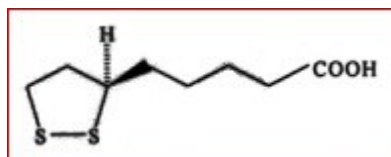


## ALPHA LIPOIC ACID

### Molecular Structure



Molecular formula	C <sub>8</sub> H <sub>14</sub> O <sub>2</sub> S <sub>2</sub>
Molecular weight	206.33
Description	A yellow powder, almost odorless
Identification	a) To comply by IR Spectrum b) To comply by HPLC
Solubility	Practically insoluble in water, Soluble in methanol, alcohol and chloroform.
Clarity of solution	A 10% solution in 1 N sodium hydroxide is clear and yellow.
Melting Range	Between 58° C and 62° C
Residue on ignition	Not more than 0.1%
Specific optical rotation	Between -1° and +1° (2 % w/v solution in benzene at room temp.)
Heavy metals	Not more than 20 ppm
Arsenic	Not more than 1 ppm
Lead	Not more than 10 ppm
Tapped Bulk Density	Between 0.40 and 0.60 g/ml
Loose Bulk Density	Between 0.30 and 0.40 g/ml
Sieve test	
-20 mesh	Not less than 100.0%
-40 mesh	Not less than 85.0%
-80 mesh	Not less than 75.0%
Assay	
-By HPLC	Not less than 99.0% on dried basis
Microbiological Profile	
- Total Plate Count	Less than 5,000 cfu/g
- Yeast and mold	Less than 100 cfu/g
- E.coli	Negative
- Salmonella	Negative
- Staphylococcus aureus	Negative
- Pseudomonas aeruginosa	Negative
- Coliforms	£3/g

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