

Technical Data Sheet

Eastman™ TBAA

Chemical Synonym

T-Butyl-Acetoacetate

Applications

- Adhesives/sealants-b&c
- Architectural coatings
- Intermediates
- Kitchen & bath
- Paints & coatings
- Pharmaceutical chemicals

Key Attributes

- Improved adhesion to metal substrates
- Low glass transition temperature for improved coating flexibility
- Reaction with conventional crosslinkers
- Resin viscosity reduction for lower VOC emissions
- Room temperature cure, isocyanate-free crosslinking

Product Description



IUPAC: 1,1-dimethylethyl-3-oxobutanoate

Eastman™ TBAA is a reagent used to acetoacetylate hydroxyl-bearing coatings resins, such as polyesters, acrylics, cellulose, and epoxies. It has also found use as an acetoacetylating reagent in pharmaceutical, agrichemical, and pigment applications. Eastman™ TBAA acetoacetylates alcohols and amines in high yields.

Additional Eastman™ Acetoacetate Products:

- AAEM (Acetoacetoxyethyl Methacrylate)
- MAA (Methyl Acetoacetate)
- EAA (Ethyl Acetoacetate)
- AAA (Acetoacetanilide)
- DMAA (N,N-Dimethylacetoacetamide)
- BKB (Acetoacetamide)

Typical Properties

Property	Test Method	Typical Value, Units
General		
Molecular Weight		158.20
Empirical Formula		C ₈ H ₁₄ O ₃
Form		Liquid
Assay		98.8 wt %
Color		
Pt-Co Scale		10
Viscosity	ASTM D 446	2.23 cP (mPa·s)
Specific Gravity		
@ 20°C/20°C		0.954
Wt/Vol		0.95 kg/L (7.93 lb/gal)
Solubility		
in Water, @ 20°C		Slight
in Xylene, @ 20°C		Soluble
Boiling Point ^a		190 °C (374 °F)

Vapor Pressure @ 25°C	57 Pa
Flash Point Tag Closed Cup	66 °C (151 °F)
Chemical Inventory Listings	TSCA, EINECS, MITI

^aExtrapolated under vacuum.

Comments

Note: t-BAA must be stored in a cool, dry place at temperatures below 50°C (122°F).

Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

Eastman and its marketing affiliates shall not be responsible for the use of this information, or of any product, method, or apparatus mentioned, and you must make your own determination of its suitability and completeness for your own use, for the protection of the environment, and for the health and safety of your employees and purchasers of your products. No warranty is made of the merchantability of fitness of any product, and nothing herein waives any of the Seller's conditions of sale.

4/4/2018 4:55:24 PM