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1, 1'-Isophthaloyl bis(2-methylaziridine)

➤ Executive standard: Q/TY·J08.41.2021

➤ Chinese name: 1,1'- (1,3-苯二羰基) 双-2-甲基氮丙啶、双-间苯二酰-1-甲基-氮丙啶、间苯二甲酰 (2-甲基氮丙啶)

➤ Commodity name: HX-752;Dynamar

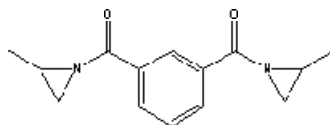
➤ CAS RN: 7652-64-4

➤ 1. Physical and chemical properties:

1.1 Molecular formula: $C_{14}H_{16}N_2O_2$

1.2 Molecular weight: 244.3

1.3 Structure formula:



1.4 Refractive index, n_D^{25} : 1.553~1.558

1.5 Density: 1.13g/cm³ (20°C)

1.6 Stability: Reacted under heating and then the purity is dropping.

➤ 2. Technical indexes

Item	Index
Imine equivalent, (eq/g)	130~150
Viscosity, mPa.s(25°C)	3000~18000
Refractive index, n_D^{25}	1.5530~1.5580
Appearance	Light yellow viscous liquid

➤ 3. Application: HX-752 is a good bonding agent to improve the mechanical properties of the composite and has been used in over 20 kinds of composites.

It has also been used as the bonding agent of polymer materials widely to improve the mechanical properties. According to the characteristics of low temperature preservation of HX-752, it needs to be melted before use. The methods are as follows:

- (1) Take out HX-752 from the low temperature state and place it at room temperature;
- (2) Set the temperature of the blast constant temperature oven to 40 °C, start the power supply to start blast heating, when the temperature reaches 40 °C (about 0.5 h), place HX-752 in the oven, close the door, and heat for 8 h.
- (3) Turn off the power of the oven, take out the HX-752, and it will be in liquid crystal state, which can be used normally according to the customer's own process.
- (4) If HX-752 is not completely melted, the heating time can be appropriately extended for 2 h.

➤ 4. Safety instructions: Toxic by skin. Be handled with rubber gloves to avoid contacting with skin and eyes.

➤ 5. Packing: 5 plastic bottles in a carton filled with dry ice. Net Weight: 1 kg/bottle; 5 kg/carton.

➤ 6. Storage: Stored at below -18°C. and sealed with nitrogen. Keep away from acid materials.

➤ 7. Shelf life: The shelf life is 18 months after manufactured date. After the shelf life expires, the samples should be re-sampled and re-inspected according to the technical specifications in Part 2, and they can still be used after passing the test.

➤ 8. Transportation: UN No:1759.Stay below -18°C. Avoid sun exposure.

In addition: We are able to develop custom-made products according to the clients' requests.