

Analytical chemistry ACS Exam Questions with Verified Answers.

E relative - ANS $(|x_1 - x(\text{true})|) / x(\text{true}) * 100$

standard deviation - ANS $\sqrt{((x_1 - x)^2 + (x_2 - x)^2) / (n - 1)}$

relative standard deviation - ANS $(s / x(\text{mean})) * 100$

relative uncertainty - ANS $(\text{abs uncertainty}) / \text{measured value}$

How are vol pipets calibrated? - ANS For last drop to not be forced out

TC - ANS to contain

TD - ANS to deliver

Tolerance - ANS max permissible deviation of measured value

propagation of uncertainty add or sub - ANS $\sqrt{x^2 + x_2^2 + \dots}$

propagation on uncertainty multiplication or subtraction - ANS $\sqrt{(x/a)^2 + (x/b)^2}$

for gaussian curve +2 sigma is... - ANS 68.2%

for gaussian curve what is +3 sigma... - ANS 99.7%

Qcalc - ANS $(\text{gap}) / (\text{range})$

Grubbs test - ANS $|\text{mean} - \text{poss outlier}| / s$

uncertainty - ANS $\mu = \text{mean} \pm ts / \sqrt{N}$

S pooled - ANS $\sqrt{((n_a - 1)s_a^2 + (n_b - 1)s_b^2) / (n_a + n_b - 2)}$

tcalc - ANS

Least sq method - ANS The best fit line through a set of data points in which the line which min the sum of sq of deviations between data points and lines.

linear range - ANS conc range of analyte over which linear detector is linearly proportional

Sensativity - ANS slope of linear portion of a/b curve

Analytical Chemistry Exams And Answers

Andrea Carlo Francisco Rabagliati



Analytical Chemistry Exams And Answers:

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