



Specialized in chemicals

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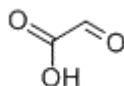
Site: www.tnjchem.com

Technical Data Sheet

Glyoxylic acid

Product Information

Product Name	Glyoxylic acid
Synonyms	2-Oxoacetic acid; Oxoethanoic acid;
CAS No.	298-12-4
EINECS No.	206-058-5
Molecular formula	C ₂ H ₂ O ₃
Molecular weight	74.04
Chemical structure	



Physical Properties

Colorless or light yellow liquid, can be dissolved with water, slightly soluble in ethanol, aether, insoluble in esters, aromatic solvents. This solution is not stable but will not decay in the air.

Density	1.33 g/mL at 20°C (lit.)
Melting Point	-93°C
Boiling Point	111°C
Refractive Index	n ₂₀ /D 1.414)
Flashing Point	111°C
Vapor pressure	0.0331mmHg at 25° C

Specification

1) Glyoxylic acid 40% Liquid

Content	40 ± 0.5%
Oxalic Acid	≤ 1%
Nitric acid	≤ 0.2%

Glyoxal $\leq 1\%$

2) Glyoxylic acid 50% Liquid

Index Name	Normal Grade	Chelating Grade	Top Grade
Content	$50 \pm 0.5\%$	$50 \pm 0.5\%$	$50 \pm 0.5\%$
Glyoxal	$\leq 1\%$	$\leq 0.5\%$	$\leq 0.25\%$
Oxalic Acid	$\leq 1\%$	$\leq 0.5\%$	$\leq 0.25\%$
Nitric acid	$\leq 0.2\%$	$\leq 0.2\%$	$\leq 0.2\%$

Safety

Glyoxylic acid belongs to class 8 dangerous cargo on transportation,
Always refer to the Material Safety Data Sheet (MSDS)

Applications

- 1) Used as material for methyl vanillin, ethyl vanillin in flavor industry;
- 2) Used as intermediate for atenolol, D-hydroxybenzeneglycin, broadspectrum antibiotic, amoxicillin (orally taken), acetophenone, amino acid etc.
- 3) Used as intermediate of varnish material, dyes, plastic, agrochemical, allantoin and daily-use chemical etc..

Packaging

25kg per plastic drum or 250kg per plastic drum;
Total 20MT per 20ft container on pallets (without pallets)

Storage & Handling

Stored in cool, dry and draughty place. Stored as toxic chemicals.
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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