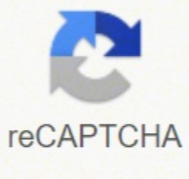




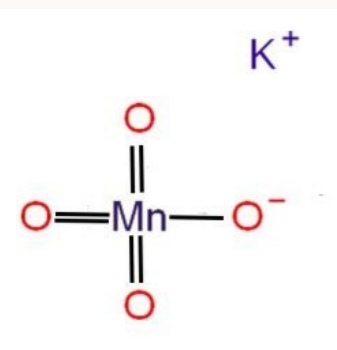
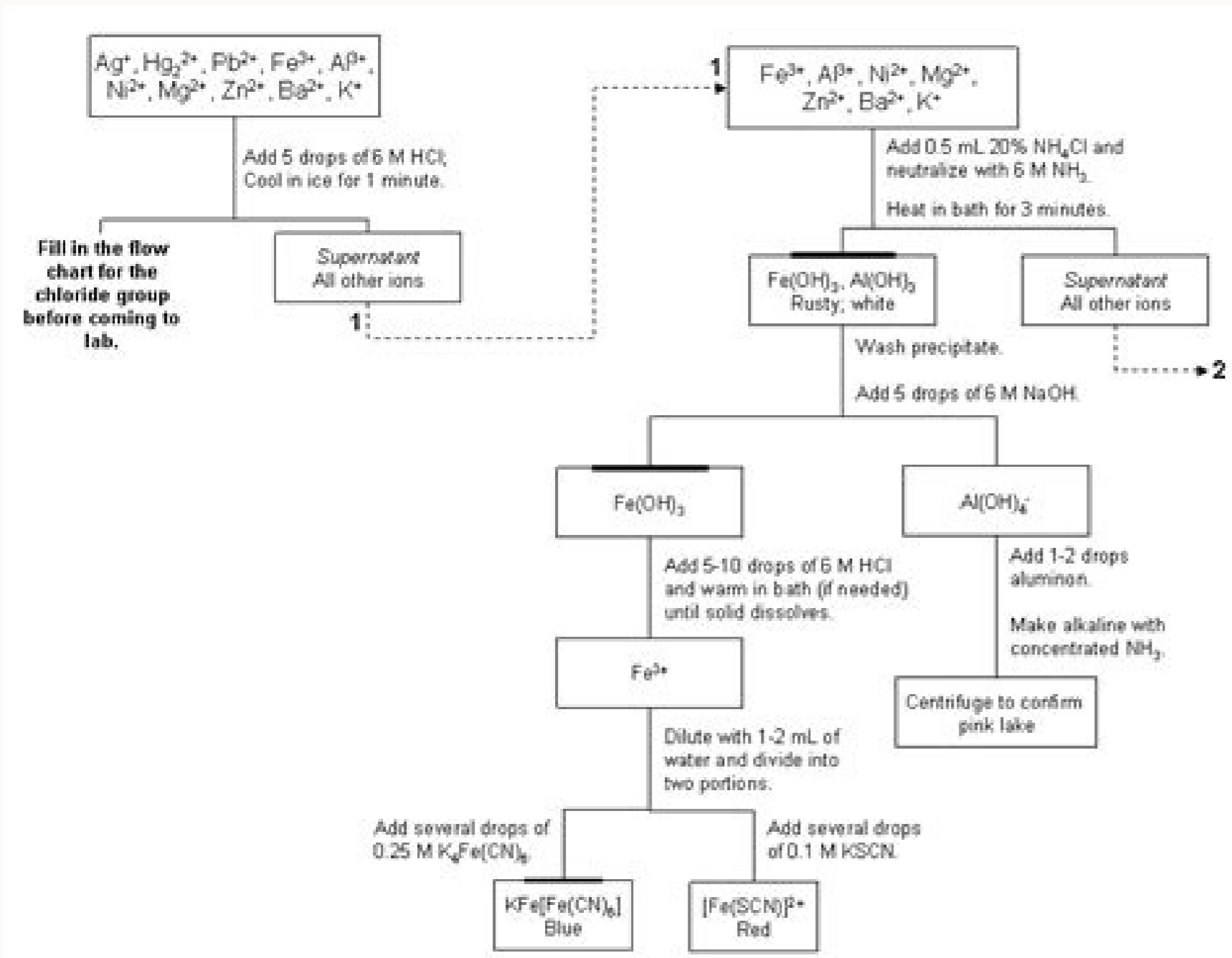
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### Alternative approach for example 1

