CYTEC

Technical Information Sheet

Melamine

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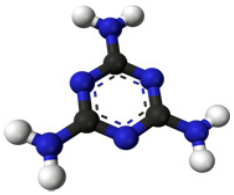
Introduction

CAS No.: 108-78-1
EINEC No.: 203-615-4

Formula: $C_3H_6N_6$
Molecular Weight: 126.13

Synonyms: 2,4,6-triamino-s-triazine
Melting Point: Approx 354C (with sublimation)



The uniqueness of melamine lies in the availability of its three reactive amino groups, symmetrically positioned on an extremely stable triazine ring. Controlled methylolation of these amine groups is the first step in the preparation of resinous products and crosslinking agents. Melamine is used in the production of coatings, laminates, adhesives, fire prevention agents, flame retardant for foams, and plywood.

Properties

Aspect	Specification	Units	Test-Method
Appearance	Fine, white, crystalline powder		ML074
Melamine	>99.8	%	ML031
Ash	<0.01	%	ML020
Moisture	<0.1	%	ML017
Color	<15	APHA	ML014

The above properties are certified by COA

Aspect	Typical Value	Units	Test-Method
Iron	<1, non-detected	ppm	ML020
Silicon	<1, non-detected	ppm	ML048
Bulk Density	50-55	Lb/CF	ML024
Solubility in Water	@20C 3.4 @100C 47.8	g/l g/l	
pH, 10% slurry	7.5-9.5	pH	ML018

Handling and Safety

Packaging: Delivery in bulk (either by hopper car, hopper truck or bulk sea container)
Multi-ply paper bags of 25 kg
Big bags containing from 500 to 1,500kg

Storage: Melamine is to be stored in dry areas. Properly stored, shelf life in excess of one year.

Transport classification: Not regulated.

Tariff-No.: 2933 6100

Safety recommendations: Melamine is non-flammable. Heating at temperatures above 300C could result in decomposition with release of toxic vapors. Use a face mask when dust is formed. Otherwise, no specific protective measures are necessary, other than normal good hygiene practices. Please refer to our Material Safety Data Sheet for additional information.