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# McGraw-Hill Dictionary of Chemistry

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### fluorescein

flammability limits | CHEMISTRY | The stoichiometric composition limits (maximum and minimum) of an ignited oxidizer-fuel mixture what will burn indefinitely at given conditions of temperature and pressure without further ignition. { 'flam·ə'bil·əd·ē ·lim·əts

flash photolysis [PHYSICAL CHEMISTRY] A method of studying fast photochemical reactions in gas molecules; a powerful lamp is discharged in microsecond flashes near a reaction vessel holding the gas, and the products formed by the flash are observed spectroscopically. { 'flash fə,täl·ə·səs }

flash point [CHEMISTRY] The lowest temperature at which vapors from a volatile liquid will ignite momentarily upon the application of a small flame under specified conditions; test conditions can be either open- or closed-cup. { 'flash 'point }

flash spectroscopy [SPECTROSCOPY] The study of the electronic states of molecules after they absorb energy from an intense, brief light flash. { | flash spek'träs ka pē } flask [CHEMISTRY] A long-necked vessel, frequently of glass, used for holding liquids.

Fline [SPECTROSCOPY] A green-blue line in the spectrum of hydrogen, at a wavelength

of 486.133 nanometers. { 'ef , līn } [CHEMISTRY] Small masses formed in a fluid through coagulation, agglomeration, or biochemical reaction of fine suspended particles. { fläk }

flocculant [CHEMISTRY] See flocculating agent. { 'fläk yə lənt } flocculate [CHEMISTRY] To cause to aggregate or coalesce into a flocculent mass. { 'fläk yə lət (adjective) or 'fläk yə lāt (verb) }

flocculating agent [CHEMISTRY] A reagent added to a dispersion of solids in a liquid to bring together the fine particles to form flocs. Also known as flocculant. ( 'fläkyə,lād iŋ ,ā jənt }

flocculent [CHEMISTRY] Pertaining to a material that is cloudlike and noncrystalline. { 'fläk · yə · lənt }

floc point [ANALYTICAL CHEMISTRY] The temperature at which wax or solids separate from kerosine and other illuminating oils as a definite floc. { 'flak 'point }

floc test [ANALYTICAL CHEMISTRY] A quantitative test applied to kerosine and other illuminating oils to detect substances rendered insoluble by heat. { 'fläk 'test }

Flood's equation [PHYSICAL CHEMISTRY] A relation used to determine the liquidus temperature in a binary fused salt system. { 'fladz i kwā zhan }

flores [CHEMISTRY] A form of a chemical compound made by the process of sublimation. { 'flor · ēz }

flores martis [INORGANIC CHEMISTRY] See ferric chloride. { 'flor ez 'mard əs }

flotation agent [CHEMISTRY] A chemical which alters the surface tension of water or which makes it froth easily. { flo'ta·shən 'a·jənt }

flow birefringence [PHYSICAL CHEMISTRY] Orientation of long, thin asymmetric molecules in the direction of flow of a solution forced to flow through a capillary tube. { | flo ,bi · rə'frin · jəns }

flowers of tin [INORGANIC CHEMISTRY] See stannic oxide. { 'flau ərz əv 'tin }

flow-programmed chromatography [ANALYTICAL CHEMISTRY] A chromatographic procedure in which the rate of flow of the mobile phase is periodically changed. { Iflo programd kromə'täg rə fe }

fluoborate [INORGANIC CHEMISTRY] See fluoroborate. { 'flü · ə' bor, āt }

**fluometuron** [ORGANIC CHEMISTRY]  $C_{10}H_{11}F_3N_2O$  A white, crystalline solid with a melting point of 163-164.5°C; used as a herbicide for cotton and sugarcane. Also known as 1,1-dimethyl-3- $(\alpha,\alpha,\alpha$ -trifluoro-meta-tolyl)urea. {  $|f|\ddot{u}\cdot\ddot{o}'$ me·chə rän }

**fluoranthene** [ORGANIC CHEMISTRY]  $C_{10}H_{10}$  A tetracyclic hydrocarbon found in coal tar fractions and petroleum, forming needlelike crystals, boiling point 250°C, and soluble in organic solvents such as ether and benzene. { flu'ran, then }

**fluorene** [ORGANIC CHEMISTRY]  $C_{13}H_{10}$  A hydrocarbon chemical present in the middle oil fraction of coal tar; insoluble in water, soluble in ether and acetone, melting point 116-117°C; used as the basis for a group of dyes. Also known as 2,3-benzindene; diphenylenemethane. { 'flu, ren }

fluorescein [ORGANIC CHEMISTRY] C20H12O5 A yellowish to red powder, melts and



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