

GAS INNOVATIONS

CERTIFICATE OF ANALYSIS PROPANE INSTRUMENT PURITY

<u>Guaranteed Specifications</u>		<u>Lot Analysis</u>	<u>Test Method</u>	<u>Instrument</u>
99.5 % +	Propane	99.64 % +	ASTM 2163	GC/FID
Sum of all impurities to be < 0.50 %	Methane	< 1 PPM	ASTM 2163	GC/FID
	Ethane	< 1 PPM	ASTM 2163	GC/FID
Water < 5 PPM	Propylene (Propene)	32 PPM	ASTM 2163	GC/FID
	Isobutane	3332 PPM	ASTM 2163	GC/FID
Liquid Phase Analysis	n-Butane	235 PPM	ASTM 2163	GC/FID
	Neopentane	< 1 PPM	ASTM 2163	GC/FID
	Isopentane	< 1 PPM	ASTM 2163	GC/FID
	N-pentane	< 1 PPM	ASTM 2163	GC/FID
	C6+	< 1 PPM	ASTM 2163	GC/FID
	Hexane	< 1 PPM	ASTM 2163	GC/FID
	Total BTEX	< 0.1 PPM	ASTM 5580	GC/FID
	Total Alcohols (MeOH, etc.)	< 1 PPM	ASTM 7423	GC/FID
	Total Sulfur	< 0.1 PPM	ASTM 5623	GC/FPD
	Carbon Dioxide	< 1 PPM	ASTM 2504	GC/PDID
	Carbon Monoxide	< 1 PPM	ASTM 2504	GC/PDID
	Nitrogen	< 10 PPM	ASTM 2504	GC/PDID
	Oxygen	< 5 PPM	ASTM 2504	GC/PDID
	Total Metals (Mg, K, etc.)	< 1 PPB		ICP-MS
	Water	< 5 PPM	Electronic (GE Series 3 H2O Monitor)	

Certified by: _____

Date: _____

SO# 00

Cylinder Serial Number(s)

Batch Number
PRO-060322-I

CUSTOMER PO#: 000

Lot Number: PRO-060322-I-5-DV

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