


OWNER:  PETROCHEMICAL RESEARCH AND TECHNOLOGY CO.	PROJECT:	PROJECT NO.: 0870349904
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FEED SPECIFICATION

PREPARED:	CHECKED:	APPROVED:	DATE:	REV.:
S.RAJABI	F.YARIPOUR	F.YARIPOUR	1400.01.11	0

 PETROCHEMICAL RESEARCH AND TECHNOLOGY CO.	PROJECT:	PROJECT NO.: 0870349904				
CHEMICAL DATASHEET						
Chemical Name	Tetrapropylammonium Bromide					
Phase	Liquid —	Solid <input checked="" type="checkbox"/>	Gas —			
	Viscosity —	Mesh Size —	Viscosity —			
	Density —	Bulk Density 644 kg/m ³	Density —			
Commercial Name	TPABr					
CAS Number	1941-30-6					
Application for	Synthesis <input checked="" type="checkbox"/>	Analysis —	Indicator —	Spectroscopy —	GC, HPLC —	SurfactantTest —
	Industrial <input checked="" type="checkbox"/>			Analytical —		
Grade Standard	Industrial <input checked="" type="checkbox"/>					
Composition	C ₁₂ H ₂₈ BrN					
Purity (wt% for L&S, mol% for G)	≥ 99					
According to Test Method	ASTM (By LAB Reference Center)			ISO		
	<input checked="" type="checkbox"/>			—		
Impurity (wt%)	Free Amine value (mg KOH/g)			≤ 0.3 (index), 0.24 (result)		
	Moisture (%)			≤ 0.5 (index), 0.07 (result)		
Delivery of Sample	YES			NO		
	<input checked="" type="checkbox"/> (1 Kg)			—		
MSDS	YES			NO		
	<input checked="" type="checkbox"/>			—		
Quantity (Kg)	2000					
Bulk Specific Gravity (H ₂ O=1)	1.4					
Shelf Life (months)	24					
Packaging (Type & Volume)	25 Kg Wooden Barrel					
Other: Boiling point: 265—274 °C Ph (100g/l, H ₂ O): 5—7 LAB Reference: Razi Metallurgical Research Center						
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CHEMICAL DATASHEET

Chemical Name	Tetrapropylammonium Hydroxide					
Phase	Liquid	✓	Solid	—	Gas	—
	Viscosity	—	Mesh Size	—	Viscosity	—
	Density	1012 kg/m3	Bulk Density	—	Density	—
Commercial Name	TPAOH					
CAS Number	4499-86-9					
Application for	Synthesis	✓	Analysis	—	Indicator	—
		—		—	Spectroscopy	—
Grade Standard	Industrial			Analytical		
	✓			—		
Composition	C12H29NO					
Purity (wt% for L&S, mol% for G)	40% solution in water					
According to Test Method	ASTM (By LAB Reference Center)			ISO		
	✓			—		
Impurity (wt%)	Halide (as bromide)			0.0500		
	Carbonate			0.3000		
	NaOH			0.0025		
Delivery of Sample	YES			NO		
	✓ (2 Lit)			—		
MSDS	YES			NO		
	✓			—		
Quantity (Lit)	1000					
Bulk Specific Gravity (H2O=1)	1.012					
Shelf Life (months)	24					
Packaging (Type & Volume)	100 Liter Metal Barrel					

Other:

Boiling point: 102 °C

pH: >13

Chlorine 75 Apha max.

LAB Refrence: Razi Metallurgical Research Center

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CHEMICAL DATASHEET

Chemical Name	Aluminum Oxide Sol					
Phase	Liquid	-	Solid	✓	Gas	—
	Viscosity	-	Particle Size	20 - 30 nm	Viscosity	—
	Density	-	Bulk Density	—	Density	—
Commercial Name	White Soluble Alumina Sol Powder					
CAS Number						
Application for	Synthesis	Analysis	Indicator	Spectroscopy	GC, HPLC	SurfactantTest
	✓	—	—	—	—	—
Grade Standard	Industrial			Analytical		
	✓			—		
Composition	Al ₂ O ₃ (Crystalline Structure: Boehmite)					
Purity (wt% for L&S, mol% for G)	Content of Al ₂ O ₃ 78 % + H ₂ O 22%					
According to Test Method	ASTM (By LAB Reference Center)			ISO		
	✓			—		
Impurity (wt%)	SiO ₂			0.05		
	Fe ₂ O ₃			0.01		
	Na ₂ O			0.05		
Delivery of Sample	YES			NO		
	✓ (0.5 Kg)			—		
MSDS	YES			NO		
	✓			—		
Quantity (Kg)	300					
Bulk Specific Gravity (H ₂ O=1)	0.7 - 1					
Shelf Life (months)	12					
Packaging (Type & Volume)	25 Kg Wooden Barrel					

