



ELRASA - GLAA G1™ (Glacial Acetic Acid)

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	Glacial acetic acid looks like a clear liquid without any color. It smells very strong and sharp, similar to vinegar. When it gets really cold, it can turn into solid ice-like crystals.
Physical Form	Clear liquid
Odor	Strong, pungent, vinegar-like.
Molecular Weight	60.05 g/mol
Assay / Purity	99.80% min
Specific Gravity	1.0505 - 1.0520 (@ 20/20 °C)
Viscosity	1.22 mPa·s (@ 25 °C)
Refractive Index	1.371 (n _{20/D})
pH (aqueous solution)	2.4 (for 1.0 M solution)
Chemical Properties	
pKa	4.76 (@ 25 °C)
Ionic Nature	Weak monoprotic acid.
Incompatibilities	Oxidizing agents, reducing agents, metals, bases, amines, carbonates, hydroxides, phosphates, peroxides, permanganates, chromic acid, nitric acid.
Hazardous Reactions / Decomposition Products	Reacts with metals to produce flammable hydrogen gas. Hazardous decomposition products are carbon oxides (CO, CO ₂).
Thermal Properties	
Freezing Point	15.35 - 16.40 °C
Boiling Point	118.1 °C
Flash Point	39 °C (102.2 °F) (Closed Cup)
Autoignition Temperature	463 °C (865.4 °F)
Thermal Stability	Stable under recommended storage conditions.
Solubility	
Solubility in Water	Miscible
Solubility in Ethanol	Miscible



Property	Specification
Solubility in Acetone	Soluble
Solubility in Diethyl Ether	Soluble
Solubility in Glycerol	Miscible
Solubility in Chloroform	Miscible
Solubility in Benzene	Miscible

2. Dosing by Application

Application	Recommended / Max Dosage
Condiments and Relishes	9.0%
Gravies and Sauces	3.0%
Cheeses and Dairy Product Analogs	0.8%
Meat Products	0.6%
Fats and Oils	0.5%
Baked Goods	0.25%
All Other Food Categories	0.15%

The information and data contained herein are believed to be accurate but may not be all inclusive and should only be used as a guide. The information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the product for his particular use and on condition that they assume the risk of the use thereof.

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