



# BARGE "CTCO 324"

## ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
1 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
2 PORT	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
2 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
3 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"  
 AFT DRAFT = 4'-00"  
 DIFF. = 2'-00" (DOWN BY STERN)

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 2 PORT IS 00-1/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 2 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 236'-09"

January 18, 2014

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "CTCO 324"

## 1 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,764.14	0	4,425.92	0	4,066.74	0	3,701.03	0	3,335.02	0	2,968.75	0	2,602.29	0	2,235.82
1/4	1/4			1/4	4,757.34	1/4	4,418.66	1/4	4,059.12	1/4	3,693.41	1/4	3,327.39	1/4	2,961.11	1/4	2,594.65	1/4	2,228.19
1/2	1/2	5,085.04		1/2	4,750.53	1/2	4,411.40	1/2	4,051.50	1/2	3,685.79	1/2	3,319.76	1/2	2,953.48	1/2	2,587.02	1/2	2,220.55
3/4	3/4	5,078.62		3/4	4,743.69	3/4	4,404.08	3/4	4,043.88	3/4	3,678.17	3/4	3,312.13	3/4	2,945.85	3/4	2,579.38	3/4	2,212.92
1	1	5,072.20		1	4,736.86	1	4,396.77	1	4,036.26	1	3,670.55	1	3,304.50	1	2,938.21	1	2,571.75	1	2,205.28
1/4	1/4	5,065.78		1/4	4,730.02	1/4	4,389.45	1/4	4,028.64	1/4	3,662.93	1/4	3,296.87	1/4	2,930.58	1/4	2,564.11	1/4	2,197.65
1/2	1/2	5,059.36		1/2	4,723.18	1/2	4,382.14	1/2	4,021.02	1/2	3,655.31	1/2	3,289.24	1/2	2,922.94	1/2	2,556.48	1/2	2,190.01
3/4	3/4	5,051.99		3/4	4,716.28	3/4	4,374.79	3/4	4,013.41	3/4	3,647.69	3/4	3,281.61	3/4	2,915.31	3/4	2,548.84	3/4	2,182.38
2	2	5,044.62		2	4,709.38	2	4,367.43	2	4,005.79	2	3,640.07	2	3,273.98	2	2,907.67	2	2,541.21	2	2,174.74
1/4	1/4	5,037.24		1/4	4,702.48	1/4	4,360.08	1/4	3,998.17	1/4	3,632.46	1/4	3,266.35	1/4	2,900.04	1/4	2,533.57	1/4	2,167.11
1/2	1/2	5,029.87		1/2	4,695.58	1/2	4,352.72	1/2	3,990.55	1/2	3,624.84	1/2	3,258.72	1/2	2,892.40	1/2	2,525.94	1/2	2,159.47
3/4	3/4	5,022.31		3/4	4,688.63	3/4	4,345.34	3/4	3,982.93	3/4	3,617.22	3/4	3,251.08	3/4	2,884.77	3/4	2,518.30	3/4	2,151.84
3	3	5,014.75		3	4,681.69	3	4,337.95	3	3,975.31	3	3,609.60	3	3,243.45	3	2,877.13	3	2,510.67	3	2,144.20
1/4	1/4	5,007.18		1/4	4,674.74	1/4	4,330.56	1/4	3,967.69	1/4	3,601.98	1/4	3,235.82	1/4	2,869.50	1/4	2,503.03	1/4	2,136.57
1/2	1/2	4,999.62		1/2	4,667.80	1/2	4,323.17	1/2	3,960.07	1/2	3,594.36	1/2	3,228.19	1/2	2,861.87	1/2	2,495.40	1/2	2,128.93
3/4	3/4	4,992.06		3/4	4,660.81	3/4	4,315.75	3/4	3,952.45	3/4	3,586.74	3/4	3,220.56	3/4	2,854.23	3/4	2,487.77	3/4	2,121.30
4	4	4,984.50		4	4,653.83	4	4,308.33	4	3,944.83	4	3,579.12	4	3,212.93	4	2,846.60	4	2,480.13	4	2,113.66
1/4	1/4	4,976.94		1/4	4,646.84	1/4	4,300.91	1/4	3,937.22	1/4	3,571.50	1/4	3,205.30	1/4	2,838.96	1/4	2,472.50	1/4	2,106.03
1/2	1/2	4,969.38		1/2	4,639.86	1/2	4,293.49	1/2	3,929.60	1/2	3,563.88	1/2	3,197.67	1/2	2,831.33	1/2	2,464.86	1/2	2,098.40
3/4	3/4	4,961.82		3/4	4,632.84	3/4	4,286.03	3/4	3,921.98	3/4	3,556.27	3/4	3,190.04	3/4	2,823.69	3/4	2,457.23	3/4	2,090.76
5	5	4,954.25		5	4,625.82	5	4,278.58	5	3,914.36	5	3,548.65	5	3,182.41	5	2,816.06	5	2,449.59	5	2,083.13
1/4	1/4	4,946.69		1/4	4,618.80	1/4	4,271.12	1/4	3,906.74	1/4	3,541.03	1/4	3,174.78	1/4	2,808.42	1/4	2,441.96	1/4	2,075.49
1/2	1/2	4,939.13		1/2	4,611.78	1/2	4,263.67	1/2	3,899.12	1/2	3,533.41	1/2	3,167.15	1/2	2,800.79	1/2	2,434.32	1/2	2,067.86
3/4	3/4	4,932.29		3/4	4,604.72	3/4	4,256.17	3/4	3,891.50	3/4	3,525.78	3/4	3,159.52	3/4	2,793.15	3/4	2,426.69	3/4	2,060.22
6	6	4,925.44		6	4,597.67	6	4,248.68	6	3,883.88	6	3,518.15	6	3,151.89	6	2,785.52	6	2,419.05	6	2,052.59
1/4	1/4	4,918.60		1/4	4,590.61	1/4	4,241.18	1/4	3,876.26	1/4	3,510.52	1/4	3,144.26	1/4	2,777.88	1/4	2,411.42	1/4	2,044.95
1/2	1/2	4,911.75		1/2	4,583.56	1/2	4,233.69	1/2	3,868.64	1/2	3,502.89	1/2	3,136.63	1/2	2,770.25	1/2	2,403.78	1/2	2,037.32
3/4	3/4	4,905.12		3/4	4,576.47	3/4	4,226.16	3/4	3,861.03	3/4	3,495.26	3/4	3,129.00	3/4	2,762.61	3/4	2,396.15	3/4	2,030.22
7	7	4,898.49		7	4,569.38	7	4,218.63	7	3,853.41	7	3,487.63	7	3,121.36	7	2,754.98	7	2,388.51	7	2,023.13
1/4	1/4	4,891.86		1/4	4,562.29	1/4	4,211.10	1/4	3,845.79	1/4	3,480.00	1/4	3,113.73	1/4	2,747.34	1/4	2,380.88	1/4	2,016.04
1/2	1/2	4,885.23		1/2	4,555.21	1/2	4,203.57	1/2	3,838.17	1/2	3,472.37	1/2	3,106.10	1/2	2,739.71	1/2	2,373.24	1/2	2,008.94
3/4	3/4	4,878.56		3/4	4,548.08	3/4	4,196.00	3/4	3,830.55	3/4	3,464.74	3/4	3,098.47	3/4	2,732.08	3/4	2,365.61	3/4	2,002.03
8	8	4,871.90		8	4,540.96	8	4,188.44	8	3,822.93	8	3,457.11	8	3,090.84	8	2,724.44	8	2,357.98	8	1,995.12
1/4	1/4	4,865.24		1/4	4,533.84	1/4	4,180.87	1/4	3,815.31	1/4	3,449.48	1/4	3,083.21	1/4	2,716.81	1/4	2,350.34	1/4	1,988.20
1/2	1/2	4,858.58		1/2	4,526.72	1/2	4,173.31	1/2	3,807.69	1/2	3,441.85	1/2	3,075.58	1/2	2,709.17	1/2	2,342.71	1/2	1,981.29
3/4	3/4	4,851.88		3/4	4,519.56	3/4	4,165.71	3/4	3,800.07	3/4	3,434.22	3/4	3,067.95	3/4	2,701.54	3/4	2,335.07	3/4	1,973.86
9	9	4,845.18		9	4,512.41	9	4,158.11	9	3,792.45	9	3,426.59	9	3,060.32	9	2,693.90	9	2,327.44	9	1,966.43
1/4	1/4	4,838.48		1/4	4,505.25	1/4	4,150.51	1/4	3,784.84	1/4	3,418.96	1/4	3,052.69	1/4	2,686.27	1/4	2,319.80	1/4	1,959.00
1/2	1/2	4,831.78		1/2	4,498.10	1/2	4,142.92	1/2	3,777.22	1/2	3,411.33	1/2	3,045.06	1/2	2,678.63	1/2	2,312.17	1/2	1,951.57
3/4	3/4	4,825.04		3/4	4,490.91	3/4	4,135.30	3/4	3,769.60	3/4	3,403.70	3/4	3,037.43	3/4	2,671.00	3/4	2,304.53	3/4	1,943.97
10	10	4,818.30		10	4,483.72	10	4,127.68	10	3,761.98	10	3,396.07	10	3,029.80	10	2,663.36	10	2,296.90	10	1,936.37
1/4	1/4	4,811.57		1/4	4,476.53	1/4	4,120.07	1/4	3,754.36	1/4	3,388.44	1/4	3,022.17	1/4	2,655.73	1/4	2,289.26	1/4	1,928.77
1/2	1/2	4,804.83		1/2	4,469.34	1/2	4,112.45	1/2	3,746.74	1/2	3,380.80	1/2	3,014.54	1/2	2,648.09	1/2	2,281.63	1/2	1,921.17
3/4	3/4	4,798.06		3/4	4,462.12	3/4	4,104.83	3/4	3,739.12	3/4	3,373.17	3/4	3,006.91	3/4	2,640.46	3/4	2,273.99	3/4	1,913.57
11	11	4,791.29		11	4,454.90	11	4,097.21	11	3,731.50	11	3,365.54	11	2,999.27	11	2,632.82	11	2,266.36	11	1,905.97
1/4	1/4	4,784.52		1/4	4,447.67	1/4	4,089.60	1/4	3,723.88	1/4	3,357.91	1/4	2,991.64	1/4	2,625.19	1/4	2,258.72	1/4	1,898.37
1/2	1/2	4,777.75		1/2	4,440.45	1/2	4,081.98	1/2	3,716.26	1/2	3,350.28	1/2	2,984.01	1/2	2,617.55	1/2	2,251.09	1/2	1,890.77
3/4	3/4	4,770.94		3/4	4,433.19	3/4	4,074.36	3/4	3,708.65	3/4	3,342.65	3/4	2,976.38	3/4	2,609.92	3/4	2,243.45	3/4	1,883.14

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "CTCO 324"

