



Chemistry for Safer, Sustainable Life

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Ethyl propionate Data Sheet

Catalog sizes	100g , Listed as 100g Ethyl propionate, ETPRO00100 500g , Listed as 500g Ethyl propionate, ETPRO00500 1kg , Listed as 1kg Ethyl propionate, ETPRO01000
Category	Esters
Product specification	Colorless liquid <ul style="list-style-type: none">• Product ID: ETPRO• Purity: 98%+• CAS: 105-37-3• Formula: C₅H₁₀O₂• MW: 102.13g/mol• Density: 0.86-0.90g/ml• BP: 96-102C• Flash point: 10-14C
Product description	<p>Ethyl propionate is a sweet, rum-smelling ester of propionic acid and ethanol. It is less volatile and safer option for chlorinated solvents, toluene, benzene, MTBE, hexane, or even ethyl acetate. A study by Zakko and co-workers established that ethyl propionate is less toxic and more user-friendly than MTBE (Zakko, S. F., Gastroenterology, 1997, 113: 232-237). In biofuel applications, ethyl propionate is mentioned as the reference short chain fatty acid ester used as a first generation biodiesel (Andersen, V. F., J. Phys. Chem A. 2012, 116, 21, 5164-5179)</p> <p>In air care applications, the rum scent of ethyl propionate is irresistible resulting its use as a pineapple, rum-like odorant.</p> <p>Other mainstream applications include</p> <ul style="list-style-type: none">• fuel additive• cleaning solutions additive• Cosmetic additive• nickel electroplating additive• specialty reagent in plastic, rubber, dyes, and medicinal drug manufacturing• specialty solvent