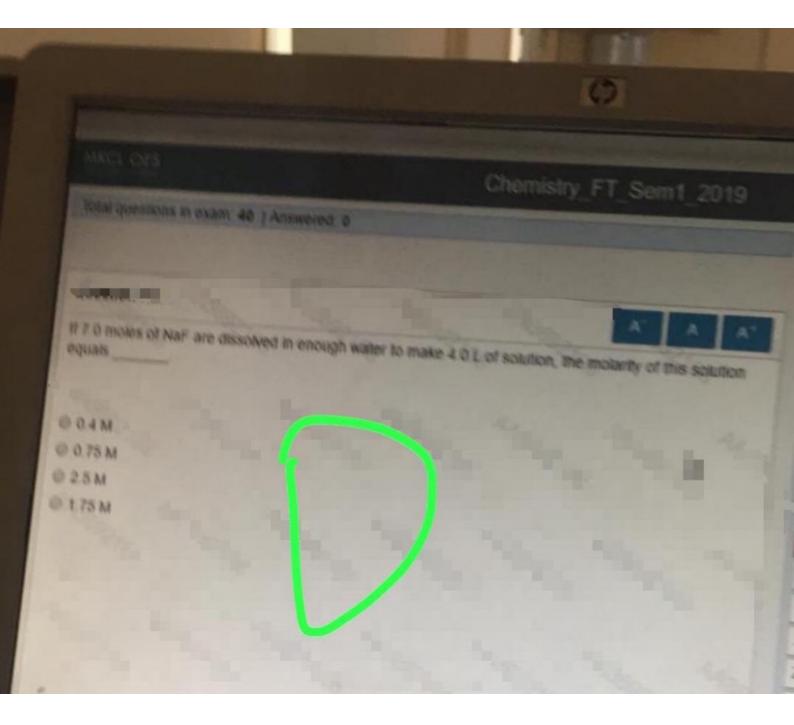






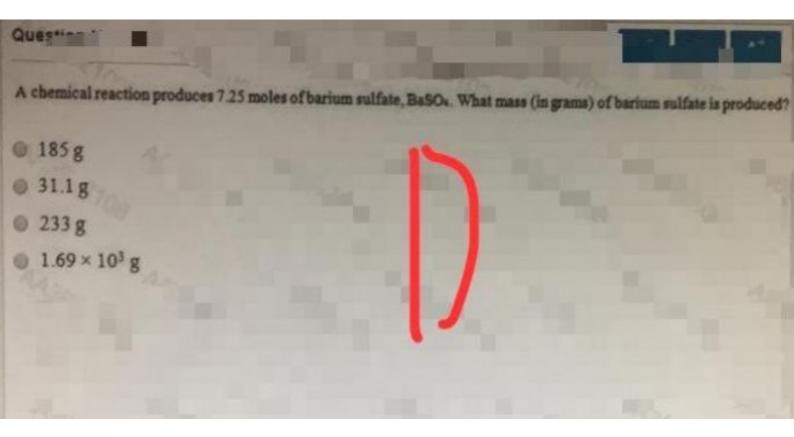
An Ionic compound

- has a net positivé charge.
- contains only cations.
- has a net negative charge.
- has a net charge of zero.



Name the following compound. CH,CH=CHCHCH, I CH,

- ② 2-methyl-4-pentane
- 4-methvl-2-pentene
- © 1.1-dimethyl-3-butene
 - 2-methylpentane



uestion No. 6

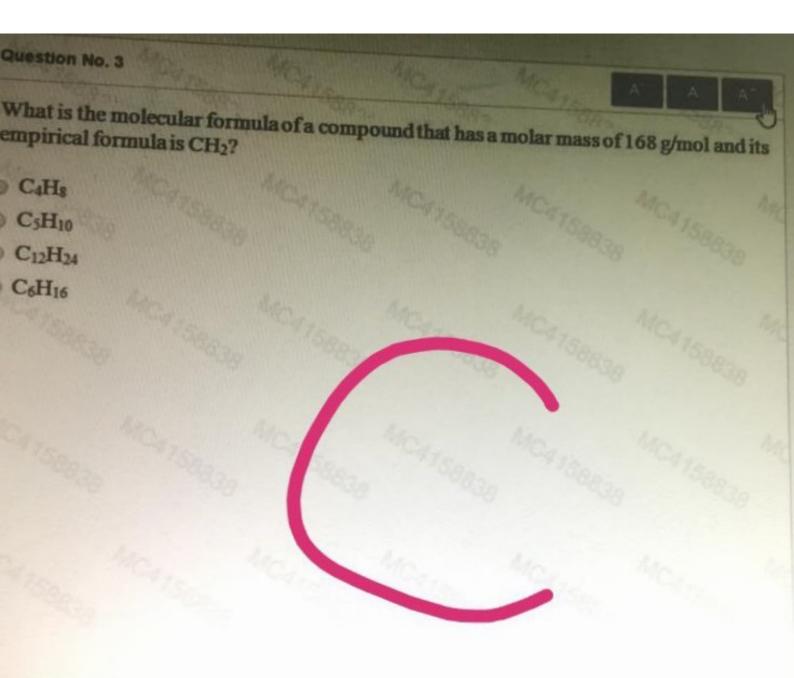
What is the number of silver (Ag) atoms are there in a 100 ram ring made of pure silver? (given that Molar Mass of g = 107.86 g/mol)

100 atoms. 5.58 x 10²³ atoms. 6.02 x 10²³ atoms. 6.49 x 10²³ atoms.



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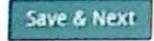
Question No. 5

The most correct name for the compound SBrs is:

- sulfur bromide
- monosulfur hexabromide

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- sulfur hexabromide
- o monosulfur heptabromide



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Express the equilibrium constant for the following reaction. $H_2(g) + Br_2(g) \rightleftharpoons 2 HBr(g)$

•
$$K = \frac{[HBr]^2}{[H_2][Br_2]}$$

• $K = \frac{[HBr]}{[H_2]^{1/2}[Br_2]^{1/2}}$
• $K = \frac{[H_2][Br_2]}{[HBr]^2}$
• $K = \frac{[H_2]^2[Br_2]^2}{[HBr]^4}$

Question No. 1

the example i hos 1000.1 40 Caussion No. 2 are the most reactive hydrocarbons. Ocycloalkanes Alkenes Alkynes Alkanes



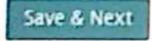
Question No: 5

The most correct name for the compound SBr6 is:

- sulfur bromide
- monosulfur hexabromide

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- sulfur hexabromide
- o monosulfur heptabromide



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Question No. 4

What is the family of this organic compound?

