

**§ 582.80**

Decanal (*N*-decylaldehyde, capraldehyde, capric aldehyde, caprinaldehyde, aldehyde C-10).  
 Diacetyl (2,3-butandione). Ethyl acetate. Ethyl butyrate.  
 3-Methyl-3-phenyl glycidic acid ethyl ester (ethyl-methyl-phenyl-glycidate, so-called strawberry aldehyde, C-16 aldehyde).  
 Ethyl vanillin.  
 Eugenol.  
 Geraniol (3,7-dimethyl-2,6 and 3,6-octadien-1-ol).  
 Geranyl acetate (geraniol acetate).  
 Glycerol (glyceryl) tributyrate (tributyryl, butyryl).  
 Limonene (*d*-, *l*-, and *dl*-).  
 Linalool (linalol, 3,7-dimethyl-1,6-octadien-3-ol).  
 Linalyl acetate (bergamol).  
 1-Malic acid.  
 Methyl anthranilate (methyl-2-aminobenzoate).  
 Piperonal (3,4-methylenedioxy-benzaldehyde, heliotropin).  
 Vanillin.

**§ 582.80 Trace minerals added to animal feeds.**

These substances added to animal feeds as nutritional dietary supplements are generally recognized as safe when added at levels consistent with good feeding practice.<sup>1</sup>

Element	Source compounds
Cobalt .....	Cobalt acetate. Cobalt carbonate. Cobalt chloride. Cobalt oxide. Cobalt sulfate.
Copper .....	Copper carbonate. Copper chloride. Copper gluconate. Copper hydroxide. Copper orthophosphate. Copper oxide. Copper pyrophosphate. Copper sulfate.
Iodine .....	Calcium iodate. Calcium iodobenenate. Cuprous iodide. 3,5-Diiodosalicylic acid. Ethylenediamine dihydroiodide. Potassium iodate. Potassium iodide. Sodium iodate. Sodium iodide. Thymol iodide.
Iron .....	Iron ammonium citrate. Iron carbonate. Iron chloride. Iron gluconate. Iron oxide. Iron phosphate. Iron pyrophosphate. Iron sulfate.

<sup>1</sup> All substances listed may be in anhydrous or hydrated form.

**21 CFR Ch. I (4–1–10 Edition)**

Element	Source compounds
Manganese .....	Reduced iron. Manganese acetate. Manganese carbonate. Manganese citrate (soluble). Manganese chloride. Manganese gluconate. Manganese orthophosphate. Manganese phosphate (dibasic). Manganese sulfate. Manganous oxide.
Zinc .....	Zinc acetate. Zinc carbonate. Zinc chloride. Zinc oxide. Zinc sulfate.

**§ 582.99 Adjuvants for pesticide chemicals.**

Adjuvants, identified and used in accordance with 40 CFR 180.1001(c) and (d), which are added to pesticide use dilutions by a grower or applicator prior to application to the raw agricultural commodity, are exempt from the requirement of tolerances under section 409 of the act.

**Subpart B—General Purpose Food Additives**

**§ 582.1005 Acetic acid.**

(a) *Product.* Acetic acid.  
 (b) *Conditions of use.* This substance is generally recognized as safe when used in accordance with good manufacturing or feeding practice.

**§ 582.1009 Adipic acid.**

(a) *Product.* Adipic acid.  
 (b) [Reserved]  
 (c) *Limitations, restrictions, or explanation.* This substance is generally recognized as safe when used as a buffer and neutralizing agent in accordance with good manufacturing or feeding practice.

**§ 582.1033 Citric acid.**

(a) *Product.* Citric acid.  
 (b) *Conditions of use.* This substance is generally recognized as safe when used in accordance with good manufacturing or feeding practice.

**§ 582.1057 Hydrochloric acid.**

(a) *Product.* Hydrochloric acid.  
 (b) [Reserved]  
 (c) *Limitations, restrictions, or explanation.* This substance is generally recognized as safe when used as a buffer