

Technical data sheet

ALBERDINGK® 12-HSA Flakes 52

Characteristic:

12-Hydroxy Stearic Acid (12-HSA) is a wax-like odourless substance usually used in form of cream-coloured or white flakes or powder. It is derived from Castor Oil (extracted from the seeds of "Ricinus communis L.") by hydrogenation and hydrolysis. The content of 12-HSA in the fatty acid of hydrogenated Castor oil is about 83-90%.

Specification:

| | | | |
|---------------------------|------------|----------|-----------------|
| Gardner colour value | | max. 5 | AOCS Td 1a-64 |
| Acid value | mg KOH/g | min. 175 | AOCS Cd 3d-63 |
| Iodine value acc. to Wijs | g Iod/100g | max. 5 | AOCS Cd 1d - 92 |
| Hydroxyl value | mg KOH/g | min. 150 | AOCS Cd 13-60 |
| Water content | % | max. 1 | ISO 8534 |

According to:

Further typical data*:

| | | | |
|----------------------|----------|----------|--------------|
| Saponification value | mg KOH/g | min. 180 | AOCS Cd 3-25 |
| Melting point | °C | min. 72 | AOCS Cc 1-25 |

According to:

Properties:

12-Hydroxy Stearic Acid is a saturated C18-fatty acid. It is suitable for various chemical derivatization due to the carboxyl as well as the hydroxyl functionality.

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Applications:

12-Hydroxy Stearic Acid is widely used in the production of glycerine-free multi-purpose calcium and lithium lubricating greases. Lubricating greases produced out of 12-HSA exhibit excellent resistance to oils and fats, water and solvents and they endue a long- life stability. Besides the application in the lubricating sector, 12-HSA is an important raw material in the production of thixotropic agents for solvent-based coating systems. The production of solvent or waterborne polyesters for paints and the manufacture of wax blends and hotmelt adhesives as well as the use as a processing aid for natural and synthetic rubber are further application fields. Another important field is the use of 12-HSA in cosmetics such as deodorants.

Storage:

When stored in tightly sealed packaging, protected from light and at temperatures from + 10 °C to + 30 °C, the specification parameters remain stable for at least 12 months from the production date.

Safety:

For further information on product safety please refer to the current safety data sheet.

Notice:

* General information - the values can not be considered as part of the product specification.