



7\Ya ]WJ`'9b[ ]bYYf]b[

; fci d'Bi a VYf'. 1

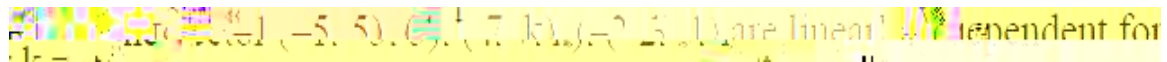
; fci d'X'. 34058050

; fci d'A Ul ]a i a '8i fUh]cb'. 0

; fci d'A ]b]a i a '8i fUh]cb'.

E i Ygh]cb`Bi a VYf`:%E i Ygh]cb`X`" (\$), \$), , %E i Ygh]cb`HndY`A 7E`Cdh]cb`G\i ZZ]b[ `:M'g`  
8]gd`UmE i Ygh]cb`Bi a VYf`M'g`gE i Ygh]cb`A UbXUhcfm.`B c`7U`W`Uhc f`B cbY`FYgdcbgY`H]a Y`  
. B "5`H\]b\_`H]a Y`B "5`A ]b]a i a `=bghfi W]cb`H

7cffYVh`A Uf\_g`:%K fcb[ `A Uf\_g`:\$

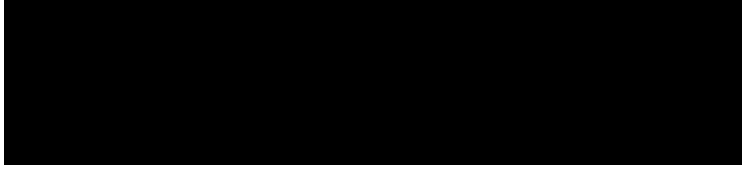


Cdh]cbg`:

34058023521. 🌱

E i Ygh]cb`Bi a VYf`." E i Ygh]cb`X`." (\$), \$), , ' E i Ygh]cb`HndY`A 7E`Cdh]cb`G\i ZZ]b[ `: `Mg`  
8]gd`UmE i Ygh]cb`Bi a VYf`. `Mg`=gE i Ygh]cb`A UbXUhcfm. `Bc`7U`W`Uhc f`. `BcbY`FYgdcbgY`H]a Y`  
. `B`"5`H\]b\_`H]a Y`. `B`"5`A`]b]a i a `=bghfi`W]cb`H`

7cffYWh`A Uf\_g` K fcb[ `A Uf\_g`



Cdh]cbg`

Cdh]cbg`



34058023543. 🌱 -1

34058023544. 🌱 0

E i Ygh]cb`Bi a VYf`:+E i Ygh]cb`X`:" (\$), \$), , +E i Ygh]cb`HmdY`A 7E`Cdh]cb`G\i ZZ]b[ `:Wg`







9bUV`Y`A Uf\_`Ug`5bgk YfYX`A Uf\_`Zcf`FYj ]Yk `UbX`

Yes

7`YUf`FYgdcbgY`.

A Ul ]a i a `bghfi W]cb`H]a Y`.

0

Gi V!GYW]cb`Bi a VYf`.

1

Gi V!GYW]cb`=>X`.

34058093

E i Ygh]cb`G\i ZZ]b[ `5`ck YX`.

Yes

E i Ygh]cb`Bi a VYf`.%%E i Ygh]cb`=>X`." (\$), \$), -%E i Ygh]cb`HrdY`.A 7E `Cdh]cb`G\i ZZ]b[ `Mg`  
8]gd`UmE i Ygh]cb`Bi a VYf`.Mg`=gE i Ygh]cb`A UbXUhcfm.`B c`7U`W`Uhc f`.B cbY`FYgdcbgY`H]a Y`  
.B "5`H`]b\_`H]a Y`.B "5`A ]b]a i a `bghfi W]cb`H]a Y`. \$

7cffYW`A Uf\_g`.%K fcb[ `A Uf\_g`. \$



Cdh]cbg`.

