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<table>
<thead>
<tr>
<th>References</th>
<th>Get Substances</th>
<th>Get Reactions</th>
<th>Get Related</th>
<th>Tools</th>
<th>Send to SciPlanner</th>
</tr>
</thead>
<tbody>
<tr>
<td>449 References</td>
<td>O Selected</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select All</td>
<td>Deselect All</td>
<td>Sort by: Accession Number ▼</td>
<td></td>
<td>Answers per Page [20]</td>
<td>1 2 3 4 5 6 ... 23</td>
</tr>
</tbody>
</table>

1. **Click chemistry: Discovery of new medicines**
   **By** Sharpless, K. B.
   Click chemistry is a modular approach that utilizes only the most practical and reliable chemical transformations. Its applications are increasingly found in all aspects of drug discovery, ranging from lead finding through combinatorial chemistry and combinatorial in situ chem., to proteomics and DNA research utilizing bioconjugation reactions. The transition of a 1,3-dipolar cyanoalkene is a particularly powerful linking reaction, due to its high degree of dependability, complete specificity, and the bio-compatibility of the reagents. The triazole products are more than just passive linkers; they readily...
   - Substances
   - Reactions
   - 0 Citings
   - Full Text
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2. **Copper catalyzed cycloaddition of organic azides and 1-haloalkynes to prepare 1,2,3-triazoles**
   **By** Heh, Jason E.; Popp, Jonathan C.; Konovkina, Larissa; Sharpless, Kenneth B.; Fokin, Valery V.
   This invention provides a method for preparing a 1,2,3-triazole compound, comprising contacting an azide with a 2-substituted-1-haloalkyne in the presence of a copper catalyst and a copper-coordinating ligand (preferably a tertiary amine) in a liquid reaction medium, thereby forming a 1,2,3-substituted 1,2,3-triazole compound, including a halo substituent at the 5-position of the triazole, the organ portion of the organ, azide at the 1-position of the triazole, and the substituent of the 1-haloalkyne at the 4-position of the triazoles. A method for preparing 1-haloalkynes is also provided. Example compds...
   - Substances
   - Reactions
   - 0 Citings
   - Full Text
   - 0 Comments
   - 0 Tags

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