



P-Phenylenediamine (Paperback)

By -

Tempor, United States, 2012. Paperback. Condition: New. Aufl.. Language: English . Brand New Book. Please note that the content of this book primarily consists of articles available from Wikipedia or other free sources online. p-Phenylenediamine (PPD) is an organic compound with the formula $C_6H_4(NH_2)_2$. This derivative of aniline is a colorless solid, but typically samples can contain yellowish impurities arising from oxidation. It is mainly used as a component of engineering polymers and composites. It is also an ingredient in hair dyes. PPD is a precursor to aramid plastics and fibers such as Kevlar. These applications exploit PPD's difunctionality, i.e. the presence of two amines which allow the molecules to be strung together. This polymer arises from the reaction of PPD and terephthaloyl chloride. The reaction of PPD with phosgene gives the diisocyanate, a precursor to urethane polymers.



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