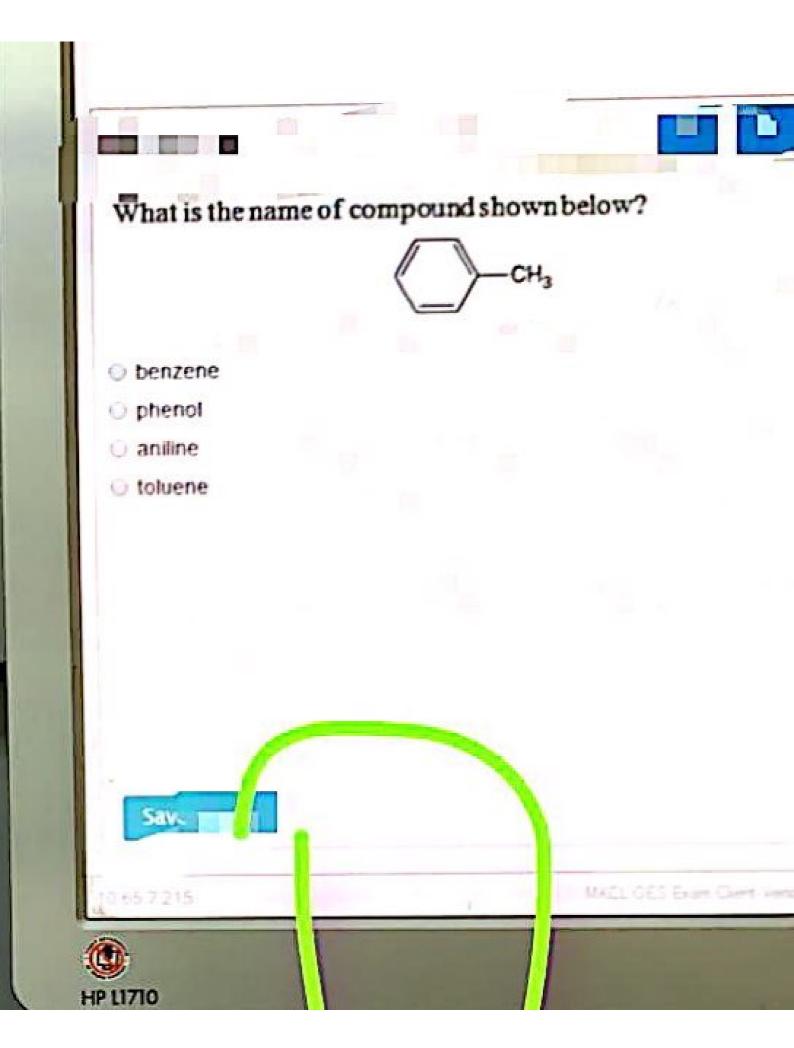
Roll 1

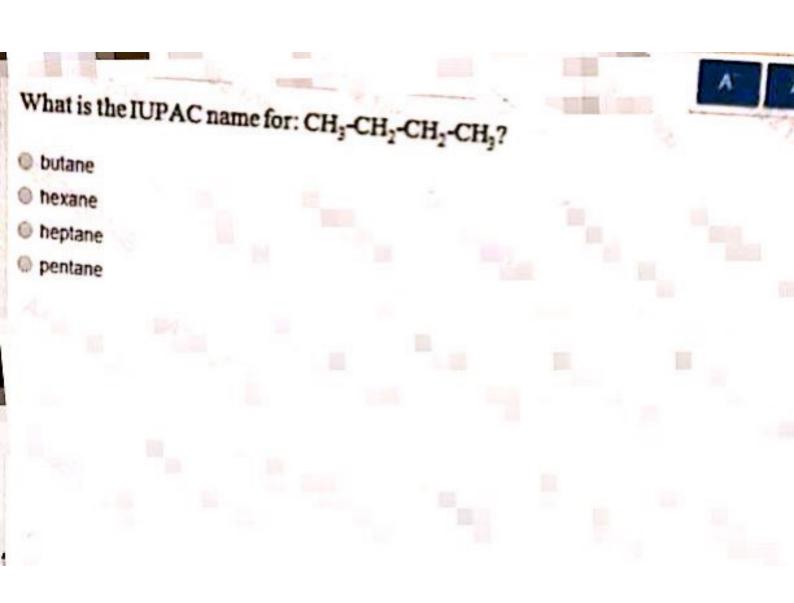
14

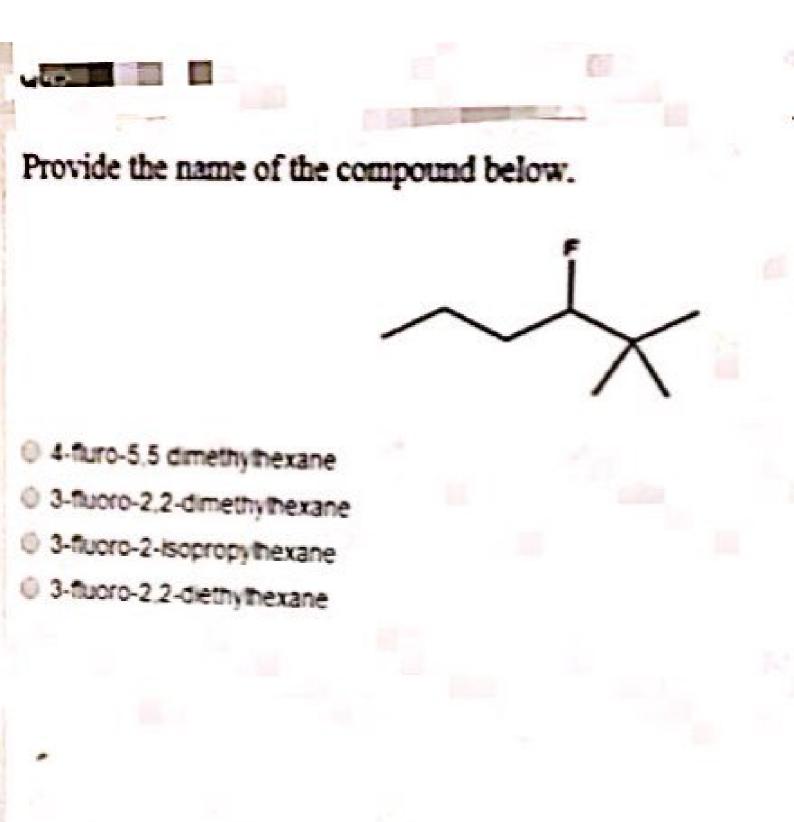
Att

- o ester
- aldehyde
- ketone
- carboxylic acid







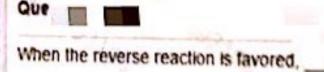




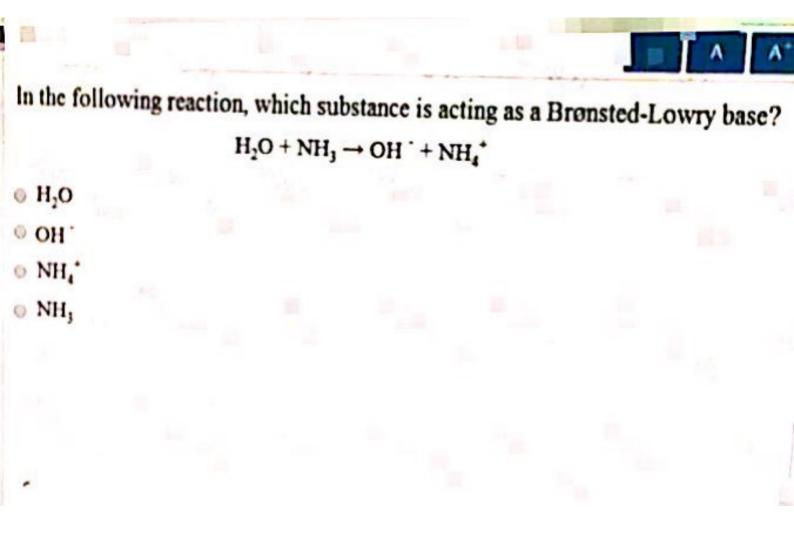
How many molecules of CO₂ could be produced when 2 moles of C₂H₆O completely react with oxygen gas according to the reaction?

 $C_2H_6O + 3 O_2 \rightarrow 2 CO_2 + 3 H_2O$

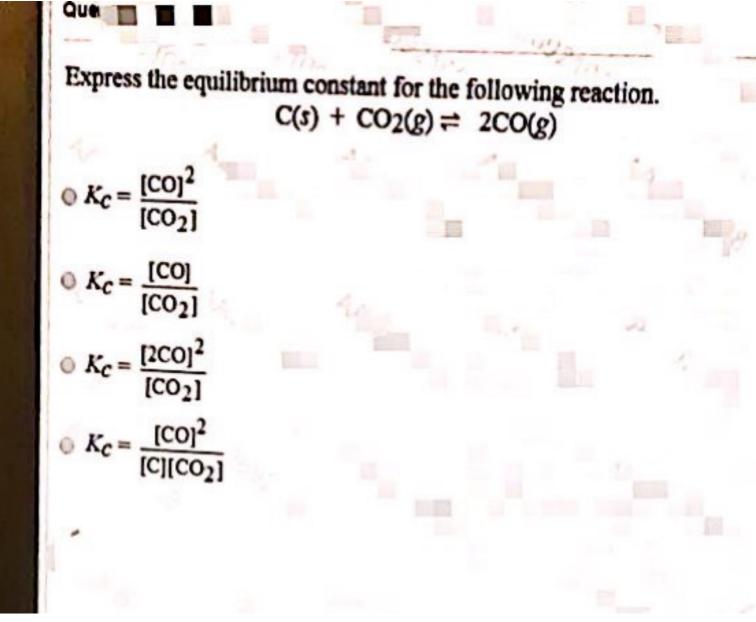
- ◎ 12.04 x 1023 moleculee
- 2 molecules.
- 24.08 x 10²³ molecules.
- 4 molecules.

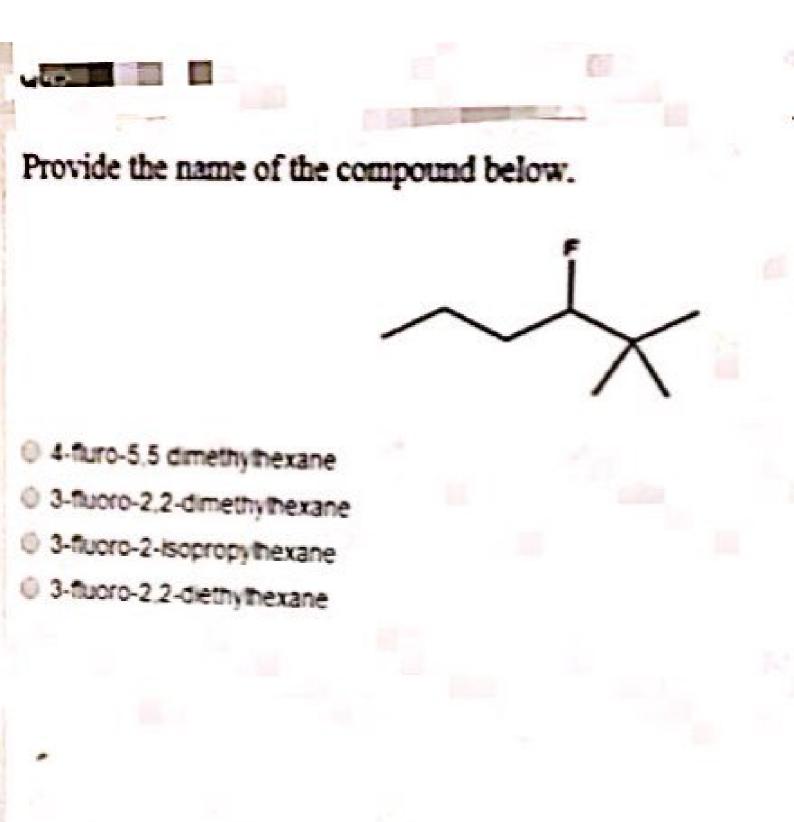


- O The rate of the reverse reaction is less than the forward reaction.
- The equilibrium constant is much greater than one; that is, Keq >> 1
- The rate of the forward reaction is higher than the reverse reaction.
- The equilibrium constant is much less than one: that is, Keq << 1</p>



Jsing Lewis do	t structure,	find the num	ber of lone p	airs of elec	trons on the	"P" atom in	PF1.
0 pairs							
2 pairs							
1 pair							





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What is the oxidation number of nitrogen in NO3-1?



