

บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด

683 หมู่ 11 ต.สุขาภิบาล 8 ต.หนองขาม อ.ศรีราชา จ.ชลบุรี 20230
โทร. 0-3848-1197, 0-3876-3031-2 แฟกซ์ : 0-3848-2095
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EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230
Tel. 0-3848-1197, 0-3876-3031-2 Fax : 0-3848-2095
Website : <http://www.etc1992.com> E-mail : info@etc1992.com

Request No. ATR6508021

Report No. 6508-0366

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch16
ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
SAMPLE SOURCE : EA Plant
SAMPLE NAME : Tank Loading Area (Ammonia Tank)
SAMPLING DATE : 09/08/2022 SAMPLE NO. : A65080366
RECEIVED DATE : 16/08/2022 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 16/08/2022-18/08/2022
Serial No. 20200403064 REPORTED DATE : 25/08/2022

PARAMETER*	TEST METHOD	RESULT	STD ¹⁾	UNIT
Ammonia	Ion Chromatrography Method(NIOSH6016)	< 0.200	35	mg/m ³
		< 0.280	50	ppm

REMARK:

¹⁾ Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Nitchaphon Tonglor)

GPS = Sampling at UTM 47 P 731188E 1404796N

Examined By

(Miss Thanatporm Klinsopon)

25/08/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

25/08/2022

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Website : <http://www.etc1992.com> E-mail : info@etc1992.com

Request No. ATR6508021

Report No. 6508-0369

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch16
ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
SAMPLE SOURCE : EA Plant
SAMPLE NAME : Tank Loading Area (Ammonia Tank) (คุณสมบัติ แก๊วกอง)
SAMPLING DATE : 09/08/2022 SAMPLE NO. : A65080369
RECEIVED DATE : 16/08/2022 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 16/08/2022-18/08/2022
Serial No. 218403 REPORTED DATE : 25/08/2022

PARAMETER*	TEST METHOD	RESULT	STD ¹⁾	UNIT
Ammonia	Ion Chromatrography Method(NIOSH6016)	< 0.200	35	mg/m ³
		< 0.280	50	ppm

REMARK:

¹⁾ Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Nitchaphon Tonglor)

Examined By

(Miss Thanaporn Klinsopon)

25/08/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

25/08/2022

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Request No. ATR6508021

Report No. 6508-0370

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch16
 ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
 SAMPLE SOURCE : EA Plant
 SAMPLE NAME : Tank Loading Area (Ammonia Tank)(คุณอัครสิทธิ์ คล้ายแท้)
 SAMPLING DATE : 09/08/2022 SAMPLE NO. : A65080370
 RECEIVED DATE : 16/08/2022 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 16/08/2022-18/08/2022
 Serial No. 218385 REPORTED DATE : 25/08/2022

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Ammonia	Ion Chromatrography Method(NIOSH6016)	< 0.200	35	mg/m ³
		< 0.280	50	ppm

REMARK:

^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Nitchaphon Tonglor)

Examined By

(Miss Thanaporn Klinsopon)

25/08/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

25/08/2022

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Request No. ATR6508021

Report No. 6508-0364

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch16

ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut,
Amphur Muang Rayong, Rayong 21150

SAMPLE SOURCE : EA Plant

SAMPLE NAME : พื้นที่กระบวนการผลิต (Area) (P2054) SAMPLE NO : A65080364

SAMPLING DATE : 09/08/2022 SAMPLING TIME : 07:00-19:00

RECEIVED DATE : 16/08/2022 TESTED DATE : 16/08/2022-22/08/2022

SAMPLING INSTRUMENT : Passive Sampling REPORTED DATE : 25/08/2022

PARAMETER**	TEST METHOD	RESULT ^{1/}	STD ^{1/}	UNIT
Ethylene Oxide	OSHA 1010	ND	1.8	mg/m ³
		ND	1.0	ppm

REMARK:

^{1/} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017),
Concentration Limits of Hazardous Chemicals.

^{2/} ND = Non detectable : detection limit of Ethylene Oxide is 0.05 mg/m³ or 0.03 ppm.

** Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008
Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Nitchaphon Tonglor)
Analysed By SECOT Co.,Ltd. / GPS = Sampling at UTM 47 P 731245E 1404907N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(Miss Thanatporn Klinsoon)

25/08/2022

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Request No. ATR6508021

Report No. 6508-0367

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch16

ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150

SAMPLE SOURCE : EA Plant

SAMPLE NAME : EO Pump (อุณสุกิตติ์ แก้วทอง) SAMPLE NO : A65080367

SAMPLING DATE : 09/08/2022 SAMPLING TIME : 07:00-19:00

RECEIVED DATE : 16/08/2022 TESTED DATE : 16/08/2022-22/08/2022

SAMPLING INSTRUMENT : Passive Sampling REPORTED DATE : 25/08/2022

PARAMETER**	TEST METHOD	RESULT ²	STD ¹	UNIT
Ethylene Oxide	OSHA 1010	ND	1.8	mg/m ³
		ND	1.0	ppm

REMARK:

¹ Notification of The Department of Labour Protection and Welfare B.E.2560 (2017),
Concentration Limits of Hazardous Chemicals.

² ND = Non detectable : detection limit of Ethylene Oxide is 0.05 mg/m³ or 0.03 ppm.

** Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008
Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Nitchaphon Tonglor)
Analysed By SECOT Co.,Ltd.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(Miss Thanatporn Klinsoon)

25/08/2022

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Request No. ATR6508021

Report No. 6508-0368

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch16

ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut,
Amphur Muang Rayong, Rayong 21150

SAMPLE SOURCE : EA Plant

SAMPLE NAME : EO Pump (คุณอัครสิทธิ์ คล้ายแท้) SAMPLE NO : A65080368

SAMPLING DATE : 09/08/2022 SAMPLING TIME : 07:00-19:00

RECEIVED DATE : 16/08/2022 TESTED DATE : 16/08/2022-22/08/2022

SAMPLING INSTRUMENT : Passive Sampling REPORTED DATE : 25/08/2022

PARAMETER**	TEST METHOD	RESULT ²	STD ¹	UNIT
Ethylene Oxide	OSHA 1010	ND	1.8	mg/m ³
		ND	1.0	ppm

REMARK:

¹ Notification of The Department of Labour Protection and Welfare B.E.2560 (2017),
Concentration Limits of Hazardous Chemicals.

² ND = Non detectable : detection limit of Ethylene Oxide is 0.05 mg/m³ or 0.03 ppm.

** Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008
Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Nitchaphon Tonglor)
Analysed By SECOT Co.,Ltd.



Examined By

(Miss Thanatporn Klinsonon)

25/08/2022

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Request No. ATR6511022

Report No. 6511-0370

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch16

ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150

SAMPLE SOURCE : EA Plant

SAMPLE NAME : EO Pump (ถุงปรัญญา เครื่องแก้ว) SAMPLE NO : A65110370

SAMPLING DATE : 04/11/2022 SAMPLING TIME : 07:00-19:00

RECEIVED DATE : 08/11/2022 TESTED DATE : 08/11/2022 – 21/11/2022

SAMPLING INSTRUMENT : Passive Sampling REPORTED DATE : 22/11/2022

PARAMETER**	TEST METHOD	RESULT	STD ¹	UNIT
Ethylene Oxide	OSHA 1010	ND	1.8	mg/m ³
		ND	1.0	ppm

REMARK:

¹ Notification of The Department of Labour Protection and Welfare B.E.2560 (2017),
Concentration Limits of Hazardous Chemicals.

² ND = Non detectable : detection limit of Ethylene Oxide is 0.05 mg/m³ or 0.03 ppm.

** Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008
Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Nitchaphon Tonglor)
Analysed By SECOT Co.,Ltd.



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Examined By



(Miss Thanatporn Klinsohon)

22/11/2022

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Request No. ATR6511022

Report No. 6511-0371

TEST REPORT

CUSTOMER : GC Glycol Company Limited

ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150

SAMPLE SOURCE : EA Plant

SAMPLE NAME : EO Pump (กวนฟีดปั๊ม เพ็ชรรัตน์) SAMPLE NO : A65110371

SAMPLING DATE : 04/11/2022 SAMPLING TIME : 07:00-19:00

RECEIVED DATE : 08/11/2022 TESTED DATE : 08/11/2022 – 21/11/2022

SAMPLING INSTRUMENT : Passive Sampling REPORTED DATE : 22/11/2022

PARAMETER**	TEST METHOD	RESULT ²	STD ¹	UNIT
Ethylene Oxide	OSHA 1010	ND	1.8	mg/m ³
		ND	1.0	ppm

REMARK:

¹ Notification of The Department of Labour Protection and Welfare B.E.2560 (2017),
Concentration Limits of Hazardous Chemicals.

² ND = Non detectable : detection limit of Ethylene Oxide is 0.05 mg/m³ or 0.03 ppm.

** Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008
Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Nitchaphon Tonglor)
Analysed By SECOT Co.,Ltd.



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Examined By



(Miss Thanatporn Klinsohon)

22/11/2022

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