## 1 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,875.51	0	1,509.00	0	1,142.51	0	778.12	0	415.24	0	92.51	0		0		0		0	
1/4	1,867.89	1/4	1,501.36	1/4	1,134.89	1/4	770.50	1/4	408.00	1/4	86.32	1/4		1/4		1/4		1/4	
1/2	1,860.26	1/2	1,493.72	1/2	1,127.28	1/2	762.87	1/2	400.75	1/2	80.14	1/2		1/2		1/2		1/2	
3/4	1,852.62	3/4	1,486.09	3/4	1,119.67	3/4	755.24	3/4	393.59	3/4	74.06	3/4		3/4		3/4		3/4	
1	1,844.99	1	1,478.45	1	1,112.07	1	747.60	1	386.43	1	67.98	1		1		1		1	
1/4	1,837.35	1/4	1,470.82	1/4	1,104.46	1/4	739.97	1/4	379.27	1/4	61.91	1/4		1/4		1/4		1/4	
1/2	1,829.71	1/2	1,463.18	1/2	1,096.85	1/2	732.33	1/2	372.11	1/2	55.83	1/2		1/2		1/2		1/2	
3/4	1,822.08	3/4	1,455.54	3/4	1,089.26	3/4	724.70	3/4	365.04	3/4	50.54	3/4		3/4		3/4		3/4	
2	1,814.44	2	1,447.91	2	1,081.66	2	717.06	2	357.97	2	45.24	2		2		2		2	
1/4	1,806.81	1/4	1,440.27	1/4	1,074.07	1/4	709.42	1/4	350.90	1/4	39.94	1/4		1/4		1/4		1/4	
1/2	1,799.17	1/2	1,432.64	1/2	1,066.47	1/2	701.79	1/2	343.82	1/2	34.65	1/2		1/2		1/2		1/2	
3/4	1,791.53	3/4	1,425.00	3/4	1,058.88	3/4	694.15	3/4	336.84	3/4	30.76	3/4		3/4		3/4		3/4	
3	1,783.90	3	1,417.36	3	1,051.29	3	686.52	3	329.85	3	26.88	3		3		3		3	
1/4	1,776.26	1/4	1,409.73	1/4	1,043.69	1/4	678.88	1/4	322.87	1/4	23.00	1/4		1/4		1/4		1/4	
1/2	1,768.62	1/2	1,402.09	1/2	1,036.10	1/2	671.24	1/2	315.88	1/2		1/2		1/2		1/2		1/2	
3/4	1,760.99	3/4	1,394.46	3/4	1,028.51	3/4	663.61	3/4	308.98	3/4		3/4		3/4		3/4		3/4	
4	1,753.35	4	1,386.82	4	1,020.93	4	655.97	4	302.08	4		4		4		4		4	
1/4	1,745.72	1/4	1,379.18	1/4	1,013.34	1/4	648.34	1/4	295.18	1/4		1/4		1/4		1/4		1/4	
1/2	1,738.08	1/2	1,371.55	1/2	1,005.75	1/2	640.70	1/2	288.28	1/2		1/2		1/2		1/2		1/2	
3/4	1,730.44	3/4	1,363.91	3/4	998.17	3/4	633.06	3/4	281.47	3/4		3/4		3/4		3/4		3/4	
5	1,722.81	5	1,356.28	5	990.58	5	625.43	5	274.66	5		5		5		5		5	
1/4	1,715.17	1/4	1,348.64	1/4	983.00	1/4	617.79	1/4	267.85	1/4		1/4		1/4		1/4		1/4	
1/2	1,707.54	1/2	1,341.00	1/2	975.41	1/2	610.16	1/2	261.03	1/2		1/2		1/2		1/2		1/2	
3/4	1,699.90	3/4	1,333.37	3/4	967.83	3/4	602.52	3/4	254.31	3/4		3/4		3/4		3/4		3/4	
6	1,692.26	6	1,325.73	6	960.24	6	594.88	6	247.58	6		6		6		6		6	
1/4	1,684.63	1/4	1,318.09	1/4	952.66	1/4	587.25	1/4	240.86	1/4		1/4		1/4		1/4		1/4	
1/2	1,676.99	1/2	1,310.46	1/2	945.07	1/2	579.61	1/2	234.13	1/2		1/2		1/2		1/2		1/2	
3/4	1,669.36	3/4	1,302.82	3/4	937.49	3/4	571.99	3/4	227.49	3/4		3/4		3/4		3/4		3/4	
7	1,661.72	7	1,295.19	7	929.90	7	564.36	7	220.85	7		7		7		7		7	
1/4	1,654.08	1/4	1,287.55	1/4	922.32	1/4	556.73	1/4	214.21	1/4		1/4		1/4		1/4		1/4	
1/2	1,646.45	1/2	1,279.91	1/2	914.73	1/2	549.10	1/2	207.58	1/2		1/2		1/2		1/2		1/2	
3/4	1,638.81	3/4	1,272.28	3/4	907.15	3/4	541.52	3/4	201.02	3/4		3/4		3/4		3/4		3/4	
8	1,631.17	8	1,264.64	8	899.56	8	533.93	8	194.47	8		8		8		8		8	
1/4	1,623.54	1/4	1,257.01	1/4	891.98	1/4	526.35	1/4	187.92	1/4		1/4		1/4		1/4		1/4	
1/2	1,615.90	1/2	1,249.37	1/2	884.39	1/2	518.76	1/2	181.37	1/2		1/2		1/2		1/2		1/2	
3/4	1,608.27	3/4	1,241.73	3/4	876.80	3/4	511.26	3/4	174.90	3/4		3/4		3/4		3/4		3/4	
9	1,600.63	9	1,234.10	9	869.22	9	503.75	9	168.43	9		9		9		9		9	
1/4	1,592.99	1/4	1,226.46	1/4	861.63	1/4	496.25	1/4	161.97	1/4		1/4		1/4		1/4		1/4	
1/2	1,585.36	1/2	1,218.83	1/2	854.05	1/2	488.74	1/2	155.50	1/2		1/2		1/2		1/2		1/2	
3/4	1,577.72	3/4	1,211.19	3/4	846.46	3/4	481.32	3/4	149.13	3/4		3/4		3/4		3/4		3/4	
10	1,570.09	10	1,203.55	10	838.88	10	473.90	10	142.75	10		10		10		10		10	
1/4	1,562.45	1/4	1,195.92	1/4	831.29	1/4	466.48	1/4	136.38	1/4		1/4		1/4		1/4		1/4	
1/2	1,554.81	1/2	1,188.28	1/2	823.71	1/2	459.06	1/2	130.00	1/2		1/2		1/2		1/2		1/2	
3/4	1,547.18	3/4	1,180.64	3/4	816.12	3/4	451.73	3/4	123.72	3/4		3/4		3/4		3/4		3/4	
11	1,539.54	11	1,173.01	11	808.54	11	444.40	11	117.44	11		11		11		11		11	
1/4	1,531.91	1/4	1,165.37	1/4	800.95	1/4	437.07	1/4	111.16	1/4		1/4		1/4		1/4		1/4	
1/2	1,524.27	1/2	1,157.74	1/2	793.37	1/2	429.73	1/2	104.88	1/2		1/2		1/2		1/2		1/2	
3/4	1,516.63	3/4	1,150.12	3/4	785.74	3/4	422.49	3/4	98.69	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/16/2014 CL  
RECALCULATED: 02/07/2014 CL  
PRINTED: 02/07/2014 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2014

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "CTCO 324"

