



70% Choline Chloride Aqueous INF 7-01-228

Specification:

Appearance – Clear to light amber liquid with a slight amine odor.

Substrate Composition – 70 to 72% Choline Chloride

Substrate Content – 70% Choline Chloride (318,000 mg/lb or 700,000 mg/kg) Minimum
Equivalent to 60.8% Choline Hydroxide (276,000 mg/lb or 608,000 mg/kg) Minimum
Equivalent to 52.2% Choline Cation (237,000 mg/lb or 522,000 mg/kg) Minimum

pH – 6.5 to 9.0

Typical Properties:

	<u>Heavy Metals</u>		<u>Dioxins</u>
Arsenic (As)	≤ 4 ppm	Dioxins TEQ	≤ 1.0 ng/kg
Cadmium (Cd)	≤ 0.5 ppm	Dioxins + PCBs TEQ	≤ 1.5 ng/kg
Fluorine	≤ 500 ppm	Non-dioxin-like PCBs	≤ 10 µg/kg
Lead (Pb)	≤ 10 ppm		
Mercury (Hg)	≤ 0.2 ppm		

Application:

A liquid Choline Chloride feed additive for all species of livestock. Do not use as final feed.

Ingredients:

Choline Chloride, Water

**Dosage:**

There is no restriction for the maximum level of choline chloride in feed. Use in accordance with in-house requirements or with current NRC guidelines.

Precautions:

Generally regarded as safe (GRAS). Avoid contact with eyes and skin. Avoid breathing dust. Wash thoroughly after handling.

Storage:

Keep from extreme heat or cold. Recommended storage temperature 50° - 90°F (10° - 32°C). Close container when not in use.

Packaging:

500 pounds in a 55-gallon polyethylene drum
2500 pounds in a 275-gallon IBC
Bulk shipments

Shelf Life:

Best if used within two years from manufacturing date.

Country of Origin:

United States of America