

For more information and technical assistance contact;  
 PTT Global Chemical Public Company Limited  
 555/1, Energy Complex, Building A, 18th Floor, Vibhavadi Rangsit Road,  
 Chatuchack, Chatuchack, Bangkok 10900 TEL +66-2265-8400 FAX +66-2265 8500  
 บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน)  
 555/1 ศูนย์เอนเนอร์ยี่คอมเพล็กซ์ อาคารเอ ชั้น 18 ถนนวิภาวดีรังสิต  
 แขวงจตุจักร เขตจตุจักร กรุงเทพฯ ๑ 10900 โทร. +66-2265-8400 โทรสาร +66-2265 8500



## Certificate of Analysis

Product name	: Mono Ethylene Glycol (MEG) SD225	Delivery no.	: 5840031249
Batch no	: MEGC250225	Customer Po.No.	: TOC2500196/1
Quantity(TO)	: 18.000	Sampling date	: 25.02.2025
Manufacturing date	: 25.02.2025	Sampling point	: EG1-SC25101H-C
Issue date	: 06.03.2025	Expiry date	: 24.02.2027
Customer name	: ARK CO.,LTD.		
Sale order no.	: 5812009295		

Test item	Test Method	Unit	Specification	Result
Appearance	Visual Inspection	-	Clear,Colorless	Passed
Suspended Matter	Visual Inspection	-	None	Passed
Specific Gravity @ 20/20oC	ASTM D4052-2015	-	1.1151 - 1.1156	1.1152
MEG Content	By Difference	%wt	99.90 Min	99.98
DEG Content	Based on ASTM E2409	%wt	0.05 Max	0.01
Water Content	ASTM E1064	%wt	0.020 Max	0.005
Distillation@760mmHg InitialBoilingPoint	ASTM D1078	oC	196.0 Min	196.7
Distillation@760mmHg 5% to 95%V Range	ASTM D1078	oC	1.0 Max	0.4
Dry point	ASTM D1078	oC	199.0 Max	197.6
%Transmittance @ 220nm.	ASTM E2193	%	80.0 Min	90.6
%Transmittance @ 250nm.	ASTM E2193	%	90.0 Min	96.9
%Transmittance @ 275nm.	ASTM E2193	%	95.0 Min	98.1
%Transmittance @ 350nm.	ASTM E2193	%	99.0 Min	99.7
Colour Pt-Co units Before Heating	ASTM D5386	mgPt/L	5.0 Max	3.0
Colour Pt-Co units after Heating 4 hrs.	DC-406	mgPt/L	10.0 Max	2.0
Colour Pt-Co After Heating with NaOH	EO-548	mgPt/L	10.0 Max	2.0
Colour Pt-Co After Heating with HCl	DC-407	mgPt/L	10.0 Max	3.0
Acidity as Acetic acid	ASTM D1613	ppmwt	10.0 Max	6.5
Chloride	EO-635	ppmwt	0.1 Max	< 0.1
Iron	ASTM E394	ppmwt	0.05 Max	< 0.01
Ash Content	ASTM D482	ppmwt	10.0 Max	< 10.0
Aldehyde as Formaldehyde	S-63C	ppmwt	8.0 Max	1.3

Remark : Reported results are as-received sample.

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\*In this certificate means the method is based on standard method as has shown in the line.

☒ On Spec

☐ Off Spec

Approved by :

Wirod S.

QA :

สมปอ หงษ์สมิต

MR. WIROT SARAY  
 (For Laboratory Supervisor)  
 Date: February 26 , 2025

MR. SOMPOP HONGSAMAT  
 (Plant Operation Manager)  
 Date: February 28 , 2025

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