

Additions and Corrections

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Bridged Heterocyclium Dicationic *closo*-Icosahedral Perfluoroborane, Borane, and Carborane Salts via Aqueous, Open-Air Benchtop Synthesis

Page 2714. The following corrections and changes are needed in the Supporting Information:

- (a) Corresponding author e-mail address needs to be updated. The scott.shackelford@edwards.af.mil e-mail address is now inactive, and scottshack@roadrunner.com replaces it.
- (b) Table of Contents, Page 2, first salt listed under “General Conventional Alkylation Procedure,” [1,4-di-(4-amino-1,2,4-triazolium)-2-butyne-1N][Br]₂ (1), is incorrect; the “-1N” designation behind “butyne” should be removed and placed behind “triazolium” so that the salt name reads [1,4-di-(4-amino-1,2,4-triazolium-1N)-2-butyne][Br]₂ (1).
- (c) Table of Contents, Page 2, last salt listed under “General Conventional Alkylation Procedure,” [trans-1,4-di-(1-methylimidazolum)-2-butene-3N][Br]₂ (5), is incorrect; the “-3N” designation behind “butene” should be removed and placed behind “imidazolum” so that the salt name reads, [trans-1,4-di-(1-methylimidazolum-3N)-2-butene][Br]₂ (5).
- (d) Table of Contents, Page 3, second salt entry, listed as [1,4-di-(4-amino-1,2,4-triazolium-1N)-2-butyne-1N][closo-B₁₂F₁₂] (18), is incorrect; the “-1N” designation behind “butyne” should be removed so that the salt name reads, [1,4-di-(4-amino-1,2,4-triazolium-1N)-2-butyne][closo-B₁₂F₁₂] (18).
- (e) Table of Contents, Page 3, the last salt name above the “Melting Point Detailed Data” entry, listed as [1,4-di-(4-amino-1,2,4-triazolium-1N)-2-butyne-1N][closo-B₁₂F₁₂] (18), is incorrect; the “-1N” designation behind “butyne” should be removed so that the salt name reads, [1,4-di-(4-amino-1,2,4-triazolium-1N)-2-butyne][closo-B₁₂F₁₂] (18).
- (f) Page 5, first salt listed, [1,4-di-(4-amino-1,2,4-triazolium)-2-butyne-1N][Br]₂ (1), is incorrect; the “-1N” designation behind “butyne” should be removed and placed behind “triazolium” so that the salt name reads, [1,4-di-(4-amino-1,2,4-triazolium-1N)-2-butyne][Br]₂ (1).
- (g) Page 6, last salt entry, [trans-1,4-di-(1-methylimidazolum)-2-butene-3N][Br]₂ (5), is incorrect; the “-3N” designation behind “butene” should be moved and placed behind “methylimidazolum” so that the salt name reads, [trans-1,4-di-(1-methylimidazolum-3N)-2-butene][Br]₂ (5).
- (h) Page 8, first salt entry, [1,4-di-(4-amino-1,2,4-triazolium)-2-butyne-1N][closo-B₁₂H₁₂] (6), is incorrect; the “-1N” designation behind “butyne” should be removed and placed behind “triazolium” so that the salt name reads, [1,4-di-(4-amino-1,2,4-triazolium-1N)-2-butyne][closo-B₁₂H₁₂] (6).
- (i) Page 10, first line under the salt name, [trans-1,4-di-(4-amino-1,2,4-triazolium-1N)-2-butene][closo-B₁₂F₁₂] (16), the reactant salt, 1,4-di-(4-amino-1,2,4-triazolium-1N)-trans-2-butene dibromide (2), for consistency, could be altered to read, trans-1,4-di-(4-amino-1,2,4-triazolium-1N)-2-butene dibromide (2).
- (j) Page 10, second line under the salt name, [trans-1,4-di-(4-amino-1,2,4-triazolium-1N)-2-butene][closo-B₁₂F₁₂] (16):, the formula K₂[B₁₂H₁₂] is incorrect and should be changed to read K₂[B₁₂F₁₂];
- (k) Page 10, the last salt entry, [1,4-di-(4-amino-1,2,4-triazolium-1N)-2-butyne-1N][closo-B₁₂F₁₂] (18):, is incorrect; the “-1N” designation behind “butyne” should be removed so that the salt name reads [1,4-di-(4-amino-1,2,4-triazolium-1N)-2-butyne][closo-B₁₂F₁₂] (18);
- (l) Page 11, first line, the formula K₂[B₁₂H₁₂] is incorrect and should be changed to read K₂[B₁₂F₁₂];
- (m) Page 11, first line under the last salt name at the bottom of the page, [trans-1,4-di-(4-amino-1,2,4-triazolium-1N)-2-butene][closo-B₁₂F₁₂] (16):, the reactant salt, 1,4-di-(4-amino-1,2,4-triazolium-1N)-2-butyne dibromide (2), is incorrect; the term “butyne” should

be changed to “butene” so that this reactant salt name reads, 1,4-di-(4-amino-1,2,4-triazolium-1N)-2-butene dibromide (2);

- (n) Page 11, second line under the last salt name at the bottom of the page, [***trans*-1,4-di-(4-amino-1,2,4-triazolium-1N)-2-butene**][***closo*-B₁₂F₁₂**] (16); the formula K₂[B₁₂H₁₂] is incorrect and should be changed to read K₂[B₁₂F₁₂];
- (o) Page 14, first line under the salt product name, [***trans*-1,4-di-(1-amino-1,2,3-triazolium-3N)-2-butene**][***closo*-B₁₂F₁₂**] (17); 1,4-di-(1-amino-1,2,3-triazolium-3N)-2-butyne dibromide (3), is incorrect; the term “butyne” should be changed to “butene” so that this reactant salt name reads, 1,4-di-(1-amino-1,2,3-triazolium-3N)-2-butene dibromide (3);
- (p) Page 14, second line under the salt name, [***trans*-1,4-di-(1-amino-1,2,3-triazolium-3N)-2-butene**][***closo*-B₁₂**

F₁₂] (17); the formula K₂[B₁₂H₁₂] is incorrect and should be changed to read K₂[B₁₂F₁₂];

- (q) Page 16, at the top of the page, first line under the product salt name, [***1,4-di-(4-amino-1,2,4-triazolium-1N)-2-butyne***][***closo*-B₁₂F₁₂**] (18); 1,4-di-(1-amino-1,2,3-triazolium-3N)-2-butyne dibromide (1), is incorrect; the term “1,4-di-(1-amino-1,2,3-triazolium-3N)” should be changed to “1,4-di-(4-amino-1,2,4-triazolium-1N)” so that this reactant salt name reads, 1,4-di-(4-amino-1,2,4-triazolium-1N)-2-butyne dibromide (1).

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