34058023561. ✓ Mass



Which of the following can change if only the catalyst is changed in a reaction system?

Reaction rate

34058023573.

Equilibrium constant

34058023574.

Activation energy

34058023575.

Free energy of the reaction

34058023576.

Equilibrium constant

Reaction rate is affected by the catalyst, but the equilibrium constant, activation energy, and free energy of the reaction are not affected by the catalyst.

Reaction rate is affected by the catalyst.

The largest unit of energy is the joule.

Reaction rate

34058023577.

Equilibrium constant

34058023578.

Joule

34058023579.

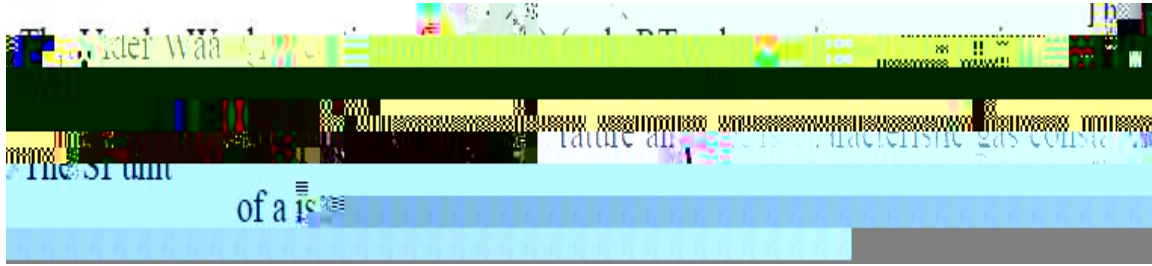
Calorie

34058023580.

FT

Reaction rate is affected by the catalyst, but the equilibrium constant, activation energy, and free energy of the reaction are not affected by the catalyst.

7cfffYVhA Uf\_g'.%K fcb[ 'A Uf\_g'. '\$



Cdhjcbg:

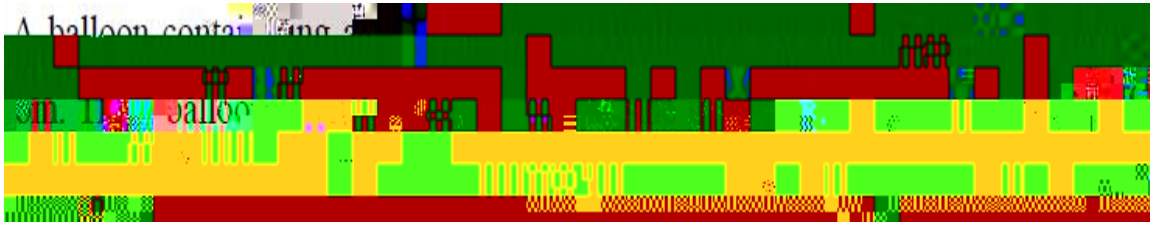
34058023581.  J/kg. K

34058023582.  m<sup>3</sup>/kg



.B"5'H\]b\_H]a Y:B"5'A ]b]a i a 'bghfi Vh]cb'H]a Y:.\$

7cffYVh'A Uf\_g:.%K fcb[ 'A Uf\_g:.\$



Cdh]cbg:.



34058023593. 🌱

34058023594. 🌱

E i Ygh]cb'Bi a VYf

'E i Ygh]cb'X

( , -

'E i Ygh]cb'HndY—

E — d

E i Ygh]cb`Bi a VYf`.'&`E i Ygh]cb`X`." (\$), \$) - '\$`E i Ygh]cb`HndY`.'A 7E`C dh]cb`G\i ZZ]b[`. 'M'g`  
8]gd`UmE i Ygh]cb`Bi a VYf`.'M'g`=gE i Ygh]cb`A UbXUhcfm.`B c`7U`W`Uhc f`.'B cbY`F YgdcbgY`H]a Y`  
. B "5`H\]b`\_H]a Y`. B "5`A`]b]a i a` `=bghfi W]cb`H]a Y`. \$


7cffYVh`A Uf\_g`.'%K fcb[`A Uf\_g`.'\$



Cdh]cbg`.

