



HANS CHEMICALS PRIVATE LIMITED

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TECHNICAL DATA SHEET

PHTHALIC ANHYDRIDE

Phthalic Anhydride is a principal commercial form of phthalic acid. It was the first anhydride of a dicarboxylic acid to be used commercially.

Phthalic anhydride (PA) plays a vital role in the production of essential substances like plasticizers, pigments, dyes, and resins. It is particularly important in the manufacturing of unsaturated polyester resins (UPR), which are commonly used in fiberglass-reinforced plastics. PA is in high demand from the pigments and dyes industry, production of organic pigments such as phthalocyanine blue, green, and high-performance pigments. Moreover, PA finds applications in the production of herbicides, insecticides, insect repellents, fire retardants, polyester polyols, and rubber scorch inhibitors.

Sr. No.	Parameter	Unit	Limit
1	Physical Appearance		Snow White Free Flowing Flakes
2	Color of Molten Material (APHA)		20 HU Max.
3	Color of Molten Material at 250°C for 90 Minutes (APHA)		40 HU Max.
4	Solidification Point (°C)		130.8°C
5	Purity as C ₄ H ₆ O ₃ by Wt. By GC	%	99.8 Min.
6	Maleic Anhydride and Other Oxidisable impurities expressed as C ₄ H ₂ O ₃ by WT.	%	0.05 Max.
7	Acid Value (mg of KOH/gm PA)		753 to 763

Application: Resin, Pesticides, Plasticizers, unsaturated polyester, alkyd resins, dyes and pigments, Pharma, Flame Retardants.