

# Technical Data Sheet

## EPIKURE™ Curing Agent 3200 3223 3234 3245

### Product Description

EPIKURE™ Curing Agents 3200, 3223, 3234, and 3245 are unmodified aliphatic amines. They are used in a variety of applications including epoxy curing agents. Due to their tendency to form complexes with atmospheric carbon dioxide, particularly in humid conditions, they are most often formulated, adducted or otherwise reacted to inhibit amine blush.

### Application Areas/Suggested Uses

- Epoxy curing agents
- Polyamides for inks and adhesives
- Wet strength resins
- Corrosion inhibitors
- Oil and fuel additives
- Chelating agents

### Benefits

- As members of the ethylene amine family, they lend themselves to a wide variety of chemical reactions and enduse applications.

### Sales Specifications

		3200 AEP	3223 DETA	3234 TETA	3245 TEPA	
Property	Units	Value	Value	Value	Value	Test Method/Standard
Amine value	mg/g	1,275 – 1,325	1,600 – 1,625	1,410 – 1,460	1,290 – 1,375	ASTM D2896
Color	Pt-Co	200 max.	30 max.	50 max.		ASTM D1209
Color	Gardner				2 max.	ASTM D1544
Water	% wt.	0.5 max.	0.5 max.	0.5 max.	0.5 max.	ASTM E1064
Purity	% wt.	98.0	98.5	96.0	95.0	

### Typical Properties

		3200 AEP	3223 DETA	3234 TETA	3245 TEPA	
Property	Units	Value	Value	Value	Value	Test Method/Standard
Viscosity at 20 °C	cP	20	10	25	100	
Equivalent weight, approx.		43	20.7	24.5	27.2	
Density @ 20 °C	g/ml	0.98	0.95	0.98	0.99	
Boiling Point, 760 mm Hg	°C	222	207	227	Decomp.	
Flash Point	°C	215	210	275	280	ASTM D56

EPIKURE Curing Agent 3200 3223 3234 3245

<https://www.hexion.com/en-US/product/epikure-curing-agent-3200-3223-3234-3245>

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Product Code	Unit	210	210	210	200	AS111000
Mix Ratio, EEW 190 epoxy	phr	22.7	10.9	12.9	14.3	

## Safety, Storage & Handling

Please refer to the MSDS for the most current Safety and Handling information.

Please refer to the Hexion web site for Shelf Life and recommended Storage information.

To preserve product quality and prevent discoloration, it is recommended that a nitrogen blanket be maintained on the headspace of an opened container and that storage / handling temperatures in excess of 50°C (122°F) be avoided. Spillage around the opening of the container from dispensing operations will form a crystalline residue. This residue is not soluble in the curing agent nor the resin, and certain measures should be taken to prevent it from contaminating the remaining contents of the container. The crystalline residue should be removed with a warm damp wash cloth PRIOR to re-opening the container for dispensing.

EPIKURE 3200, 3223, 3234, and 3245 Curing Agents should be kept in tightly closed containers in a cool, dry place. They will absorb moisture and carbon dioxide which will react. Avoid contamination with galvanized iron, copper, and its alloys.

Exposure to these materials should be minimized and avoided, if feasible, through the observance of proper precautions, use of appropriate engineering controls and proper personal protective clothing and equipment, and adherence to proper handling procedures. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheet (MSDS) for these and all other products being used are understood by all persons who will work with them. Questions and requests for information on Hexion Inc. ("Hexion") products should be directed to your Hexion sales representative, or the nearest Hexion sales office. Information and MSDSs on non-Hexion products should be obtained from the respective manufacturer.

## Packaging

Available in bulk and drum quantities.

## Contact Information

For product prices, availability, or order placement, please contact customer service:

[www.hexion.com/Contacts/](http://www.hexion.com/Contacts/)

For literature and technical assistance, visit our website at: [www.hexion.com](http://www.hexion.com)