

Product Information

Dibasic Ester DBE 5

Product Description:

Dibasic ester DBE 5 is composed of a liquid mixture of dimethyl dicarboxylic acid esters including dimethyl glutarate, dimethyl adipate and dimethyl succinate. Dibasic ester DBE 5 is non-flammable, readily biodegradable, non-corrosive and has a mild odor. Dibasic esters are suitable for dissolving polar substances such as polyurethane, polyester and acrylate resins and can be mixed with water using a variety of surfactants.

Applications:

Dibasic ester DBE 5 is used in paints, coatings, plasticizers, chemical intermediates, resins, binders, grouting, oilfield drilling fluid and adhesives. Dibasic ester DBE 5 can provide low temperature flexibility and is excellent plasticizer for PVC and other polymer systems. It used to make polyurethane coatings, flexible foams and rigid foams.

CAS No. :

95481-62-2

Specifications:

Parameters (units)	Specifications
Ester content (%)	≥ 99.0
Dimethyl glutarate (%)	55 - 75
Dimethyl adipate (%)	10 - 20
Dimethyl succinate (%)	15 - 26
Acid value (mg KOH/g)	≤ 0.50
Water content (%)	≤ 0.30
Methanol (%)	≤ 0.20
Distillation range (°C)	198 - 228
Specific gravity, at 20 °C	1.080 - 1.092
Color (APHA)	≤ 15
Surface tension, at 20 °C	Approx. 35.60
Freezing point (°C)	Approx. 24
Average molecular weight (g/mol)	Approx. 159

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Packaging:

Material is available in 220 kg drums and 1100 kg IBCs. Further packaging options may be available upon enquiry.

Storage:

Product should be stored in a dry place away from direct sunlight in sealed, original packaging.

Safety:

For further safety information refer to product SDS available from your Bisley International contact.

Disclaimer: This document is for information purpose only. Customers are responsible for testing and conforming the suitability of this product in their application. To the extent permitted by law, no warranty as to merchantability or fitness of purpose, expressed or implied, is made.

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