## 1 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0	4,767.88	0	4,430.09	0	4,071.22	0	3,705.47	0	3,339.72	0	2,973.96	0	2,608.02	0	2,242.08		
1/4	1/4	1/4	1/4	1/4	4,761.08	1/4	4,422.82	1/4	4,063.60	1/4	3,697.85	1/4	3,332.10	1/4	2,966.34	1/4	2,600.40	1/4	2,234.46		
1/2	1/2	1/2	1/2	1/2	4,754.27	1/2	4,415.56	1/2	4,055.98	1/2	3,690.23	1/2	3,324.48	1/2	2,958.72	1/2	2,592.77	1/2	2,226.83		
3/4	3/4	3/4	3/4	3/4	5,082.01	3/4	4,747.47	3/4	4,408.30	3/4	4,048.36	3/4	3,682.61	3/4	3,316.86	3/4	2,951.09	3/4	2,585.15	3/4	2,219.21
1	1	1	1	1	5,075.59	1	4,740.63	1	4,400.98	1	4,040.74	1	3,674.99	1	3,309.24	1	2,943.47	1	2,577.53	1	2,211.58
1/4	1/4	1/4	1/4	1/4	5,069.17	1/4	4,733.79	1/4	4,393.67	1/4	4,033.12	1/4	3,667.37	1/4	3,301.62	1/4	2,935.85	1/4	2,569.90	1/4	2,203.96
1/2	1/2	1/2	1/2	1/2	5,062.75	1/2	4,726.95	1/2	4,386.35	1/2	4,025.50	1/2	3,659.75	1/2	3,294.00	1/2	2,928.22	1/2	2,562.28	1/2	2,196.34
3/4	3/4	3/4	3/4	3/4	5,056.33	3/4	4,720.11	3/4	4,379.03	3/4	4,017.88	3/4	3,652.13	3/4	3,286.38	3/4	2,920.60	3/4	2,554.66	3/4	2,188.71
2	2	2	2	2	5,048.96	2	4,713.21	2	4,371.68	2	4,010.26	2	3,644.51	2	3,278.76	2	2,912.97	2	2,547.03	2	2,181.09
1/4	1/4	1/4	1/4	1/4	5,041.58	1/4	4,706.31	1/4	4,364.32	1/4	4,002.64	1/4	3,636.89	1/4	3,271.14	1/4	2,905.35	1/4	2,539.41	1/4	2,173.47
1/2	1/2	1/2	1/2	1/2	5,034.21	1/2	4,699.41	1/2	4,356.97	1/2	3,995.02	1/2	3,629.27	1/2	3,263.52	1/2	2,897.73	1/2	2,531.78	1/2	2,165.84
3/4	3/4	3/4	3/4	3/4	5,026.84	3/4	4,692.51	3/4	4,349.62	3/4	3,987.40	3/4	3,621.65	3/4	3,255.90	3/4	2,890.10	3/4	2,524.16	3/4	2,158.22
3	3	3	3	3	5,019.28	3	4,685.56	3	4,342.23	3	3,979.78	3	3,614.03	3	3,248.28	3	2,882.48	3	2,516.54	3	2,150.59
1/4	1/4	1/4	1/4	1/4	5,011.71	1/4	4,678.61	1/4	4,334.84	1/4	3,972.16	1/4	3,606.41	1/4	3,240.66	1/4	2,874.86	1/4	2,508.91	1/4	2,142.97
1/2	1/2	1/2	1/2	1/2	5,004.15	1/2	4,671.67	1/2	4,327.45	1/2	3,964.54	1/2	3,598.79	1/2	3,233.04	1/2	2,867.23	1/2	2,501.29	1/2	2,135.35
3/4	3/4	3/4	3/4	3/4	4,996.59	3/4	4,664.72	3/4	4,320.06	3/4	3,956.92	3/4	3,591.17	3/4	3,225.42	3/4	2,859.61	3/4	2,493.67	3/4	2,127.72
4	4	4	4	4	4,989.03	4	4,657.74	4	4,312.64	4	3,949.30	4	3,583.55	4	3,217.80	4	2,851.98	4	2,486.04	4	2,120.10
1/4	1/4	1/4	1/4	1/4	4,981.46	1/4	4,650.75	1/4	4,305.22	1/4	3,941.68	1/4	3,575.93	1/4	3,210.18	1/4	2,844.36	1/4	2,478.42	1/4	2,112.48
1/2	1/2	1/2	1/2	1/2	4,973.90	1/2	4,643.77	1/2	4,297.80	1/2	3,934.06	1/2	3,568.31	1/2	3,202.56	1/2	2,836.74	1/2	2,470.79	1/2	2,104.85
3/4	3/4	3/4	3/4	3/4	4,966.34	3/4	4,636.78	3/4	4,290.37	3/4	3,926.44	3/4	3,560.69	3/4	3,194.94	3/4	2,829.11	3/4	2,463.17	3/4	2,097.23
5	5	5	5	5	4,958.78	5	4,629.76	5	4,282.92	5	3,918.82	5	3,553.07	5	3,187.32	5	2,821.49	5	2,455.55	5	2,089.60
1/4	1/4	1/4	1/4	1/4	4,951.21	1/4	4,622.74	1/4	4,275.46	1/4	3,911.20	1/4	3,545.45	1/4	3,179.70	1/4	2,813.87	1/4	2,447.92	1/4	2,081.98
1/2	1/2	1/2	1/2	1/2	4,943.65	1/2	4,615.72	1/2	4,268.01	1/2	3,903.58	1/2	3,537.83	1/2	3,172.08	1/2	2,806.24	1/2	2,440.30	1/2	2,074.36
3/4	3/4	3/4	3/4	3/4	4,936.09	3/4	4,608.69	3/4	4,260.55	3/4	3,895.96	3/4	3,530.21	3/4	3,164.46	3/4	2,798.62	3/4	2,432.68	3/4	2,066.73
6	6	6	6	6	4,929.24	6	4,601.64	6	4,253.06	6	3,888.34	6	3,522.59	6	3,156.84	6	2,790.99	6	2,425.05	6	2,059.11
1/4	1/4	1/4	1/4	1/4	4,922.40	1/4	4,594.58	1/4	4,245.56	1/4	3,880.72	1/4	3,514.97	1/4	3,149.22	1/4	2,783.37	1/4	2,417.43	1/4	2,051.49
1/2	1/2	1/2	1/2	1/2	4,915.55	1/2	4,587.53	1/2	4,238.06	1/2	3,873.10	1/2	3,507.35	1/2	3,141.60	1/2	2,775.75	1/2	2,409.80	1/2	2,043.86
3/4	3/4	3/4	3/4	3/4	4,908.71	3/4	4,580.47	3/4	4,230.57	3/4	3,865.48	3/4	3,499.73	3/4	3,133.98	3/4	2,768.12	3/4	2,402.18	3/4	2,036.24
7	7	7	7	7	4,902.07	7	4,573.39	7	4,223.04	7	3,857.86	7	3,492.11	7	3,126.36	7	2,760.50	7	2,394.56	7	2,029.15
1/4	1/4	1/4	1/4	1/4	4,895.44	1/4	4,566.30	1/4	4,215.50	1/4	3,850.25	1/4	3,484.49	1/4	3,118.74	1/4	2,752.87	1/4	2,386.93	1/4	2,022.07
1/2	1/2	1/2	1/2	1/2	4,888.81	1/2	4,559.21	1/2	4,207.97	1/2	3,842.63	1/2	3,476.87	1/2	3,111.12	1/2	2,745.25	1/2	2,379.31	1/2	2,014.99
3/4	3/4	3/4	3/4	3/4	4,882.18	3/4	4,552.12	3/4	4,200.44	3/4	3,835.01	3/4	3,469.26	3/4	3,103.50	3/4	2,737.63	3/4	2,371.68	3/4	2,007.91
8	8	8	8	8	4,875.52	8	4,545.00	8	4,192.88	8	3,827.39	8	3,461.64	8	3,095.88	8	2,730.00	8	2,364.06	8	2,001.00
1/4	1/4	1/4	1/4	1/4	4,868.85	1/4	4,537.87	1/4	4,185.31	1/4	3,819.77	1/4	3,454.02	1/4	3,088.27	1/4	2,722.38	1/4	2,356.44	1/4	1,994.10
1/2	1/2	1/2	1/2	1/2	4,862.19	1/2	4,530.75	1/2	4,177.75	1/2	3,812.15	1/2	3,446.40	1/2	3,080.65	1/2	2,714.76	1/2	2,348.81	1/2	1,987.20
3/4	3/4	3/4	3/4	3/4	4,855.53	3/4	4,523.63	3/4	4,170.18	3/4	3,804.53	3/4	3,438.78	3/4	3,073.03	3/4	2,707.13	3/4	2,341.19	3/4	1,980.30
9	9	9	9	9	4,848.83	9	4,516.47	9	4,162.58	9	3,796.91	9	3,431.16	9	3,065.41	9	2,699.51	9	2,333.57	9	1,972.88
1/4	1/4	1/4	1/4	1/4	4,842.12	1/4	4,509.32	1/4	4,154.98	1/4	3,789.29	1/4	3,423.54	1/4	3,057.79	1/4	2,691.88	1/4	2,325.94	1/4	1,965.46
1/2	1/2	1/2	1/2	1/2	4,835.42	1/2	4,502.16	1/2	4,147.38	1/2	3,781.67	1/2	3,415.92	1/2	3,050.17	1/2	2,684.26	1/2	2,318.32	1/2	1,958.04
3/4	3/4	3/4	3/4	3/4	4,828.72	3/4	4,495.01	3/4	4,139.79	3/4	3,774.05	3/4	3,408.30	3/4	3,042.55	3/4	2,676.64	3/4	2,310.69	3/4	1,950.62
10	10	10	10	10	4,821.98	10	4,487.82	10	4,132.17	10	3,766.43	10	3,400.68	10	3,034.93	10	2,669.01	10	2,303.07	10	1,943.03
1/4	1/4	1/4	1/4	1/4	4,815.25	1/4	4,480.63	1/4	4,124.55	1/4	3,758.81	1/4	3,393.06	1/4	3,027.31	1/4	2,661.39	1/4	2,295.45	1/4	1,935.44
1/2	1/2	1/2	1/2	1/2	4,808.51	1/2	4,473.44	1/2	4,116.93	1/2	3,751.19	1/2	3,385.44	1/2	3,019.69	1/2	2,653.77	1/2	2,287.82	1/2	1,927.85
3/4	3/4	3/4	3/4	3/4	4,801.77	3/4	4,466.25	3/4	4,109.32	3/4	3,743.57	3/4	3,377.82	3/4	3,012.07	3/4	2,646.14	3/4	2,280.20	3/4	1,920.26
11	11	11	11	11	4,795.00	11	4,459.02	11	4,101.70	11	3,735.95	11	3,370.20	11	3,004.45	11	2,638.52	11	2,272.58	11	1,912.67
1/4	1/4	1/4	1/4	1/4	4,788.23	1/4	4,451.80	1/4	4,094.98	1/4	3,728.33	1/4	3,362.58	1/4	2,996.83	1/4	2,630.89	1/4	2,264.95	1/4	1,905.08
1/2	1/2	1/2	1/2	1/2	4,781.46	1/2	4,444.57	1/2	4,086.46	1/2	3,720.71	1/2	3,354.96	1/2	2,989.21	1/2	2,623.27	1/2	2,257.33	1/2	1,897.50
3/4	3/4	3/4	3/4	3/4	4,774.69	3/4	4,437.35	3/4	4,078.84	3/4	3,713.09	3/4	3,347.34	3/4	2,981.59	3/4	2,615.65	3/4	2,249.70	3/4	1,889.91

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092

Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "CTCO 324"

