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Thermal Decomposition of Ionic Solids, Volume 86 - 1st Edition

Thermal decomposition of carboxylate ionic liquids: trends and mechanisms Matthew T. Clough,^a Karolin Geyer,^{*b} Patricia A. Hunt,^{*a} Jürgen Mertes^b and Tom Welton^{*a} ^a Department of Chemistry, Imperial College London, London, UK, SW7 2AZ, United Kingdom ^b BASF SE, Ludwigshafen, Germany

Thermal decomposition of carboxylate ionic liquids: trends

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Thermal Decomposition Mechanisms of Alkylimidazolium Ionic

Thermal Decomposition Mechanisms of Alkylimidazolium Ionic Liquids With Cyano-Functionalized Anions. Both gas phase and condensed phase (generic ionic liquid (GIL) model) density functional theory calculations support the decomposition mechanisms and the GIL model could provide a highly accurate means to determine thermal stabilities for ionic liquids in general.

Thermal Decomposition Mechanisms of Alkylimidazolium Ionic

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Thermal stability data acquired from previous studies indicate the interdependence between ion thermal stability and mixture decomposition behaviors. In the present study, according to research on the elements affecting the thermal stability of pure ILs, ions with considerably different thermal stabilities were selected to constitute binary mixtures for performing distinct thermal behaviors.

Thermal decomposition of imidazolium-based ionic liquid

• Develop ionic liquids for two geothermal applications • High temperature heat transfer fluids. • Decomposition temperatures greater than common high temperature heat transfer fluids • Thermal conductivities as good as or better than common high temperature heat transfer fluids. • IL/water absorption refrigeration.

Ionic Liquids for Utilization of Geothermal Energy

For measurement of the long-term thermal stability of five imidazolium ionic liquids, as for the ionic liquids [C4C1C1im][NTf2], whose T_{onset} is 424 °C, if the criterion of 10 % loss in 10 h for the isothermal studies is used, the maximum temperature of operation for this ionic liquids should not exceed 250 °C [27].

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