

## Specifications for Phthalic Anhydride

Parameter	Value
Molecular Formula	C <sub>8</sub> H <sub>4</sub> O <sub>3</sub>
Mol Wt	148.11
CAS #	[85-44-9]
Description	White flakes
Purity (%) by GC	99.7 min
MP in DEG CEL	
Melting Colour in HU	20 max
Free acidity (%)	0.1 max
Maleic anhydride and other oxidizable impurities (%)	0.05 max

## Uses

- PHTHALIC ANHYDRIDE is used in the manufacture of alkyd resins for paints and varnishes.
- PHTHALIC ANHYDRIDE esters like DOP, DIOP, DNP, DIDP etc. are the most acceptable plasticizers for PVC products. Whereas they are characterized by their low volatility, high water resistance and better electrical properties, other phthalate plasticizers like BBP, BOP, DCHP satisfy fast gelling and low temperature requirement of vinyl resin based products.
- PHTHALIC ANHYDRIDE is used in the manufacture of unsaturated polyester resins.
- PHTHALIC ANHYDRIDE finds applications as Dye intermediate and also in the manufacture of pigments. Whereas Anthraquinone and its derivatives are used in dyes, pigments like Phthalocyanines are used as colouring agents in laminates varnish, printing ink and plastic industries.
- PHTHALIC ANHYDRIDE is used in the manufacture of tetrachlorophthalic anhydride which finds applications in reactive fire retardant in unsaturated polyesters.