Question No. 5

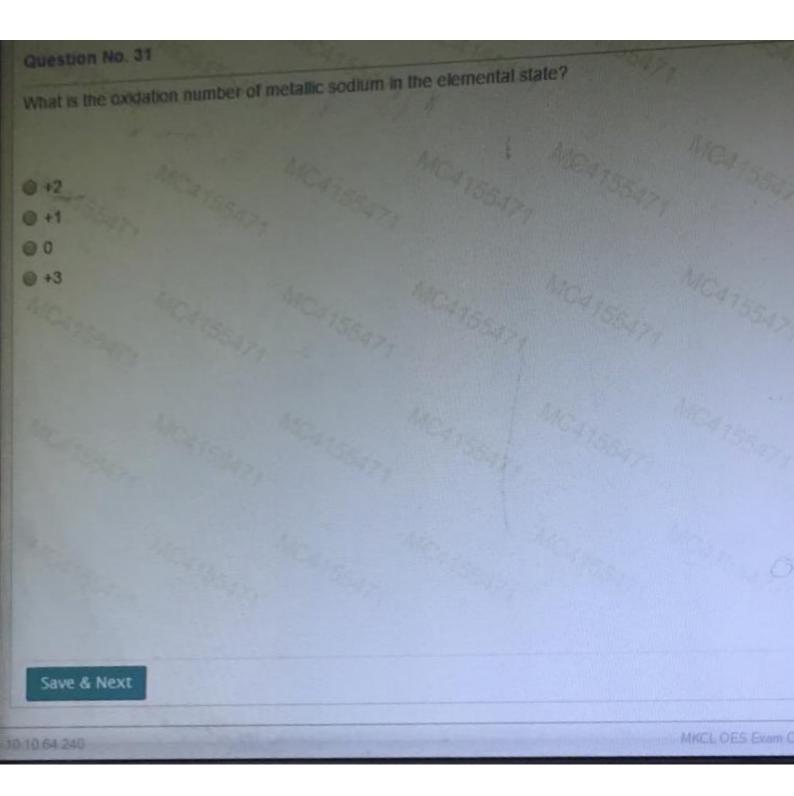
Provide the name of the compound below.

3,3-dimethyl-1-pentene 3,3-dimethyl-1-pentyne ,3-dimethyl-1-pentane 3-dimethyl-4-pentene

Next

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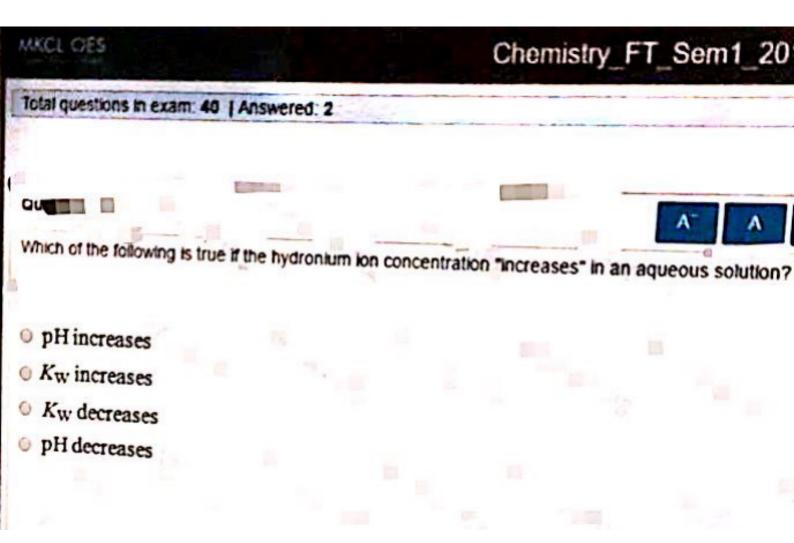
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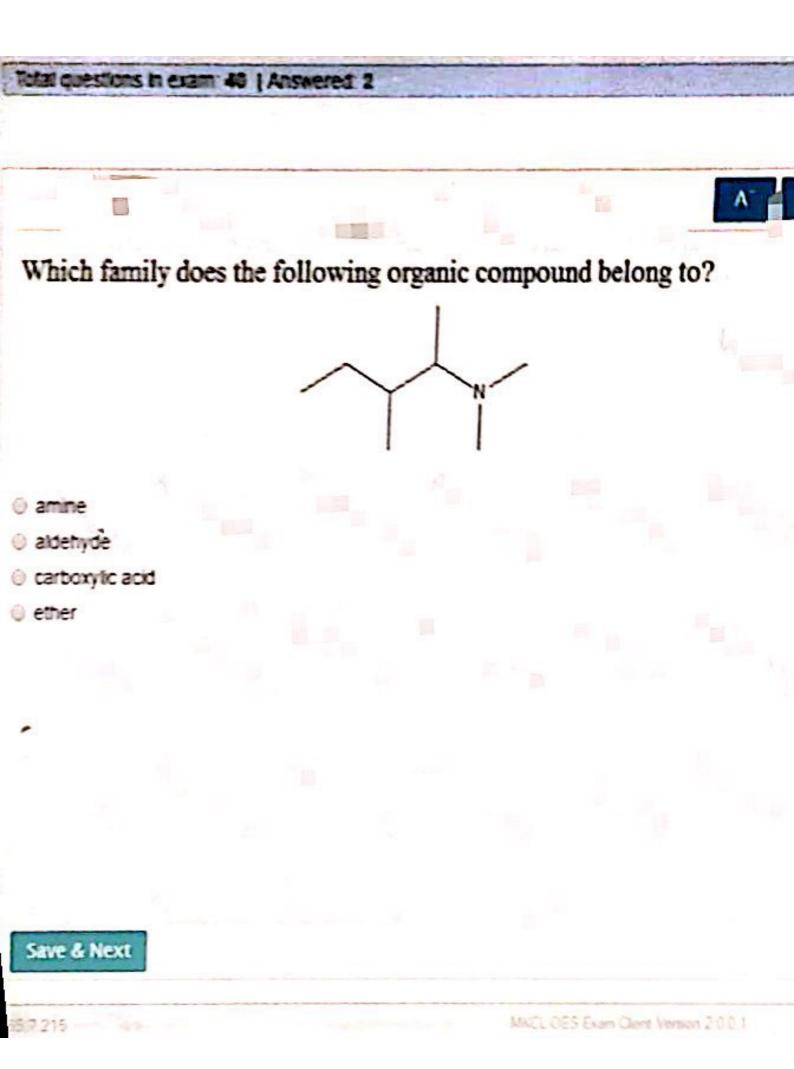
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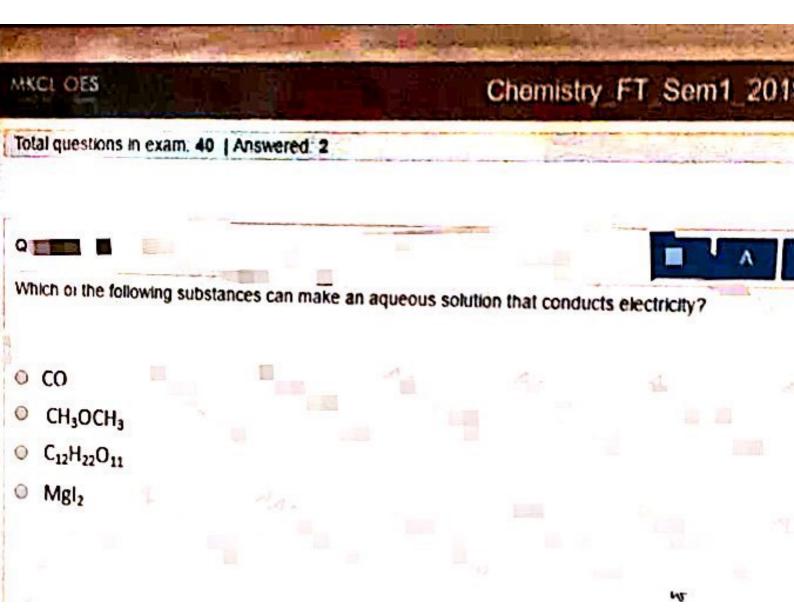
Total questions in exam: 40 | Answered

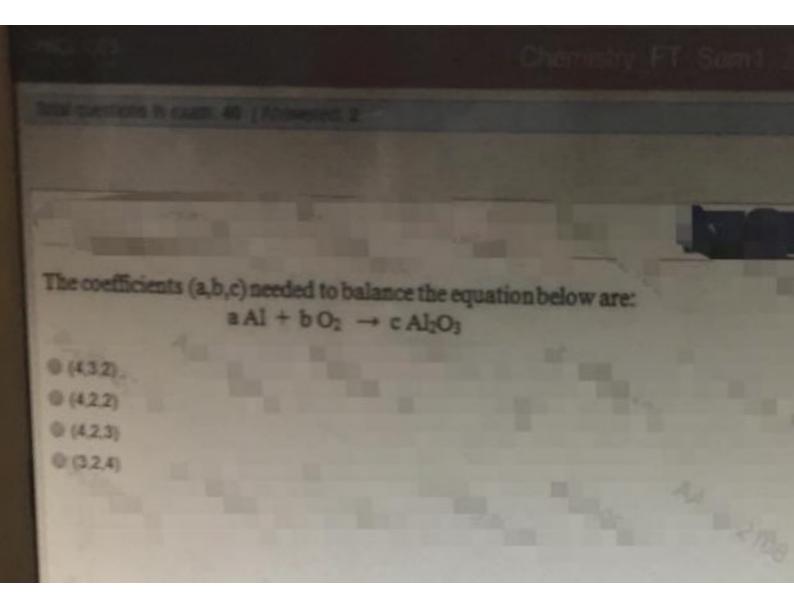
Identify the conjugate base of HPOr² in the reaction HCO₃ + HPOr² ↔ H₂CO₃ + POr³

