

Standard Specifications for ETHYL LACTATE (SYNTHETIC)¹



A.S.T.M. Designation: D 321 - 40

ADOPTED, 1933; REVISED, 1940.²

This Standard of the American Society for Testing Materials is issued under the fixed designation D 321; the final number indicates the year of original adoption as standard or, in the case of revision, the year of last revision.

Scope

1. These specifications cover ethyl lactate (synthetic).

Properties

2. Ethyl lactate (synthetic) shall conform to the following requirements:

Specific gravity, 20/20 C.....	1.020 to 1.036
Color	water white
Distillation range:	
Below 102 C.....	none
Below 139 C.....	not more than 10 per cent
Below 155 C.....	not less than 90 per cent
Above 173 C.....	none
Nonvolatile matter.....	not more than 0.005 g. per 100 ml.
Odor.....	mild, nonresidual
Water.....	miscible without turbidity with 19 volumes of 60° A.P.I. gasoline at 20 C.
Acidity (free acid as lactic acid).....	not more than 0.08 per cent, equivalent to 0.5 mg. of KOH per gram of sample
Ester value.....	96 to 100 per cent by weight

Methods of Testing

3. The material shall be sampled and the properties enumerated in these specifications determined in accordance with the Standard Methods of Sampling and Testing Lacquer Solvents and Diluents (A.S.T.M. Designation: D 268) of the American Society for Testing Materials.³

¹ Under the standardization procedure of the Society, these specifications are under the jurisdiction of the A.S.T.M. Committee D-1 on Paint, Varnish, Lacquer, and Related Products.

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² Prior to adoption as standard, these specifications were published as tentative from 1930 to 1933.

³ 1939 Book of A.S.T.M. Standards, Part II, p. 794.