



Asia Petrochemicals LLC

Phthalic Anhydride

PRODUCT DESCRIPTION

Phthalic Anhydride (PA) is a white solid crystalline compound in various forms or a clear molten liquid, with an irritating odor. It is slightly soluble in hot water, hydrolysing to Phthalic Acid. PA is soluble in alcohol and carbon disulphide. It reacts with strong oxidants and responds violently when heated with copper oxide or sodium nitrite, to cause an explosion hazard. Phthalic anhydride is presently obtained by catalytic oxidation of ortho-xylene or naphthalene. When separating the phthalic anhydride from production by products such as o-xylene in water, or maleic anhydride, a series of "switch condensers" is required. Phthalic anhydride can also be prepared from phthalic acid. Phthalic anhydride is a precursor to a variety of reagents useful in organic synthesis. Important derivatives include phthalimide and its many derivatives.

Applications

The primary use of TCC's phthalic anhydride (PA) is as a chemical intermediate in the production of plastics from vinyl chloride. Phthalate esters that function as plasticizers are derived from phthalic anhydride. 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 gums, insect repellents, and urethane polyester polyols. Phthalic anhydride has also been used as a rubber scorch inhibitor and retarder. The second largest outlet for PA is in unsaturated polyester resins (UPR) which are usually blended with glass fibers to produce fiberglass-reinforced plastics. The third largest outlet is PA-based alkyd resins that are used in solvent-based coatings for architectural, machinery, furniture and fixture applications. Small volume uses for PA include the manufacture of dyes and pigments, detergents, herbicides and insecticides, fire retardants, saccharin and polyester resin cross-linking agents.

Packing: 25 Kg palletized bags

PARAMETER	VALUE
Molecular Formula	C ₈ H ₄ O ₃
Mol Wt	148.11
CAS #	[85-44-9]
Description	White flakes
Purity (%) by GC	99.7 Min
MP in DEG CEL	265-270
Melting Colour in HU	20 Max
Free acidity (%)	0.1 Max
Maleic anhydride and other oxidizable impurities (%)	0.05 Max

For further information please visit <http://www.asia-petrochem.com> or send an enquiry to info@asia-petrochem.com

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