

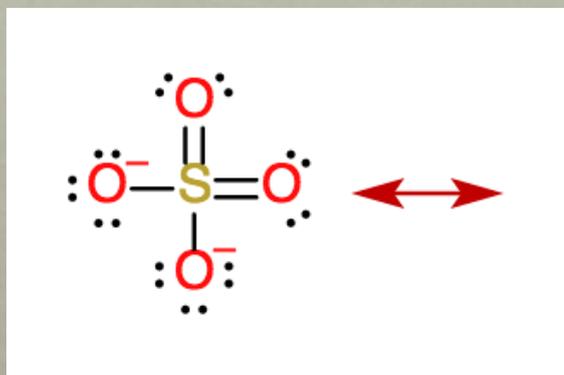
STRUTTURA MOLECOLARE E TAVOLA PERIODICA

Loriano Storchi

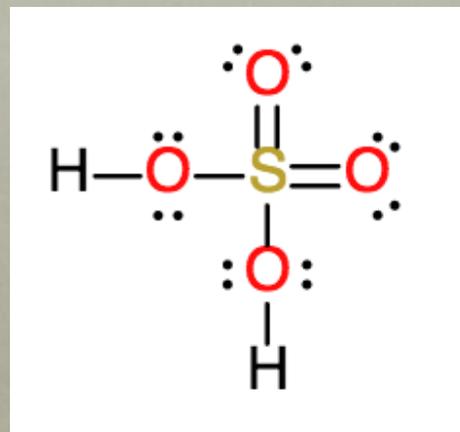
ARGOMENTI BASE

- Sapere disegnare la struttura di Lewis
- Sapere determinare le cariche formali
- Sapere determinare il numero di ossidazione
- Sapere determinare la geometria secondo la teoria VSEPR
- Sapere stimare gli angoli di legame
- Sapere determinare lo stato di ibridazione secondo la teoria VB
- Sapere determinare gli orbitali atomici coinvolti nella formazione del legame secondo la teoria VB
- Sapere determinare il tipo di forze intermolecolari che agiscono fra le molecole, ad esempio saper stimare il momento di dipolo (se uguale o diverso da zero). Quindi andamento dei punti di ebollizione, fusione.
- Caratteristiche acido base delle sostanze
- Sapere descrivere le caratteristiche dei vari tipi di legame chimico, covalente, ionico e metallico
- Conoscenza della tavola periodica, configurazione elettronica degli atomi, variazione di elettronegatività, energie di ionizzazione, raggi atomici. Numero atomico degli elementi numero di elettroni di valenza e di core e conoscenze base del nucleo atomico

