

PT. SMART LAB INDONESIA

MANUFACTURER OF ANALYTICAL REAGENTS

F/QCL/009 Rev.02

CERTIFICATE OF ANALYSIS

Product Name : Sodium Bicarbonate AR

Mol. Formula : NaHCO₃

Mol. Weight : 84.01 g/mol

Catalog No. : A-2134

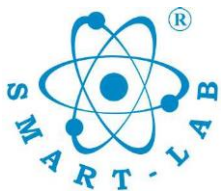
Batch No. : Sample COA

Cas No : 144-55-8

Shelf Life : 60 Months

NO.	TESTS	UNITS	SPECIFICATIONS	RESULTS
1.	Appearance	–	A soft white crystalline or powder	white crystalline powder
2.	Assay (acidimetric, dried basis)	wt %	99.7 - 100.3	100.049
3.	pH (2,5 % Solution)	pH	max 8.4	8.173
4.	Insoluble Matter	wt %	max 0.015	0.0032
5.	Chloride (Cl)	wt %	max 0.003	0.0014
6.	Phosphate (PO ₄)	wt %	max 0.005	0.0037
7.	Sulfur compounds (as SO ₄)	wt %	max 0.003	< 0.003
8.	Ammonium (NH ₄)	wt %	max 0.0005	< 0.0005
9.	Heavy Metals (as Pb)	wt %	max 0.0005	0.000004
10.	Iron (Fe)	wt %	max 0.001	0.0000015
11.	Potassium (K)	wt %	max 0.005	0.0000058
12.	Copper (Cu)	wt %	max 0.0005	0.0000155
13.	Nitrogen Compounds (N)	wt %	max 0.001	< 0.001
14.	Silicate (SiO ₂)	wt %	max 0.005	0.0022
15.	Sulphate (SO ₄)	wt %	max 0.003	0.00018
16.	Calcium (Ca)	wt %	max 0.005	0.0000227
17.	Magnesium (Mg)	wt %	max 0.005	0.000000767
18.	Substance reducing Iodine (I)	wt %	max 0.0065	0.0045
19.	Loss on drying	wt %	max 0.2	0.192

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008



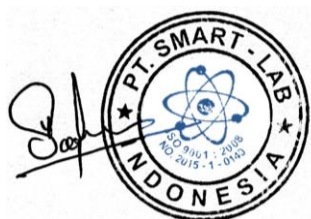
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Result: The above product corresponds to AR Grade

Reference or standard of product specification to Analar standard and ACS specification



Yuvraj Sagvekar
Manager QC

COA SAMPLE