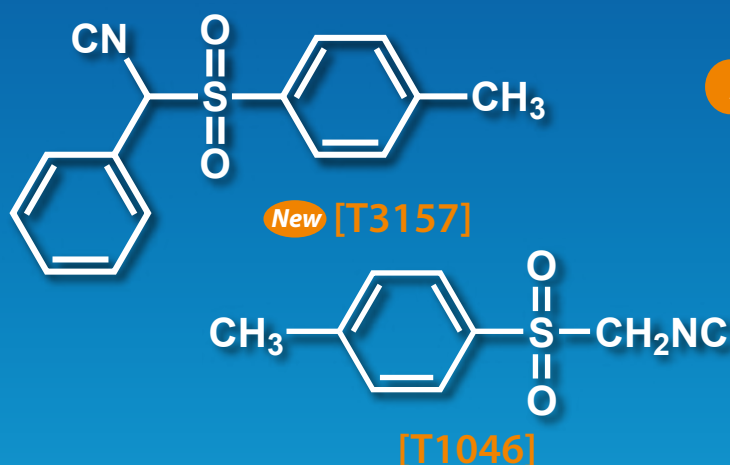


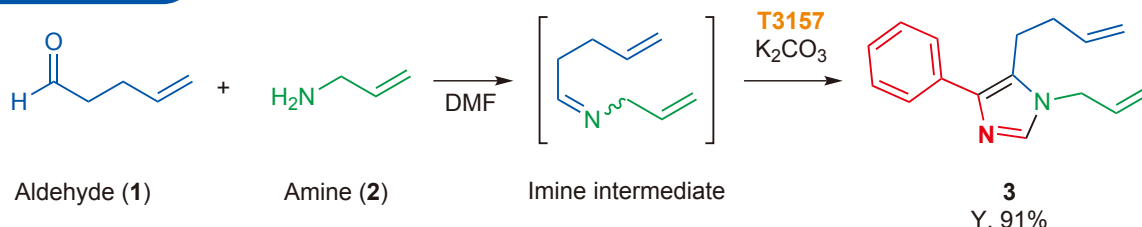
# *p*-Toluenesulfonylmethyl Isocyanides for the Construction of Heterocycles



## Advantages

- Odorless solids contrary to general isocyanide derivatives which have a strong odor
- Effective for the synthesis of heterocycles by multiple reactions regarding the active methylene group

## Application



### Procedure:

To 4-pentenal (**1**, 252 mg, 3.0 mmol) in DMF (3 mL) is added allylamine (**2**, 171 mg, 3.0 mmol), and the reaction mixture is stirred at room temperature for 2.5 h. This is followed by the addition of **T3157** (543 mg, 2.0 mmol) and  $\text{K}_2\text{CO}_3$  (276 mg, 2.0 mmol), and the reaction mixture is allowed to stir for an additional 17 h at room temperature. The reaction is quenched by the addition of water. The aqueous layer is extracted with EtOAc, dried (anhydrous  $\text{MgSO}_4$ ), concentrated, and purified by flash column chromatography ( $\text{CH}_2\text{Cl}_2:\text{CH}_3\text{OH}:\text{NH}_3 = 97:2.5:0.5$ ) to afford 433 mg (91%) of **3** as an oil.

V. Gracias, A. F. Gasielki, S. W. Djuric, *Org. Lett.* **2005**, 7, 3183.

**$\alpha$ -(*p*-Toluenesulfonyl)benzyl Isocyanide**  
***p*-Toluenesulfonylmethyl Isocyanide**

1g / 5g **[T3157]**  
 5g / 25g **[T1046]**

For further information please refer to our website at [www.TCIchemicals.com](http://www.TCIchemicals.com).



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