

**Technical Data Sheet**

## Phthalic Anhydride

Phthalic anhydride is a colorless to white lustrous solid in the form of needles with a mild distinctive odor. Melting point 64°F Flash point 305°F. Forms a corrosive solution when mixed with water. Used in the manufacture of materials such as artificial resins. Phthalic anhydride is an important chemical intermediate in the plastics industry from which are derived numerous phthalate esters that function as plasticizers in synthetic resins.

**Application:**

The primary use of phthalic anhydride is as a chemical intermediate in the production of plastics from vinyl chloride. Phthalate esters, which function as plasticizers, are derived from Phthalic Anhydride. Phthalate plasticizers are used for the production of flexible PVC products such as cables, pipes and hoses, leather cloth, shoes, film for packaging etc. Phthalic anhydride has another major use in the production of polyester resins and other minor uses in the production of alkyd resins used in paints and lacquers; certain dyes (anthraquinone, phthalein, rhodamine, phthalocyanine, fluorescein, and xanthene dyes); insect repellents; and polyester polyols for polyurethanes.

Properties	Value	Unit	Test Method
Purity	99.85 min	wt. %	ROLLECHIM Test Method (HPLC)
Melting Point	131.6	°C	ASTM E-324-99(WITHDRAWN)
Maleic Anhydride Content	0.05 max	wt. %	ROLLECHIM PA/AM01-3
Color Index to Hazen	20 max		ASTM D- 3366-03
Color Index to Hazen After 90 min.at 250 °c	30 max	°C	ASTM D- 3366-03
Phthalide Content	0.02 max	wt. %	ROLLECHIM PA/AM01-3