34058023609.  1.01

34058023610.   $7.1 \times 10^5$

34058023611.  

34058023612.







34058023631. ✓ 1s

34058023632. 🌱 0.5s

E i Ygh]cb`Bi a VYf`.&- `E i Ygh]cb`X`." (\$), \$) - \$- `E i Ygh]cb`HmdY`A 7E `Cdh]cb`G\i ZZ]b[ `M'g`  
8]gd`UmE i Ygh]cb`Bi a VYf`.M'g`gE i Ygh]cb`A UbXUhcfm.`B c`7U`W`Uhc f`.B cbY`FYgdcbgY`H]a Y`  
.B "5`H\]b\_`H]a Y`.B "5`A ]b]a i a `bghfi W]cb`H]a Y`. \$

7cffYVhA Uf\_g`.%K fcb[ `A Uf\_g`. \$



Cdh]cbg`.

34058023633. 🌱 4

34058023634. 🌱 16

34058023635. ✓ 🌱

34058023636. 🌱 64



C dhja :

34058023645.



34058023646.



34058023647.



34058023648.



Cdh]cbg:

34058023653. ✓ Sieve

34058023654. Optic

34058023655. SEM

34058023656. TEM

Ei Ygh]cb`Bi a VYf:." ) `Ei Ygh]cb`X:." ( \$ ) , \$) - % `Ei Ygh]cb`HndY: `A 7E `Cdh]cb`G\i ZZ]b[ : `M'g`  
8]gd`UmEi Ygh]cb`Bi a VYf: `M'g`gEi Ygh]cb`A UbXUhcfm: `Bc`7U`W`Uhc`f: `BcbY`FYgdcbgY`H]a Y`  
`B`5`H`]b`\_`H]a Y: `B`5`A`]b]a i a `bghfi W]cb`H]a Y: \$

7cffYVh`A Uf\_g: %K fcb[ `A Uf\_g: \$

The particle size distribution curves are extremely useful for classification of particles.

Cdh]cbg:

34058023657. Fine grained

34058023658. ✓ Coarse grained

34058023659. [Redacted]

34058023660. Silts and clays


Ei Ygh]cb`Bi a VYf:." \* `Ei Ygh]cb`X:." ( \$ ) , \$) - %\* `Ei Ygh]cb`HndY: `A 7E `Cdh]cb`G\i ZZ]b[ : `M'g`  
8]gd`UmEi Ygh]cb`Bi a VYf: `M'g`gEi Ygh]cb`A UbXUhcfm: `Bc`7U`W`Uhc`f: `BcbY`FYgdcbgY`H]a Y`  
`B`5`H`]b`\_`H]a Y: `B`5`A`]b]a i a `bghfi W]cb`H]a Y: \$



7cffYVh`A Uf\_g: %K fcb[ `A Uf\_g: \$

In which...  
impurities will...  
...take place by the contact...

Cdh]cbg:

34058023661.  Flocculent settling

34058023662.  Hindered settling

34058023663.   Compressive settling

34058023664.   Discrete settling

E i Ygh]cb'Bi a VYf'. ' +C

A

.B "5 'H\ ]b\_ 'H]a Y :B "5 'A ]b]a i a ' ðghfi Vh]cb

7cffYVh'A Uf\_g 'K fcb[ 'A Uf\_g



8]gd`UmE i Ygh]cb`Bi a VYf`.M'g'=g'E i Ygh]cb`A Ubf

A A A

A A

.B"5`H\]bú A A A

7cffYVh'A Ufú A A A

The principle of mixing is -

Cdh]cbg:

8]gd`UmE i Ygh]cb`Bi a VYf`.M'g'=g'E i Ygh]cb`A UbXUhcfm. Bc`7U`W`Uhc f`.BcbY`FYgdcbgY`H]a Y







E i Ygh]cb`Bi a VYf`.) \$`E i Ygh]cb`X`." (\$), \$) -' \$`E i Ygh]cb`HrdY`.'A 1 A

A

8]gbž ]b[ `.^h]cb`HrdY`f`.) \$`E i



34058023732.

