

Fluorine

Fluorine is a chemical element with symbol **F** and atomic number 9. It is the lightest halogen and exists as a highly toxic pale yellow diatomic gas at standard conditions. As the most electronegative element, it is extremely reactive: almost all other elements, including some noble gases, form compounds with fluorine.

see [Fluorine 18](#).

Fluorodeoxyglucose (18F) (INN), or [fluorodeoxyglucose F 18](#) (USAN and USP), also commonly called [fluorodeoxyglucose](#) and abbreviated [18F]FDG, [18F-FDG](#) or [FDG](#), is a radiopharmaceutical used in the medical imaging modality [positron emission tomography](#) (PET). Chemically, it is 2-deoxy-2-[18F]fluoro-D-glucose, a glucose analog, with the positron-emitting [radionuclide fluorine-18](#) substituted for the normal hydroxyl group at the C-2 position in the glucose molecule.

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