



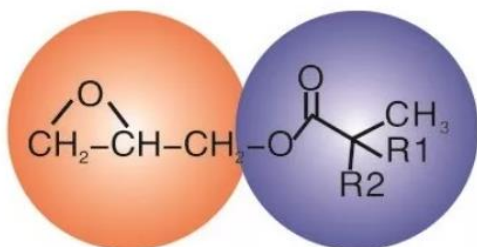
Technical Data sheet

Product Name :

Chemical Name: Glycidyl Neodecanoate

CAS No: 26761-45-5

The structural formula of Glycidyl Neodecanoate is as shown above, among which R1 and R2 are alkyl groups with eight carbon atoms. It is one of the glycidyl esters of tertiary carboxylic acid.



R1+R2 = 7 carbon atoms

R1 and R2 are alkyl groups.

Applications

The main applications:

- Synthesis of polyester resins
- Synthesis of acrylic resins
- As a reactive diluent for epoxy resins
- Modification of epoxy esters for low VOC automotive and industrial end-uses

Typical properties of resins/paints

- Good solubility in aliphatic solvents
- Low solution viscosity
- Good pigment wetting
- Good gloss and colour retention on overbake

E10P structure makes it a unique modifier for coating resins. Its epoxy group is highly reactive and it can react with hydroxyl groups, carboxyl groups and amino groups, The reactivity of the epoxy group enables it to be introduced by acrylic resins and polyester alkyd resins at room temperature without any side effects. The polyesters prepared in this way meet the design requirements of narrow molecular distribution and low viscosity. The resins modified by Glycidyl neodecanoate can significantly improve their chemical tolerance, climate tolerance and ultraviolet resistance. The multi-branched groups of Glycidyl neodecanoate can also reduce low tree viscosity, improve pigment wetting and plasticization. It will produce a hydroxyl group that can be used for cross-linking, which can improve the strength of the resin. It can be used to prepare high-solid paint and reduce the VOC pf paint because it can participate in the paint reaction in the form of reactive diluent.



Glycidyl Neodecanoate quality standard

Test Parameters	Value	Unit	Test Method
Appearance	Clear liquid, free from suspended matter		Visual
Color	35 max	Pt- Co	ASTMD 1209
Epoxy Group Content	4100-4250	Mmol/kg	SMS 2026
Water Content	0.1 max	%m/m	ASTMD 4672

Typical Properties

Quality	Test Method	Unit	Value
Density	ASTM D4052	Kg/L	
Boiling point range 5%-90%(v/v) at 101.3 pa	ASDM D86	°C	251-278
Solidification point	ASTM D97	°C	below -60
Vapor pressure 20°C		Kpa	
Flash Point PMC	ASTM D93	°C	126
Solubility of water in Cardura E10p at 20°C		%m/m	0.7
Viscosity at 25°C	ASTM D445	Mpa.s	7.13

Packaging, transport, storage and handling precautions

Shandong Dadu is packed in 200 litre drums and IBC; bulk deliveries are in road tankers.

Information on the safe handling of Dadu-10 is given in the product Safety Data Sheet and the precautions advised should be strictly observed