First list of the word



E i Ygh]cb`Bi a VYf:) \*`E i Ygh]cb`X:" (\$), \$) -' \*`E i Ygh]cb`HrdY:`A 7E`C dh]cb`G\i ZZ]b[ :`M'g`  
8]gd`UmE i Ygh]cb`Bi a VYf:`M'g`=gE i Ygh]cb`A UbXUhc`fm.`B c`7U`W`Uhc`f:`B cbY`F YgdcbgY`H]a Y`  
. B "5`H\ ]b\_`H]a Y:`B "5`A ]b]a i a `=bghfi W]cb`H]a Y:`\$



34058023754. Real

34058023755. For

The relation is

Fick's law is given by the formula

34058023757. ✓  $N_x = -D_{bc} \frac{dC_b}{dy}$

$$N_x = -2 D_{bc} \frac{dC_b}{dy}$$

34058023759.  $N_x = -3 D_{bc} \frac{dC_b}{dy}$

34058023760.  $N_x = -4 D_{bc} \frac{dC_b}{dy}$

34058023762. ✓  $L^2 T^{-1}$

34058023763. 🌱   $L T$



How will you separate p-Xylene and m-Xylene from their mixture?

Cdhjcbg:

34058023777. ✓ Crystallization

34058023778.

Membrane filtration can be divided into three types.

Cdh]cbg:

34058023785. The length of the membrane

34058023786. The diameter of the membrane

34058023787. The amount of membrane

34058023788. The pore size sites in the membrane

E i Ygh]cb`Bi a VYf`.\*, 'E i Ygh]cb`X`.' (\$), \$) - (, 'E i Ygh]cb`HmdY`.'A 7E`C dh]cb`G\i ZZ]b[`.'M'g` 8]gd`UmE i Ygh]cb`Bi a VYf`.'M'g`=g'E i Ygh]cb`A UbXUhc fm.'B c`7U`W`Uhc f`.'B cbY`FYgdcbgY`H]a`Y` .B`5`H\]b\_`H]a`Y`.'B`5`A`]b]a`i`a`=bghfi`W]cb`H]a`Y`.\$

7cffYVhA`Uf\_g`.%K`fcb[`A`Uf\_g`.\$

The minimum energy must affect the

Cdh]cbg:

34058023789. Temperature

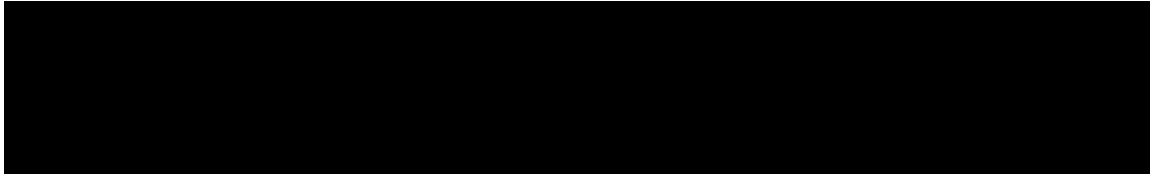
34058023790. Potential Energy

34058023791. Activation Energy

34058023792. Kinetic energy

E i Ygh]cb`Bi a VYf`.\*- 'E i Ygh]cb`X`.' (\$), \$) - (- 'E i Ygh]cb`HmdY`.'A 7E`C dh]cb`G\i ZZ]b[`.'M'g` 8]gd`UmE i Ygh]cb`Bi a VYf`.'M'g`=g'E i Ygh]cb`A UbXUhc fm.'B c`7U`W`Uhc f`.'B cbY`FYgdcbgY`H]a`Y` .B`5`H\]b\_`H]a`Y`.'B`5`A`]b]a`i`a`=bghfi`W]cb`H]a`Y`.\$

7cffYVhA Uf\_g: %K fcb[ A Uf\_g: \$



Cdh]cbg:

34058023793. We is n... l... on the...

34058023794. Rate is inversely proportional to the surface covera...

34058023795. Rate is independent...





34058023808.


