



Specialized in chemicals

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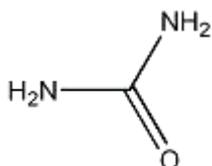
Technical Data Sheet

Urea AdBlue or DEF 46%

Product Information

Chemical Name	Urea AdBlue or DEF
CAS #	57-13-6
Formula	(CO(NH ₂) ₂)
Molecular Weight	60.05
Synonyms	Urea Automotive Grade;Carbamide, Carbamidic Acid

Structural formula:



Physical Properties

Appearance: White crystalline powder
Molecular Weight: 60.05
Density: 1.335
Boiling Point: 196.6 °C at 760mmHg
Melting Point: 131-135°C
Flash Point: 72.7°C
Storage Temperature: 2-8°C
Refractive index: n₂₀/D 1.40
Solubility: 1080 g/L (20°C) in water
Stability: Substances to be avoided include strong oxidizing agents. Protect from moisture.

Specification

Urea		
Items	Standard	Result
Assay,%	99 min	99.8
Water,%	≤0.5	0.17
Alkali,(NH ₃), %,m/m	≤0.3	0.0068
Biruet,%,m/m	≤0.85	0.7
Aldehyde,(HCHO),mg/kg	≤12	3.48
Insoluble,mg/kg	≤50	10
Phosphate,(PO ₄),mg/kg	≤1.5	0.31
Calcium,mg/kg	≤1.5	0.014
Iron,mg/kg	≤1.5	0.13
Copper,mg/kg	≤0.6	0.028
Zinc,mg/kg	≤0.6	0.0066
Chrome,mg/kg	≤0.6	0.26
Nickle,mg/kg	≤0.6	0.13
Alumninum,mg/kg	≤0.6	0.048
Magnesium,mg/kg	≤1.5	0.026
Sodium,mg/kg	≤1.5	0.26
Potassium,mg/kg	≤1.5	0.0001

Applications

Mainly used to make Adblue/DEF which is liquid urea used in SCR systems on diesel vehicles.

Packaging

1000kg/bag, 50kg/bag, 40kg/bag or as customer's requirement

Storage & Handling

Keep in a cool, dry, dark location in a tightly sealed container or cylinder. Keep away from incompatible materials, ignition sources and untrained individuals. Secure and label area. Protect containers/cylinders from physical damage.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

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