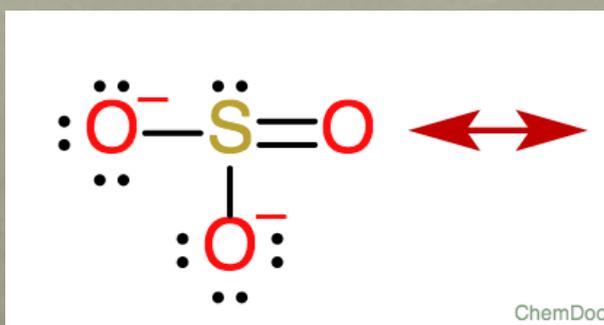
Strutture di lewis 1



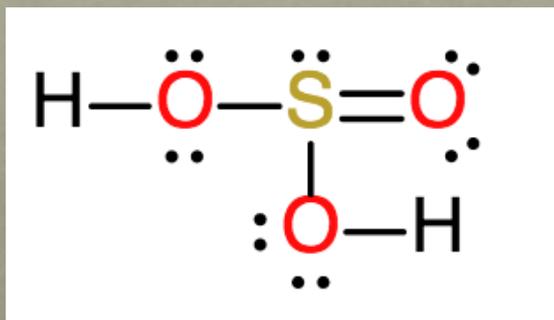
SOLFATO



ACIDO SOLFORICO

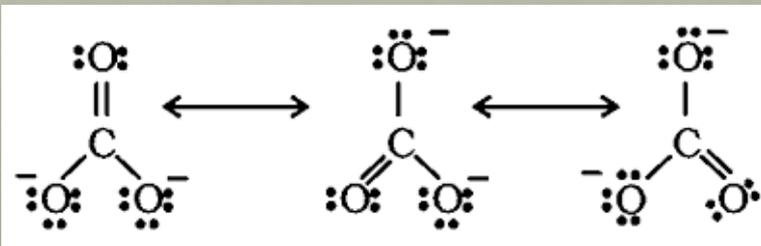


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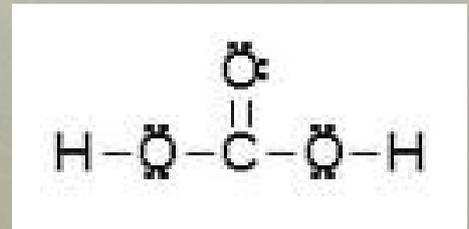


ACIDO
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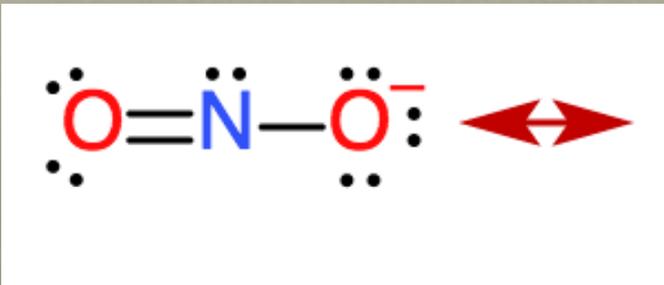
Strutture lewis 2



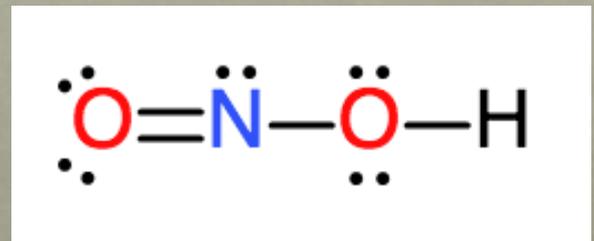
CARBONATO



ACIDO CARBONICO

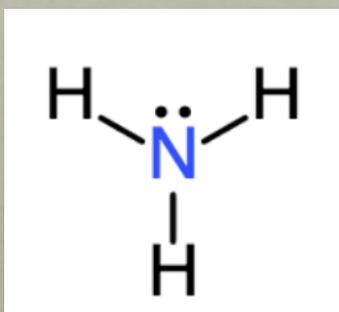


NITRITO

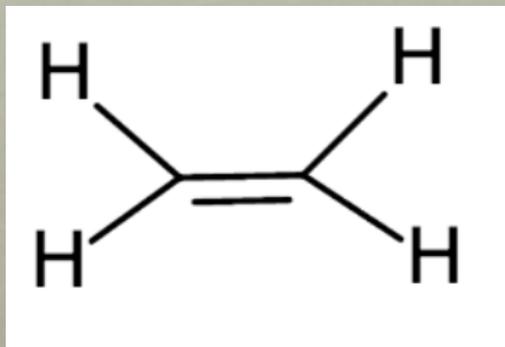


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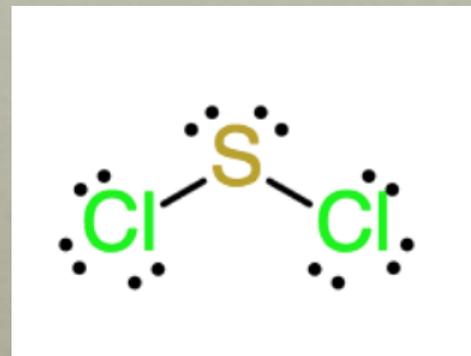
STRUTTURE LEWIS 3



