



Specialized in chemicals

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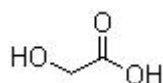
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Technical Data Sheet

Glycolic acid

Product Information

Chemical Name	Glycolic acid
CAS #	79-14-1
Formula	C ₂ H ₄ O ₃
Molecular Weight	76.05
Synonyms	Hydroxyacetic acid
Chemical Structure	



Description

Glycolic acid 70% solution is light yellow to colorless liquid, has a similar smell of burning sugar, freezing point is 10° C;

Physical Properties

Melting point, °C.	80
Boiling range, °C	100
Density @ 20°C, g/cm ³	1.49
Flash point, °C	300

Specification

1) Industrial Grade

Appearance	Yellow brown transparent liquid
Assay (Total Acid)	≥70.00%
Color (Pt-co)	≤60
Heavy Metal	≤20ppm
Chloride	≤2.0%

Fe $\leq 10\text{ppm}$

2) Pharm. Grade

Appearance Light yellow or colorless transparent liquid

Assay (Total Acid) $\geq 70.0\%$

Color (Pt-co) ≤ 30

Heavy Metal $\leq 10\text{ppm}$

Fe $\leq 10\text{ppm}$

Cl $\leq 10\text{ppm}$

3) Cosmetic grade

Appearance Colorless transparent liquid

Assay (Total Acid) ≥ 70.0

Color (Pt-co) ≤ 30

Heavy metals $\leq 20\text{ppm}$

Chloride $\leq 10\text{ppm}$

Safety

Glycolic acid is a dangerous cargo on transportation, class 8, with corrosion properties. Always refer to the Material Safety Data Sheet (MSDS)

Applications

- 1) Glycolic acid 70% solution can be used as cleaning agent. The mixture of glycolic acid 20% solution and formic acid 1% is a highly efficient and low-cost cleaning agent used in air-conditioning, boilers, running piping, electrical plant, condenser, heat exchanger, etc.
- 2) Glycolic acid (or hydroxyacetic acid) is the smallest α -hydroxy acid (AHA). This colorless, odorless, and hygroscopic crystalline solid is highly soluble in water. It is used in various skin-care products.
- 3) Glycolic acid is used to improve the skin's appearance and texture. It may reduce wrinkles, acne scarring, hyperpigmentation and improve many other skin conditions, including actinic keratosis, hyperkeratosis, and seborrheic keratosis.
- 4) Glycolic acid is used in the textile industry as a dyeing and tanning agent, in food processing as a flavoring agent and as a preservative, and in the pharmaceutical industry as a skin care agent.
- 5) Glycolic acid is also a useful intermediate for organic synthesis, in a range of reactions including: oxidation-reduction, esterification and long chain polymerization. It is used as a monomer in the preparation of polyglycolic acid and other biocompatible copolymers.

Packaging

250kg per plastic or iron drum.

16mt per 20ft container

Storage & Handling

It is stable stored at temperature above 10 ° C(50 ° F). The storage should be kept warm to maintain temperatures above 10 ° C(50 ° F) to prevent precipitation of glycolic acid crystals. Please refer to the Materials Safety Data Sheet (MSDS) for the handling methods.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we has been advised of the possibility of such damages.

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