Reactions Of Glycidyl Derivatives With Ambident

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Conclusion. In summary, we achieved the annulation reaction of amino acid derivatives with glycidyl compounds as functionalized C 3 building blocks in combination with a cobalt-catalyzed addition of anilines to the epoxide functionality. This rather selective transition-metal catalysed step builds up the alcohol and the amino functionality, which compete in the final ring closure.

Reactions of glycidyl derivatives with ambident ...

Reactions of glycidyl derivatives with ambident nucleophiles; part 2: amino acid derivatives A three-step procedure for the synthesis of multifunctionalized heterocycles from a pyroglutamic acid derivative, glycidyl components and anilines by nucleophilic substitution and cobalt catalysis is presented.

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Reactions of Glycidyl Derivatives with Ambident Nucleophiles. Part 1: Ethyl Acetoacetate. Author links open overlay panel Gerald Dyker ... The formation of functionalized furans and pyrans from the title reactants is analyzed with regard to the reaction conditions and to the nature of the leaving group. Previous article in issue; Next article ...

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In principle the reaction with glycidyl derivatives 2 should lead to morpholinones 3 as depicted in Scheme 1, a class of heterocycles that are interesting as a crucial moiety of drugs for the treatment of various inflammatory and other diseases. [3-5] Scheme 1: Planned construction for morpholinones 3 from amino acid and glycidyl derivatives 1 ...

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Reactions Of Glycidyl Derivatives With In principle the reaction with glycidyl derivatives 2 should lead to morpholinones 3 as depicted in Scheme Scheme1, 1, a class of heterocycles that are interesting as a crucial moiety of drugs for the treatment of various inflammatory and other

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Base induced coupling reactions of ethyl acetoacetate (1) with glycidyl derivatives 2 (the ratio of 3:4 was determined by 1 H NMR (500 MHz, CDCl 3) of the crude product; diagnostic signals: for 3: δ=2.20 (t, J=1.6 Hz, 3H, vinyl-CH 3); for 4: δ=2.26 (t, J=1.5 Hz, 3H, vinyl-CH 3); yield of the purified product after Kugelrohr distillation is given)

Reactions of Glycidyl Derivatives with Ambident ...
from amino acid and glycidyl derivatives 1 and 2. Reactions Of Glycidyl Derivatives With Glycidyl derivatives of various phenols and amines have been reported in the literature. These have, in general, been prepared by the reaction of a phenol or an amine, respectively, with a suitable... Reactions of Glycidyl Derivatives with Ambident ...

Reactions Of Glycidyl Derivatives With Ambident
Kinetic studies by FT-NIR of the curing reactions of two glycidyl ether epoxy resins mixed with stoichiometric quantities of 4,4′ - DDS. High Performance Polymers 1994 , 6 (3) , 263-286.

Glycidyl Ether Reactions with Alcohols, Phenols ...
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Reactions of Glycidyl Derivatives with Ambident ...
Reaction of glycidyl phenyl ether with imines: A model study of latent hardeners of epoxy resins in the presence of water. Journal of Polymer Science Part A: Polymer Chemistry 2002 , 40 (8) , 971-975.

Glycidyl Ether Reactions with Amines | Industrial ...
Curing of new trimellitimide glycidyl ester derivatives with aromatic diamines. Pedro-Alberto Martínez. Departamento de Química Orgánica, Facultad de Químicas de Tarragona, ... secondary amino groups with epoxides. Impurities influence, playing the part of catalysts, could be determined from the reaction rate of glycidyl and amino groups.

Curing of new trimellitimide glycidyl ester derivatives ...
The derivatives of this application are based on the reaction of perfluoroalkyl iodopropyl glycidyl ethers and their dehydroiodination products, the perfluoroalkyl allyl glycidyl ethers, with active hydrogen compounds which include alcohols, carboxylic acids, water, phenols, mercaptans, mercaptoalcohols, thiourea, and hydrogen sulfide

Derivatives of perfluoroalkyl iodide-allyl glycidyl ether ...
Figure 5: The reaction used for synthesis of glycidyl ether. The R group is in this case a straight alkyl chain. The base is used to deprotonate the alcohol. Then the PTC transfer the charged alcohol derivative to the liquid bulk, where the reaction with epichlorohydrin takes place. A suggestion of the mechanism of the reaction is that two ...

Solvent -Free Synthesis of Glycidyl Ethers
Nishikubo, T., Kameyama, A. & Toya, Y. Synthesis of Photoreactive Imidazole Derivatives and Thermal Curing Reaction of Epoxy Resins Catalyzed by Photo-Generated Imidazole. Polym J 29, 450–456 ...

Synthesis of Photoreactive Imidazole Derivatives and ...
5. Reaction with sodium azide (50 °C) requires a mild acid such as ammonium chloride as the proton source for quenching the alkoxide anion. The reaction generates polymeric azides in high efficiency. A subsequent modification of the azide groups through copper-catalysed ‘click’ reaction then gives access to functionalised polymers.

Post-polymerization modification reactions of poly ...
The reaction between acid amides and aryl glycidyl ethers was carried out using tertiary amine as the catalyst. 2-Oxazolidone derivatives were obtained by the reaction of trichloroacetanilide or trifluoroacetanilide with aryl glycidyl ether. Acyl migration occurred in the reaction of acetanilide with phenyl glycidyl ether.

2-Oxazolidones from Glycidyl Ether Reactions with Acid ...
The bifunctional derivative 2 is more efficient than the monofunctional derivative 1 in inducing thermal cross-linking of PGMA, with a maximum degree of insolubilization increasing up to ca. 90%. Citing Literature

Thermal curing reaction of poly(glycidyl methacrylate ...
The main novelties of this work are the analysis on 1) the reaction mechanism of KL and dodecyl glycidyl ether (DGE) with DGE as the etherifying agent, 2) the impact of methylation on the etherification of KL, and 3) the thermal behavior of the induced lignin derivatives.