

Technical Data Sheet

Benzylidimethylamine

Chemical Synonym

N,N-Dimethylbenzylamine; BDMA

Product Description

Benzylidimethylamine (BDMA) is a clear, light yellow liquid with an amine-like odor.

Principal applications for Benzylidimethylamine (BDMA) include:

- Catalyst used in the production of polyurethane foams
- Initiator in the production of epoxy resins
- Accelerator for epoxy resins in laminates for electrical equipment
- Sensitizer for the photopolymerisation of methacrylates
- Catalyst for the UV-curing of styrene polyester products
- Thermal post-cure catalyst for UV-cured epoxy adhesive cements
- Catalyst for the polymerisation of glycolic acid lactide
- Synthesis of quats
- Intermediate in the synthesis of agrochemicals, pharmaceuticals and dyes

Typical Properties

Property	Typical Value, Units
General	
Molecular Formula	$C_6H_5CH_2N(CH_3)_2$
Molecular Weight	135.21 g/mol
Appearance	Light yellow liquid
Autoignition Temperature	250 °C
Boiling Point (1013 hPa)	180 °C
Density @ 20°C	0.9 g/cm ³
Dissociation constant, pKa @ 25°C	8.91
Flash Point	57 °C
Freezing Point	-75 °C
Octanol-water partition coefficient, log Pow	1.98
Surface Tension	61.47 mN/m
Vapor Density	4.66 g/cm ³
Vapor Pressure @ 20°C	8 hPa
@ 50°C	21 hPa
Volatile By Vol	100 %
Water solubility @ 20°C	12 g/L

Physical & chemical behavior

Reactivity

Stable under ordinary conditions of use and storage.

Ammonia, hydrogen cyanide and oxides of carbon and nitrogen may be produced when heated to decomposition.

This product is incompatible with acidic materials such as nitric acid, sulphuric acid, hydrochloric acid, etc., leading to an exothermic reaction. Violent reactions can occur with strong oxidizing agents.

Never expose this liquid or its vapours to heat, flame, or ignition sources. Avoid contact with any acids or strong oxidizing agents.

Packaging

- Bulk
- Metal drums (180 kg net)

Storage

Keep container tightly closed.

Store in a cool, dry, well-ventilated, flammable liquid storage area or cabinet.

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