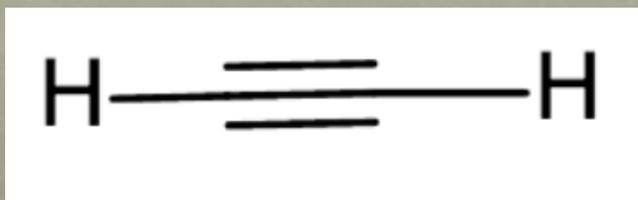
AMMONIACA



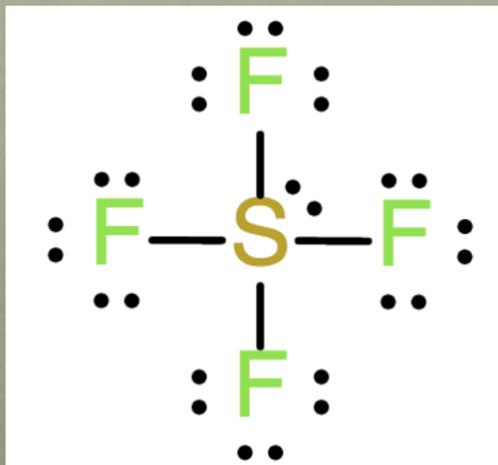
ETILENE



DICLORURO DI ZOLFO

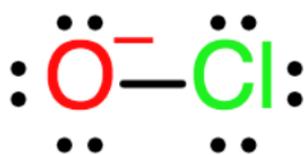


ACETILENE

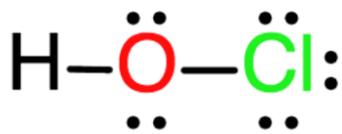


TETRAFLUORURO
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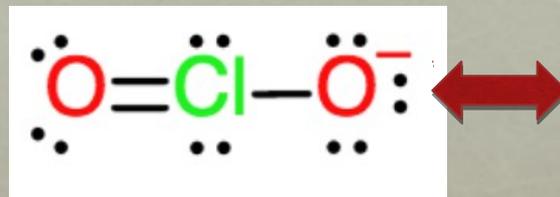
STRUTTURE LEWIS 4



