

**CERTIFICATE OF ANALYSIS**

<b>Product Name:</b>	Polyethylene Glycol Monocetyl Ether-20	<b>Batch No.</b>	UNILONG20221108
<b>Cas</b>	9004-95-9	<b>MF Date</b>	Nov. 08, 2022
<b>Packing</b>	50KGS/DRUM	<b>Analysis Date</b>	Nov. 08, 2022
<b>Quantity</b>	12000KGS	<b>Expiry Date</b>	Nov. 07, 2024
<b>ITEM 分析项目</b>	<b>STANDARD 技术指标</b>	<b>RESULT 实测结果</b>	
<b>Appearance</b>	White solid	Conform	
<b>Solubility</b>	Soluble in water, in acetone and in ethanol (96%), Insoluble in petroleum spirit.	Conform	
<b>PH (1% aque. solu.)</b>	5~7	6.19	
<b>Acid value</b>	≤2 mgKOH/g	0.2 mgKOH/g	
<b>Saponification value</b>	≤3 mgKOH/g	0.2 mgKOH/g	
<b>Hydroxyl number</b>	47~52 mgKOH/g	48.6 mgKOH/g	
<b>Iodine value</b>	≤3 mgKOH/g	0.1 mgKOH/g	
<b>Cloud point (1% aque. solu.)</b>	>100°C	Conform	
<b>Water</b>	≤1%	0.22%	
<b>Total ash</b>	≤0.2%	0.1%	
<b>Conclusion</b>	<b>Qualified</b>		

**Analyst: Wen Qian****Quality Assurance Officer: Zhan Peng**