Molecule of the month

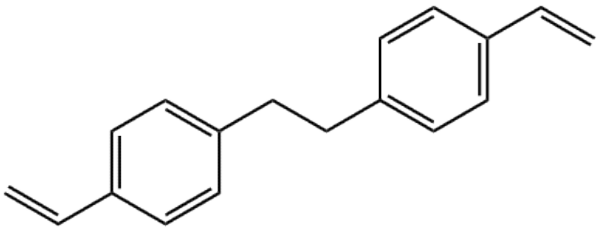
B2C CHEMISTRY

Dear Mme / Sir,

via our Chinese partner of Eyougene

予君生物科技 EYOUGENE

...we can offer to you 1,2-Bis(4-vinylphenyl)ethane (BVPE) cas#48174-52-3



Samples are available.

Applications:

1. Polymer Synthesis

- **Specialty Polymers:** VBC is commonly used as a monomer in the production of functionalized polymers. It provides sites for further chemical modifications, making it valuable in creating tailored materials.

As a business concept B2C-Chemistry GmbH is representing foreign Fine Chemicals producers in Germany and other European countries. Through our partnering companies, we are offering a broad range of valuable raw material and value added intermediates, which are being used in a multitude of applications.

All our partners are experienced in custom manufacturing and deliver from gram – to kilogram – to multi-ton range. Please find the list of technologies being used which gives you a flavor of their capabilities.

Since 2020 B2C-Chemistry GmbH is officially representing Chinese fine & specialty chemical producer Eyougene in Germany. Eyougene is a technology driven and well experienced CDMO that is offering it's technologies and services to provide you with the molecule you are looking for.

Address & telephone number:
B2C-Chemistry GmbH
Boris Bernhagen
Helgebornstr. 34

- **Ion Exchange Resins:** Functional groups on VBC can react to form ion-exchange resins used in water purification and chemical separation.
- **Block Copolymers:** Used in the synthesis of copolymers with specific mechanical and chemical properties for specialized applications.

61191 Rosbach (Rodheim)
Germany

Telefon:
+49 (0) 6007 99 139 67
www.b2c-chemistry.de

Please accept
our kind regards,

Boris Bernhagen,
B2C-Chemistry

2. Coatings and Adhesives

- **Crosslinking Agent:** VBC is used in crosslinked coatings and adhesives, enhancing durability, chemical resistance, and thermal stability.
- **Protective Coatings:** Its reactivity allows for the development of coatings resistant to harsh environments, such as industrial or marine settings.

3. Biomedical Applications

- **Drug Delivery Systems:** Functionalized polymers derived from VBC can be used in drug encapsulation or controlled-release systems.
- **Biomaterials:** Its ability to attach functional groups makes it suitable for creating materials that interact with biological systems, such as hydrogels or implants.

4. Electronics and Optics

- **Conductive Polymers:** VBC can be used in the fabrication of polymers with electrical conductivity or semiconducting properties, useful in electronics and photonics.

- **Microelectronics:** As a precursor in the production of functionalized polymers for lithographic processes and dielectric materials.

---

5. Silica and Silicone Surface Modification

- **Surface Functionalization:** VBC can be grafted onto silica or silicone surfaces to introduce reactive sites, enhancing compatibility or functionality for composite materials.

- **Silicone Applications:** Functionalization with VBC is often employed to modify silicone materials for improved adhesion, wettability, or chemical resistance.

---

6. Environmental Applications

- **Water Treatment:** Functionalized polymers from VBC can serve as adsorbents or catalysts in water purification systems.

- **Catalyst Supports:** VBC-based polymers are used to create supports for catalysts in industrial chemical reactions.

---

7. Ionic Liquids

VBC It is often used as a reactive starting material, particularly for the synthesis of cationic ionic liquids or ionic polymers.

- **Functionalization of cationic groups**: VBC contains a vinyl group that can be polymerized or further functionalized, as well as a benzyl chloride group that readily reacts with amines or other nucleophiles to form quaternary ammonium salts.

These are common components of ionic liquids.

- **Production of ionic polymers**: VBC can be incorporated into polymerization processes to create ionic polymers, which are used in applications such as membranes for fuel cells or electrolytes.

- **Modification of ionic liquids**: Through targeted reactions of the benzyl chloride group with various ions, VBC can be used to fine-tune the physicochemical properties of ionic liquids.

Although VBC is not one of the most common starting materials for conventional ionic liquids, it can play a significant role in certain customized syntheses.