

A close-up photograph showing a clear plastic funnel pouring a fine, white, crystalline powder onto a surface. The powder is piled up, and some particles are visible in the air around the funnel's opening. The background is a soft, out-of-focus gradient of light colors.

Benzene

Benzene is the basis of a group of hydrocarbons referred to as 'aromatics.' It is a clear colorless liquid, with a characteristic aromatic smell. Benzene is produced by PERTAMINA's Paraxylene Refinery Cilacap.

PRODUCTION CAPACITY
110.000
METRIC TONS/MONTH.

Application / Benefit

Benzene is the starting point for many derivatives required in the production of a wide range of goods used in everyday life. Benzene and ethylene are used to produce styrene, from which polystyrene is made. It is also used to produce cyclohexane, a precursor to caprolactam, which is used to produce nylon. Well know commodity chemicals such as polystyrene and nylon are subsequently used to manufacture everyday items including paints, clothing, computer casings and packaging and detergents.

Benzene Specification

NO	ITEM	TEST METHOD	LIMIT
1.	Toluene	ASIM D-4492	200 ppm (weight) maximum
2.	Non-aromatics	ASTM D-236D/D-4492	1000 ppm (weight) maximum
3.	Solidification point	ASIM D-852	5.45 °C minimum
4.	Add wash color	ASTDM D-848	1 maximum
5.	Thiophene content	ASTM D-1685	1.0 ppm (weight) maximum
6.	Bromine index	ASTM D-1492	15 maximum
7.	Total sulphur	ASTlv D-4045	1 ppm (weight) maximum
8.	Distillation range	ASTTv1 D-850	1 °C maximum INCLUDING 80.1 °C
9.	Acidity	ASTTY1 D-847	No free acid
10.	Specific gravity at 15.56/15.56 °C	ASTM D-891	0.8830 minimum - 0.8860 maximum
11.	Water	Visual	undissolved water after standing 1 hour at 15.56 °C
12.	Nonvolatile matter	ASTM D-1353	0.0012 g/100 ml maximum
13.	Purity	ASTM D-4492/D-2360	99.90 weight percent minimum
14.	Copper conviction	ASTM D-849	Passed
15.	Color	ASTTv1 D-1209	20 maximum