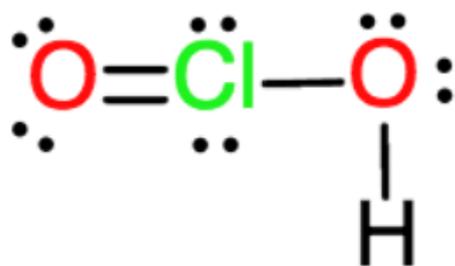
IPOCLORITO



ACIDO IPOCLOROSO



CLORITO

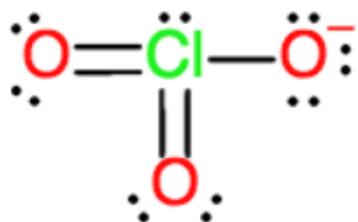


ACIDO CLOROSO

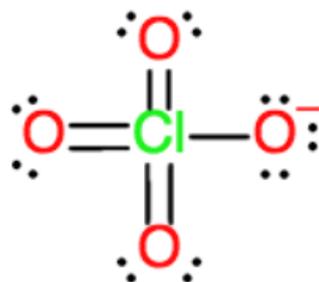


ACIDO CLORICO

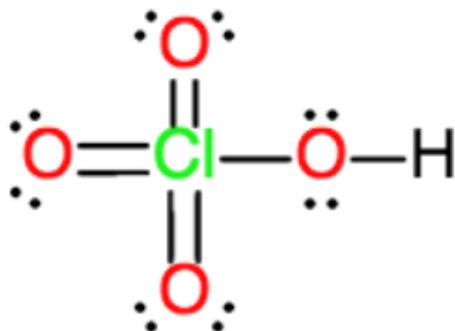
STRUTTURE LEWIS 5



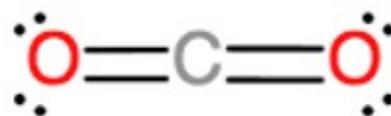
CLORATO



PERCLORATO

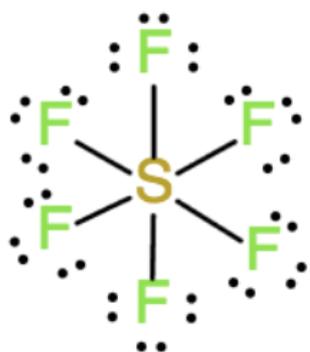


ACIDO
PERCLORICO

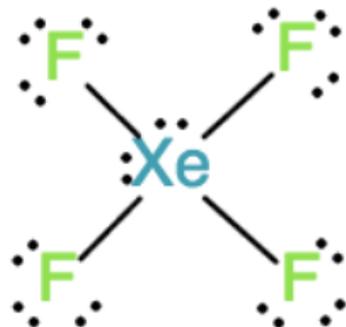


ANIDRIDE CARBONICA

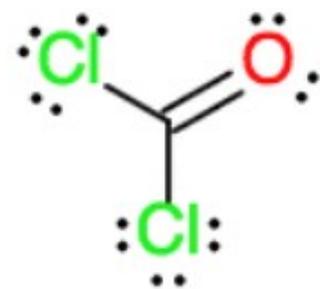
STRUTTURE LEWIS 6



ESAFLUORURO
DI ZOLFO



TETRAFLUORURO
DI XENO



CLORURO DI
CARBONILE
(FOSGENE)

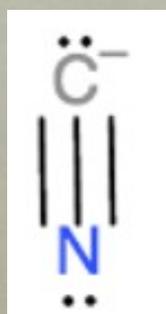


MONOSSIDO DI
CARBONIO



CIANATO

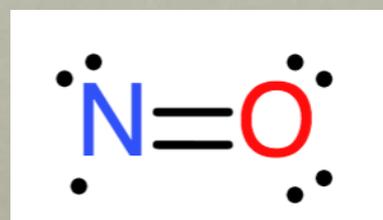
STRUTTURE LEWIS 7



CIANURO



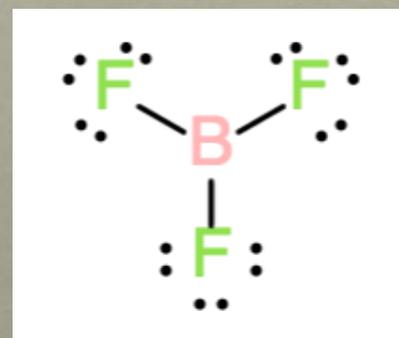
ACIDO
CIANIDRICO



MONOSSIDO DI
AZOTO

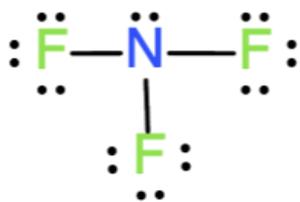


OZONO

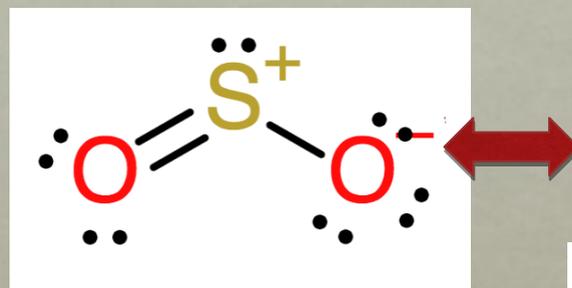


TRIFLUORURO DI BORO

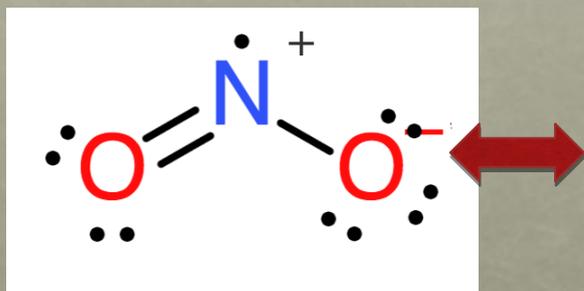
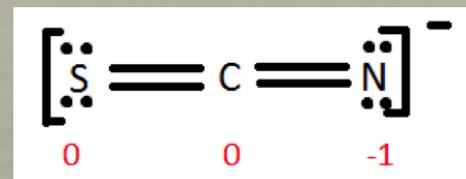
STRUTTURE LEWIS 8