34058023815. ✓ 

34058023816. 

E i Ygh]cb`Bi a VYf`:+) `E i Ygh]cb`X:" ( \$), \$ - ) `E i Ygh]cb`HmdY` :A 7E `Cdh]cb`G\i ZZ]b[ ` :M'g`  
8]gd`UmE i Ygh]cb`Bi a VYf` :M'g`=g`E i Ygh]cb`A UbXUhcfm. `B c`7U`W`Uhc f`. `B cbY`FYgdcbgY`H]a Y`  
. `B "5`H\ ]b\_`H]a Y` :B "5`A ]b]a i a `=bghfi W]cb`H]a Y` :\$  
7cffYVh`A Uf\_g` :%K fcb[ `A Uf\_g` :\$



Cdh]cbg`:

34058023817. 

34058023818. ✓ 0.75 

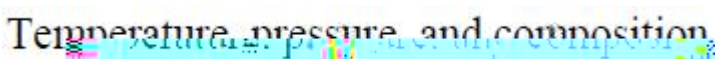
34058023819. 

34058023820.  0.9

E i Ygh]cb`Bi a VYf` :+\* `E i Ygh]cb`X:" ( \$), \$ - ) \* `E i Ygh]cb`HmdY` :A 7E `Cdh]cb`G\i ZZ]b[ ` :M'g`  
8]gd`UmE i Ygh]cb`Bi a VYf` :M'g`=g`E i Ygh]cb`A UbXUhcfm. `B c`7U`W`Uhc f`. `B cbY`FYgdcbgY`H]a Y`  
. `B "5`H\ ]b\_`H]a Y` :B "5`A ]b]a i a `=bghfi W]cb`H]a Y` :\$  
7cffYVh`A Uf\_g` :%K fcb[ `A Uf\_g` :\$



Cdh]cbg`:

34058023821. ✓  Temperature, pressure, and composition



Cdhjcbg:

34058023829.  

34058023830.  0-20 mA

34058023831.  

34058023832.  

Cdhjcbg:

34058023837. ✓

7cffYVhA Uf\_g: %K fcb[ A Uf\_g: \$

8]gd`UmE i Ygh]cb`Bi a VYf`. `Mg`=gE i Ygh]cb`A UbXUhcfm. `Bc`7U`W`Uhc f`. `BcbY`FYgdcbgY`H]a Y`  
. `B`"5`H\]b\_`H]a Y`. `B`"5`A`]b]a i a `=bghfi W]cb`H]a Y`. \$

7cffYVhA Uf\_g`. %K fcb[ `A Uf\_g`. \$



34058023855.

34058023856.

E i Ygh]cb`Bi a VYf`. ; ) `E i Ygh]cb`X`. " ( \$ ) , \$ - \* `E i Ygh]cb`HmdY`. `A`7E`Cdh]cb`G\i`ZZ]b[`. `Mg`  
8]gd`UmE i Ygh]cb`Bi a VYf`. `Mg`=gE i Ygh]cb`A UbXUhcfm. `Bc`7U`W`Uhc f`. `BcbY`FYgdcbgY`H]a Y`  
. `B`"5`H\]b\_`H]a Y`. `B`"5`A`]b]a i a `=bghfi W]cb`H]a Y`. \$

7cffYVhA Uf\_g`. %K fcb[ `A Uf\_g`. \$



Cdh]cbg`.  
Cdh]cbg`.

34058023853.

34058023857.

34058023854.

34058023858.

34058023859.

34058023860.





