

The free energy change of a thermochemical reaction is always negative

[CHM414] Why are medicine bottles are often made with darkened glass?
to prevent photodegradation

[CHM414] The overall quantum yield for a reaction at 290 nm is 0.30. For what length of time must irradiation with a 100 W source continue in order to destroy 1.0 mol of molecules?
3.8 hrs

[CHM414] The quantum efficiency of a photochemical reaction is defined as _____
ratio of molecules decomposed in a given time to the number of quanta absorbed in the same time

[CHM414] Which is the second law of photochemistry?
Stark-Einstein law

[CHM414] Which of the following will result in deviation from Beer's law? (A) Change in a refractive index of medium (B) Dissociation of analyte on dilution (C) Polychromatic light (D) Path length of cuvette
A, B and C

[CHM414] A substance absorbs 2.0×10^{16} quanta or radiations per second and 0.002 mole of it reacts in 1200 seconds. What is the quantum yield or the reaction ($N = 6.02 \times 10^{23}$)?
50

[CHM414] The number of events which occur per photon absorbed by a system is
quantum yield

[CHM414] Which of the following are the reactions in which molecules absorbing light do not themselves react but induce other molecules to react?
Photosensitized reactions

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