3-Glycidoxypropyltrimethoxysilane (GPTMS)

3-Glycidoxypropyltrimethoxysilane (GPTMS) · RS-GPTMS · CAS 2530-83-8 · Technical Data Sheet · RawSource · rawsource.com/product/3-glycidoxypropyltrimethoxysilane/

CAS NO.	PRODUCT CODE	PRODUCT TYPE
2530-83-8	RS-GPTMS	Organofunctional silane · coupling agent

3-Glycidoxypropyltrimethoxysilane is a coupling agent with an epoxy group. It is effective on fillers such as clay, talc, silica and quartz, and on metals such as aluminum, copper and iron.

DISTRIBUTED BY
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Product page: rawsource.com/product/3-glycidoxypropyltrimethoxysilane/
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GENERAL INFORMATION

Chemical name	3-Glycidoxypropyltrimethoxysilane
Molecular formula	$C_9H_{20}O_5Si$
Molecular weight	236.3

TYPICAL PROPERTIES

Boiling Point	262 °C	Flash Point	122 °C, Pensky-Martens Closed Cup

Typical values are representative of the product and are not specifications.

RELEASE SPECIFICATION

PARAMETER	SPECIFICATION	TYPICAL
Appearance	Colorless Transparent Liquid	Conform
Assay	98.0 % min	98.39 %
Specific Gravity, 25 °C	1.060 – 1.080	1.071
Refractive Index, 20 °C	1.4220 – 1.4320	1.4266

Each lot is released against this specification. Lot-specific results are reported on the Certificate of Analysis that ships with every delivery.

KEY FEATURES

- Improves the strength of hard composite materials reinforced with glass fiber roving
- Keeps strength after a humidity period
- Improves the electrical properties of epoxy resin based sealants, packaging materials and printed circuit boards
- Improves the electrical properties of inorganic filled composites, including nylon and polybutylene terephthalate
- Improves adhesion between fillers, or between resin and matrix

APPLICATIONS

- Polysulfide and polyurethane caulks and sealants
- Epoxy resin adhesives
- Filled or reinforced thermosetting resins
- Glass fiber adhesives
- Thermoplastic resins with inorganic filler or glass reinforcement

Applications are those stated for the product. Confirm suitability for each formulation by trials.

HANDLING REQUIREMENTS

- Store sealed in a cool, well-ventilated place.
- Keep away from fire and water.

PACKAGING AND SHELF LIFE

- 25 kg drums
- 200 kg drums
- 1,000 kg IBC
- ISO tank
- Shelf life: 12 months from production date.

The information in this Technical Data Sheet is provided for technical evaluation and is believed to be accurate as of the issue date. Typical values are representative and do not constitute a warranty. Binding specifications are those stated on the lot-specific Certificate of Analysis and in the sales contract. Users should verify suitability for their own process and regulatory requirements. Refer to the Safety Data Sheet before handling. Questions: solutions@rawsource.com.