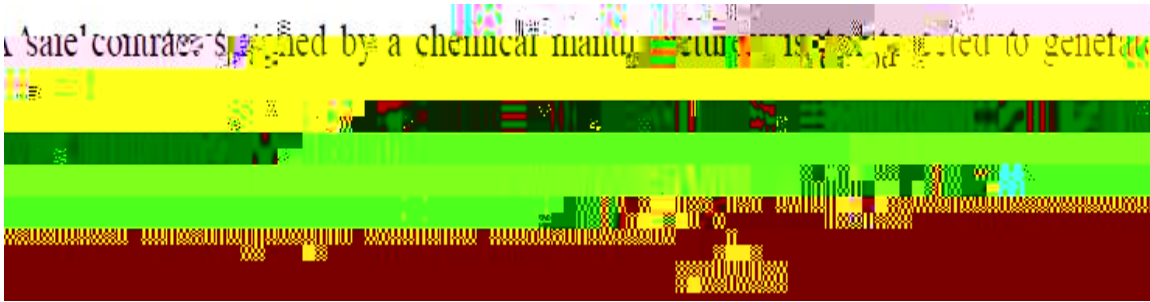




34058023884.



E i Ygh]cb`Bi a VYf`.- &E i Ygh]cb`X`." (\$), \$) - +&E i Ygh]cb`HmdY`A 7E`C dh]cb`G\i ZZ]b[ `:M'g`  
8]gd`UmE i Ygh]cb`Bi a VYf`.M'g`=gE i Ygh]cb`A UbXUhc`fm. B c`7U`W`Uhc`f`. B cbY`F YgdcbgY`H]a Y`  
. B "5`H ]b\_`H]a Y`. B "5`A ]b]a i a `=bghfi W]cb`H]a Y`. \$  
7cffYVh`A Uf\_g`. %K fcb[ `A Uf\_g`. \$



Cdh]cbg`.

34058023885.



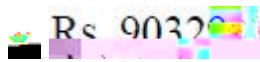
34058023886. ✓



34058023887.



34058023888.



E i Ygh]cb`Bi a VYf`.- ' E i Ygh]cb`X`." (\$), \$) - +' E i Ygh]cb`HmdY`A 7E`C dh]cb`G\i ZZ]b[ `:M'g`  
8]gd`UmE i Ygh]cb`Bi a VYf`.M'g`=gE i Ygh]cb`A UbXUhc`fm. B c`7U`W`Uhc`f`. B cbY`F YgdcbgY`H]a Y`  
. B "5`H ]b\_`H]a Y`. B "5`A ]b]a i a `=bghfi W]cb`H]a Y`. \$  
7cffYVh`A Uf\_g`. %K fcb[ `A Uf\_g`. \$

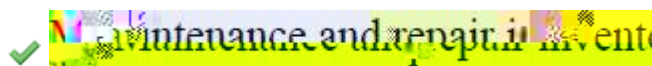


Cdh]cbg`.

34058023889.



34058023890. ✓





Indirect contact heat exchange



34058023905. ✓ Depreciation

34058023906. Depletion

34058023907. Copyright

34058023908. Royalty

E i Ygh]cb`Bi a VYf`:-, `E i Ygh]cb`X:" (\$), \$) - +, `E i Ygh]cb`HndY`A 7E `Cdh]cb`G\i ZZ]b[ `:M'g`  
8]gd`UmE i Ygh]cb`Bi a VYf`.M'g`g`E i Ygh]cb`A UbXUhcfm.`B c`7U`W`Uhc f`.B cbY`F YgdcbgY`H]a Y`  
.B "5`H\]b\_`H]a Y`.B "5`A ]b]a i a `bghfi W]cb`H]a Y`. \$

7cffYVh`A Uf\_g`:%K fcb[ `A Uf\_g`. \$

... relation is suggested for ...