- 0 H:O
- 0 H;CO;
- O HCO;
- O POrt

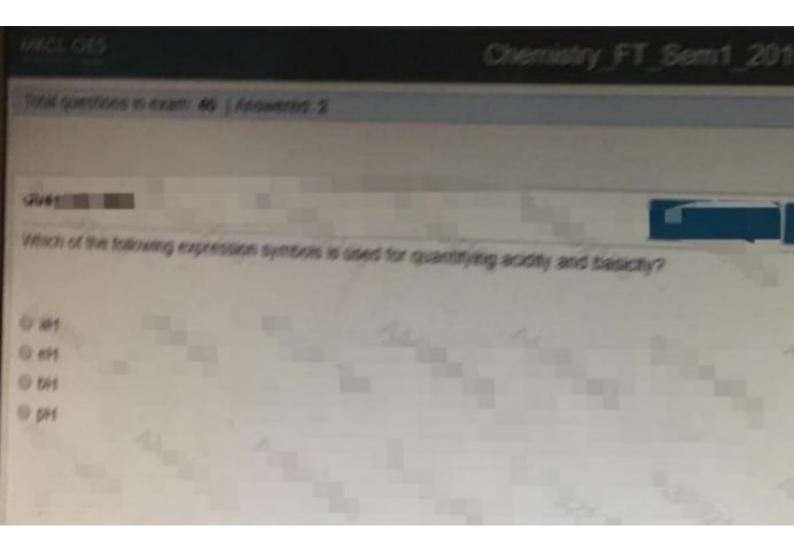


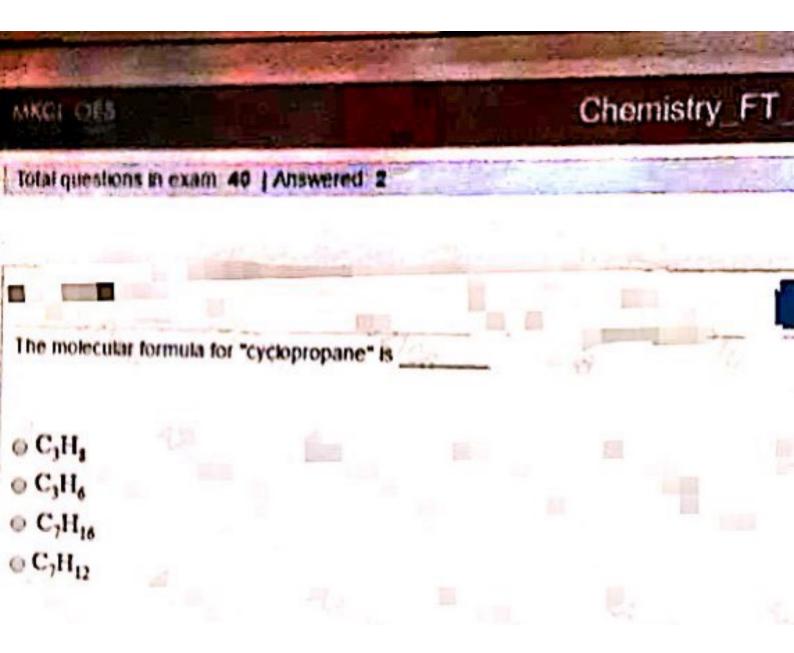


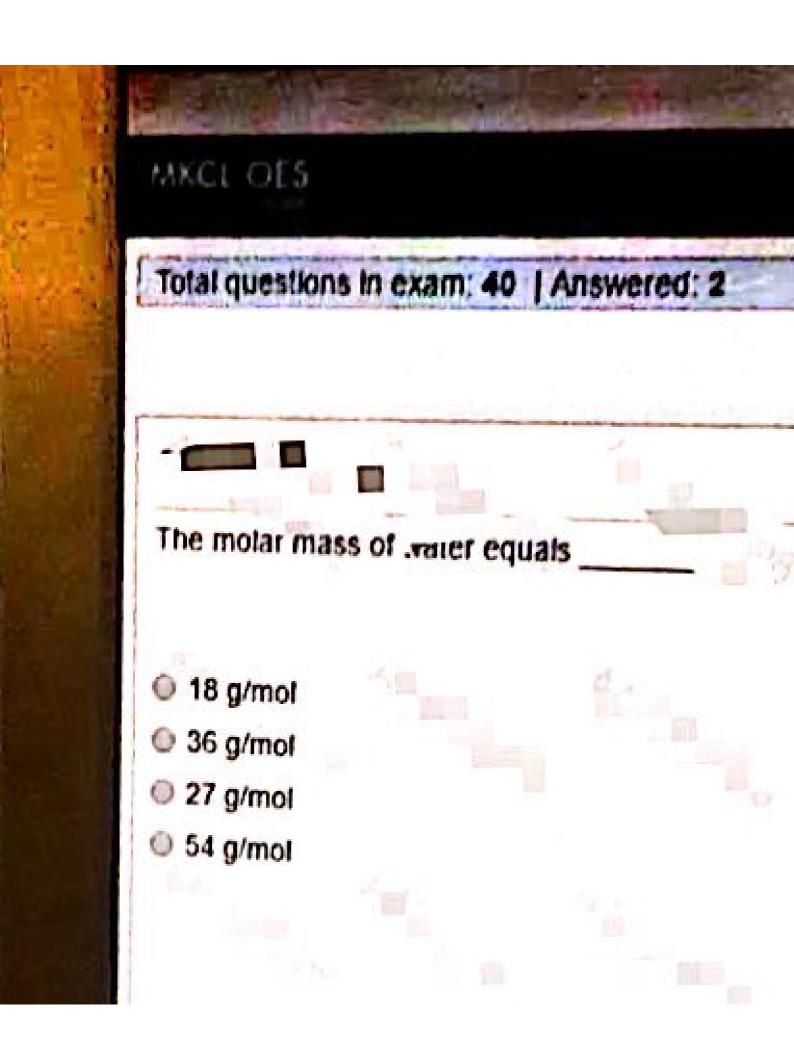




	Chemistry_FT_	Sem1_2019
Total questions in exam: 40 Answere	d: 2	
What is the molecular formula of empirical formula is CH ₂ ?	f a compound that has a molar mass of	70 g/mol and its
C ₂ H ₁₀		
C20H40		
C15H30		
C ₃ H ₁₀		







MKCL OF5 Chemistr Total questions in exam: 40 | Answered: 2 Calculate the molar mass of Fe3(PO4)2. © 237.6 g/mol 11 · 🔾 357.5 g/mol 262 5 g/mol 9 525 1 g/mol

MKCL OES

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Chemistry_FT_Sem1_

Total questions in exam: 40 | Answered: 2

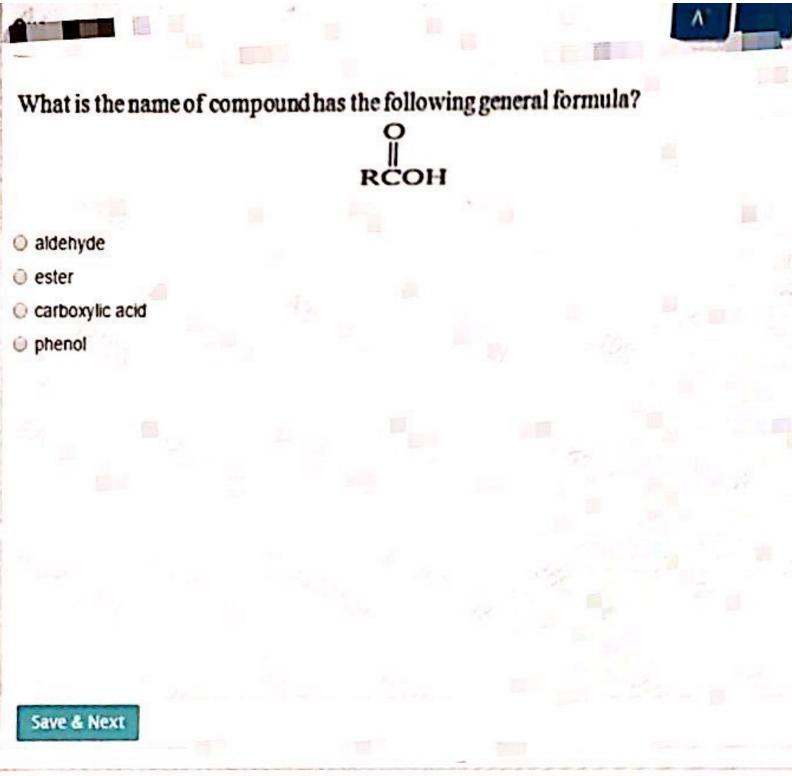
What is the correct equilibrium constant expression for the following reaction?

