



AMMONIUM CARBONATE AR/ACS

PRODUCT CODE	R03153	
SYNONYMS		
C.I. NO.		
CASR NO.	10361-29-2	
ATOMIC OR MOLECULAR FORMULA	NH₄HCO₃ + NH₂CO₂NH₄	
ATOMIC OR MOLECULAR WEIGHT	157.13	NH₄HCO₃ + NH₂CO₂NH₄
PROPERTIES	Unstable in air, being converted into the bicarbonate. Strong odor of ammonia.	
PARAMETER	LIMIT	
Description	White translucent crystalline masses/ flakes /powder with a strong ammonical odour.It consists of ammonium hydrogen carbonate and ammonium carbamate in approximately in equimolecular proportions.	
Solubility	10% solution in water is clear & colourless.	
Minimum Assay (Acidimetric)	31.0% NH ₃ equivalent to 95.3% of NH ₄ HCO ₃ + NH ₂ COONH ₄	
MAXIMUM LIMIT OF IMPURITIES		
Insoluble matter	0.003%	
Non volatile matter	0.01%	
Chloride (Cl)	0.0001%	
Phosphate (PO ₄)	0.0005%	
Silicate (SiO ₂)	0.0005%	
Sulphate (SO ₄)	0.001%	
Arsenic (As)	0.00004%	
Calcium (Ca)	0.001%	
Copper (Cu)	0.00005%	
Iron (Fe)	0.0001%	
Lead (Pb)	0.0001%	
Magnesium (Mg)	0.0005%	
Sulphide (S)	0.0005%	
Note(s) : Assay (if applicable) method mentioned.		
WARNING	IMDG Code : --	
Hazard statements : May cause respiratory irritation. Causes skin irritation. Causes serious eye irritation.	UN No. :--	
Precautionary statements	IATA :--	
Prevention: Avoid breathing dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Response: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell. If eye irritation persists: Get medical advice/attention.		
Disposal: Dissolve the chemical to be disposed, in water and allow it to run to waste, diluting with large quantities of water. The quantities greater than 10g should be dissolved in water and transferred to heavy metal waste drums for collection by specialist disposal company.		
Hazard Pictogram(s) :		
GHS05 GHS07		

Replace Date 1 April 2023

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