## 1 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,882.29	0	1,516.30	0	1,150.29	0	784.76	0	422.06	0	98.71	0		0		0		0	
1/4	1,874.67	1/4	1,508.68	1/4	1,142.66	1/4	777.14	1/4	414.82	1/4	92.52	1/4		1/4		1/4		1/4	
1/2	1,867.06	1/2	1,501.05	1/2	1,135.04	1/2	769.52	1/2	407.59	1/2	86.34	1/2		1/2		1/2		1/2	
3/4	1,859.44	3/4	1,493.43	3/4	1,127.41	3/4	761.90	3/4	400.35	3/4	80.15	3/4		3/4		3/4		3/4	
1	1,851.82	1	1,485.80	1	1,119.79	1	754.27	1	393.20	1	74.07	1		1		1		1	
1/4	1,844.19	1/4	1,478.18	1/4	1,112.16	1/4	746.65	1/4	386.06	1/4	67.99	1/4		1/4		1/4		1/4	
1/2	1,836.57	1/2	1,470.55	1/2	1,104.54	1/2	739.02	1/2	378.91	1/2	61.92	1/2		1/2		1/2		1/2	
3/4	1,828.94	3/4	1,462.93	3/4	1,096.91	3/4	731.40	3/4	371.76	3/4	55.84	3/4		3/4		3/4		3/4	
2	1,821.32	2	1,455.30	2	1,089.29	2	723.77	2	364.70	2	50.54	2		2		2		2	
1/4	1,813.69	1/4	1,447.68	1/4	1,081.67	1/4	716.15	1/4	357.64	1/4	45.25	1/4		1/4		1/4		1/4	
1/2	1,806.07	1/2	1,440.05	1/2	1,074.05	1/2	708.52	1/2	350.57	1/2	39.95	1/2		1/2		1/2		1/2	
3/4	1,798.44	3/4	1,432.43	3/4	1,066.43	3/4	700.90	3/4	343.51	3/4	34.65	3/4		3/4		3/4		3/4	
3	1,790.81	3	1,424.80	3	1,058.81	3	693.27	3	336.54	3	30.77	3		3		3		3	
1/4	1,783.19	1/4	1,417.17	1/4	1,051.19	1/4	685.65	1/4	329.56	1/4	26.88	1/4		1/4		1/4		1/4	
1/2	1,775.56	1/2	1,409.55	1/2	1,043.57	1/2	678.02	1/2	322.59	1/2	23.00	1/2		1/2		1/2		1/2	
3/4	1,767.94	3/4	1,401.92	3/4	1,035.96	3/4	670.40	3/4	315.61	3/4		3/4		3/4		3/4		3/4	
4	1,760.31	4	1,394.30	4	1,028.34	4	662.77	4	308.72	4		4		4		4		4	
1/4	1,752.69	1/4	1,386.67	1/4	1,020.73	1/4	655.15	1/4	301.83	1/4		1/4		1/4		1/4		1/4	
1/2	1,745.06	1/2	1,379.05	1/2	1,013.12	1/2	647.52	1/2	294.95	1/2		1/2		1/2		1/2		1/2	
3/4	1,737.44	3/4	1,371.42	3/4	1,005.50	3/4	639.90	3/4	288.06	3/4		3/4		3/4		3/4		3/4	
5	1,729.81	5	1,363.80	5	997.89	5	632.27	5	281.26	5		5		5		5		5	
1/4	1,722.19	1/4	1,356.17	1/4	990.28	1/4	624.65	1/4	274.45	1/4		1/4		1/4		1/4		1/4	
1/2	1,714.56	1/2	1,348.55	1/2	982.67	1/2	617.02	1/2	267.65	1/2		1/2		1/2		1/2		1/2	
3/4	1,706.94	3/4	1,340.92	3/4	975.06	3/4	609.40	3/4	260.85	3/4		3/4		3/4		3/4		3/4	
6	1,699.31	6	1,333.30	6	967.45	6	601.77	6	254.14	6		6		6		6		6	
1/4	1,691.69	1/4	1,325.67	1/4	959.83	1/4	594.15	1/4	247.42	1/4		1/4		1/4		1/4		1/4	
1/2	1,684.06	1/2	1,318.05	1/2	952.22	1/2	586.52	1/2	240.71	1/2		1/2		1/2		1/2		1/2	
3/4	1,676.44	3/4	1,310.42	3/4	944.61	3/4	578.90	3/4	233.99	3/4		3/4		3/4		3/4		3/4	
7	1,668.81	7	1,302.80	7	937.00	7	571.28	7	227.36	7		7		7		7		7	
1/4	1,661.18	1/4	1,295.17	1/4	929.39	1/4	563.67	1/4	220.73	1/4		1/4		1/4		1/4		1/4	
1/2	1,653.56	1/2	1,287.54	1/2	921.78	1/2	556.06	1/2	214.11	1/2		1/2		1/2		1/2		1/2	
3/4	1,645.93	3/4	1,279.92	3/4	914.17	3/4	548.45	3/4	207.48	3/4		3/4		3/4		3/4		3/4	
8	1,638.31	8	1,272.29	8	906.55	8	540.88	8	200.94	8		8		8		8		8	
1/4	1,630.68	1/4	1,264.67	1/4	898.94	1/4	533.32	1/4	194.39	1/4		1/4		1/4		1/4		1/4	
1/2	1,623.06	1/2	1,257.04	1/2	891.33	1/2	525.75	1/2	187.85	1/2		1/2		1/2		1/2		1/2	
3/4	1,615.43	3/4	1,249.42	3/4	883.72	3/4	518.19	3/4	181.31	3/4		3/4		3/4		3/4		3/4	
9	1,607.81	9	1,241.79	9	876.11	9	510.69	9	174.86	9		9		9		9		9	
1/4	1,600.18	1/4	1,234.17	1/4	868.50	1/4	503.20	1/4	168.40	1/4		1/4		1/4		1/4		1/4	
1/2	1,592.56	1/2	1,226.54	1/2	860.89	1/2	495.71	1/2	161.95	1/2		1/2		1/2		1/2		1/2	
3/4	1,584.93	3/4	1,218.92	3/4	853.28	3/4	488.21	3/4	155.49	3/4		3/4		3/4		3/4		3/4	
10	1,577.31	10	1,211.29	10	845.66	10	480.81	10	149.12	10		10		10		10		10	
1/4	1,569.68	1/4	1,203.67	1/4	838.05	1/4	473.40	1/4	142.75	1/4		1/4		1/4		1/4		1/4	
1/2	1,562.06	1/2	1,196.04	1/2	830.44	1/2	465.99	1/2	136.39	1/2		1/2		1/2		1/2		1/2	
3/4	1,554.43	3/4	1,188.42	3/4	822.83	3/4	458.58	3/4	130.02	3/4		3/4		3/4		3/4		3/4	
11	1,546.80	11	1,180.79	11	815.22	11	451.26	11	123.74	11		11		11		11		11	
1/4	1,539.18	1/4	1,173.17	1/4	807.61	1/4	443.94	1/4	117.46	1/4		1/4		1/4		1/4		1/4	
1/2	1,531.55	1/2	1,165.54	1/2	800.00	1/2	436.61	1/2	111.18	1/2		1/2		1/2		1/2		1/2	
3/4	1,523.93	3/4	1,157.91	3/4	792.38	3/4	429.29	3/4	104.90	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/16/2014 CL  
RECALCULATED: 02/07/2014 CL  
PRINTED: 02/07/2014 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2014

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "CTCO 324"

## 2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,537.95	0	4,221.06	0	3,884.19	0	3,540.50	0	3,196.82	0	2,853.13	0	2,509.26	0	2,165.38
1/4	1/4	1/4	4,531.56	1/4	4,214.24	1/4	3,877.03	1/4	3,533.34	1/4	3,189.66	1/4	2,845.97	1/4	2,502.10	1/4	2,158.21		
1/2	1/2	1/2	4,525.17	1/2	4,207.42	1/2	3,869.87	1/2	3,526.18	1/2	3,182.50	1/2	2,838.81	1/2	2,494.93	1/2	2,151.05		
3/4	3/4	3/4	4,518.78	3/4	4,200.59	3/4	3,862.71	3/4	3,519.02	3/4	3,175.34	3/4	2,831.65	3/4	2,487.77	3/4	2,143.89		
1	1	1	4,826.57	1	4,512.39	1	4,193.77	1	3,855.54	1	3,511.86	1	3,168.18	1	2,824.48	1	2,480.60	1	2,136.72
1/4	1/4	1/4	4,820.54	1/4	4,505.97	1/4	4,186.89	1/4	3,848.38	1/4	3,504.70	1/4	3,161.02	1/4	2,817.32	1/4	2,473.44	1/4	2,129.56
1/2	1/2	1/2	4,814.51	1/2	4,499.55	1/2	4,180.02	1/2	3,841.22	1/2	3,497.54	1/2	3,153.86	1/2	2,810.16	1/2	2,466.27	1/2	2,122.39
3/4	3/4	3/4	4,808.48	3/4	4,493.12	3/4	4,173.15	3/4	3,834.06	3/4	3,490.38	3/4	3,146.69	3/4	2,802.99	3/4	2,459.11	3/4	2,115.23
2	2	2	4,802.45	2	4,486.70	2	4,166.27	2	3,826.90	2	3,483.22	2	3,139.53	2	2,795.83	2	2,451.95	2	2,108.06
1/4	1/4	1/4	4,795.53	1/4	4,480.22	1/4	4,159.36	1/4	3,819.74	1/4	3,476.06	1/4	3,132.37	1/4	2,788.66	1/4	2,444.78	1/4	2,100.90
1/2	1/2	1/2	4,788.60	1/2	4,473.74	1/2	4,152.45	1/2	3,812.58	1/2	3,468.90	1/2	3,125.21	1/2	2,781.50	1/2	2,437.62	1/2	2,093.74
3/4	3/4	3/4	4,781.68	3/4	4,467.25	3/4	4,145.54	3/4	3,805.42	3/4	3,461.74	3/4	3,118.05	3/4	2,774.33	3/4	2,430.45	3/4	2,086.57
3	3	3	4,774.75	3	4,460.77	3	4,138.63	3	3,798.26	3	3,454.58	3	3,110.89	3	2,767.17	3	2,423.29	3	2,079.41
1/4	1/4	1/4	4,767.65	1/4	4,454.24	1/4	4,131.69	1/4	3,791.10	1/4	3,447.42	1/4	3,103.73	1/4	2,760.01	1/4	2,416.12	1/4	2,072.24
1/2	1/2	1/2	4,760.55	1/2	4,447.72	1/2	4,124.74	1/2	3,783.94	1/2	3,440.26	1/2	3,096.57	1/2	2,752.84	1/2	2,408.96	1/2	2,065.08
3/4	3/4	3/4	4,753.44	3/4	4,441.19	3/4	4,117.80	3/4	3,776.78	3/4	3,433.10	3/4	3,089.41	3/4	2,745.68	3/4	2,401.80	3/4	2,057.91
4	4	4	4,746.34	4	4,434.67	4	4,110.86	4	3,769.62	4	3,425.94	4	3,082.25	4	2,738.51	4	2,394.63	4	2,050.75
1/4	1/4	1/4	4,739.24	1/4	4,428.11	1/4	4,103.88	1/4	3,762.46	1/4	3,418.78	1/4	3,075.09	1/4	2,731.35	1/4	2,387.47	1/4	2,043.59
1/2	1/2	1/2	4,732.14	1/2	4,421.54	1/2	4,096.91	1/2	3,755.30	1/2	3,411.62	1/2	3,067.93	1/2	2,724.19	1/2	2,380.30	1/2	2,036.42
3/4	3/4	3/4	4,725.03	3/4	4,414.98	3/4	4,089.94	3/4	3,748.14	3/4	3,404.46	3/4	3,060.77	3/4	2,717.02	3/4	2,373.14	3/4	2,029.26
5	5	5	4,717.93	5	4,408.42	5	4,082.96	5	3,740.98	5	3,397.30	5	3,053.61	5	2,709.86	5	2,365.98	5	2,022.09
1/4	1/4	1/4	4,710.83	1/4	4,401.82	1/4	4,075.96	1/4	3,733.82	1/4	3,390.14	1/4	3,046.45	1/4	2,702.69	1/4	2,358.81	1/4	2,014.93
1/2	1/2	1/2	4,703.72	1/2	4,395.23	1/2	4,068.95	1/2	3,726.66	1/2	3,382.98	1/2	3,039.29	1/2	2,695.53	1/2	2,351.65	1/2	2,007.77
3/4	3/4	3/4	4,696.62	3/4	4,388.63	3/4	4,061.94	3/4	3,719.50	3/4	3,375.82	3/4	3,032.13	3/4	2,688.36	3/4	2,344.48	3/4	2,000.60
6	6	6	4,689.52	6	4,382.03	6	4,054.94	6	3,712.34	6	3,368.66	6	3,024.97	6	2,681.20	6	2,337.32	6	1,993.44
1/4	1/4	1/4	4,683.09	1/4	4,375.41	1/4	4,047.89	1/4	3,705.18	1/4	3,361.50	1/4	3,017.81	1/4	2,674.04	1/4	2,330.15	1/4	1,986.27
1/2	1/2	1/2	4,676.66	1/2	4,368.78	1/2	4,040.85	1/2	3,698.02	1/2	3,354.34	1/2	3,010.65	1/2	2,666.87	1/2	2,322.99	1/2	1,979.11
3/4	3/4	3/4	4,670.23	3/4	4,362.15	3/4	4,033.81	3/4	3,690.86	3/4	3,347.18	3/4	3,003.49	3/4	2,659.71	3/4	2,315.83	3/4	1,971.94
7	7	7	4,663.80	7	4,355.52	7	4,026.76	7	3,683.70	7	3,340.02	7	2,996.33	7	2,652.54	7	2,308.66	7	1,964.78
1/4	1/4	1/4	4,657.58	1/4	4,348.86	1/4	4,019.69	1/4	3,676.54	1/4	3,332.86	1/4	2,989.17	1/4	2,645.38	1/4	2,301.50	1/4	1,958.12
1/2	1/2	1/2	4,651.35	1/2	4,342.20	1/2	4,012.61	1/2	3,669.38	1/2	3,325.70	1/2	2,982.01	1/2	2,638.21	1/2	2,294.33	1/2	1,951.47
3/4	3/4	3/4	4,645.12	3/4	4,335.54	3/4	4,005.53	3/4	3,662.22	3/4	3,318.54	3/4	2,974.85	3/4	2,631.05	3/4	2,287.17	3/4	1,944.81
8	8	8	4,638.89	8	4,328.88	8	3,998.46	8	3,655.06	8	3,311.38	8	2,967.69	8	2,623.89	8	2,280.00	8	1,938.16
1/4	1/4	1/4	4,632.64	1/4	4,322.19	1/4	3,991.35	1/4	3,647.90	1/4	3,304.22	1/4	2,960.53	1/4	2,616.72	1/4	2,272.84	1/4	1,931.67
1/2	1/2	1/2	4,626.38	1/2	4,315.50	1/2	3,984.24	1/2	3,640.74	1/2	3,297.06	1/2	2,953.37	1/2	2,609.56	1/2	2,265.68	1/2	1,925.19
3/4	3/4	3/4	4,620.12	3/4	4,308.81	3/4	3,977.13	3/4	3,633.58	3/4	3,289.90	3/4	2,946.21	3/4	2,602.39	3/4	2,258.51	3/4	1,918.70
9	9	9	4,613.87	9	4,302.12	9	3,970.02	9	3,626.42	9	3,282.74	9	2,939.05	9	2,595.23	9	2,251.35	9	1,912.21
1/4	1/4	1/4	4,607.57	1/4	4,295.40	1/4	3,962.88	1/4	3,619.26	1/4	3,275.58	1/4	2,931.89	1/4	2,588.07	1/4	2,244.18	1/4	1,905.24
1/2	1/2	1/2	4,601.28	1/2	4,288.67	1/2	3,955.74	1/2	3,612.10	1/2	3,268.42	1/2	2,924.73	1/2	2,580.90	1/2	2,237.02	1/2	1,898.28
3/4	3/4	3/4	4,594.99	3/4	4,281.95	3/4	3,948.60	3/4	3,604.94	3/4	3,261.26	3/4	2,917.57	3/4	2,573.74	3/4	2,229.86	3/4	1,891.31
10	10	10	4,588.69	10	4,275.23	10	3,941.46	10	3,597.78	10	3,254.10	10	2,910.41	10	2,566.57	10	2,222.69	10	1,884.34
1/4	1/4	1/4	4,582.37	1/4	4,268.47	1/4	3,934.30	1/4	3,590.62	1/4	3,246.94	1/4	2,903.25	1/4	2,559.41	1/4	2,215.53	1/4	1,877.21
1/2	1/2	1/2	4,576.04	1/2	4,261.72	1/2	3,927.14	1/2	3,583.46	1/2	3,239.78	1/2	2,896.09	1/2	2,552.24	1/2	2,208.36	1/2	1,870.08
3/4	3/4	3/4	4,569.71	3/4	4,254.96	3/4	3,919.98	3/4	3,576.30	3/4	3,232.62	3/4	2,888.93	3/4	2,545.08	3/4	2,201.20	3/4	1,862.95
11	11	11	4,563.38	11	4,248.21	11	3,912.83	11	3,569.14	11	3,225.46	11	2,881.77	11	2,537.92	11	2,194.03	11	1,855.82
1/4	1/4	1/4	4,557.03	1/4	4,241.42	1/4	3,905.67	1/4	3,561.98	1/4	3,218.30	1/4	2,874.61	1/4	2,530.75	1/4	2,186.87	1/4	1,848.69
1/2	1/2	1/2	4,550.67	1/2	4,234.64	1/2	3,898.51	1/2	3,554.82	1/2	3,211.14	1/2	2,867.45	1/2	2,523.59	1/2	2,179.71	1/2	1,841.56
3/4	3/4	3/4	4,544.31	3/4	4,227.85	3/4	3,891.35	3/4	3,547.66	3/4	3,203.98	3/4	2,860.29	3/4	2,516.42	3/4	2,172.54	3/4	1,834.43

