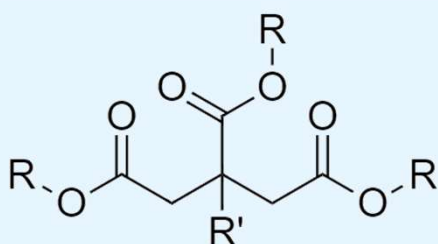


# Citroflex™ Citric Acid Esters

## Versatile. Renewable. Biodegradable.

Citroflex citric acid esters are suitable for use as phthalate-free alternatives to plasticizers such as low molecular weight adipates, phthalates, and sebacates in various polymer applications.



These esters are partially derived from **bio-based raw materials** and have been demonstrated to be biodegraded by microorganisms in soil.

They are ideal for use in **bio-polymer systems** and applications where high bio-sourced content or end-of-life **biodegradability** are desirable.

Citroflex esters are **not volatile organic compounds (VOCs)**.

	R	R'	Bio-Based Content <sup>1</sup>	Biodegradability <sup>2</sup>
<b>Citroflex 2 BIO</b>	Ethyl	Hydroxyl	100%	
<b>Citroflex 2</b>	Ethyl	Hydroxyl	51%	
<b>Citroflex 4</b>	n-Butyl	Hydroxyl	39%	
<b>Citroflex A2 BIO</b>	Ethyl	Acetyl	86%	
<b>Citroflex A2</b>	Ethyl	Acetyl	44%	
<b>Citroflex A4</b>	n-Butyl	Acetyl	34%	
<b>Citroflex A6</b>	n-Hexyl	Acetyl	28%	
<b>Citroflex B6</b>	n-Hexyl	Butyl	27%	

<sup>1</sup> Calculated on a molecular weight basis, from the portion of the product molecule attributed to bio-based raw materials. Bio-based raw materials are derived from plant starch sources, which may include corn.

<sup>2</sup> Determination based on available data: Rapidly biodegraded Exhibits inherent, primary degradation

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