$C(s) + O_2(g) \rightarrow CO_2(g)$	$\Delta H_{298}^\circ = -394 \text{ kJ mol}^{-1}$
$H_2(g) + \frac{1}{2}O_2(g) \rightarrow H_2O(g)$	$\Delta H_{298}^\circ = -286 \text{ kJ mol}^{-1}$
$C_3H_6(g) + 4\frac{1}{2}O_2(g) \rightarrow 3H_2O(g) + 3CO_2(g)$	$\Delta H_{298}^\circ = -2058.5 \text{ kJ mol}^{-1}$

$3C(s) + 3H_2(g) \rightarrow C_3H_6(g) \quad \Delta H_f = ?$

Re-write the equations so that the reactants and products are on the same side of the "arrow" as the equation you are interested in. Multiply each equation so that there are the same number of moles of each constituent also.

$3C(s) + 3O_2(g) \rightarrow 3CO_2(g)$	$\Delta H_c = 3 \times -394 \text{ kJ}$
$3H_2(g) + 1\frac{1}{2}O_2(g) \rightarrow 3H_2O(g)$	$\Delta H_c = 3 \times -286 \text{ kJ}$
$3H_2O(g) + 3CO_2(g) \rightarrow C_3H_6(g) + 4\frac{1}{2}O_2(g)$	$\Delta H_c = +2058.5 \text{ kJ}$

