

Engineering Chemistry ISE -I

F Y B Tech Group A Even Semester

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* Required

Difference in stoicheometric end point and practical end point is known as _____ (Fill in Blank) * 1 point

Titration error

It may be possible to vanish Monoclinic sulphur from phase diagram of sulphur sysyem * 1 point

☐ True

☒ False

Compute volume of Conc. H_2SO_4 (MW98)solution having density 1.135 g/cc and containing 57% acid by weight required to prepare 10 liter of 0.75 N solution (Write answer only with unit) * 4 points

Your answer



Calculate total hardness of water sample in ppm containing following impurities in mg/lit. i) $\text{Ca}(\text{HCO}_3)_2 = 32.4$, (MW- 162) , $\text{Mg}(\text{HCO}_3)_2 = 43.8$ (MW 146), $\text{NaHCO}_3 = 20$ (MW-84) and $\text{CaCl}_2 = 55.5$ (MW -111) (Write only answer do not show calculations, do it on paper) *

3 points

Your answer

Standards used to prepare solution of accurately known concentration for titrimetric analysis must bear high molecular weight *

1 point

☒ True

☐ False

Your PRN *

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Out of total quantity of water available in universe, the actual quantity available towards all our needs i.e. domestic, industrial etc use is *

1 point

☐ 10%

☐ 1%

☒ <0.1%

☐ None of above



In water system all three phase are in equilibrium at point 'O' While in sulphur system there is no such point where all four phases are in equilibrium, Why? (Write in two lines) *

2 points

Your answer

Transition of rhombic sulphur to monoclinic sulphur is *

1 point

- ☐ Non Polymorphic transition
- ☒ Enantiomorphic transition
- ☐ Allotropic transition
- ☐ None of above

Titrimetric analysis need no calibration but gravimetric analysis needs calibration

1 point

- ☒ True
- ☐ False

Clear selection

Post precipitation causing contamination of precipitate during gravimetry can be avoided by *

1 point

- ☐ Using Less precipitating agent
- ☐ Using excess precipitating agent
- ☐ Isolation of precipitate as soon as it is formed
- ☒ Allowing precipitate to digest for easy separation by filtration



Match The following *

4 points

	Volumetric analysis	Gravimetric analysis	Iodometric titration	Precipitation titration	Temporary harness	Complexing agent	Water Solub
Di sodium EDTA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Calcium Bicarbonate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Adsorption indicator	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Analytical Balance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



This question requires one response per row

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