

Tanal 04

>>> Tannic Acid Tanal 04 Product data-sheet

Tanal 04 is a specially purified low molecular weight hydrolysable high quality tannic acid particularly suitable for food applications.

Tanal 04 is a 100 % natural material extracted from renewable plant materials using dedicated strictly controlled production facilities. No added preservatives or additives are used in the production of Tanal 04.

>>> PROPERTIES^(*)

▪ Delivery form:	yellow brown granular powder, free of visible impurities
▪ Odour:	slight in solution, typical tannic acid.
▪ Purity (on dry material):	min. 96 %
▪ Moisture:	max. 7 %
▪ Density:	0.35 – 0.45 g/cm ³
▪ pH (1 % in water):	2.5 – 3.5
▪ Colour Gardner (1:10; alcohol):	max. 11
▪ Solubility in H ₂ O:	clear

^(*) Only selected data is represented here, for a full set of specifications we refer to our **Specifications** sheet.

>>> USAGE

Tanal 04 has major applications as a taste-modifying agent in the food industry. Depending on the usage level and the application Tanal 04 can act as a taste enhancer or can impart mild astringency or bitterness. Typical applications include tea like drinks or solid flavoured drink powders.

In soft drinks Tanal 04 is used to mask the undesirable after-taste of sweeteners (e.g. aspartame, acesulfame K) often associated with these products.

When used in combination with acid colorants it can help reduce the staining behaviour of such colorants on textiles and help ease the removal of such stains during laundering.

In these application guidance dosage levels are in the order of magnitude of 20 - 150 ppm.

Tanal 04 is in accordance with current versions of FCC and USP. According to WHO-FAO regulations Tanal 04 is recognized as a technical or filtering aid.

Tanal 04 easily dissolves in water or even better in hot water (e.g. 60°C). Solutions up to 50 % (m/V) can be prepared. However such solutions are viscous and can be difficult to handle. In practice Tanal 04 is added as a 5 – 10 % (m/V) solution.

Shelf life of these solutions is related to concentration: 1 % (m/V) solution should be used within the same day, 5-10 % solution can be stored for 1 week at room temperature. 30 % solutions can be used for several months, assuming no micro-biological contamination occurs.

High amounts of dissolved iron or copper will cause formations of resp. dark blue or brown tannic acid-metal complexes, and should therefore be avoided.

>>> STORAGE AND HANDLING

Tanal 04 does not require special storage conditions and has a shelf life of min. 5 years if stored in a dry area in its original closed packaging. The product is not frost sensitive and normal ambient temperatures (i.e. 5-25°C) suffice.

Prolonged exposure of Tanal 04 to light can cause a gradual colour shift. This does not influence technical performance of the product unless colour is a critical parameter in the application. Storage of Tanal 04 open to the atmosphere can result in moisture uptake from the surroundings. Therefore reseal the inner plastic bag and keep the lid on the fibre drum if Tanal 04 is not in use.

Due to its granular form Tanal 04 produces little or no dust during handling.

>>> PACKAGING

Tanal 04 is available as a spray-dried granular product in 25 kg or 50 lbs. fibre drums lined with an inner Polyethylene bag.

>>> FURTHER INFORMATION

Further safety information is provided in our **Material Safety Data Sheet**.

Upon simple request a controlled copy of our **Specifications** can be provided by our QC-department.

Information on usage and applications can be found in our **Technical Leaflets**. Our R&D department can provide you further detailed information on composition and regulatory status.

Deliveries are accompanied by a **Certificate of Analysis**.

CAS Nr.:	1401-55-4
EINECS/ELINCS:	215-753-2
FEMA-GRAS:	3042
FAO/WHO INS No:	181

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