

Lithium Ricinoleate

Transesterification catalyst

product information

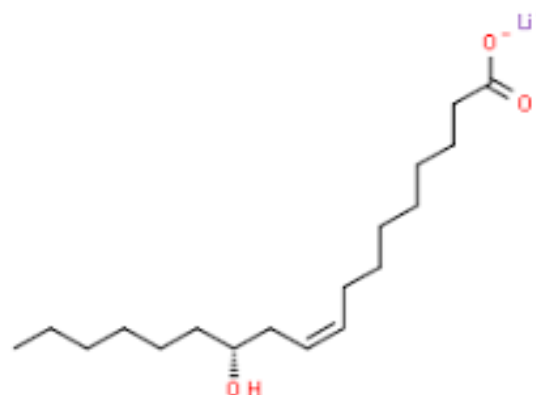
Lithium Ricinoleate is recommended as an alcoholysis or transesterification catalyst for alkyd resin manufacture. It is particularly effective for the manufacture of dehydrated castor oil alkyds. Lithium Ricinoleate is also useful for difficult esterifications to improve yields.

application background

- Alkyd resin preparation
- Dehydrated castor oil alkyds
- Clearer, brighter alkyds
- Permanently haze-free alkyds

performance benefits

- Lithium Ricinoleate speeds up the alcoholysis step considerably
- produces lighter-color monoglycerides
- eliminates precipitates (insoluble soap formation) and colloidal formations associated with lime and litharge catalysts
- much less sensitive than lime or litharge to poisoning by residual phthalic anhydride.



typical characteristics

Appearance	White to off-white paste
Molecular Weight	302
Lithium Ricinoleate (%)	50
Acid Value	0.2
% Ash	2.3
Volatile Matter (%)	50
Free Alkali (%)	0.1 maximum
Specific Gravity, 25°C/25°C	1.00

product use level

Effective with oils and conventional polyols, Lithium Ricinoleate 50% should be used at a level of 0.6 – 1.4 % based on the oil content. Reaction time will vary inversely with the concentration used. The higher concentration is recommended when residual phthalates may be present in the kettle. In most cases, however, a level of about 0.9% catalyzes alcoholysis in a matter of minutes at 450 – 480°F to produce light-color, precipitate-free alcoholysates. The finished resins will be clear and bright and their films permanently haze-free.

Consult the Safety Data Sheet for hazard and regulatory information

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technical data sheet