

HPNEMS-D

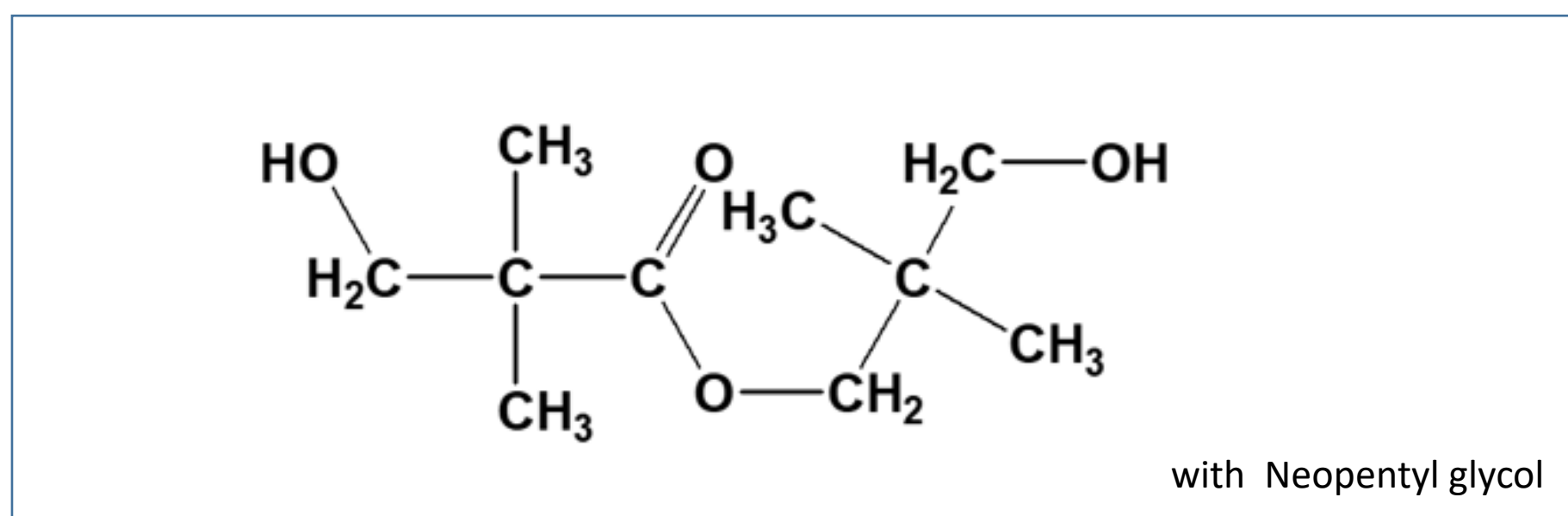
Synonym

**Hydroxypivalic acid neopentylglycolester
3-Hydroxy-2,2-dimethylpropyl 3-hydroxy-
2,2-dimethylpropionate**

General Description

HPNEMS-D contains HPNE as major component and NPG with water. Its performance provides good balance between hardness, flexibility for coatings and sealants. Especially, HPNE-S mixture provides a good solubility as well as a lower glass transition temperature and melting temperature compared to neopentyl glycol.

Chemical Formula



Classification Registry No.

CAS No : 1115-20-4 (as HPNE)
EINECS No 214-222-2 (as HPNE)

Specifications

Characteristic	Test Method	Unit	Speccification
HPNE	Gas Chromato.	wt(%)	74±4
NPG	Gas Chromato.	wt(%)	≤5
Water content	ASTM D 1364	wt(%)	10±1

Application

HPNEMS-D is used in the production of

- Saturated polyester and unsaturated polyester
- Polyurethane coating
- Automotive primer surfaces
- UV radicurable coating

Physical Characteristics

Characteristic	Unit	Base	Value
Appearance			Liquid
pH		10% in H ₂ O	6
Melting point	°C		22~30
Boiling point	°C	Initial~Terminal	102~292
Flash point	°C	as HPNE	161
Vapor pressure	Pa	30°C, as HPNE	1.3
Solubility	g/ℓ	as HPNE	270
Ignition point	°C	as HPNE	340
Molecular weight	g/mol	as HPNE	204.27
Specific gravity		25°C	1.01

Packaging

- 1000kg with polyethylene Intermediate container

Handling & Storage

- 1) Precautions for safe handling
 - Handling refer to engineering control/personal protection section.
 - Follow all MSDS/label precautions even after container is emptied because they may retain product residues.
 - Please note that materials and conditions to be avoided.
- 2) Conditions for safe storage (including any incompatibilities)
 - Store in a dry place. Store in a closed container.
 - Store containers: AVOID the place where can be damage and contamination.
 - Prevent static electricity and avoid storing near heat sources such as boilers or combustibles.