

# Alpha Lipoic Acid (ALA)

INCI Name: Thiocctic Acid

CAS Numbers: 1077-28-7

## Description:

Alpha Lipoic Acid or ALA, is found in healthy foods such as spinach, chard, collard greens and broccoli, foods often deficient in standard American diets. It is an antioxidant that is found in every human cell. ALA at 5% has been shown to reduce fine lines caused by sun damage.



## Technical Data:

<u>Physical</u>	<u>Specification</u>
Appearance	Yellowish crystalline powder
Identification	The chromatogram's retention time corresponds to standard chromatogram
Melting point	60.0°C to 62.0°C
Specific rotation	-1° to +1.0°
<u>Composition</u>	
Assay	99.0% ~ 101.0% min.
Residue on ignition	0.1% max.
Loss on drying	0.2% max.
<u>Safety</u>	
Heavy metals	10 ppm max.
Limit of polymer content	2.0% max.
Related substance:	
6,8-Epitrithioctanoic acid (EPI)	0.10% max.
Single impurity	0.10% max.
Total impurities	0.50% max.
Residual solvent:	
Cyclohexane	1,000 ppm max.
Ethyl Acetate	250 ppm max.
Toluene	20 ppm max.
<u>Microbiology</u>	
Total Plate Count	1,000 cfu/g max.
Mold & Yeast	100 cfu/g max.
E. Coli	Negative
Salmonella	Negative

## Applications:

ALA is found in moisturizers and anti-aging creams, eye creams, and sunscreens to reduce fine lines and wrinkles.



McKinley Resources, Inc.

P.O. Box 810472 • Dallas, TX 75381

Phone: 972-620-9730 • Fax: 972-421-1860

info@mckinleyresources.com • www.mckinleyresources.com