

UNIVERSIDADE ESTADUAL DE CAMPINAS INSTITUTO DE QUÍMICA



PROGRAMS AND BIBLIOGRAPHY

Subject	
Code	Name
QG102	Experimental Chemistry I
Vector	OF:S-5 T:001 P:000 L:003 O:000 D:000 HS:004 SL:004 C:004 AV:N
	EX:S FM:75%

Pre requirement	None
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Summary

Experiments introducing the scientific method, equivalent weight, chemical bonding, oxidation-reduction, chemical equilibrium, pH, solubility product, synthesis and purification of substânces.

Program

Introduction to the discipline. Laboratory Security. Chemical and physical phenomena. Determination of the equivalent of a metal. Quantitative study of a metal-acid reaction. Continuous variation method. Determination of molecular weight of a volatile substance by the density method. Fusion point of a pure substance. Chemical equilibrium representative reactions. Determination of the solubility product of silver acetate. The measurement of pH. Chemical equilibrium.Oxidising and reducing power. Quantitative titration.

Bibliography

J.C. Kotz, P. Treichel Jr., Chemistry and Chemical Reactivity, 3º ed., Saunders College Publ. , 1996

Evaluation criteria

For grading policy, see: Regimento Geral de Graduação, Seção I – Normas Gerais, Capítulo V – Da Avaliação do Aluno na Disciplina. Students are required to attend 75 % of the lectures. For further details, see: Regimento Geral de Graduação, capítulo VI, seção X, artigo 72.