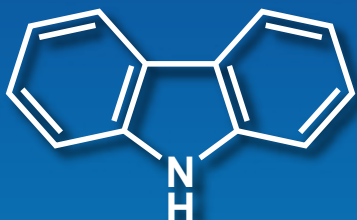


# Non-Phosphorescent High Purity Carbazole



Carbazole (High Purity)  
1g / 5g / 25g  
[C3722]

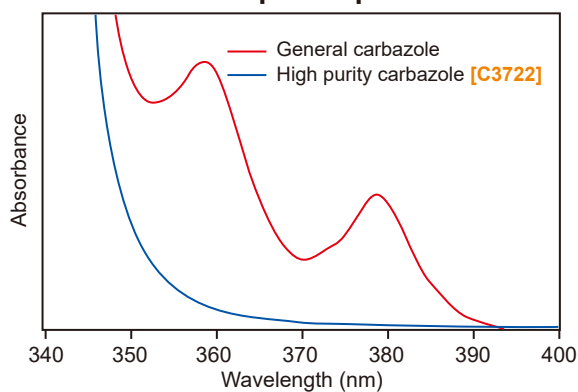
## Advantages

- The non-phosphorescence is guaranteed.
- Suitable for the synthesis of high purity carbazole based materials.

It has been reported that very small amount of impurities contained in carbazole induce room temperature phosphorescence (RTP). TCI have commercialized high purity carbazole [C3722] which is guaranteed not to exhibit room temperature phosphorescence.

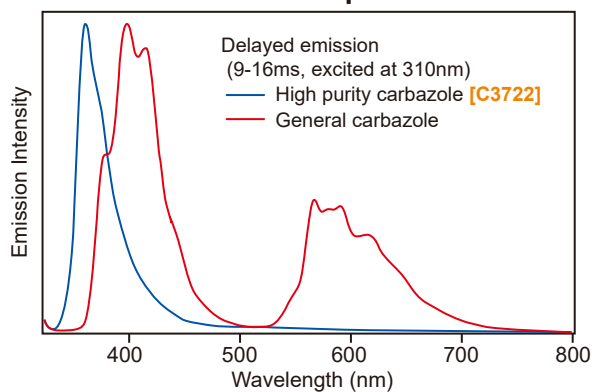
## Comparison of absorption and emission properties

### Absorption spectra



Absorbance edge of high purity carbazole [C3722] is flat. General carbazole shows absorbance at 350 - 400 nm which is originated from some impurities.

### Emission spectra



General carbazole shows RTP at 500 - 800 nm which is originated from some impurities. High purity carbazole [C3722] shows no RTP at that range.

**References** B. Liu *et. al.*, *Nat. Mater.* **2021**, 20, 175. DOI: <https://doi.org/10.1038/s41563-020-0797-2>  
C. Chen, B. Liu, *et. al.*, *ACS Mater. Lett.* **2021**, 3, 1081. DOI: <https://doi.org/10.1021/acsmaterialslett.1c00138>

## Related Product

RTP Inducing Chemical  
1*H*-Benzo[*f*]indole

1g [B6283]

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