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 40'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092

Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "CTCO 324"

## 2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,827.30	0	1,483.38	0	1,139.43	0	809.56	0	465.93	0	121.99	0		0		0		0	
1/4	1,820.14	1/4	1,476.22	1/4	1,132.48	1/4	802.47	1/4	458.76	1/4	114.83	1/4		1/4		1/4		1/4	
1/2	1,812.98	1/2	1,469.05	1/2	1,125.53	1/2	795.38	1/2	451.59	1/2	107.68	1/2		1/2		1/2		1/2	
3/4	1,805.83	3/4	1,461.89	3/4	1,118.57	3/4	788.29	3/4	444.43	3/4	100.52	3/4		3/4		3/4		3/4	
1	1,798.67	1	1,454.72	1	1,111.62	1	781.20	1	437.26	1	93.36	1		1		1		1	
1/4	1,791.50	1/4	1,447.56	1/4	1,104.74	1/4	774.04	1/4	430.10	1/4	86.22	1/4		1/4		1/4		1/4	
1/2	1,784.34	1/2	1,440.39	1/2	1,097.86	1/2	766.87	1/2	422.93	1/2	79.09	1/2		1/2		1/2		1/2	
3/4	1,777.17	3/4	1,433.22	3/4	1,090.97	3/4	759.71	3/4	415.77	3/4	71.95	3/4		3/4		3/4		3/4	
2	1,770.01	2	1,426.06	2	1,084.09	2	752.54	2	408.60	2	64.81	2		2		2		2	
1/4	1,762.84	1/4	1,418.89	1/4	1,077.22	1/4	745.38	1/4	401.44	1/4	58.33	1/4		1/4		1/4		1/4	
1/2	1,755.68	1/2	1,411.73	1/2	1,070.35	1/2	738.21	1/2	394.27	1/2	51.85	1/2		1/2		1/2		1/2	
3/4	1,748.51	3/4	1,404.56	3/4	1,063.47	3/4	731.05	3/4	387.11	3/4	45.36	3/4		3/4		3/4		3/4	
3	1,741.34	3	1,397.40	3	1,056.60	3	723.88	3	379.94	3	38.88	3		3		3		3	
1/4	1,734.18	1/4	1,390.23	1/4	1,049.73	1/4	716.71	1/4	372.78	1/4	33.95	1/4		1/4		1/4		1/4	
1/2	1,727.01	1/2	1,383.06	1/2	1,042.86	1/2	709.55	1/2	365.61	1/2	29.03	1/2		1/2		1/2		1/2	
3/4	1,719.85	3/4	1,375.90	3/4	1,036.00	3/4	702.38	3/4	358.44	3/4	24.10	3/4		3/4		3/4		3/4	
4	1,712.68	4	1,368.73	4	1,029.13	4	695.22	4	351.28	4		4		4		4		4	
1/4	1,705.52	1/4	1,361.57	1/4	1,022.26	1/4	688.05	1/4	344.11	1/4		1/4		1/4		1/4		1/4	
1/2	1,698.35	1/2	1,354.40	1/2	1,015.40	1/2	680.89	1/2	336.95	1/2		1/2		1/2		1/2		1/2	
3/4	1,691.19	3/4	1,347.24	3/4	1,008.54	3/4	673.72	3/4	329.78	3/4		3/4		3/4		3/4		3/4	
5	1,684.02	5	1,340.07	5	1,001.67	5	666.56	5	322.62	5		5		5		5		5	
1/4	1,676.85	1/4	1,332.91	1/4	994.81	1/4	659.39	1/4	315.45	1/4		1/4		1/4		1/4		1/4	
1/2	1,669.69	1/2	1,325.74	1/2	987.95	1/2	652.23	1/2	308.29	1/2		1/2		1/2		1/2		1/2	
3/4	1,662.52	3/4	1,318.57	3/4	981.09	3/4	645.06	3/4	301.12	3/4		3/4		3/4		3/4		3/4	
6	1,655.36	6	1,311.41	6	974.23	6	637.89	6	293.96	6		6		6		6		6	
1/4	1,648.19	1/4	1,304.24	1/4	967.37	1/4	630.73	1/4	286.79	1/4		1/4		1/4		1/4		1/4	
1/2	1,641.03	1/2	1,297.08	1/2	960.51	1/2	623.56	1/2	279.62	1/2		1/2		1/2		1/2		1/2	
3/4	1,633.86	3/4	1,289.91	3/4	953.65	3/4	616.40	3/4	272.46	3/4		3/4		3/4		3/4		3/4	
7	1,626.70	7	1,282.75	7	946.78	7	609.23	7	265.29	7		7		7		7		7	
1/4	1,619.53	1/4	1,275.58	1/4	939.92	1/4	602.07	1/4	258.13	1/4		1/4		1/4		1/4		1/4	
1/2	1,612.36	1/2	1,268.42	1/2	933.06	1/2	594.90	1/2	250.96	1/2		1/2		1/2		1/2		1/2	
3/4	1,605.20	3/4	1,261.25	3/4	926.20	3/4	587.74	3/4	243.80	3/4		3/4		3/4		3/4		3/4	
8	1,598.03	8	1,254.08	8	919.34	8	580.57	8	236.63	8		8		8		8		8	
1/4	1,590.87	1/4	1,246.92	1/4	912.48	1/4	573.41	1/4	229.47	1/4		1/4		1/4		1/4		1/4	
1/2	1,583.70	1/2	1,239.75	1/2	905.62	1/2	566.24	1/2	222.30	1/2		1/2		1/2		1/2		1/2	
3/4	1,576.54	3/4	1,232.59	3/4	898.75	3/4	559.08	3/4	215.14	3/4		3/4		3/4		3/4		3/4	
9	1,569.37	9	1,225.42	9	891.89	9	551.91	9	207.97	9		9		9		9		9	
1/4	1,562.20	1/4	1,218.26	1/4	885.03	1/4	544.74	1/4	200.81	1/4		1/4		1/4		1/4		1/4	
1/2	1,555.04	1/2	1,211.09	1/2	878.17	1/2	537.58	1/2	193.64	1/2		1/2		1/2		1/2		1/2	
3/4	1,547.87	3/4	1,203.92	3/4	871.31	3/4	530.41	3/4	186.47	3/4		3/4		3/4		3/4		3/4	
10	1,540.71	10	1,196.76	10	864.45	10	523.25	10	179.31	10		10		10		10		10	
1/4	1,533.54	1/4	1,189.59	1/4	857.59	1/4	516.08	1/4	172.14	1/4		1/4		1/4		1/4		1/4	
1/2	1,526.38	1/2	1,182.43	1/2	850.73	1/2	508.92	1/2	164.98	1/2		1/2		1/2		1/2		1/2	
3/4	1,519.21	3/4	1,175.26	3/4	843.86	3/4	501.75	3/4	157.81	3/4		3/4		3/4		3/4		3/4	
11	1,512.05	11	1,168.10	11	837.00	11	494.59	11	150.65	11		11		11		11		11	
1/4	1,504.88	1/4	1,160.93	1/4	830.14	1/4	487.42	1/4	143.48	1/4		1/4		1/4		1/4		1/4	
1/2	1,497.71	1/2	1,153.77	1/2	823.28	1/2	480.26	1/2	136.32	1/2		1/2		1/2		1/2		1/2	
3/4	1,490.55	3/4	1,146.60	3/4	816.42	3/4	473.09	3/4	129.15	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/16/2014 CL  
RECALCULATED: 02/07/2014 CL  
PRINTED: 02/07/2014 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2014

