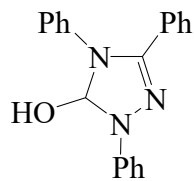




>>Entry Name: 4,5-Dihydro-5-hydroxy-1,3,4-triphenyl-1*H*-1,2,4-triazole

Synonym(s): 4,5-Dihydro-1,3,4-triphenyl-1*H*-1,2,4-triazol-5-ol



**Molecular Formula:** C<sub>20</sub>H<sub>17</sub>N<sub>3</sub>O

**Molecular Weight:** 315.374

**Accurate Mass:** 315.137162

**Percentage Composition:** C 76.17%; H 5.43%; N 13.32%; O 5.07%

>>Derivative: Me ether

Synonym(s): 4,5-Dihydro-5-methoxy-1,3,4-triphenyl-1*H*-1,2,4-triazole

**CAS Registry Number:** 154643-41-1

**Molecular Formula:** C<sub>21</sub>H<sub>19</sub>N<sub>3</sub>O

**Molecular Weight:** 329.401

**Accurate Mass:** 329.152812

**Percentage Composition:** C 76.57%; H 5.81%; N 12.76%; O 4.86%

**Use/Importance:** Source of stable carbene 2,4-Dihydro-2,4,5-triphenyl-3*H*-1,2,4-triazol-3-ylidene [BYR58-Y](#)

**Physical Description:** Pale yellow cryst. (MeOH)

**Melting Point:** Mp 80° (dec.)

#### References:

Enders, D. *et al.*, *Angew. Chem., Int. Ed.*, 1995, **34**, 1021-1023, (*synth, derivs, pmr, cmr, ir, ms*)