

MDI Physical/Chemical Properties

	2,4'-MDI	4,4'-MDI	PMDI
Molecular formula	C ₁₅ H ₁₀ N ₂ O ₂	C ₁₅ H ₁₀ N ₂ O ₂	NA*
Molecular Weight	250.26	250.26	NA*
CAS Registry Number	5873-54-1	101-68-8	9016-87-9
Melting Point/Freezing Point °C	34-38	39-43	5
Boiling Point °C (Atmospheric Pressure)	-----	>300 364 (DSC)**	>300 >358 (DSC)**
Absolute Density g/cm ³	-----	1.182 @ 50 °C	-----
Relative Density	-----	1.325 @ 20 °C	1.238 @20 °C
Flashpoint °C	-----	211	208
Autoflammability °C	-----	>601	>600
Explosivity	Not Explosive	Not Explosive	Not Explosive

* Polymeric MDI (PMDI) is a mixture of monomeric MDI and MDI homopolymers (two or more MDI molecules linked in a chain).

**Differential Scanning Calorimetry

Source: M.A.L. Kelly, S.M. Otterside, D. Pemberton, *Physical Properties of MDI and TDI: A Review*, International Isocyanate Institute, Inc., III Report Reference Number 11272, , June 1997.