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "CTCO 324"

## 2 STBD

### ULLAGE TABLE

### HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0	4,549.54	0	4,231.92	0	3,894.40	0	3,550.41	0	3,206.42	0	2,862.42	0	2,518.24	0	2,174.06		
1/4	1/4	1/4	1/4	1/4	4,543.14	1/4	4,225.09	1/4	3,887.24	1/4	3,543.25	1/4	3,199.25	1/4	2,855.26	1/4	2,511.07	1/4	2,166.89		
1/2	1/2	1/2	1/2	1/2	4,536.75	1/2	4,218.25	1/2	3,880.07	1/2	3,536.08	1/2	3,192.09	1/2	2,848.09	1/2	2,503.90	1/2	2,159.72		
3/4	3/4	3/4	3/4	3/4	4,844.82	3/4	4,530.35	3/4	4,211.42	3/4	3,872.90	3/4	3,528.91	3/4	3,184.92	3/4	2,840.92	3/4	2,496.73	3/4	2,152.55
1	1	1	1	1	4,838.79	1	4,523.92	1	4,204.54	1	3,865.74	1	3,521.75	1	3,177.75	1	2,833.75	1	2,489.56	1	2,145.38
1/4	1/4	1/4	1/4	1/4	4,832.76	1/4	4,517.49	1/4	4,197.66	1/4	3,858.57	1/4	3,514.58	1/4	3,170.59	1/4	2,826.58	1/4	2,482.39	1/4	2,138.21
1/2	1/2	1/2	1/2	1/2	4,826.72	1/2	4,511.07	1/2	4,190.78	1/2	3,851.40	1/2	3,507.41	1/2	3,163.42	1/2	2,819.40	1/2	2,475.22	1/2	2,131.04
3/4	3/4	3/4	3/4	3/4	4,820.69	3/4	4,504.64	3/4	4,183.90	3/4	3,844.24	3/4	3,500.25	3/4	3,156.25	3/4	2,812.23	3/4	2,468.05	3/4	2,123.87
2	2	2	2	2	4,813.76	2	4,498.15	2	4,176.99	2	3,837.07	2	3,493.08	2	3,149.09	2	2,805.06	2	2,460.88	2	2,116.70
1/4	1/4	1/4	1/4	1/4	4,806.83	1/4	4,491.66	1/4	4,170.07	1/4	3,829.91	1/4	3,485.91	1/4	3,141.92	1/4	2,797.89	1/4	2,453.71	1/4	2,109.53
1/2	1/2	1/2	1/2	1/2	4,799.90	1/2	4,485.17	1/2	4,163.15	1/2	3,822.74	1/2	3,478.75	1/2	3,134.75	1/2	2,790.72	1/2	2,446.54	1/2	2,102.35
3/4	3/4	3/4	3/4	3/4	4,792.97	3/4	4,478.68	3/4	4,156.23	3/4	3,815.57	3/4	3,471.58	3/4	3,127.59	3/4	2,783.55	3/4	2,439.37	3/4	2,095.18
3	3	3	3	3	4,785.86	3	4,472.15	3	4,149.29	3	3,808.41	3	3,464.41	3	3,120.42	3	2,776.38	3	2,432.20	3	2,088.01
1/4	1/4	1/4	1/4	1/4	4,778.75	1/4	4,465.62	1/4	4,142.34	1/4	3,801.24	1/4	3,457.25	1/4	3,113.26	1/4	2,769.21	1/4	2,425.03	1/4	2,080.84
1/2	1/2	1/2	1/2	1/2	4,771.64	1/2	4,459.09	1/2	4,135.39	1/2	3,794.07	1/2	3,450.08	1/2	3,106.09	1/2	2,762.04	1/2	2,417.86	1/2	2,073.67
3/4	3/4	3/4	3/4	3/4	4,764.53	3/4	4,452.55	3/4	4,128.44	3/4	3,786.91	3/4	3,442.91	3/4	3,098.92	3/4	2,754.87	3/4	2,410.69	3/4	2,066.50
4	4	4	4	4	4,757.42	4	4,445.99	4	4,121.46	4	3,779.74	4	3,435.75	4	3,091.76	4	2,747.70	4	2,403.52	4	2,059.33
1/4	1/4	1/4	1/4	1/4	4,750.31	1/4	4,439.42	1/4	4,114.48	1/4	3,772.57	1/4	3,428.58	1/4	3,084.59	1/4	2,740.53	1/4	2,396.35	1/4	2,052.16
1/2	1/2	1/2	1/2	1/2	4,743.20	1/2	4,432.85	1/2	4,107.50	1/2	3,765.41	1/2	3,421.41	1/2	3,077.42	1/2	2,733.36	1/2	2,389.17	1/2	2,044.99
3/4	3/4	3/4	3/4	3/4	4,736.09	3/4	4,426.28	3/4	4,100.52	3/4	3,758.24	3/4	3,414.25	3/4	3,070.26	3/4	2,726.19	3/4	2,382.00	3/4	2,037.82
5	5	5	5	5	4,728.99	5	4,419.68	5	4,093.51	5	3,751.07	5	3,407.08	5	3,063.09	5	2,719.02	5	2,374.83	5	2,030.65
1/4	1/4	1/4	1/4	1/4	4,721.88	1/4	4,413.07	1/4	4,086.49	1/4	3,743.91	1/4	3,399.92	1/4	3,055.92	1/4	2,711.85	1/4	2,367.66	1/4	2,023.48
1/2	1/2	1/2	1/2	1/2	4,714.77	1/2	4,406.47	1/2	4,079.48	1/2	3,736.74	1/2	3,392.75	1/2	3,048.76	1/2	2,704.68	1/2	2,360.49	1/2	2,016.31
3/4	3/4	3/4	3/4	3/4	4,707.66	3/4	4,399.87	3/4	4,072.47	3/4	3,729.57	3/4	3,385.58	3/4	3,041.59	3/4	2,697.51	3/4	2,353.32	3/4	2,009.14
6	6	6	6	6	4,701.22	6	4,393.23	6	4,065.42	6	3,722.41	6	3,378.42	6	3,034.42	6	2,690.34	6	2,346.15	6	2,001.97
1/4	1/4	1/4	1/4	1/4	4,694.79	1/4	4,386.60	1/4	4,058.37	1/4	3,715.24	1/4	3,371.25	1/4	3,027.26	1/4	2,683.17	1/4	2,338.98	1/4	1,994.80
1/2	1/2	1/2	1/2	1/2	4,688.35	1/2	4,379.97	1/2	4,051.32	1/2	3,708.07	1/2	3,364.08	1/2	3,020.09	1/2	2,675.99	1/2	2,331.81	1/2	1,987.63
3/4	3/4	3/4	3/4	3/4	4,681.92	3/4	4,373.33	3/4	4,044.27	3/4	3,700.91	3/4	3,356.92	3/4	3,012.92	3/4	2,668.82	3/4	2,324.64	3/4	1,980.46
7	7	7	7	7	4,675.68	7	4,366.67	7	4,037.19	7	3,693.74	7	3,349.75	7	3,005.76	7	2,661.65	7	2,317.47	7	1,973.79
1/4	1/4	1/4	1/4	1/4	4,669.45	1/4	4,360.00	1/4	4,030.10	1/4	3,686.58	1/4	3,342.58	1/4	2,998.59	1/4	2,654.48	1/4	2,310.30	1/4	1,967.13
1/2	1/2	1/2	1/2	1/2	4,663.22	1/2	4,353.33	1/2	4,023.02	1/2	3,679.41	1/2	3,335.42	1/2	2,991.42	1/2	2,647.31	1/2	2,303.13	1/2	1,960.47
3/4	3/4	3/4	3/4	3/4	4,656.98	3/4	4,346.67	3/4	4,015.93	3/4	3,672.24	3/4	3,328.25	3/4	2,984.26	3/4	2,640.14	3/4	2,295.96	3/4	1,953.81
8	8	8	8	8	4,650.72	8	4,339.97	8	4,008.82	8	3,665.08	8	3,321.08	8	2,977.09	8	2,632.97	8	2,288.79	8	1,947.32
1/4	1/4	1/4	1/4	1/4	4,644.46	1/4	4,333.27	1/4	4,001.70	1/4	3,657.91	1/4	3,313.92	1/4	2,969.93	1/4	2,625.80	1/4	2,281.62	1/4	1,940.82
1/2	1/2	1/2	1/2	1/2	4,638.19	1/2	4,326.57	1/2	3,994.59	1/2	3,650.74	1/2	3,306.75	1/2	2,962.76	1/2	2,618.63	1/2	2,274.45	1/2	1,934.33
3/4	3/4	3/4	3/4	3/4	4,631.93	3/4	4,319.88	3/4	3,987.47	3/4	3,643.58	3/4	3,299.58	3/4	2,955.59	3/4	2,611.46	3/4	2,267.28	3/4	1,927.84
9	9	9	9	9	4,625.63	9	4,313.15	9	3,980.33	9	3,636.41	9	3,292.42	9	2,948.43	9	2,604.29	9	2,260.11	9	1,920.86
1/4	1/4	1/4	1/4	1/4	4,619.33	1/4	4,306.42	1/4	3,973.18	1/4	3,629.24	1/4	3,285.25	1/4	2,941.26	1/4	2,597.12	1/4	2,252.94	1/4	1,913.89
1/2	1/2	1/2	1/2	1/2	4,613.03	1/2	4,299.69	1/2	3,966.03	1/2	3,622.08	1/2	3,278.08	1/2	2,934.09	1/2	2,589.95	1/2	2,245.76	1/2	1,906.91
3/4	3/4	3/4	3/4	3/4	4,606.73	3/4	4,292.96	3/4	3,958.89	3/4	3,614.91	3/4	3,270.92	3/4	2,926.93	3/4	2,582.78	3/4	2,238.59	3/4	1,899.94
10	10	10	10	10	4,600.40	10	4,286.20	10	3,951.72	10	3,607.74	10	3,263.75	10	2,919.76	10	2,575.61	10	2,231.42	10	1,892.80
1/4	1/4	1/4	1/4	1/4	4,594.06	1/4	4,279.44	1/4	3,944.56	1/4	3,600.58	1/4	3,256.59	1/4	2,912.59	1/4	2,568.44	1/4	2,224.25	1/4	1,885.66
1/2	1/2	1/2	1/2	1/2	4,587.73	1/2	4,272.68	1/2	3,937.40	1/2	3,593.41	1/2	3,249.42	1/2	2,905.43	1/2	2,561.27	1/2	2,217.08	1/2	1,878.53
3/4	3/4	3/4	3/4	3/4	4,581.40	3/4	4,265.92	3/4	3,930.24	3/4	3,586.24	3/4	3,242.25	3/4	2,898.26	3/4	2,554.10	3/4	2,209.91	3/4	1,871.39
11	11	11	11	11	4,575.03	11	4,259.12	11	3,923.07	11	3,579.08	11	3,235.09	11	2,891.09	11	2,546.93	11	2,202.74	11	1,864.25
1/4	1/4	1/4	1/4	1/4	4,568.67	1/4	4,252.33	1/4	3,915.90	1/4	3,571.91	1/4	3,227.92	1/4	2,883.93	1/4	2,539.76	1/4	2,195.57	1/4	1,857.12
1/2	1/2	1/2	1/2	1/2	4,562.30	1/2	4,245.54	1/2	3,908.74	1/2	3,564.74	1/2	3,220.75	1/2	2,876.76	1/2	2,532.58	1/2	2,188.40	1/2	1,849.98
3/4	3/4	3/4	3/4	3/4	4,555.94	3/4	4,238.75	3/4	3,901.57	3/4	3,557.58	3/4	3,213.59	3/4	2,869.59	3/4	2,525.41	3/4	2,181.23	3/4	1,842.85

