



BEAUTY AND PERSONAL CARE

The Facts

About Formulating with
ULTRA PC™ Amino Alcohols


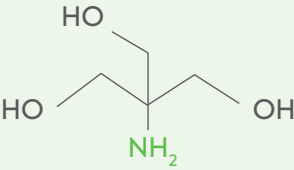
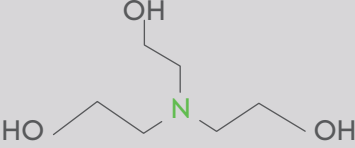
Essential inputs. Extraordinary outcomes.™

A collection of clear plastic bottles and jars, some containing white cream or liquid, arranged on a blue background. The products include a large spray bottle, a smaller bottle, and two jars, one of which is open, showing a white cream. The background is a gradient of blue with some abstract white lines.

Formulating Facts

High-purity ULTRA PC™-grade amino alcohols from Advancion are used in a variety of personal care and color cosmetics applications to neutralize acidic functional groups and buffer the desired pH of formulated systems. In addition to their efficiency and effectiveness for neutralization and pH control, ULTRA PC-grade amino alcohols typically provide additional, multifunctional benefits to personal care and color cosmetics products, including:

- Enhanced product rheology, application and feel
- Improved emulsion properties
- Improved formulation stability
- Superior pigment dispersion and stabilization
- Non-yellowing in formulations
- Reduced CMC in cleansing formulations
- Superior odor control
- Enables clean beauty formulations

Advancion Chemistries		Commodity Chemistry
AMP-ULTRA™ PC	TRIS AMINO™ ULTRA PC	TEA
		
INCI: Aminomethyl Propanol	INCI: Tromethamine	INCI: Triethanolamine
MW: 89.14 g/mol	MW: 121.14 g/mol	MW: 149.19 g/mol
CAS: 124-68-5	CAS: 77-86-1	CAS: 102-71-6
CE / EINECS: 204-709-8	CE / EINECS: 201-064-4	CE / EINECS: 203-049-8
Synonyms: AMP™, AMP-95™	Synonyms: TRIS AMINO™, Tris, Trometamol, THAM, TRIZMA®, Tris(hydroxymethyl)aminomethane	Synonyms: TEA, Trolamine, 2-[bis(2-hydroxyethyl)amino] ethan-1-ol, Tris(2-hydroxyethyl)amine, Trihydroxytriethylamine

Product Features

Advancion Ingredient

AMP-ULTRA™ PC

- Primary amine
- Oxidatively stable
- Low odor
- Effective neutralization
- Excellent compatibility in hydroalcoholic systems
- pKa = 9.88
- EWG = 3

Advancion Ingredient

TRIS AMINO™ ULTRA PC

- Primary amine
- Oxidatively stable
- Odorless
- Effective neutralization
- Exceptional buffering capacity
- pKa = 8.1
- EWG = 1-2 (depending on usage)

Commodity Ingredient

TRIETHANOLAMINE (TEA)

- Tertiary amine
- Low oxidative stability
- Potential to contain secondary amines
- Less effective neutralization
- Limited hydroalcoholic compatibility
- pKa = 7.7
- EWG = 5

ULTRA PC-grade amino alcohols are the preferred neutralizing agents in personal care and color cosmetics applications where global compliance, proven safety and effectiveness differentiates them from commodity neutralizing agents. Advancion amino alcohols also contribute to improved formulation properties and consumer-preferred product aesthetics.



Hair Styling

Contributes to excellent high-humidity curl retention; improved film formation, superior hold and excellent on-hair feel



Hand Sanitizer

Better clarity and viscosity; rapid, more efficient neutralization; enables stable formulations with up to 80% ethanol or 70% isopropanol



Skin Care

Improved emulsion appearance; enhanced emulsion and gel stability; superior rheological properties; enables cold-process emulsions



Personal Cleansing

Enables formulation of mild, gentle and high performance fatty acid-based cleansers at skin-friendly pH



Color Cosmetics

Improved particle size dispersion in emulsions, leading to superior application properties and improved product stability

Advancion Amino Alcohols Are:



NON-GMO



GLUTEN FREE



**NO ADDED
PRESERVATIVES**



**FRAGRANCE
FREE**



PARABEN FREE



**PHTHALATE AND
BPA FREE**



VEGAN



SULFATE FREE

Ideally suited for the development of the finest, high-performance personal care and color cosmetics formulations, ULTRA PC™ amino alcohols:

- Provide performance that caters to today's personal care trends and consumer expectations
- Enable the aesthetic properties and product performance desired by consumers
- Contribute to excellent long-term stability
- Add multifunctional benefits to many types of personal care product forms
- Give formulators the confidence that they are using ingredients from a trusted and secure supplier of globally compliant raw materials
- Enable clean beauty formulations with a superior environmental, health and safety profile than alternative ingredients

Product Stewardship

Through our investments in application and new product development, we have a deep understanding of where our chemistries are (and can potentially be) used to actively address global trends in Life Sciences, Beauty and Personal Care, and other essential industries to help make our lives healthier, and more sustainable and comfortable. To help ensure that Advancion products are not used in ways for which they are not intended, Advancion personnel will assist customers in dealing with environmental and product safety considerations. Before handling any of the products, obtain available product safety information including the Safety Data Sheet(s) and take the necessary steps to ensure safety of use. For assistance, product Safety Data Sheets, or other information, please visit advancionsciences.com or contact us at info@advancionsciences.com.

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