Other:
 Content of solid: > 95 %
 pH: 3—4.5
 BET m²/g: 160-220
 LAB Reference: Razi Metallurgical Research Center

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CHEMICAL DATASHEET

Chemical Name	Aluminium Oxy-Hydroxide					
Phase	Liquid	-	Solid	✓	Gas	—
	Viscosity	—	Particle Size	40 - 70 mic	Viscosity	—
	Density	-	Bulk Density	0.2 - 0.3 kg/L	Density	—
Commercial Name	Boehmite - GH-PB-LXD					
CAS Number						
Application for	Synthesis	Analysis	Indicator	Spectroscopy	GC, HPLC	SurfactantTest
	✓	—	—	—	—	—
Grade Standard	Industrial			Analytical		
	✓			—		
Composition	Pseudo Boehmite					
Purity (wt% for L&S, mol% for G)	Content of Al ₂ O ₃ > 68% + H ₂ O 32%					
According to Test Method	ASTM (By LAB Reference Center)			ISO		
	✓			—		
Impurity (wt%)	SiO ₂			0.01-0.03		
	Fe ₂ O ₃			0.008-0.012		
	Na ₂ O			0.03-0.05		
	Sulfur			0.010		
Delivery of Sample	YES			NO		
	✓ (2 Kg)			—		
MSDS	YES			NO		
	✓			—		
Quantity (Kg)	1000					
Bulk Specific Gravity (H ₂ O=1)	0.15-0.2					
Shelf Life (months)	24					
Packaging (Type & Volume)	25 kg Bag					

Other:

Pore Volume: 0.9-1 ml/g

Surface Area: 270-300 m²/g


Pore Diameter: 10-15 nm

Dry Basis: > 68%

Production Method: Carbonation

LAB Reference: Razi Metallurgical Research Center

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OWNER:  PETROCHEMICAL RESEARCH AND TECHNOLOGY CO.	PROJECT: MTP CATALYST FOR PVM TECHNOLOGY CATALYST CODE: ZEOTECH-RT/ T. HAS 200 & S. HAS 200	PROJECT NO.: 0870349904				
CHEMICAL DATASHEET						
Chemical Name	Silicic Acid or Precipitated Silica					
Phase	Liquid —	Solid <input checked="" type="checkbox"/>	Gas —			
	Viscosity —	Mesh Size —	Viscosity —			
	Density —	Bulk Density 60—600 kg/m ³	Density —			
Commercial Name	Silicic Acid					
CAS Number	10279-57-9					
Application for	Synthesis	Analysis	Indicator	Spectroscopy	GC, HPLC	SurfactantTest
	<input checked="" type="checkbox"/>	—	—	—	—	—
Grade Standard	Industrial			Analytical		
	<input checked="" type="checkbox"/>			—		
Composition	SiO ₂ .xH ₂ O					
Purity (wt% for L&S, mol% for G)	≥ 99					
According to Test Method	ASTM (By LAB Reference Center)			ISO		
	<input checked="" type="checkbox"/>			—		
Impurity (wt%)	Pb			0.005		
	Fe			0.300		
	Chloride			0.050		
Delivery of Sample	YES			NO		
	<input checked="" type="checkbox"/> (2 Kg)			—		
MSDS	YES			NO		
	<input checked="" type="checkbox"/>			—		
Quantity (Kg)	3000					
Bulk Specific Gravity (H ₂ O=1)	2.1					
Shelf Life (months)	24					
Packaging (Type & Volume)	50 Kg Wooden Barrel					
Other: Loss on ignition (2h, 900 oC): ≤ 3% Particle size (< 0.1 mm): about 99% LAB Reference: Razi Metallurgical Research Center						
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