

CERTIFICATE OF ANALYSIS



LG Chem. Ltd

760 Chungheung-Dong Yeosu-City
Cheonranam-do, Korea

PRODUCT : 2-ETHYLHEXANOL LOT NO : 11-02-25-2-EH

ISSUE DATE : 2011. 2. 25. QUANTITY : 1002.702 (M/T) FILE NO : 20429132

TYPICAL VALUES

TEST ITEM	TEST METHOD	UNIT	SPECIFICATION	TEST RESULT	REMARKS
Purity	LSY-QH-OD101*	WT %	Min 99.7	99.9	total C ₈ alcohol
Iso-octanol	LSY-QH-OD101*	WT %	Max 0.3	0.11	
Color	ASTM D1209	APHA	Max 10	< 5	
Sp.Gr(20/20°C)	ASTM D1298		0.832~0.835	0.834	
Water	ASTM D1364	WT %	Max 0.05	0.02	
Acidity	BS 4583	WT %	Max 0.015	< 0.005	as acetic acid
Aldehyde	BS 4583	WT %	Max 0.05	< 0.01	as 2-EHA
H ₂ SO ₄ Color	BS 4583	APHA	Max 20	12.5	
Iodine value	ASTM D1959	I g/100g	Max 0.1	0.03	
Distillation range	ASTM D1078	°C	183~186	183~185	98% min by vol

* Gas chromatography (anhydrous basis)

I HEREBY CERTIFY THE ABOVE STATEMENT OF QUALITY TO BE TRUE AND CORRECT.

QUALITY ASSURANCE DEPT.
YEOSU OXO-ALCOHOL PLANT
LG Chem. Ltd

TEL : 82-61-680-6830

FAX : 82-61-680-6803

J. S. Kim



OXO ALCOHOL PLANT, GENERAL MANAGER



CERTIFICATE OF ANALYSIS



LG Chem. Ltd

760 Chungheung-Dong Yeosu-City
Cheonranam-do, Korea

PRODUCT : 2-ETHYLHEXANOL LOT NO : 11-03-11-2-EH

ISSUE DATE : 2011. 3. 11. QUANTITY : 1000.553 (M/T) FILE NO : 20433233

TYPICAL VALUES

TEST ITEM	TEST METHOD	UNIT	SPECIFICATION	TEST RESULT	REMARKS
Purity	LSY-QH-OD101*	WT %	Min 99.7	<u>99.9</u>	total C ₈ alcohol
Iso-octanol	LSY-QH-OD101*	WT %	Max 0.3	<u>0.11</u>	
Color	ASTM D1209	APHA	Max 10	<u>< 5</u>	
Sp.Gr(20/20℃)	ASTM D1298		0.832~0.835	<u>0.834</u>	
Water	ASTM D1364	WT %	Max 0.05	<u>0.02</u>	
Acidity	BS 4583	WT %	Max 0.015	<u>< 0.005</u>	as acetic acid
Aldehyde	BS 4583	WT %	Max 0.05	<u>< 0.01</u>	as 2-EHA
H ₂ SO ₄ Color	BS 4583	APHA	Max 20	<u>12.5</u>	
Iodine value	ASTM D1959	l g/100g	Max 0.1	<u>0.03</u>	
Distillation range	ASTM D1078	℃	183~186	<u>183~185</u>	98% min by vol

* Gas chromatography (anhydrous basis)

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OXO ALCOHOL PLANT, GENERAL MANAGER



CERTIFICATE OF ANALYSIS



LG Chem

LG Chem. Ltd

760 Chungheung-Dong Yeosu-City
Cheonranam-do, Korea

PRODUCT : **2-ETHYLHEXANOL**

LOT NO : 11-03-24-2-EH

ISSUE DATE : 2011. 3. 24.

QUANTITY : 19.000

(M/T)

FILE NO : 20436510

TYPICAL VALUES

TEST ITEM	TEST METHOD	UNIT	SPECIFICATION	TEST RESULT	REMARKS
Purity	LSY-QH-OD101*	WT %	Min 99.7	99.9	total C ₈ alcohol
Iso-octanol	LSY-QH-OD101*	WT %	Max 0.3	0.11	
Color	ASTM D1209	APHA	Max 10	< 5	
Sp.Gr(20/20°C)	ASTM D1298		0.832~0.835	0.834	
Water	ASTM D1364	WT %	Max 0.05	0.02	
Acidity	BS 4583	WT %	Max 0.015	< 0.005	as acetic acid
Aldehyde	BS 4583	WT %	Max 0.05	< 0.01	as 2-EHA
H ₂ SO ₄ Color	BS 4583	APHA	Max 20	12.5	
Iodine value	ASTM D1959	I g/100g	Max 0.1	0.03	
Distillation range	ASTM D1078	°C	183~186	183~185	98% min by vol

* Gas chromatography (anhydrous basis)

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