 $2 \operatorname{Cu}(s) + O_2(g) \rightarrow 2 \operatorname{CuO}(s)$

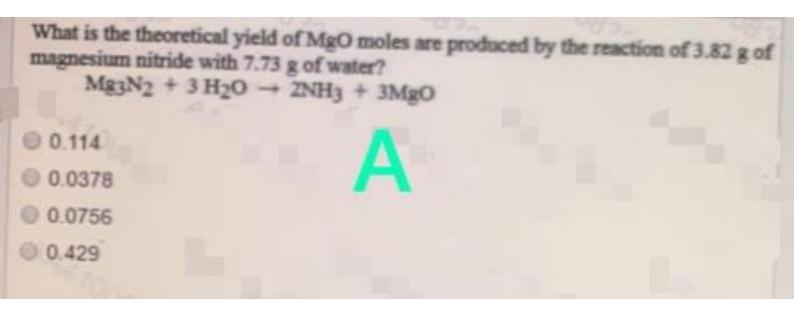
K_{eq} = [CuO]²/[Cu]²[O₂]
K_{eq} = [O₂]
K_{eq} = [CuO]²/[O₂]
K_{eq} = 1 / [O₂]

Save & Next

AKCL OES	Chemistry_FT_Sem1_2019
Total questions in exam: 40 Answered: 2	
When magnesium burns in air, it	produces MeO
$2Mg(s) + O_2(g) \rightarrow 2MgO(s)$	
When 2.00 g of magnesium burns, th	e theoretical yield of magnesium oxide is
© 2 00 g	-
0 0 082 g	
0 3 32 g	
0 1.66 g	



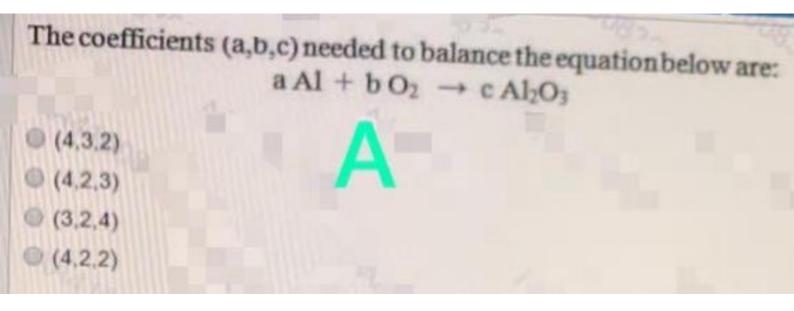
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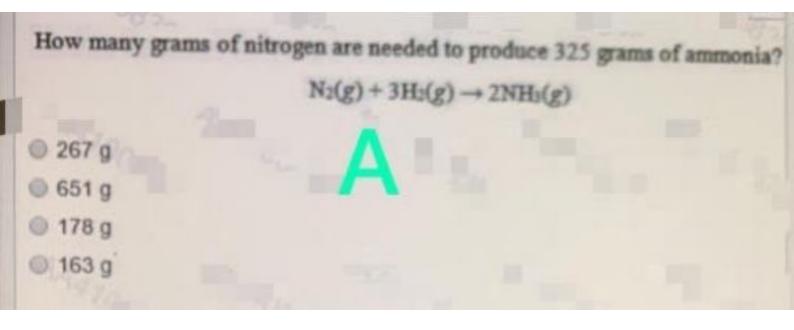


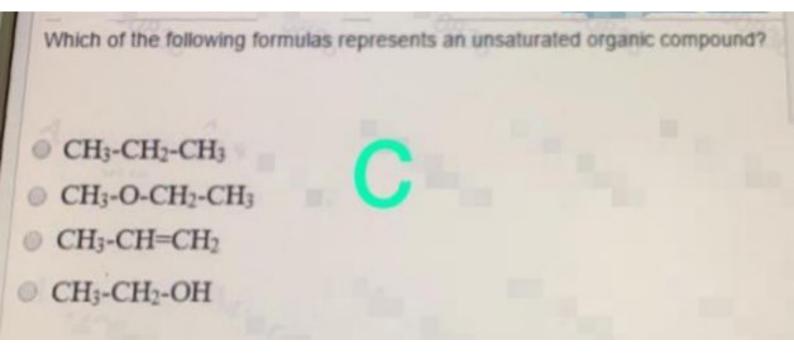
How many liters of a 1.3 M NaOH solution containing 0.4 mole of NaOH? 1.32 L 0.30 L 1.21 L 3.25 L

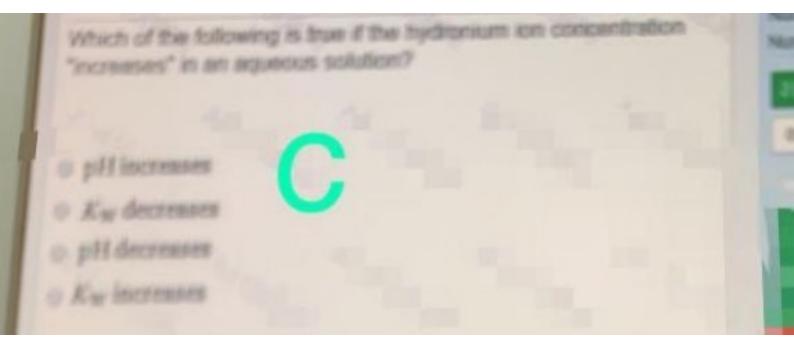
How many moles of (NH4)2 S are there in 150 g of (NH4)2S?





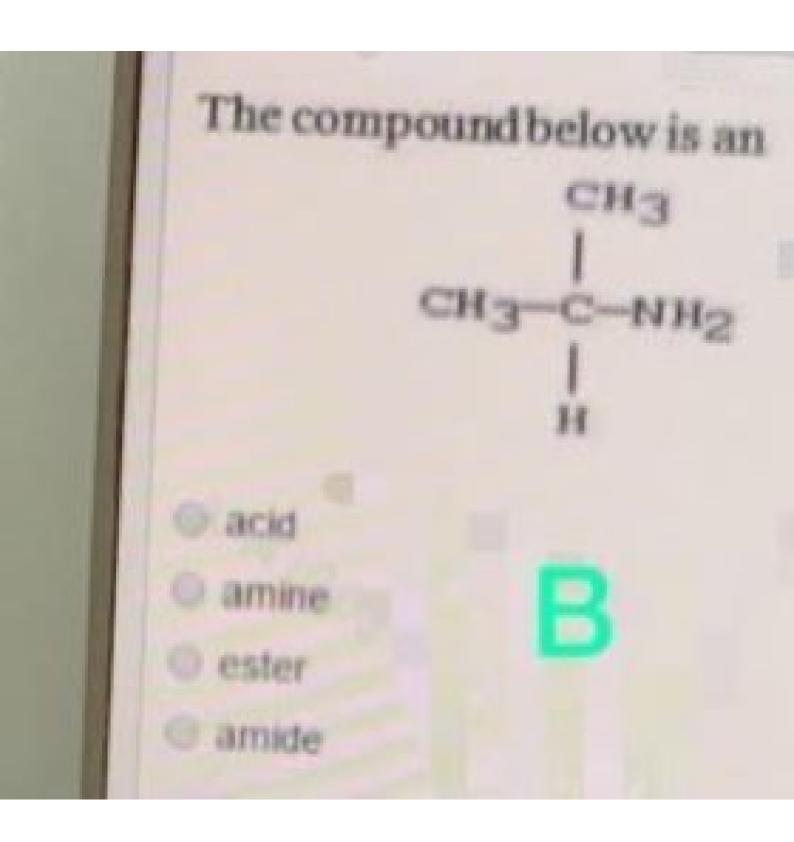


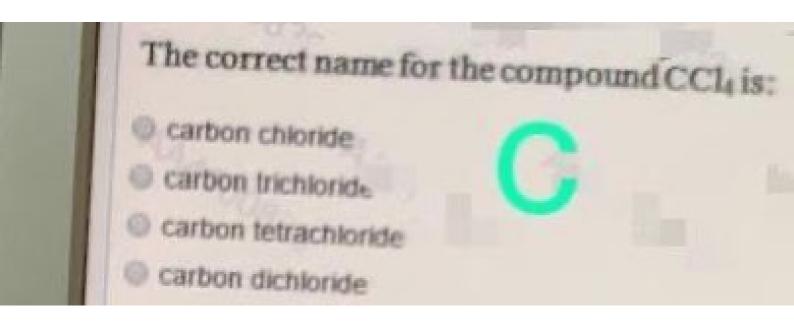


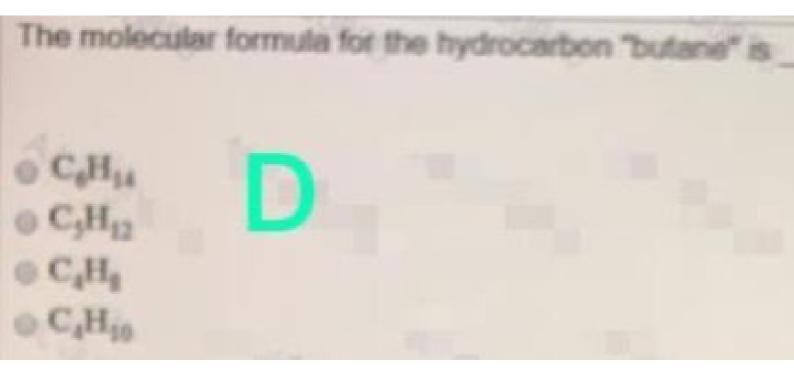


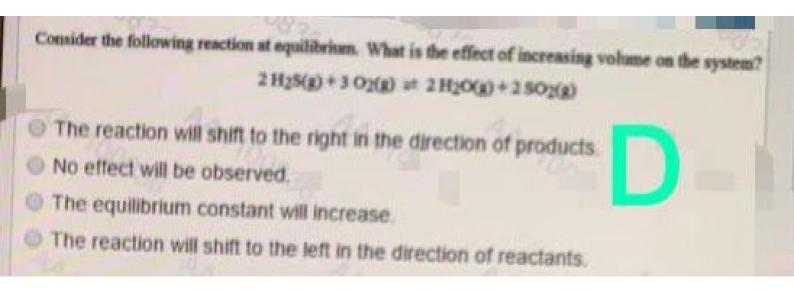
The name of the chemical compound Cu₂CO₃ is:

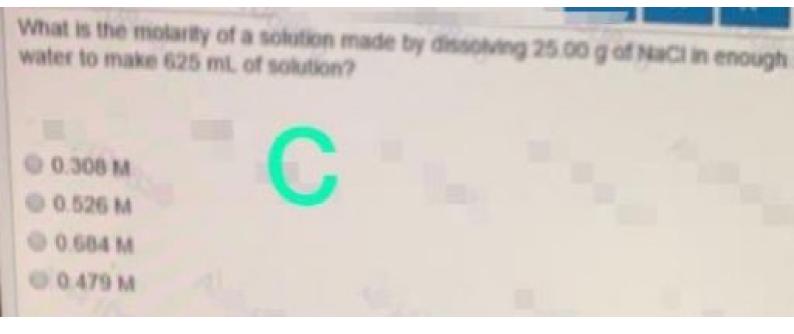
- © copper(III) carbonate
- © copper(II) carbonate
- Copper(I) carbonale
- copper carbonate

