



## Specification

Concerning Product:	
Article number	1200222SU
Trade name / designation / denomination	Alpha-Liponsäure, USP DL-Thioctic acid
CAS number	1200-22-2
Other names / synonyms	•(R)-(+)-1,2-Dithiola; •(R)-(+)-1,2-Dithiolane-3-pentanoic acid; •5-[(3R)-dithiolan-3-yl]pentanoic acid; •5-[(3R)-dithiolan-3-yl]valeric acid; •R-alpha lipoic acid;
EC number	1308068-626-2
Molecular weight [g / mol]	206.318
Formula	C <sub>8</sub> H <sub>14</sub> O <sub>2</sub> S <sub>2</sub>
<b>Warning</b>	
Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Specific treatment (see details on this label). Rinse mouth.	

Parameter	Specification	Unit
<b>Organoleptic test</b>		
Appearance	Yellow crystal	
<b>Physical parameter</b>		
Loss on drying	≤ 0,5	%
Specific Optical Rotation	110 ~ 120	°
Melting range	48 – 51	°C
Bulk density	0,25 – 0,35	g/ml
<b>Identity</b>		
Assay	≥ 99,00	%
<b>Impurities</b>		
Residue on ignition	≤ 0,1	%
Heavy Metals (as Pb)	≤ 10	ppm
<b>Elemental Impurities</b>		
Arsenic (As)	≤ 2	ppm
Cadmium (Cd)	≤ 1	ppm
Mercury (Hg)	≤ 0,1	ppm
Lead (Pb)	≤ 3	ppm
<b>Microbiological data</b>		
Escherichia Coli.	Neg.	CFU/g
Salmonella	Neg.	
Total Plate Count	≤ 1,000	CFU/g
Yeast and Mould	≤ 100	CFU/g
<b>Particle size distribution</b>		
Particles	100% through 40 mesh	%

### Supplemental information:

**Conclusion:** Conformed the USP Standard

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 06. Oct. 2021

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