

Certificate of Analysis

Product: 2-Hydroxyethyl Acrylate

No.	Index Items	Standard Value	Test Results
1	Appearance	Colorless to light yellow Transparent liquid without Mechanical impurities	Same
2	Monoester, w%, \geq	93.0	93.28
3	Purity, w%, \geq	98.0	98.80
4	Colour Hazen , \leq	25	15
5	Water Content \leq	0.20	0.08
6	Acidity (as acrylic acid)	0.20	0.03
7	(MEHQ), mg/kg	250 \pm 50	261



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Product: Acrylic Acid

No.	Index Items	Standard Value	Test Results
1	Appearance	Transparent Liquid	Transparent Liquid
2	Purity %	≥99.5	99.71
3	Color (Pt-Co)	≤15	8
4	Water Content %	≤0.1	0.061
5	Acetic Acid %	≤0.1	0.058
6	MEHQ ppm	200±20	203.4



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Product: Crude Naphthalene-(UAE)

No.	Index Items	Standard Value	Test Results
1	Appearance	Greyish Pink / Solid In Flakes Form	Ok
2	Crystallization Temperature	BS5962	78.75
3	Purity	GC	97.00
4	Moister	ASTM D95	0.02
5	Nonvolatile Matter	BS5962	0.002
6	Total Sulphur	BS5962	0.03
7	Ash Content	-	0.02
8	Thio Naphthalene	GC	1.8
9	Methyl Naphthalene	GC	0.04



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Product: High Purity Naphthalene (Indonesia)

No.	Test Items	Unit	Test Method	Specification	Test Result
1	Type / Colour	-	Visual	White	White
2	Freezing Point	°C	Test Tube (KS M1708)	79.50 min	79.5
3	Purity By GC	%	DSI/WI-006/23	99.00 min	99.0



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Product: Lactose Edible Grade (200 MESH)

No.	PARAMETER	UNIT OF MEASURE	METHOD	RESULTS
1	Protein	%	Kjeidahi	<0.3
2	Lactose Monohydrate	%	By difference	>99.3
3	Free Moisture	%	Gravimetric	<5
4	Ash	%	600°C/5hrs	0.175
5	pH		5%TS	6.35
6	Sediment	/50g	Niro Atomiser	A
7	Foreign Matter	/50g	Niro Atomiser	Not detected
8	Aerobic Plate Count	Cfu/g	IDF 1008	<10
9	Coliforms	/g	IDF170A/LST-MUG	Negative
10	E.Coli	/g	IDF170A/LST-MUG	Negative
11	Salmonella	/750g	Detection FOA	Negative
12	Yeast Count	Cfu/g	IDF-948	<10
13	Mould Count	Cfu/g	IDF-948	<10
14	Coag Pos Staph	/g	Detection IDFGDC	Negative
15	Enterobacteriaceae	Cfu/g	USP	Negative
16	Listeria Monocytogenes	/25g	Detection FDA	Negative
17	Sulfite Reducing clostridia	/g	S112 886/g	<10



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Product: Lignosulphonates Sodium Technical Powder (Vyborg)

No.	Index Items	Test Results
1	Appearance	Powder
2	Color	From Light Brown To Dark Brown
3	Mass fraction of dry substances%	96.0%
4	Mass fraction of basic substances, %	70.7%
5	PH Value	5.0%
6	Ash content, relating to mass of dry substances, %	18.9%
7	Mass fraction of reducing substances	7.5%



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Product: Polycarboxylate Ether – PCE-50% Korea

No.	Index Items	Standard Value	Test Results
1	Appearance	Golden Yellow to Redish Brown	Matching
2	PH Value	5.6 – 6.0	5.60
3	Specific Gravity	1.09 ± 0.02	1.086
4	Solid Contents	Mini 50	50.20
Conclusion		Complies with Requirements	



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Product: Quick Lime Powder

No.	Index Items	Standard Value	Test Results
1	Material	Quick Lime Powder	Same
2	Specific Density gm/cm ²	3.35 gm/cm ³	3.35 gm/cm ³
3	Cao	>90%	>90%
4	Mesh	200	170
5	Reactivity	15 min	48-52 C°



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Product: Refined Pure Naphthalene-(UAE)

No.	Index Items	Standard Value	Test Results
1	Appearance	White Flakes / Crystal Powder	Ok
2	Crystallization Temperature	BS5962	80.15
3	Purity	GC	99.99
4	Thio Naphthalene	-	0002
5	Methyl Naphthalene	-	0.03



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Product: SMF Powder

No.	Index Items	Standard Value	Test Results
1	Appearance	white free flowing powder	white free flowing powder
2	PH (10% solution in water)	7 – 9	8.5
3	Moisture cont	5 ± 2 %	5.24
4	Bulk Density	550 ± 200	615



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Product: Sodium Gluconate

No.	Index Items	Standard Value	Test Results
1	Appearance	White Crystalline Powder	White Crystalline Powder
2	Assay %	98.0 % min	99.92%
3	Loss On Dry %	0.5 %	0.04%
4	Reducing Substances %	0.5 % max	0.30%
5	PH Value	6.5 – 7.8	7.10
6	Sulfate %	0.02 max	0.004
7	Chloride %	0.02 max	0.003
Conclusion		Complies with Requirements	



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Product: Sodium Ligno Sulphonate (China)

No.	Index Items	Test Results
1	Appearance	Dark Brown Powder
2	PH Value	7.8
3	Moisture	4.2%
4	Lignin Content	52%
5	Water Insoluble Matter	1.80%
6	Dry Matter	95%
7	Total Reducing Matter	5.40%
Conclusion		Complies with Requirements