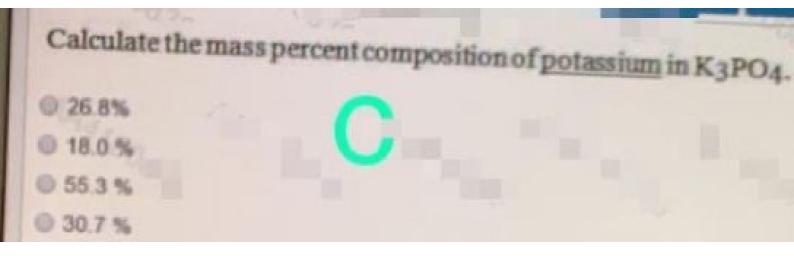


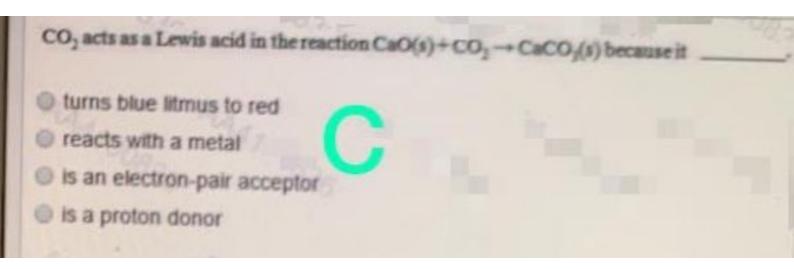


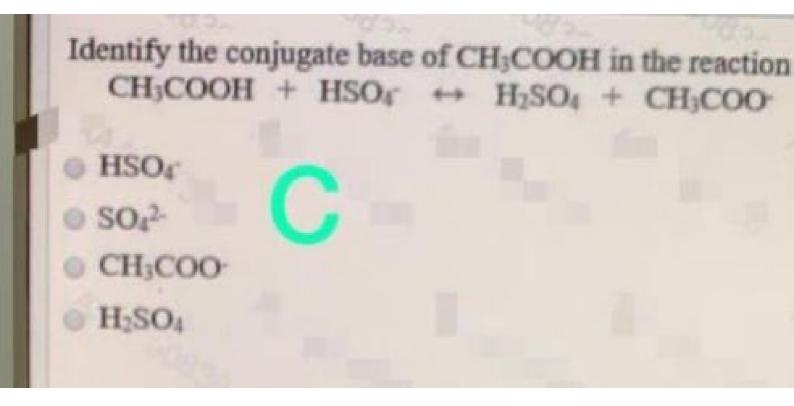


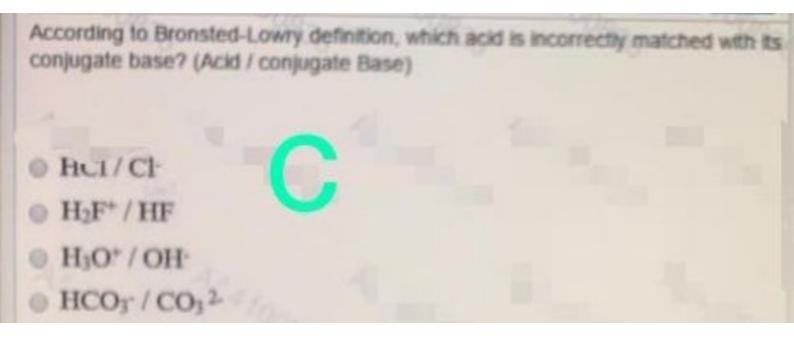


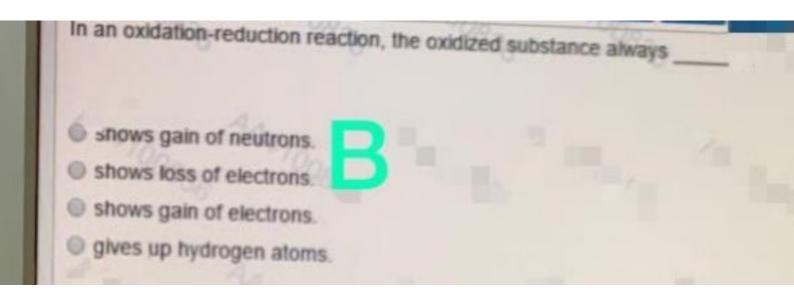


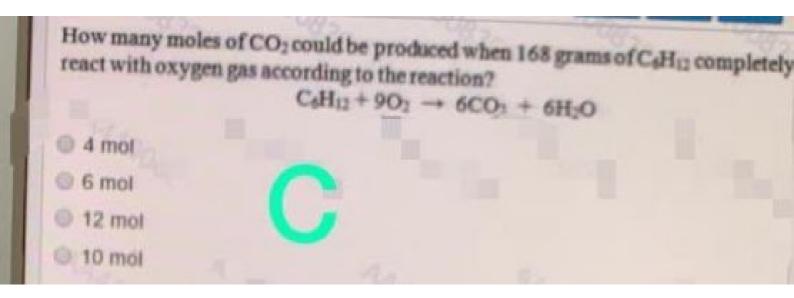


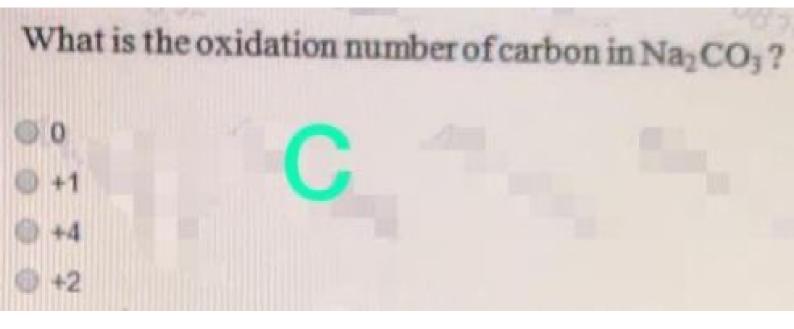


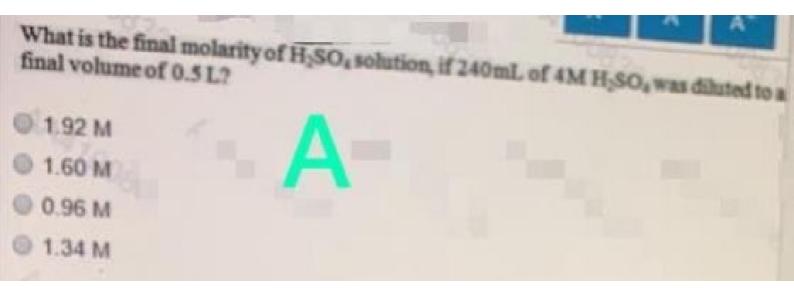


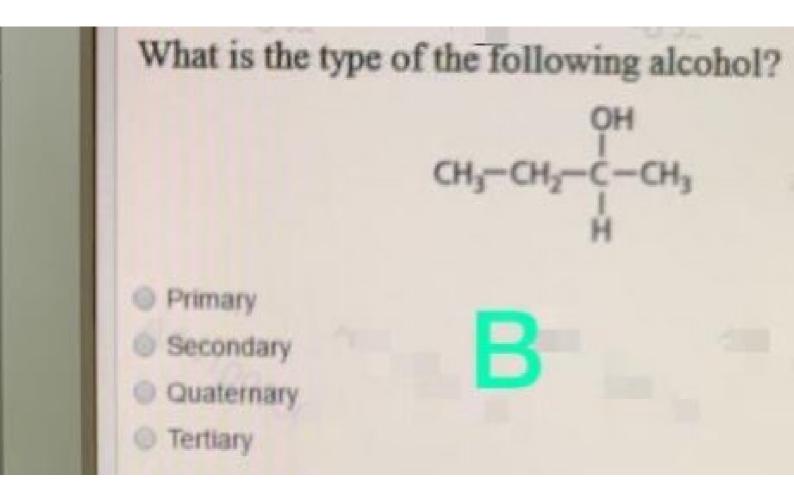


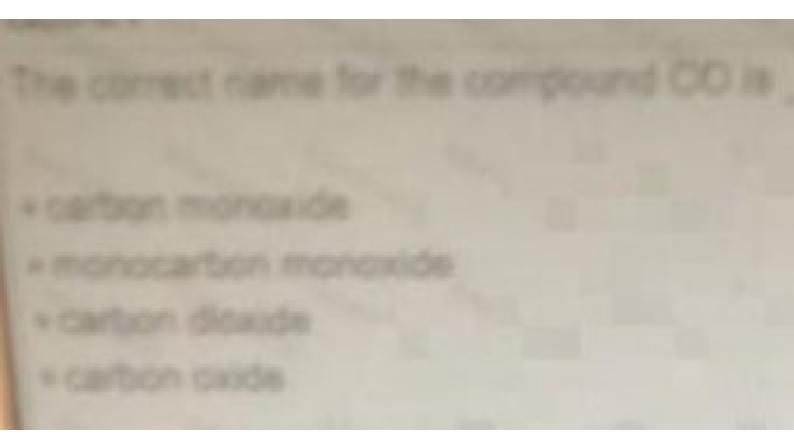


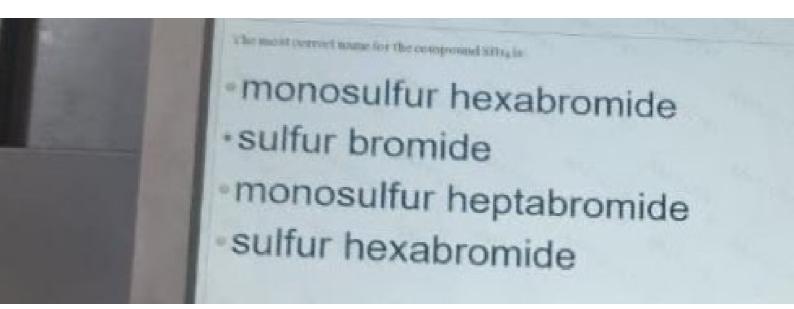


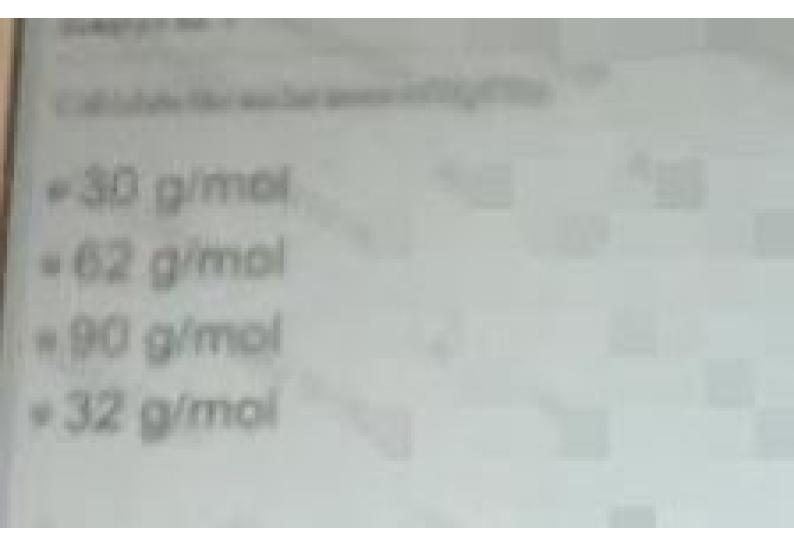


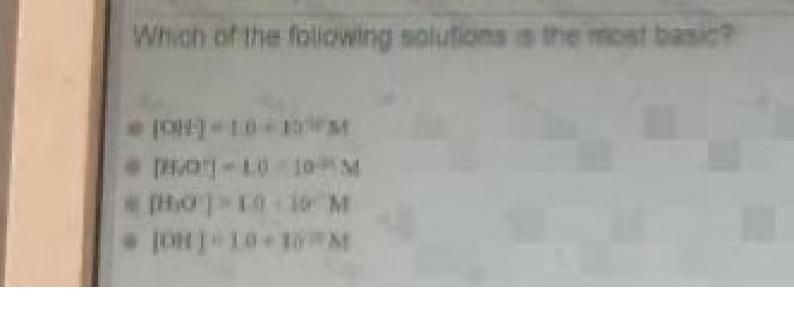


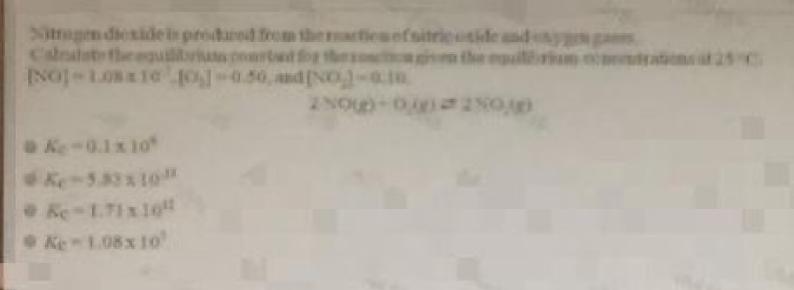


