

## • Moderator

- ❑ A moderator is necessary in most reactors to slow down the fast neutrons created during fission to the thermal energy range so as to increase their efficiency in causing further fissions. The moderator must be a light material that will allow the neutrons to slow down through collisions without being captured. In most reactors, ordinary (or “light”) water is used. Other moderators used in some less common reactor types are graphite and heavy water (water formed with the heavier deuterium isotope of hydrogen). Fast reactors, based on fission of plutonium fuel by fast neutrons, do not have a moderator.

## • Coolant

- ❑ The coolant circulates through the reactor core to absorb and remove the heat produced by nuclear fission, thus maintaining the temperature of the fuel within normal limits. It transfers this heat to the turbine-generator system to produce electricity. If water is used as the coolant, steam can be produced directly by the reactor and fed to the turbines, this is the concept of a boiling water reactor. Alternatively, heated water from the reactor can be passed through heat-exchangers (steam generators) which produce steam for the turbines as in a pressurized water reactor. Other coolants in use in some reactor types are heavy water and gases such as carbon dioxide or helium. Designs for some advanced reactors use molten metals such as sodium, lead or alloys of lead as the coolant.

# Organic Liquids As Reactor Coolants And Moderators

**International Atomic Energy Agency**

A red circular graphic with a gradient, appearing as a stylized sun or a lens flare, positioned to the right of the IAEA text bar.

## **Organic Liquids As Reactor Coolants And Moderators:**

**Vienna, 1966. Organic liquids as reactor coolants and moderators. Report of a panel on the use of organic liquids as reactor coolants and moderators held in Vienna, 9-13 May 1966** Panel on the Use of Organic Liquids as Reactor Coolants and Moderators (INTERNATIONAL ATOMIC ENERGY AGENCY),1967      *Organic Liquids as Reactor Coolants and Moderators. Report of a Panel on the Use of Organic Liquids as Reactor Coolants and Moderators Held in Vienna, 9-13 May 1966. [Mit Fig. U. Tab.]* Agence internationale de l'énergie atomique (Vienne). Conférence technique (1966, 9-13 mai. Vienne),1967      Organic liquids as reactor coolants and moderators : report of a Panel on the Use of Organic Liquids as Reactor Coolants and Moderators, held in Vienna, 9-13 May, 1966 ,1967      **Organic Liquids as Reactor Coolants and Moderators** International Atomic Energy Agency,1967      **Organic Liquids as Reactor Coolants and Moderators** ,1967      **Organic Liquids as Reactor Coolants and Moderators** Organismo Internacional de Energía Atómica,1967      **Organic Liquids as Reactor Coolants and Moderators** ,1967      Compilation of Organic Moderator and Coolant Technology ,1957      **Organic Coolant Summary Report** R. F. Makens,Quincey L. Baird,1964      **Economics of Hydrocracking Damaged Coolant from Organic Reactors** J. L. Griffith,G. J. Russell,1963      **Organic Coolants and Moderators** International Atomic Energy Agency,1965      *A Survey of the Decomposition Rates of Organic Reactor Coolants* R. H. J. Gercke,C. A. Trilling,1959      *Conference on the Use of Organic Materials in Nuclear Reactors* ,1953      **Chemical Engineering Progress Symposium Series** American Institute of Chemical Engineers,1954      **Solid Fuel Reactors** Joseph R. Dietrich,Walter Henry Zinn,1958      *Nuclear Engineering, Part III* F. J. Van Antwerpen,1954      **Organic Nuclear Reactors** Argonne National Laboratory,1961 The status of the program aimed to develop useful and economic nuclear reactors cooled by means of organic liquids such as polyphenyls was surveyed The concepts considered included organic heavy water and graphite moderated reactors producing power by direct or indirect cycles      Table of Reactor Coolant Properties Leon Green,1961      Organic Coolant Research Summary Report J. C. Hillyer,1963      **Pulp & Paper Magazine of Canada** ,1958

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