



Designation: ~~E1519-06a~~<sup>e1</sup> Designation: E1519-10

## Standard Terminology Relating to Agricultural Tank Mix Adjuvants<sup>1</sup>

This standard is issued under the fixed designation E1519; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

~~<sup>e1</sup>Note—The term “basic blend” was editorially corrected and other corrections were made throughout in September 2006.~~

### 1. Scope

1.1 This terminology is used or is likely to be used in test methods, specifications, guides, and practices related to agricultural tank mix adjuvants.

1.2 These definitions are written to ensure that standards related to agricultural tank mix adjuvants are properly understood and interpreted.

### 2. Referenced Documents

2.1 *ASTM Standards:*<sup>2</sup>

D459 [Terminology Relating to Soaps and Other Detergents](#)

D483 [Test Method for Unsulfonated Residue of Petroleum Plant Spray Oils](#)

E609 [Terminology Relating to Pesticides](#)

D2140 [Practice for Calculating Carbon-Type Composition of Insulating Oils of Petroleum Origin](#)

### 3. Terminology

3.1 *Terms and Definitions:*

**absorption**—a process in which one material (the absorbent) takes in and retains another (the absorbate).

**acidifier**—a material that can be added to spray mixtures to lower the pH.

**activator**—a material that increases the biological efficacy of agrichemicals.

**active ingredient**—a component of the formulation that produces a specific effect for which the formulation is designed.

**adjuvant**—a material added to a tank mix to aid or modify the action of an agrichemical, or the physical characteristics of the mixture.

**alkalinity agent**—a material that can be added to the spray mixture to raise the pH.

**amphoteric surfactant**—a surface-active agent capable of forming, in aqueous solution, either surface-active anions or surface-active cations depending on the pH.

**anionic surfactant**—a surface-active agent in which the active portion of the molecule containing the lipophilic segment forms exclusively a negative ion (anion) when placed in aqueous solution.

**antifoaming agent**—a material used to inhibit or prevent the formation of foam.

**attractant**—a material that attracts specific pests.

**basic blend**—a combination of wetting agent and buffering agent that maintains a pH of the spray mixture greater than 7.

**buffer or buffering agent**—a compound or mixture that, when contained in solution, causes the solution to resist change in pH.

Each buffer has a characteristic limited range of pH over which it is effective.

**canopy penetrating agent**—an adjuvant that increases the penetration of the spray material into the crop canopy. See **deposition aid**.

**cationic surfactant**—a surface-active agent in which the active portion of the molecule containing the lipophilic segment forms exclusively a positive ion (cation) when placed in aqueous solution.

**colorant**—a material used to alter the color of the tank mix.

<sup>1</sup> This terminology is under the jurisdiction of ASTM Committee E35 on Pesticides and Alternative Control Agents and is the direct responsibility of Subcommittee E35.22 on Pesticide Formulations and Delivery Systems.

Current edition approved June 1, 2006. Published June 2006. Originally approved in 1993. Last previous edition approved in 2006 as E1519-06. DOI: 10.1520/E1519-06AE01.

Current edition approved Dec. 1, 2010. Published January 2011. Originally approved in 1993. Last previous edition approved in 2006 as E1519-06a<sup>e1</sup>. DOI: 10.1520/E1519-10.

<sup>2</sup> For referenced ASTM standards, visit the ASTM website, [www.astm.org](http://www.astm.org), or contact ASTM Customer Service at [service@astm.org](mailto:service@astm.org). For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.