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Product: Sodium Ligno Sulphonate Lativa

No.	Index Items	Standard Value	Test Results
1	Appearance	Reddish Brown Powder	Meets Requirement
2	Ligno Sulphonate Content	50-60%	59%
3	PH Value	7-9	7.4
4	Water Reducing Rate	8-12%	12.2%
5	Reduzate Content	< 8%	7%
6	Water Insoluble	< 1.5%	0.1%
7	Water Content	< 5%	2%
8	120 Mesh Sieve Residue	≤ 4%	3.1%
9	Inorganic Salt Content (NASO ₄)	< 10%	7.1%



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Product: Sodium Lignosulphonates (Russia)

No.	Index Items	Test Results
1	Outward Appearance	Powder
2	Color	Light-Yellow
3	Active Substance %, Not Less	58.0%
4	Mass Fraction Of Dry Substance,% Not Less	92.0%
5	Hydrogen Ion Value – PH , Not Less	4.6%
6	Limit of durables of dried up samples by the stretching, Mpa not less	0.6



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Product: Sodium Naphthalene Sulphonate Formaldehyde-(SNF-A)

No.	Index Items	Standard Value	Test Results
1	Appearance	Brown Powder	Meets Requirement
2	PH Value	7-9	8
3	Solid Contents (%)	94% min	95.2%
4	Na ₂ SO ₄ Content (%)	5% max	3.5%
5	Surface Tension (N/M)	70.1×10 ⁻³ N/M	
Conclusion		Complies with Requirements	



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Product: Sodium Naphthalene Sulphonate Formaldehyde (SNF-B)

No.	Index Items	Standard Value	Test Results
1	Appearance	Yellow Brown Powder	Meets Requirement
2	PH Value	7-9	7.6
3	Solid Contents (%)	92% min	95%
4	Content Of cl-ppm	200 ppm	110 ppm
5	Na ₂ SO ₄ Content (%)	10% max	9.60%
Conclusion		Complies with Requirements	



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Product: Sodium Naphthalene Sulphonate Formaldehyde (SNF-C 1)

No.	Index Items	Standard Value	Test Results
1	Appearance	Yellow Brown Powder	Meets Requirement
2	PH Value	7-9	8.25
3	Solid Contents (%)	92% min	93.10%
4	Na ₂ SO ₄ Content (%)	18% max	17.25%
5	Origin	South Korea	
Conclusion		Complies with Requirements	



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Product: Sodium Naphthalene Sulphonate Formaldehyde (SNF-C 2)

No.	Index Items	Standard Value	Test Results
1	Appearance	Yellow Brown Powder	Meets Requirement
2	PH Value	7-9	8.25
3	Solid Contents (%)	92% min	93.10%
4	Na ₂ SO ₄ Content (%)	25% max	23%
5	Origin	South Korea	
Conclusion		Complies with Requirements	



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Product: Sodium Naphthalene Sulphonate Formaldehyde (SNF-C 1)

No.	Index Items	Standard Value	Test Results
1	Appearance	Yellow Brown Powder	Meets Requirement
2	PH Value	7-9	8.25
3	Solid Contents (%)	92% min	93.10%
4	Na ₂ SO ₄ Content (%)	18% max	17.25%
5	Origin	South Korea	
Conclusion		Complies with Requirements	



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Product: Sodium Napthalene Sulphonate Formaldehyde (SNF-LIQUID-43%)

No.	Index Items	Standard Value	Test Results
1	Appearance	Brown Colour Liquid	Brown Colour Liquid
2	PH Of 10% Solution	8.45	7- 8.5
3	Solid Content %W/W	1.240	45 ± 3
4	Specific Gravity @30°C	1.240	1.1 – 1.250
5	Salt Content As Na ₂ so ₄	4.85	Less Than 5%
6	Free Formaldehyde	N.D	Less Rhan 150 Ppm
7	Filter Test	OK	Filter Paper Should Be Clear, No Staining
8	Viscosity@30°C By B4 Cup	21	20 ± 5
9	Quinoline Content	N.D	150PPM



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Product: Sodium Tripolyphosphate-Slow-Hydrating

No.	Index Items	Standard Value	Test Results	Analitical Method
1	Color & Appearance	Free lowing, non-lumpy, fine smooth white powder, free from visible impurites	Free flowing, non-lumpy, fine smooth white powder, free from visible impurites & grits	
2	P205 content	56,0 minimum - 57,0 maximum	56.2	ISO 3357
3	Residue on a 500 micron sieve, %	0.3 maximum	0.3	
4	Residue on a 150 micron sieve, %	15 maximum	15	
5	Residue on a 75 micron sieve. %	50 maximum	50	
6	Bulk Density, kgim3	700 minimum - 1100 maximum	1100	
7	Whiteness (Reflectance R460) %	80 minimum	84	
8	Sodium Tripolyphosphate (Na ₅ P ₃ O ₁₀) content. dexpressed as a % of total phosphate content)%	90 minimum	93	ISO 3000
9	Phase (Form) 1	16 minimum - 28 maximum	24	UMA 5681
10	Cobalt content, as Co, mg/kg	5 makimum	5	
11	Chromium content, as Cr. mg/kg	5 makimum	5	
12	Nickel content, as Ni,mg/kg	5 maximum	5	
13	Iron content as Fe. mg/kg	260 maximum	250	
14	PH (1.0% in distilled water @ 25°C) %	9,4 minimum – 10,2 maximum	9,8	
15	Water Insoluble	0,10 maximum	0.10	