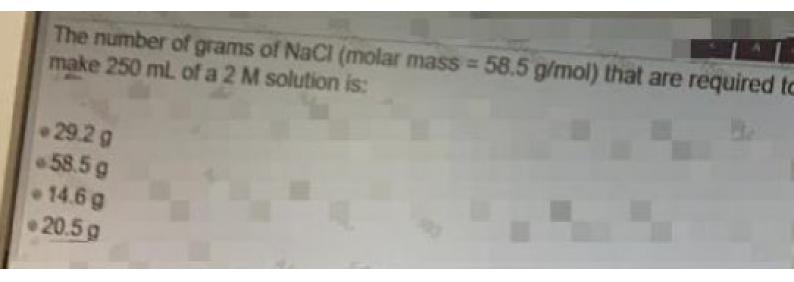


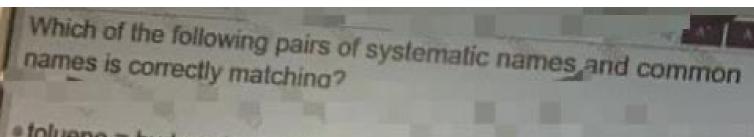




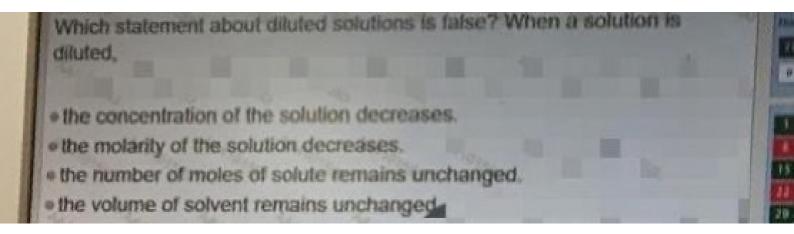


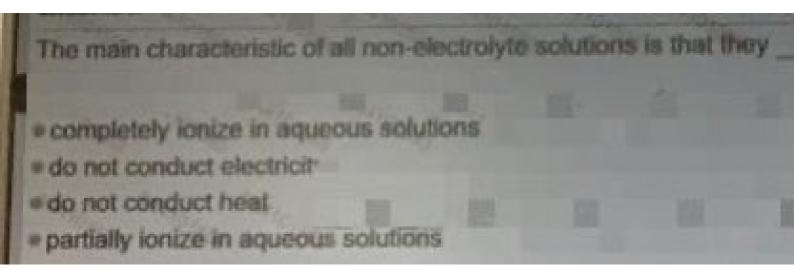


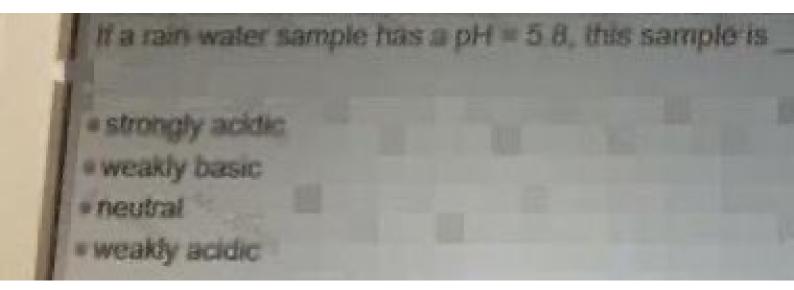


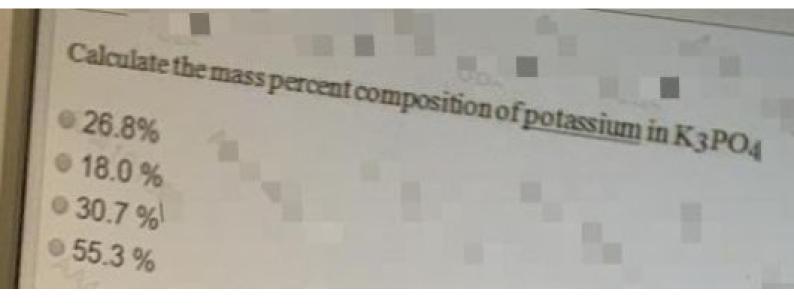


toluene = hydroxybenzene
 phenol = methylbenzene
 aniline = aminobenzene
 acetylene = ethene





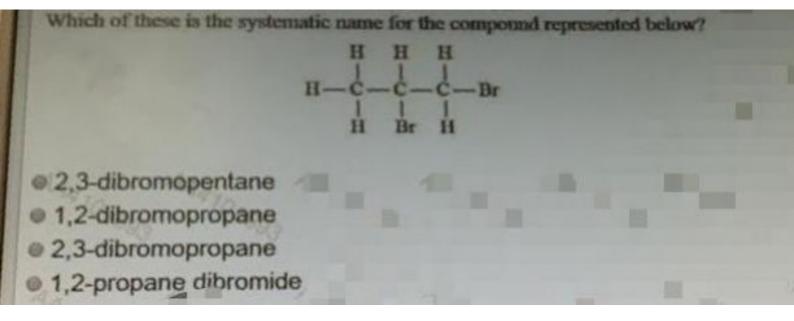


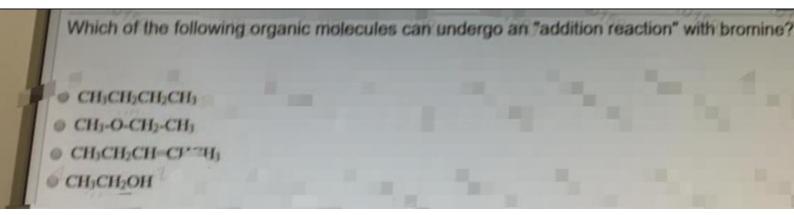


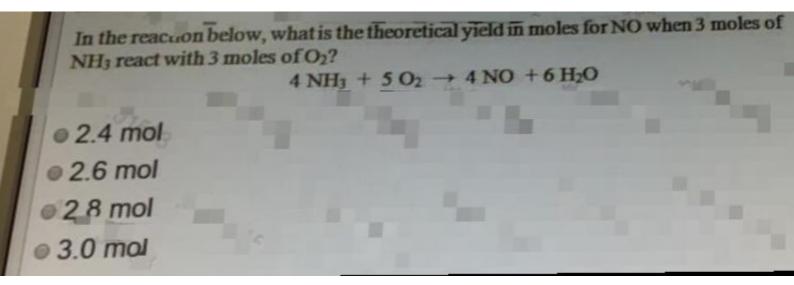
For the reaction $N_2(g)$ + 2H₂(g) \rightleftharpoons N₂H₄(g) (endothermic), Which conditions will increase the amount of produced N₂H₄?

