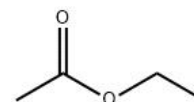


Technical Data Sheet

Ethyl acetate

Compound Information

Product Name:	Ethyl acetate
CAS No.:	141-78-6
Molecular Formula:	C ₄ H ₈ O ₂
Molecular Weight:	88.11
Revision Date:	2026-04-16



Analytical Information

Tests	Specifications
Grade	USP-NF/Ph.Eur
Solubility	Miscible with ethanol, acetone, diethyl ether and benzene.
Identification A (By Boiling point)	76° - 78°C
Identification C (Reaction of Acetyl)	A blue color should develop at the junction of the two drops; the color intensifies and persists for a short time.
Identification D (Reaction of esters)	A bluish-red or red color should produce.
Purity	98.0% - 102.0%
Chromatographic purity (Acetaldehyde)	NMT 0.1%
Chromatographic purity (1-Ethoxy-2-methylpropane)	NMT 0.1%
Chromatographic purity (Methyl compounds)	NMT 0.1%
Chromatographic purity (Other impurities)	NMT 0.3%
Acidity 1	The solution should remain pink for not less than 15 s.
Acidity 2	NMT 0.10 mL of 0.10 N sodium hydroxide should require
Specific gravity (25°C)	0.894-0.898
Relative density (20°C)	0.898 - 0.902
Refractive index (20°C ± 0.5°C)	1.370 - 1.373
Reaction with sulphuric acid	The interface between the 2 liquids should not be colored.
Readily carbonizable substances	No dark zone should develop within 15 min.
Related substances (Total impurity)	Not more than 0.2 per cent of the area of the principal peak.
Residue on evaporation	NMT 30 ppm
Limit of Non-volatile residue	NMT 0.02%
Water (By KF)	NMT 0.1%
MS	Pass test
1H NMR	Pass test
13C NMR	Pass test
IR	Pass test
Raman	Pass test

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