Cdh]cbg:

34058023909. Diminishing

34058023910. E

34058023911. diet method

34058023912. ✓ Depletion

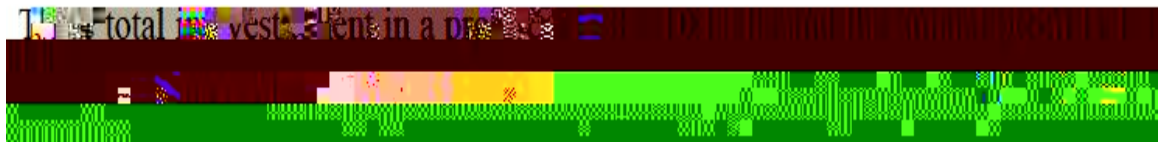
E i B`g]cb]B\_i`a]a VYf`.B "5E`i Ygh]cb`a`X`bghf`\$)M'g`b`H]a Y`g]cb`HndY`A 7E `Cdh]cb`G\i ZZ]b[ `:M'g`  
8]gd`UmE i Ygh]cb`Bi a VYf`.M'g`g`E i Ygh]cb`A UbXUhcfm.`B c`7U`W`







E i Ygh]cb`Bi a VYf`:%\$`E i Ygh]cb`X`" (\$), \$) -, 'E i Ygh]cb`HmdY`A 7E`C dh]cb`G\i ZZ]b[`.Mg`  
8]gd`UmE i Ygh]cb`Bi a VYf`.Mg`=gE i Ygh]cb`A UbXUhc fm. Bc`7U`W`Uhc f`.B cbY`FYgdc bgY`H]a Y`  
.B`5`H`]b`\_`H]a Y`.B`5`A`]b]a i a`=bghfi`W]cb`H]a Y`. \$  
7cffYVh`A Uf\_g`.%K fcb[ `A Uf\_g`. \$



C dh]cbg`:

34058023929. 15%

34058023930. 10%

34058023931.

34058023932. 150%

E i Ygh]cb`Bi a VYf`:%\$(`E i Ygh]cb`X`" (\$), \$) -, (`E i Ygh]cb`HmdY`A 7E`C dh]cb`G\i ZZ]b[`.Mg`  
8]gd`UmE i Ygh]cb`Bi a VYf`.Mg`=gE i Ygh]cb`A UbXUhc fm. Bc`7U`W`Uhc f`.B cbY`FYgdc bgY`H]a Y`  
.B`5`H`]b`\_`H]a Y`.B`5`A`]b]a i a`=bghfi`W]cb`H]a Y`. \$  
7cffYVh`A Uf\_g`.%K fcb[ `A Uf\_g`. \$



C dh]cbg`:

34058023933.

34058023934. Utilities

34058023935.

34058023936.

34058023942.  It is very costly

34058023943.  

34058023944.  It is not available

E i Ygh]cb`Bi a VYf`.%\$+E i Ygh]cb`X`." (\$), \$) -, +E i Ygh]cb`HmdY`A 7E `C dh]cb`G\i ZZ]b[ `:Mg`  
8]gd`UmE i Ygh]cb`Bi a VYf`.Mg`gE i Ygh]cb`A UbXUhc fm.`B c`7U`W`Uhc f`.B cbY`FYgdcbgY`H]a Y`

34058023950.  

34058023951.  

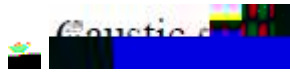
34058023952.  



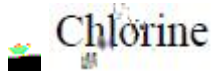
34058023965.



34058023966.



34058023967.



34058023968. ✓



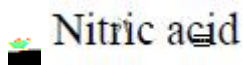
E i Ygh]cb`Bi a VYf`:%% `E i Ygh]cb`X`." (\$), \$) -- `E i Ygh]cb`HndY`:`A 7E `C dh]cb`G\i ZZ]b[ `: `Mg`  
8]gd`UmE i Ygh]cb`Bi a VYf`:`Mg`=g`E i Ygh]cb`A UbXUhc`fm.`B c`7U`W`Uhc`f`:`B cbY`F YgdcbgY`H]a Y`  
.`B "5`H` ]b`\_`H]a Y`:`B "5`A` ]b]a i a `=bghfi W]cb`H]a Y`:`\$

7cffYVWbXUf\_g`:`%b[ fcb[ bXUf\_g`:`\$

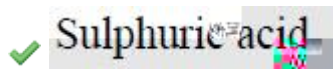


C dh]cbg`:

34058023969.



