**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**

![Chemical structure](attachment:structure.png)

**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 K₂CO₃ (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 EIOAc, dried (anhydrous MgSO₄), concentrated, and purified by flash column chromatography (CH₂Cl₂:CH₃OH:NH₃ = 97:2.5:0.5) to afford 433 mg (91%) of 3 as an oil.


| α-(p-Toluenesulfonyl)benzyl Isocyanide | 1g / 5g [T3157] |
| p-Toluenesulfonylmethyl Isocyanide | 5g / 25g [T1046] |

For further information please refer to our website at www.TCIchemicals.com.