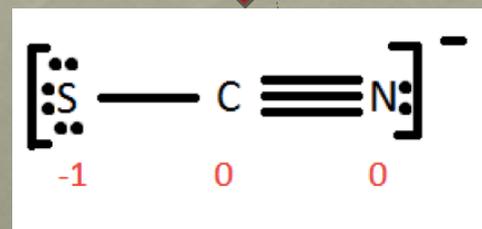
TRIFLUORURO DI
AZOTO



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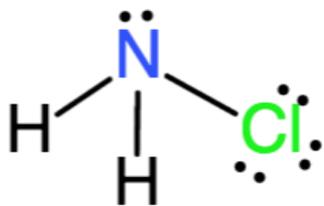


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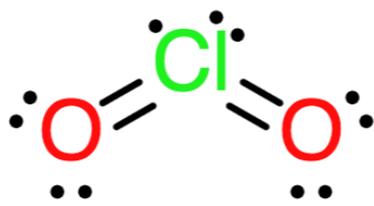


TIOCIANATO

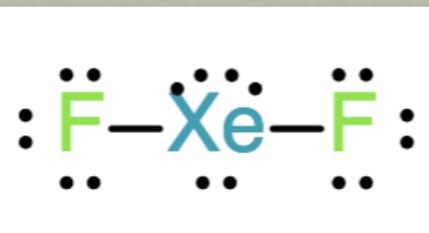
STRUTTURE LEWIS 9



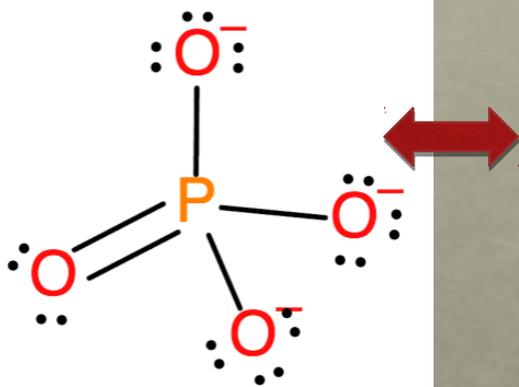
CLOROAMMINA



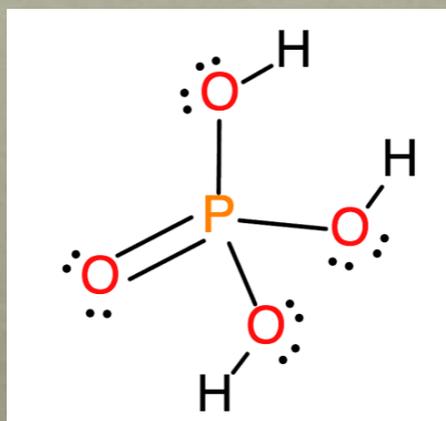
DIOSSIDO DI CLORO



DIFLUORURO DI XENO

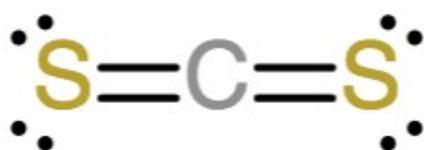


FOSFATO

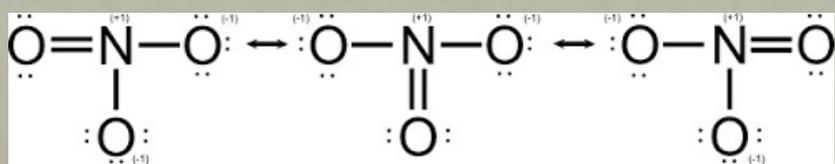


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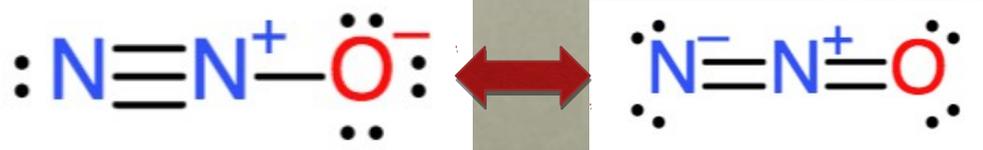
STRUTTURE LEWIS 10



DISOLFURO DI CARBONIO



NITRATO



MONOSSIDO DI DIAZOTO