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About DICY

DICYandiamde (**DICY**) is a strongly alkaline and water-soluble white crystalline compound with the scientific name of cyanoguanidine. The chemical is the dimer of cyanamide or cyanoguanidine, which is mainly used in the production of melamine. **DICY** is also used as a curing agent for epoxy resins and laminates for circuit boards, powder coatings and adhesives.

Cyanamide, the amide of normal cyanic acid, is a white crystal that melts at 45° C. It is readily soluble in water, alcohol and diethyl ether. It is prepared commercially by the carbide process from the carbonate derived from limestone or by the desulphurization of thiourea in the presence of catalyst (mercuric oxide).

Cyanamide is also prepared by the action of ammonia with cyanogene halides. Cyanamide polymerizes to **DICY**andiamide when heated over 150° C and to tricyantriamide as well as to melamine.