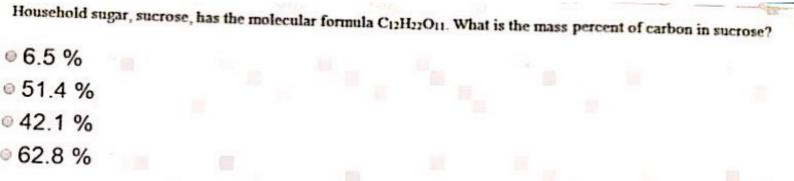
- higher temperature & higher pressure
- higher temperature & lower pressure
- Iower temperature & higher pressure
- Iower temperature & lower pressure

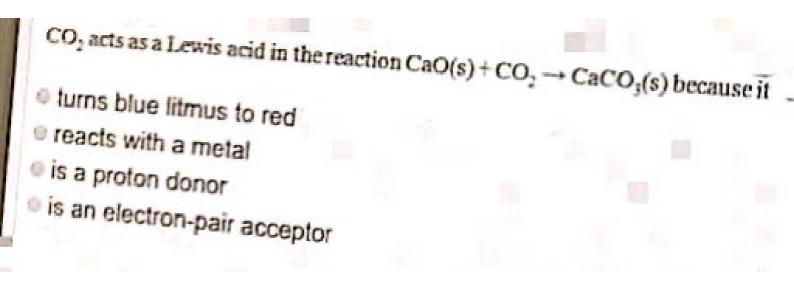
What is the common name for HCECH? • acetylene • ethene • propyne • ethylene

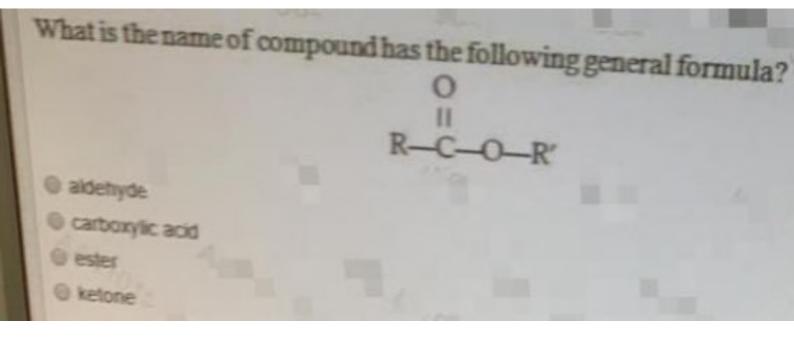


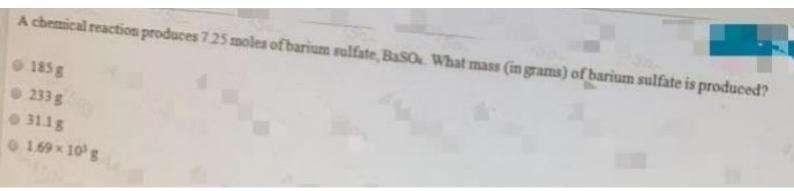


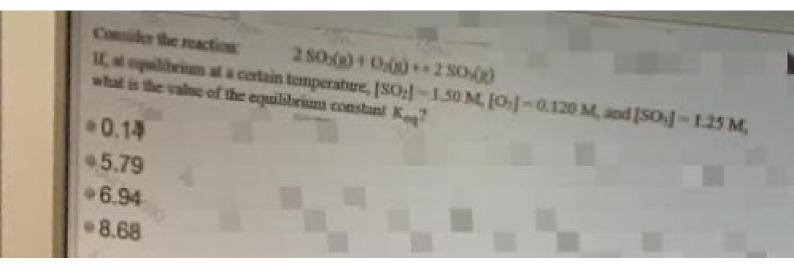


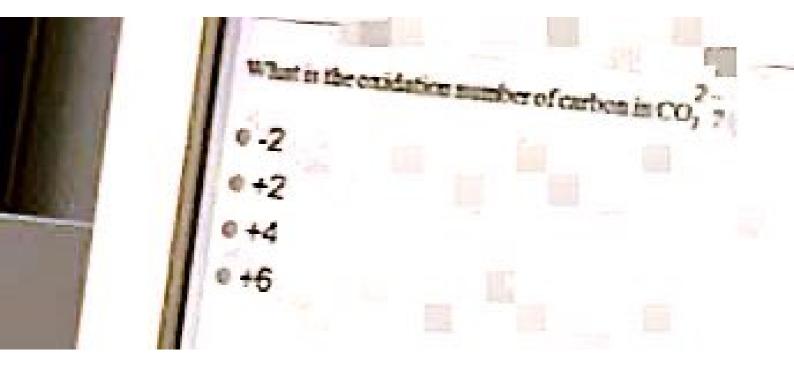


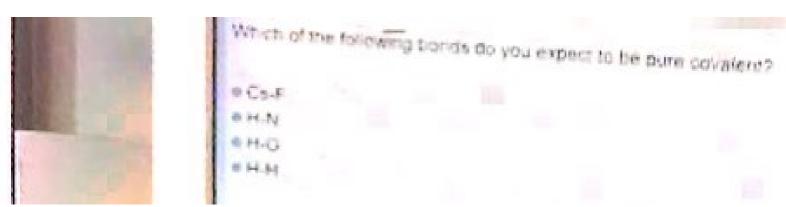


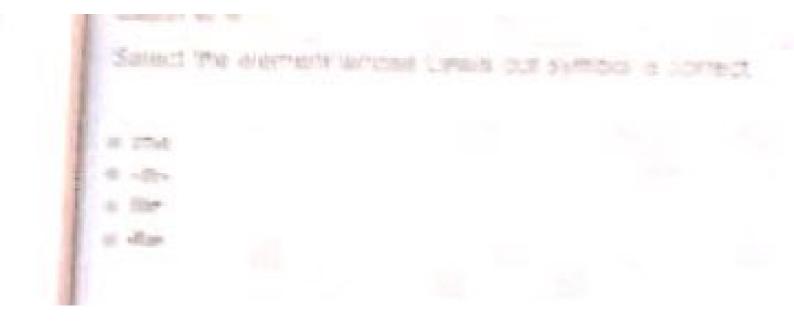




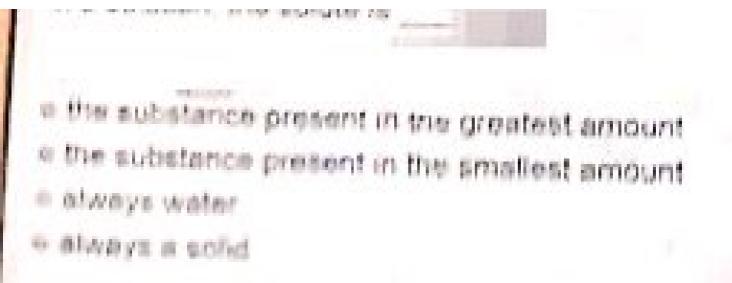


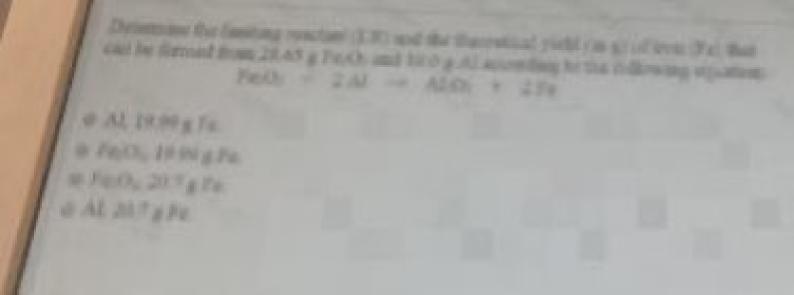


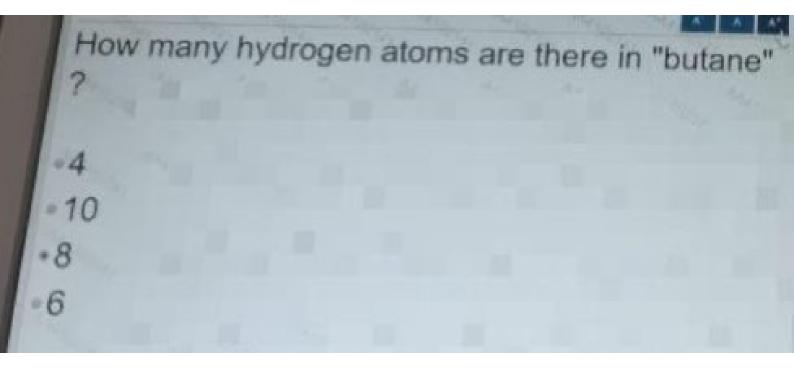


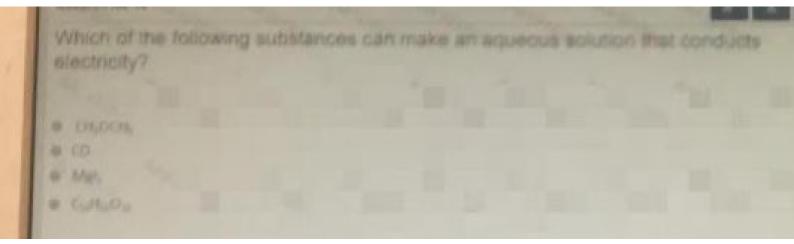


The correct name for the compound GO is • carbon monoxide • monocarbon monoxide • carbon dioxide • carbon oxide









The IUPAC name for "ethylene" is ethane. ethanene. cycloethane.

