

### CERTIFICATE OF ANALYSIS

Product Name : Diethylene Glycol (DEG)  
 Batch No. : 328CK  
 Formula : C<sub>4</sub>H<sub>10</sub>O<sub>3</sub>  
 Cas No : 111-46-6  
 Date Of Analysis : April 06,2015

NO.	ITEM TEST	UNITS	METHOD	SPECIFICATION	RESULT
1.	Appearance	–	Visual	Clear Colourless Liquid	Clear Colourless Liquid
2.	Colour	Hazen	ASTM D-1209	max 10	< 10
3.	Specific Gravity at 20 °C	–	ASTM D-891	1.117 – 1.124	1.120
4.	Purity	wt %	GC	min 99.0	99.93
5.	Water Content	wt %	By KF	max 0.25	0.0548
6.	Acidity ( as CH <sub>3</sub> COOH)	wt %	ASTM D-1613	max 0.005	0.0025
7.	Initial Boiling Point (IBP)	°C	ASTM D-1078	min 243	243.0
8.	Dry Point (DP)	°C	ASTM D-1078	max 248	245.0

**Remark:**

This certificate refers to the certificate of analysis from supplier and result of analysis refers to the tested sample only

PT..Pancasakti Putra Kencana



SUDIRO S.Si.  
 Quality Control