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 40'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092

Pearland, Texas 77588  
<http://www.pmacorp.net>





# BARGE "CTCO 324"

## 2 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,835.68	0	1,491.45	0	1,147.20	0	803.40	0	459.16	0	114.93	0		0		0		0	
1/4	1,828.52	1/4	1,484.28	1/4	1,140.03	1/4	796.23	1/4	451.99	1/4	107.77	1/4		1/4		1/4		1/4	
1/2	1,821.35	1/2	1,477.11	1/2	1,132.86	1/2	789.06	1/2	444.82	1/2	100.61	1/2		1/2		1/2		1/2	
3/4	1,814.19	3/4	1,469.94	3/4	1,125.69	3/4	781.89	3/4	437.65	3/4	93.44	3/4		3/4		3/4		3/4	
1	1,807.02	1	1,462.77	1	1,118.51	1	774.72	1	430.48	1	86.30	1		1		1		1	
1/4	1,799.84	1/4	1,455.59	1/4	1,111.34	1/4	767.55	1/4	423.31	1/4	79.16	1/4		1/4		1/4		1/4	
1/2	1,792.67	1/2	1,448.42	1/2	1,104.17	1/2	760.38	1/2	416.13	1/2	72.01	1/2		1/2		1/2		1/2	
3/4	1,785.50	3/4	1,441.25	3/4	1,097.00	3/4	753.20	3/4	408.96	3/4	64.87	3/4		3/4		3/4		3/4	
2	1,778.33	2	1,434.08	2	1,089.83	2	746.03	2	401.79	2	58.38	2		2		2		2	
1/4	1,771.16	1/4	1,426.91	1/4	1,082.66	1/4	738.86	1/4	394.62	1/4	51.89	1/4		1/4		1/4		1/4	
1/2	1,763.99	1/2	1,419.73	1/2	1,075.50	1/2	731.69	1/2	387.45	1/2	45.40	1/2		1/2		1/2		1/2	
3/4	1,756.81	3/4	1,412.56	3/4	1,068.33	3/4	724.52	3/4	380.28	3/4	38.91	3/4		3/4		3/4		3/4	
3	1,749.64	3	1,405.39	3	1,061.16	3	717.35	3	373.10	3	33.98	3		3		3		3	
1/4	1,742.47	1/4	1,398.22	1/4	1,053.99	1/4	710.17	1/4	365.93	1/4	29.05	1/4		1/4		1/4		1/4	
1/2	1,735.30	1/2	1,391.05	1/2	1,046.83	1/2	703.00	1/2	358.76	1/2	24.12	1/2		1/2		1/2		1/2	
3/4	1,728.13	3/4	1,383.87	3/4	1,039.66	3/4	695.83	3/4	351.59	3/4		3/4		3/4		3/4		3/4	
4	1,720.95	4	1,376.70	4	1,032.50	4	688.66	4	344.42	4		4		4		4		4	
1/4	1,713.78	1/4	1,369.53	1/4	1,025.34	1/4	681.49	1/4	337.25	1/4		1/4		1/4		1/4		1/4	
1/2	1,706.61	1/2	1,362.36	1/2	1,018.18	1/2	674.31	1/2	330.07	1/2		1/2		1/2		1/2		1/2	
3/4	1,699.44	3/4	1,355.19	3/4	1,011.02	3/4	667.14	3/4	322.90	3/4		3/4		3/4		3/4		3/4	
5	1,692.27	5	1,348.01	5	1,003.86	5	659.97	5	315.73	5		5		5		5		5	
1/4	1,685.09	1/4	1,340.84	1/4	996.70	1/4	652.80	1/4	308.56	1/4		1/4		1/4		1/4		1/4	
1/2	1,677.92	1/2	1,333.67	1/2	989.54	1/2	645.63	1/2	301.39	1/2		1/2		1/2		1/2		1/2	
3/4	1,670.75	3/4	1,326.50	3/4	982.38	3/4	638.46	3/4	294.21	3/4		3/4		3/4		3/4		3/4	
6	1,663.58	6	1,319.33	6	975.22	6	631.28	6	287.04	6		6		6		6		6	
1/4	1,656.41	1/4	1,312.16	1/4	968.06	1/4	624.11	1/4	279.87	1/4		1/4		1/4		1/4		1/4	
1/2	1,649.23	1/2	1,304.98	1/2	960.91	1/2	616.94	1/2	272.70	1/2		1/2		1/2		1/2		1/2	
3/4	1,642.06	3/4	1,297.81	3/4	953.75	3/4	609.77	3/4	265.53	3/4		3/4		3/4		3/4		3/4	
7	1,634.89	7	1,290.64	7	946.59	7	602.60	7	258.36	7		7		7		7		7	
1/4	1,627.72	1/4	1,283.47	1/4	939.43	1/4	595.43	1/4	251.18	1/4		1/4		1/4		1/4		1/4	
1/2	1,620.55	1/2	1,276.30	1/2	932.27	1/2	588.25	1/2	244.01	1/2		1/2		1/2		1/2		1/2	
3/4	1,613.38	3/4	1,269.12	3/4	925.11	3/4	581.08	3/4	236.84	3/4		3/4		3/4		3/4		3/4	
8	1,606.20	8	1,261.95	8	917.95	8	573.91	8	229.67	8		8		8		8		8	
1/4	1,599.03	1/4	1,254.78	1/4	910.79	1/4	566.74	1/4	222.50	1/4		1/4		1/4		1/4		1/4	
1/2	1,591.86	1/2	1,247.61	1/2	903.63	1/2	559.57	1/2	215.33	1/2		1/2		1/2		1/2		1/2	
3/4	1,584.69	3/4	1,240.44	3/4	896.47	3/4	552.40	3/4	208.15	3/4		3/4		3/4		3/4		3/4	
9	1,577.52	9	1,233.26	9	889.32	9	545.22	9	200.98	9		9		9		9		9	
1/4	1,570.34	1/4	1,226.09	1/4	882.16	1/4	538.05	1/4	193.81	1/4		1/4		1/4		1/4		1/4	
1/2	1,563.17	1/2	1,218.92	1/2	875.00	1/2	530.88	1/2	186.64	1/2		1/2		1/2		1/2		1/2	
3/4	1,556.00	3/4	1,211.75	3/4	867.84	3/4	523.71	3/4	179.47	3/4		3/4		3/4		3/4		3/4	
10	1,548.83	10	1,204.58	10	860.68	10	516.54	10	172.30	10		10		10		10		10	
1/4	1,541.66	1/4	1,197.41	1/4	853.52	1/4	509.37	1/4	165.12	1/4		1/4		1/4		1/4		1/4	
1/2	1,534.48	1/2	1,190.23	1/2	846.36	1/2	502.19	1/2	157.95	1/2		1/2		1/2		1/2		1/2	
3/4	1,527.31	3/4	1,183.06	3/4	839.20	3/4	495.02	3/4	150.78	3/4		3/4		3/4		3/4		3/4	
11	1,520.14	11	1,175.89	11	832.04	11	487.85	11	143.61	11		11		11		11		11	
1/4	1,512.97	1/4	1,168.72	1/4	824.88	1/4	480.68	1/4	136.44	1/4		1/4		1/4		1/4		1/4	
1/2	1,505.80	1/2	1,161.55	1/2	817.73	1/2	473.51	1/2	129.27	1/2		1/2		1/2		1/2		1/2	
3/4	1,498.62	3/4	1,154.37	3/4	810.57	3/4	466.34	3/4	122.10	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/16/2014 CL  
RECALCULATED: 02/07/2014 CL  
PRINTED: 02/07/2014 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2014

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "CTCO 324"

