

Product Data Sheet

Phthalic Anhydride (P.A)

Molecular formula: $C_6H_4(CO)_2O$

Product Description

Phthalic anhydride is a toxic, white flake compound.

Phthalic Anhydride is the anhydride of phthalic acid. This white solid is an important industrial chemical, especially for the large-scale production of plasticizers for plastics. It is presently obtained by catalytic oxidation of Ortho-Xylene.

Applications:

- Alkyd resins for paints and varnishes
- Plasticizer resins
- Dye intermediate, pigment
- Manufacture of phthalates
- Polyester resins

No.	Property	Value	Units	Test Method
1	Crystallization point	130.9	°C	ASTM D 1439
2	Color of the molten material, APHA	20	MAX.	ASTM D 3366
3	Color of the molten material after heat treatment, APHA	50	MAX	ASTM D 3366
4	Free acidity as phthalic acid, percent by mass (MAX.)	≤ 0.10	MAX	IS 5158 A -4
5	Maleic anhydride	≤ 0.05	% W / W	GC
6	Other impurities (as benzoic and phthalide) percent by mass (MAX.)	≤ 0.1	MAX	GC
7	Appearance	White Flakes	-----	Visual
8	Phthalic anhydride	99.8	% W / W	GC