

KONNATE o-TDA

ortho-Toluene diamine



TECHNICAL DATA SHEET

DESCRIPTION

Ortho-toluenediamine (o-TDA) is a high purity aromatic diamine. o-TDA is light gray-to-purple in color. It will tend to darken on storage or will darken immediately if exposed to air. It also exhibits a slight ammonia-like odor. The product is a solid at ambient temperatures and is generally transported in a molten state or in drums as a cast solid.

PRODUCT SPECIFICATION

Items	Value
Purity (%)	Min. 99.0
m-TDA + Toluidines (%)	Max. 1.0
Water (%)	Max. 0.5

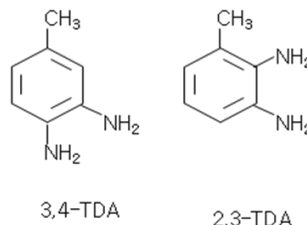
APPLICATIONS

Mixed isomers of o-TDA are used as intermediates in the manufacture of polyols, antioxidants, corrosion inhibitors, rubber chemicals and dyes. In addition, in many applications o-TDA is an acceptable alternative to the higher priced ortho-phenylenediamine. These applications include epoxy resin curing, polymer initiating, crosslinking, and chain extending and capping.

SAFETY AND HANDLING

o-TDA contains small quantities of meta-toluenediamine(TDA), a toxic material that can be rapidly absorbed through the skin and has been shown to cause cancer in laboratory animals. Chemicals similar in structure to o-TDA have also been found to cause liver toxicity and disorders of the thyroid and blood in laboratory animals. Therefore, o-TDA should be handled as a hazardous chemical. We recommend that users restrict its availability to those persons qualified and equipped

MOLECULAR STRUCTURE



PHYSICAL PROPERTIES

Molecular Weight	122.17
Specific Heat, (cal/g/°C, at 150°C)	0.604
Viscosity (at 100°C cps)	5
Boiling Point (°C @ 760mmHg)	250~270
Flash Point (°C) Open Cup	Greater than 110
Melting Point (°C)	59 ~ 92
Vapor Pressure (mmHg at 100°C)	2
Density (g/mL, at 100°C)	1.045

to handle it properly. All persons involved in handling o-TDA should wear proper personal protective equipment specifically designed to avoid skin contact, including, but not limited to, impervious gloves and boots.

SHIPPING INFORMATION

20,000 liter ISO tanks.

REACTIVITY

o-TDA is stable and does not undergo spontaneous polymerization. It undergoes oxidation rapidly when exposed to air. O-TDA is weakly basic and reacts with mineral acids to form water-soluble amine salts. These salts are more stable to oxidation than the basic amine. Normal unloading temperatures for o-TDA are 88~93°C (190~200°F).

Please refer to the Material safety Data Sheet (MSDS) for more specific information.

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===== FOR MORE INFORMATION CONTACT =====

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