Equation has been reversed; (enthalpy now has opposite sign) ▶

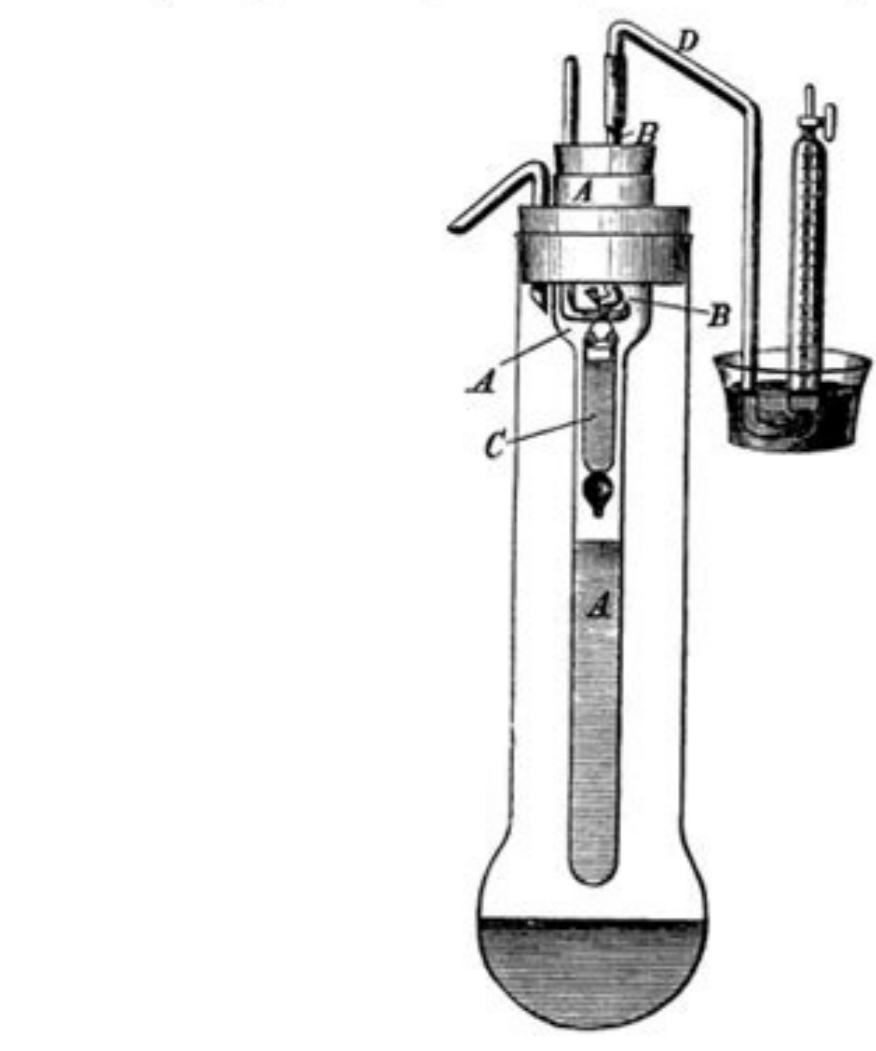
ANALYTICAL CHEMISTRY. 1341

phate" assisted the fermentations, and a very considerable loss of ammonia occurred. Lastly, experiment showed the importance of keeping the air from the dung, and that consequently less loss of ammonia occurs in the case of the dung being allowed to accumulate in the stalls than when it is regularly removed to a separate dung-heap.

J. W. L.

**Analytical Chemistry.**

**Apparatus for the Estimation of Nitrogen in Ammonium Salts.** By W. HENSCHEL (*Ber.*, 23, 2402-2403).—The method is based on the decomposition of ammonium salts by sodium hypobromite. The apparatus consists of an outer vessel similar to those employed in V. Meyer's vapour-density apparatus; it contains a small quantity of methyl alcohol, and is closed by a rubber stopper,



