

Carbazole

Product Datasheet

Carbazole (C₁₂H₉N), also known as 9H- Carbazole or Diphenylenimine, is a nitrogen containing heterocyclic compound. It has a tricyclic structure, consisting of two six-membered benzene rings fused on either side of a five-membered nitrogen-containing ring, with a large aromatic system and a central nitrogen atom showing extensive electron delocalization. Carbazole is obtained as a co-product in the production of anthracene. Due to its higher boiling point and better solubility, it can be separated from anthracene extraction.

APPLICATIONS

- ◆ Used as UV sensitive photographic plates and as a reagent and dye intermediate.
- ◆ Used to make insecticides, lubricants, explosives, and rubber antioxidants; also used as an odor inhibitor in detergents.
- ◆ Carbazole and carbazole-related compounds can be used in pigment manufacturing, fluorescence materials, phosphorescence materials and thermally activated delayed fluorescence materials.

PERFORMANCE

- ◆ Carbazole has gained much interest due to its wide range of biological activity upon modifications including antibacterial, antimalarial, anticancer, and anti-alzheimer properties.

TYPICAL QUALITY PROPERTIES

Property	Unit	Typical value
Appearance	-	Off white, white or with pink crystals
Mass fraction of Carbazole as per HPLC	%	≥ 96.0
Initial Melting Point	°C	≥ 237.0
Anthracene content	%	1.2 - 2.0
Phenanthrene content	%	0.5 - 1.5
Odor	-	Characteristic
Flash point (C.O.C)	°C	210 min
Moisture content	%	0.5 max

PACKAGING

Packing Type

25KG/drum or as per buyer requirement

PRODUCT FORM AND SAFETY DATA

- ◆ Direct contact can cause irritation and photosensitization (sunburn). This product may be absorbed through the skin in harmful amounts.
- ◆ Dust or vapors of this product can cause irritation in the respiratory tract. This product can affect the central nervous system causing nausea, dizziness, and loss of coordination.
- ◆ This compound may be harmful by ingestion, inhalation, and skin absorption. It may cause irritation when heated to decomposition it emits toxic fumes of carbon monoxide, Carbon dioxide and nitrogen oxides.

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TECHNICAL AND SALES CONTACT



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