

METHYLENE DIPHENYL DIISOCYANATE (MDI)



CAS Number: 101-68-8

Other Names: 1,1'-Methylenebis(4-isocyanatobenzene);
4,4'-Methylene diphenyl diisocyanate ;
4,4'-Diphenylmethane diisocyanate

Formula: $C_{15}H_{10}N_2O_2$

PRODUCT INTRODUCTION

Methylene diphenyl diisocyanate (MDI) is an aromatic diisocyanate with chemical formula $C_{15}H_{10}N_2O_2$. It appears as a light yellow colored solid. It is insoluble in water but soluble in acetone, benzene and kerosene. It is mainly used in production of polyurethane.

PHYSICAL AND CHEMICAL PROPERTIES

NCO Content	31.28 wt%
Viscosity	166 cps/25°C
Acid Content	0.0091 wt%
Specific Gravity (25°C)	1.233

APPLICATIONS

- MDI is used in two-component polyurethane coating systems which are used for aircraft, tank trucks and truck trailers due to durability and toughness.
 - Other uses are in production of thermoplastic polyurethane resins, millable gums and spandex fibers.
 - MDI are used in surface coatings (e.g. for chutes used in mining and agriculture), in the shoe industry for shoe soles, in the automobile industry for shock absorbers, and in a wide variety of other industries.
 - MDI occurs in foundries in binders for casting forms, and in orthopedic surgery in casts for broken bones.
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PACKING OPTIONS

Drums

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