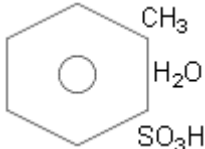


# ULTRA

## Para Toluene Sulfonic Acid - Specifications

Structure						
Formula C <sub>7</sub> H <sub>8</sub> O <sub>3</sub> S						
CAS No	(1) 104-15-4			(2) 9162-52-5		
Specifi- cations	<b>Grades</b>	<b>Anhydrous</b>	<b>Monohydrate H.S.</b>	<b>Monohydrate F.F.S.</b>	<b>Solution H.S.</b>	<b>Solution F.F.S</b>
	<b>M.W.</b>	172.20	190.22			
	<b>Appearance</b>	White crystalline powder			Liquid	
	<b>Active matter</b>	99% +/- 1%	95% +/- 1%	97% +/- 1%	65 to 70%	65 to 70%
	<b>Free Sulfuric Acid</b>	0.5% +/- 1%	Upto 5% max	0.5% +/- 0.1%	3 to 5% +/- 1%	0.5% +/- 0.1%
	<b>Moisture/ Water</b>	Traces	4% +/-1%	2.5% +/- 1%	Q.S.	
Physical properties	<b>Boiling point</b>	140°C (20mm Hg)				
	<b>Melting point</b>	Approx. 103 - 106°C				
	<b>Bulk Density</b>	1.3 at 20°C				
	<b>Solubility in water</b>	Very soluble. Extremely hygroscopic				

## ULTRA CHEMICAL WORKS

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