

Eastman manufactures ethyl acetate for a variety of markets from coatings and inks to food and pharmaceutical applications. The table compares the quality system features for all grades of Eastman ethyl acetate. This information will assist users in selecting the appropriate grade for their specific needs.

| Eastman ethyl acetate grade comparison                               |  |  |   |  |
|--|--|--|---|--|
| Grade  | Urethane grade   | Spectro grade  | Food grade  | NF/EP grade  |
| Intended markets   | Industrial solvent, automotive coatings, lacquers, & inks                                | Coatings, lacquers, linoleum, photographic film, printing inks, reagent grade solvent, & electronic solvents | Food additives, flavorings, fragrances, & cosmetics   | Pharmaceutical excipient, API manufacturing, & cosmetics                   |
| Manufacturing location   | Longview, TX<br>Kingsport, TN<br>Trenton, MI<br>Springfield, MA<br>Other NAFTA producers | Longview, TX   | Longview, TX  | Longview, TX   |
| Purity   | 99.70 wt%  | 99.90 wt%  | 99.85 wt%   | 99.85 wt%  |
| ISO certified  | Yes  | Yes  | Yes   | Yes  |
| Kosher grade avail. (incl. Passover)                                 | No   | No   | Yes   | Yes  |
| Produced under cGMP  | No   | No   | Yes   | Yes  |
| Validated process  | No   | No   | Yes   | Yes  |
| Batch storage  | Continuous blending in storage tank  | Continuous blending in storage tank  | Discrete batch, quarantined until testing is complete | Discrete batch, quarantined until testing and QA batch review are complete |
| Filtered at loadout  | No   | No   | Yes   | Yes  |
| Production batch record review                                       | No   | No   | No  | Yes  |
| Shipment batch record review   | No   | No   | No  | Yes  |
| Validated test methods   | Some   | Some   | Yes   | Yes  |
| Second analyst review  | No   | No   | No  | Yes  |
| Residual solvents testing  | No   | No   | No  | Yes  |
| Sample retention   | 90 days  | 90 days  | 5 years   | 5 years  |
| Shipping containers available  | Railcar, truck, isotainer  | Truck, isotainer   | Truck, isotainer                                      | Truck, isotainer   |
| Shipping container selected based on prior contents                  | No   | Yes  | Yes   | Yes  |
| Previous load verified not to be toxic/poisons or FDA food allergens | No   | No   | Yes   | Yes  |
| Water source used for container cleaning                             | Nonpotable water & steam   | Potable water & steam  | Potable water & steam                                 | Potable water & steam  |
| Meets food-grade cleaning requirements                               | No   | Yes  | Yes   | Yes  |
| Cleaning certificate provided  | No   | Yes  | Yes   | Yes  |
| Stability monitoring program   | No   | No   | Yes   | Yes  |
| Impurity profiling   | No   | No   | Yes   | Yes  |
| Annual product reviews   | No   | No   | No  | Yes  |
| Mock recalls   | No   | No   | Yes   | Yes  |
| Record retention   | 2 years  | 2 years  | 5 years   | 5 years  |

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