

THIOUREA

Chemical Name: Thiourea

Molecular Formula: CH₄N₂S

Dangerous Classification: 9

Molecular Weight: 76.12

Packaging Group: III

PHYSICAL AND CHEMICAL PROPERTIES :

Density	1.3±0.1 g/cm ³
Boiling Point	186.8±23.0 °C at 760 mmHg
Melting Point	172 °C
Flash Point	66.8±22.6 °C
Stability	Stable. Incompatible with strong acids, strong bases, strong oxidizing agents, metallic salts, proteins, hydrocarbons. May react violently with acrolein.
Water Solubility	13.6 g/100 mL (20 °C)

Specifications:

Items	Unit	Specifications	Typical Value
Appearance		White crystalline	White crystalline
Purity	% (wt%)	≥99	99.08
N	% (wt%)	≥35	36.4
S	% (wt%)	≥40	41.6
Loss on heating	% (wt%)	≤0.4	0.3
Water-insoluble	% (wt%)	≤0.02	0.02
Ash	% (wt%)	≤0.1	0.07
Melting point	°C	≥171	172
Thiocyanate	% (wt%)	≤0.02	0.01