34058023970. ✓



34058023971.

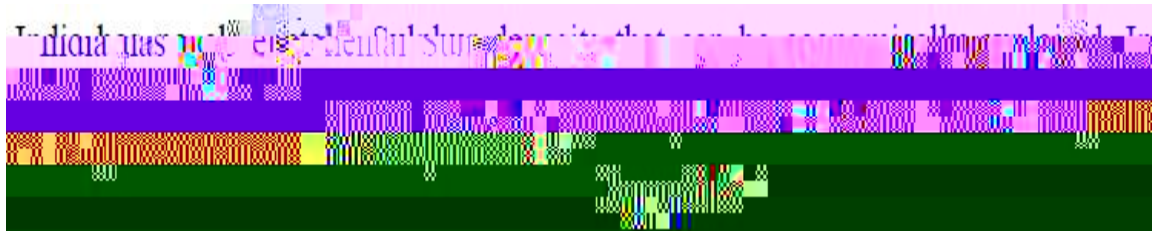


34058023972.



E i Ygh]cb`Bi a VYf`:%%( bUi Ygh]cb`X`." (\$), \$) -- ( bUi Ygh]cb`HndY`:`A 7E `C dh]cb`G\i ZZ]b[ `: `Mg`  
8]gd`UmE i Ygh]cb`Bi a VYf`:`Mg`=g`E i Ygh]cb`A UbXUhc`fm.`B c`7U`W`Uhc`f`:`B cbY`F YgdcbgY`H]a Y`  
.`B "5`H` ]b`\_`H]a Y`:`B "5`A` ]b]a i a `=bghfi W]cb`H]a Y`:`\$

7cffYVWbXUf\_g`:`%b[ fcb[ bXUf\_g`:`\$



Cdhjcbg:

34058023973.  

34058023974.  

34058023975.  





E i Ygh]cb`Bi a VYf`:%% `E i Ygh]cb`X`:" (\$), \$) --, `E i Ygh]cb`HmdY`:`A 7E `C dh]cb`G\i ZZ]b[ `:`Mg`  
8]gd`UmE i Ygh]cb`Bi a VYf`:`Mg`=g`E i Ygh]cb`A UbXUhc`fm. `B c`7U`W`Uhc`f`:`B cbY`F`YgdcbgY`H]a Y`  
.`B`"5`H`]b`\_`H]a Y`:`B`"5`A`]b]a i a` `=bghfi`W]cb`H]a Y`:`\$

7cffYVh`A`Uf\_g`:`%K`fcb[ `A`Uf\_g`:`\$



Cdh]cbg`:

34058023989.  Produced gas. Natural gas.

34058023990.  Natural gas, Producer gas, Water

34058023991.   Produced gas.

34058023992. 


E i Ygh]cb`Bi a VYf`:%% `E i Ygh]cb`X`:" (\$), \$) --- `E i Ygh]cb`HmdY`:`A 7E `C dh]cb`G\i ZZ]b[ `:`Mg`  
8]gd`UmE i Ygh]cb`Bi a VYf`:`Mg`=g`E i Ygh]cb`A UbXUhc`fm. `B c`7U`W`Uhc`f`:`B cbY`F`YgdcbgY`H]a Y`  
.`B`"5`H`]b`\_`H]a Y`:`B`"5`A`]b]a i a` `=bghfi`W]cb`H]a Y`:`\$

7cffYVh`A`Uf\_g`:`%K`fcb[ `A`Uf\_g`:`\$



Cdh]cbg`:

34058023993.  Remove water from copper

34058023994.  Treatment of water

34058023995. 