Aspect Minimal Approaches Enhanced. Quality by Design approaches approaches Production process  $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{e} \hat{s} \hat{o} \hat{l} \hat{v} \hat{e} \hat{d} \hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{v} \hat{a} \hat{l} \hat{i} \hat{d} \hat{a} \hat{t} \hat{i} \hat{o} \hat{n}$  based mainly on the initial lots on the integral scale  $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{f} \hat{o} \hat{c} \hat{u} \hat{s}$  on optimization and on the reproducibility  $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{a} \hat{d} \hat{e} \hat{a} \hat{d} \hat{u} \hat{s} \hat{t} \hat{a} \hat{b} \hat{l} \hat{e}$  Adjustable inside the design space  $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{l} \hat{i} \hat{f} \hat{e} \hat{c} \hat{y} \hat{c} \hat{l} \hat{e}$  life cycle approach to validation and, ideally,  $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{c} \hat{o} \hat{n} \hat{t} \hat{i} \hat{n} \hat{u} \hat{o} \hat{u} \hat{s}$  process verification  $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{f} \hat{o} \hat{c} \hat{u} \hat{s}$  on the control and robustness strategy  $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{u} \hat{s} \hat{e}$  Use of the methods of control of the statistical process 5423-09-2015 Visit [www.drugregulations.org](http://www.drugregulations.org) for the last time in pharmaceutical products.  $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{p} \hat{r} \hat{o} \hat{d} \hat{u} \hat{c} \hat{t}$  profile Quality target  $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{d} \hat{e} \hat{t} \hat{e} \hat{r} \hat{m} \hat{i} \hat{n} \hat{e}$  critical quality attributes (CQAs) Product Profile COAS Risk Evaluation Design Space Control Strategy Continuously Improvement Essential Elements in an approach QBD (Q8R2) 2423-09-2015 25.  $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{d} \hat{e} \hat{p} \hat{e} \hat{n} \hat{d} \hat{i} \hat{n} \hat{g}$  (scientific understanding) reached and a qualitative system in progress, there are opportunities to develop more flexible regulatory approaches, for example for facilitate:  $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{r} \hat{i} \hat{s} \hat{k}$ -based regulatory decisions (revisions and inspections);  $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{i} \hat{m} \hat{p} \hat{r} \hat{o} \hat{v} \hat{e} \hat{m} \hat{e} \hat{n} \hat{t} \hat{s}$  in the production process, within the approved design space described in the dossier, without further regulatory revision;  $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{r} \hat{e} \hat{d} \hat{u} \hat{c} \hat{i} \hat{o} \hat{n}$  of post-approval requests;  $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{r} \hat{e} \hat{l} \hat{e} \hat{a} \hat{s} \hat{e}$  Release test in real time, leading to a reduction in the final product release tests. 15. 11. Degradation products The pharmacological substance with different polymorphic shapes can have a different chemical stability and can affect tablet degradation products. 5723-09-2015 Visit [www.drugregulations.org](http://www.drugregulations.org) for the latest pharmaceutical products. 10.  $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{q} \hat{u} \hat{a} \hat{l} \hat{i} \hat{t} \hat{y}$   $\hat{A} \hat{e} \hat{c} \hat{e} \hat{t} \hat{i} \hat{v} \hat{i} \hat{t} \hat{y}$  The suitability of a pharmacological substance or a pharmacological product for its expected use. Critical material attributes 1 MA2 Critical Process Parameters CPP 1 CPP 2 Critical Quality Attributes CQA 1 CQA 2 CQA 3 Understanding and controls the variability of the critical material attributes and process parameters to meet the COA product.  $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{d} \hat{r} \hat{u} \hat{g}$  regulation" is a non-profit organization that provides free online online To the pharmaceutical professional. Alternative methods of administration None Nobody is listed in RLD labeling. 19. Product Profile of Quality Target identifies what is fundamental for the patient and connect it to the pharmacological product 23-09-2015 Visit [www.drugregulations.org](http://www.drugregulations.org) for the last part of the pharmaceutical products. Process (or process process) Input parameters Parameters of product input materials (or intermediate) process variability 3123-09-2015 Visit [www.drugregulations.org](http://www.drugregulations.org) for the last part of pharmaceutical products. 45. 7 RTRT CPP Strategy Design Space Pat RTRT QBD CMA CQA 23-09-2015 Visit [www.drugregulations.org](http://www.drugregulations.org) for the latest of pharmaceutical products. 27 qtp security & efficacy identify  $\hat{e}$  other purity power potential quality attributes  $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{a} \hat{p} \hat{p} \hat{e} \hat{a} \hat{r} \hat{a} \hat{n} \hat{c} \hat{e}$   $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{a} \hat{s} \hat{s} \hat{i} \hat{s} \hat{t} \hat{a} \hat{n} \hat{c} \hat{e}$   $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{c} \hat{r} \hat{y} \hat{s} \hat{t} \hat{a} \hat{l} \hat{i} \hat{n} \hat{i} \hat{t} \hat{y}$   $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{d} \hat{e} \hat{g} \hat{r} \hat{a} \hat{d} \hat{i} \hat{o} \hat{n}$   $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{d} \hat{i} \hat{s} \hat{s} \hat{a} \hat{r} \hat{i} \hat{n} \hat{g}$   $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{d} \hat{i} \hat{s} \hat{s} \hat{o} \hat{l} \hat{u} \hat{t} \hat{i} \hat{o} \hat{n}$   $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{i} \hat{r} / \hat{m} \hat{r}$   $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{m} \hat{i} \hat{c} \hat{r} \hat{o} \hat{b} \hat{i} \hat{o} \hat{l} \hat{o} \hat{g} \hat{y}$   $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{s} \hat{t} \hat{e} \hat{r} \hat{i} \hat{l} \hat{i} \hat{t} \hat{y}$  critical Sexset C Q A S 23-09-2015 Visit [www.drugregulations.org](http://www.drugregulations.org) For the last part of the pharmaceutical products.  $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{p} \hat{r} \hat{o} \hat{d} \hat{u} \hat{c} \hat{t}$  profile Quality target  $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{d} \hat{e} \hat{t} \hat{e} \hat{r} \hat{m} \hat{i} \hat{n} \hat{e}$  the critical quality attributes (CQAs)  $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{r} \hat{i} \hat{s} \hat{k}$  assessment: connection attributes of raw materials and process parameters for cqas  $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{d} \hat{e} \hat{v} \hat{e} \hat{l} \hat{o} \hat{p} \hat{s}$  a design space. (Optional not required)  $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{d} \hat{e} \hat{s} \hat{i} \hat{g} \hat{n}$  and implement a control strategy  $\hat{A} \hat{e} \hat{a}, - \hat{a} \hat{e} \hat{m} \hat{a} \hat{n} \hat{a} \hat{g} \hat{e}$  product life cycle, including continuous improvement product profile COAS risk assessment design space space control strategy continuously Essenz Sales in a QBD (Q8R2)





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