## 3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
			4,391.22		4,224.53		4,052.67		3,869.54		3,678.03		3,353.59		2,990.16		2,626.49		2,263.92
1/4	1/4	1/2	4,388.52	1/2	4,221.08	1/2	4,048.95	1/2	3,865.66	1/2	3,673.96	1/2	3,346.03	1/2	2,982.59	1/2	2,618.91	1/2	2,256.40
3/4	3/4	1	4,385.81	3/4	4,217.63	3/4	4,045.24	3/4	3,861.78	3/4	3,669.88	3/4	3,338.48	3/4	2,975.01	3/4	2,611.33	3/4	2,248.88
1	1	1	4,383.11	1	4,214.17	1	4,041.52	1	3,857.90	1	3,665.81	1	3,330.93	1	2,967.44	1	2,603.75	1	2,241.36
1/4	1/4	1/4	4,380.41	1/4	4,210.72	1/4	4,037.80	1/4	3,854.02	1/4	3,661.73	1/4	3,323.38	1/4	2,959.86	1/4	2,596.16	1/4	2,233.84
1/2	1/2	1/2	4,376.76	1/2	4,207.23	1/2	4,034.06	1/2	3,850.14	1/2	3,657.66	1/2	3,315.81	1/2	2,952.28	1/2	2,588.58	1/2	2,226.31
3/4	3/4	3/4	4,373.10	3/4	4,203.74	3/4	4,030.33	3/4	3,846.26	3/4	3,653.58	3/4	3,308.24	3/4	2,944.71	3/4	2,581.00	3/4	2,218.79
2	2	2	4,369.45	2	4,200.25	2	4,026.59	2	3,842.38	2	3,649.51	2	3,300.67	2	2,937.13	2	2,573.41	2	2,211.27
1/4	1/4	1/4	4,365.80	1/4	4,196.75	1/4	4,022.85	1/4	3,838.50	1/4	3,645.43	1/4	3,293.10	1/4	2,929.56	1/4	2,565.83	1/4	2,203.75
1/2	1/2	1/2	4,361.96	1/2	4,193.24	1/2	4,019.09	1/2	3,834.62	1/2	3,640.04	1/2	3,285.53	1/2	2,921.98	1/2	2,558.25	1/2	2,196.23
3/4	3/4	3/4	4,358.12	3/4	4,189.72	3/4	4,015.34	3/4	3,830.74	3/4	3,634.64	3/4	3,277.96	3/4	2,914.40	3/4	2,550.66	3/4	2,188.71
3	3	3	4,354.27	3	4,186.20	3	4,011.58	3	3,826.86	3	3,629.25	3	3,270.38	3	2,906.83	3	2,543.08	3	2,181.19
1/4	1/4	1/4	4,350.43	1/4	4,182.69	1/4	4,007.82	1/4	3,822.98	1/4	3,623.85	1/4	3,262.81	1/4	2,899.25	1/4	2,535.50	1/4	2,173.67
1/2	1/2	1/2	4,346.59	1/2	4,179.15	1/2	4,004.05	1/2	3,819.10	1/2	3,616.72	1/2	3,255.24	1/2	2,891.68	1/2	2,527.94	1/2	2,166.15
3/4	3/4	3/4	4,342.75	3/4	4,175.61	3/4	4,000.28	3/4	3,815.22	3/4	3,609.59	3/4	3,247.66	3/4	2,884.10	3/4	2,520.39	3/4	2,158.63
4	4	4	4,338.91	4	4,172.07	4	3,996.50	4	3,811.34	4	3,602.46	4	3,240.09	4	2,876.52	4	2,512.83	4	2,151.11
1/4	1/4	1/4	4,335.07	1/4	4,168.53	1/4	3,992.73	1/4	3,807.46	1/4	3,595.33	1/4	3,232.52	1/4	2,868.95	1/4	2,505.28	1/4	2,143.59
1/2	1/2	1/2	4,331.23	1/2	4,164.98	1/2	3,988.93	1/2	3,803.58	1/2	3,587.76	1/2	3,224.94	1/2	2,861.37	1/2	2,497.73	1/2	2,136.07
3/4	3/4	3/4	4,327.39	3/4	4,161.42	3/4	3,985.14	3/4	3,799.70	3/4	3,580.20	3/4	3,217.37	3/4	2,853.80	3/4	2,490.19	3/4	2,128.55
5	5	5	4,323.55	5	4,157.86	5	3,981.35	5	3,795.82	5	3,572.63	5	3,209.80	5	2,846.22	5	2,482.64	5	2,121.03
1/4	1/4	1/4	4,319.71	1/4	4,154.31	1/4	3,977.56	1/4	3,791.94	1/4	3,565.07	1/4	3,202.22	1/4	2,838.64	1/4	2,475.10	1/4	2,113.51
1/2	1/2	1/2	4,316.25	1/2	4,150.73	1/2	3,973.74	1/2	3,788.06	1/2	3,557.51	1/2	3,194.65	1/2	2,831.07	1/2	2,467.55	1/2	2,105.99
3/4	3/4	3/4	4,312.79	3/4	4,147.15	3/4	3,969.93	3/4	3,783.98	3/4	3,549.96	3/4	3,187.08	3/4	2,823.49	3/4	2,460.01	3/4	2,098.47
6	6	6	4,309.33	6	4,143.58	6	3,966.12	6	3,779.91	6	3,542.40	6	3,179.50	6	2,815.92	6	2,452.46	6	2,090.95
1/4	1/4	1/4	4,305.88	1/4	4,140.00	1/4	3,962.30	1/4	3,775.83	1/4	3,534.85	1/4	3,171.93	1/4	2,808.34	1/4	2,444.92	1/4	2,083.43
1/2	1/2	1/2	4,302.53	1/2	4,136.41	1/2	3,958.47	1/2	3,771.76	1/2	3,527.30	1/2	3,164.36	1/2	2,800.76	1/2	2,437.37	1/2	2,076.45
3/4	3/4	3/4	4,299.19	3/4	4,132.82	3/4	3,954.64	3/4	3,767.68	3/4	3,519.74	3/4	3,156.78	3/4	2,793.19	3/4	2,429.83	3/4	2,069.46
7	7	7	4,295.85	7	4,129.22	7	3,950.80	7	3,763.61	7	3,512.19	7	3,149.21	7	2,785.61	7	2,422.29	7	2,062.48
1/4	1/4	1/4	4,292.50	1/4	4,125.63	1/4	3,946.97	1/4	3,759.53	1/4	3,504.64	1/4	3,141.64	1/4	2,778.04	1/4	2,414.74	1/4	2,055.50
1/2	1/2	1/2	4,289.14	1/2	4,122.02	1/2	3,943.12	1/2	3,755.46	1/2	3,497.09	1/2	3,134.06	1/2	2,770.46	1/2	2,407.20	1/2	2,048.70
3/4	3/4	3/4	4,285.78	3/4	4,118.41	3/4	3,939.27	3/4	3,751.38	3/4	3,489.53	3/4	3,126.49	3/4	2,762.88	3/4	2,399.65	3/4	2,041.90
8	8	8	4,282.42	8	4,114.80	8	3,935.42	8	3,747.31	8	3,481.98	8	3,118.92	8	2,755.31	8	2,392.11	8	2,035.10
1/4	1/4	1/4	4,279.06	1/4	4,111.19	1/4	3,931.57	1/4	3,743.23	1/4	3,474.43	1/4	3,111.34	1/4	2,747.73	1/4	2,384.56	1/4	2,028.29
1/2	1/2	1/2	4,275.68	1/2	4,107.56	1/2	3,927.70	1/2	3,739.16	1/2	3,466.88	1/2	3,103.77	1/2	2,740.16	1/2	2,377.02	1/2	2,020.98
3/4	3/4	3/4	4,272.30	3/4	4,103.93	3/4	3,923.83	3/4	3,735.08	3/4	3,459.32	3/4	3,096.20	3/4	2,732.58	3/4	2,369.47	3/4	2,013.66
9	9	9	4,268.92	9	4,100.30	9	3,919.96	9	3,731.01	9	3,451.77	9	3,088.62	9	2,725.00	9	2,361.93	9	2,006.35
1/4	1/4	1/4	4,265.54	1/4	4,096.67	1/4	3,916.09	1/4	3,726.93	1/4	3,444.22	1/4	3,081.05	1/4	2,717.43	1/4	2,354.38	1/4	1,999.03
1/2	1/2	1/2	4,262.14	1/2	4,093.02	1/2	3,912.21	1/2	3,722.86	1/2	3,436.67	1/2	3,073.48	1/2	2,709.85	1/2	2,346.84	1/2	1,991.55
3/4	3/4	3/4	4,258.74	3/4	4,089.37	3/4	3,908.34	3/4	3,718.78	3/4	3,429.11	3/4	3,065.90	3/4	2,702.28	3/4	2,339.29	3/4	1,984.06
10	10	10	4,255.35	10	4,085.73	10	3,904.46	10	3,714.71	10	3,421.56	10	3,058.33	10	2,694.70	10	2,331.75	10	1,976.57
1/4	1/4	1/4	4,251.95	1/4	4,082.08	1/4	3,900.58	1/4	3,710.63	1/4	3,414.01	1/4	3,050.76	1/4	2,687.12	1/4	2,324.20	1/4	1,969.09
1/2	1/2	1/2	4,248.53	1/2	4,078.41	1/2	3,896.70	1/2	3,706.56	1/2	3,406.45	1/2	3,043.18	1/2	2,679.55	1/2	2,316.66	1/2	1,961.60
3/4	3/4	3/4	4,245.11	3/4	4,074.75	3/4	3,892.82	3/4	3,702.48	3/4	3,398.90	3/4	3,035.61	3/4	2,671.97	3/4	2,309.11	3/4	1,954.11
11	11	11	4,241.69	11	4,071.08	11	3,888.94	11	3,698.41	11	3,391.35	11	3,028.04	11	2,664.40	11	2,301.57	11	1,946.63
1/4	1/4	1/4	4,238.28	1/4	4,067.42	1/4	3,885.06	1/4	3,694.33	1/4	3,383.80	1/4	3,020.46	1/4	2,656.82	1/4	2,294.02	1/4	1,939.14
1/2	1/2	1/2	4,234.84	1/2	4,063.73	1/2	3,881.18	1/2	3,690.26	1/2	3,376.24	1/2	3,012.89	1/2	2,649.24	1/2	2,286.50	1/2	1,931.58
3/4	3/4	3/4	4,231.41	3/4	4,060.04	3/4	3,877.30	3/4	3,686.18	3/4	3,368.69	3/4	3,005.31	3/4	2,641.66	3/4	2,278.97	3/4	1,924.02

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092

Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "CTCO 324"

## 3 PORT ULLAGE TABLE HERMETIC GAUGE HEIGHT 15'-03"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,916.46	0	1,552.42	0	1,188.82	0	835.03	0	470.82	0	106.59	0		0		0		0	
1/4	1,908.90	1/4	1,544.83	1/4	1,181.39	1/4	827.50	1/4	463.23	1/4	99.01	1/4		1/4		1/4		1/4	
1/2	1,901.32	1/2	1,537.25	1/2	1,174.02	1/2	819.91	1/2	455.64	1/2	91.44	1/2		1/2		1/2		1/2	
3/4	1,893.73	3/4	1,529.66	3/4	1,166.64	3/4	812.32	3/4	448.05	3/4	83.87	3/4		3/4		3/4		3/4	
1	1,886.15	1	1,522.08	1	1,159.27	1	804.73	1	440.47	1	76.30	1		1		1		1	
1/4	1,878.56	1/4	1,514.49	1/4	1,151.90	1/4	797.14	1/4	432.88	1/4	68.73	1/4		1/4		1/4		1/4	
1/2	1,870.98	1/2	1,506.91	1/2	1,144.53	1/2	789.55	1/2	425.29	1/2	61.85	1/2		1/2		1/2		1/2	
3/4	1,863.39	3/4	1,499.32	3/4	1,137.16	3/4	781.96	3/4	417.70	3/4	54.97	3/4		3/4		3/4		3/4	
2	1,855.81	2	1,491.74	2	1,129.80	2	774.37	2	410.12	2	48.10	2		2		2		2	
1/4	1,848.22	1/4	1,484.15	1/4	1,122.43	1/4	766.79	1/4	402.53	1/4	41.22	1/4		1/4		1/4		1/4	
1/2	1,840.64	1/2	1,476.57	1/2	1,115.07	1/2	759.20	1/2	394.94	1/2	35.99	1/2		1/2		1/2		1/2	
3/4	1,833.05	3/4	1,468.98	3/4	1,107.71	3/4	751.61	3/4	387.35	3/4	30.77	3/4		3/4		3/4		3/4	
3	1,825.47	3	1,461.40	3	1,100.35	3	744.02	3	379.77	3	25.54	3		3		3		3	
1/4	1,817.89	1/4	1,453.81	1/4	1,092.98	1/4	736.43	1/4	372.18	1/4		1/4		1/4		1/4		1/4	
1/2	1,810.30	1/2	1,446.23	1/2	1,085.63	1/2	728.84	1/2	364.59	1/2		1/2		1/2		1/2		1/2	
3/4	1,802.72	3/4	1,438.65	3/4	1,078.27	3/4	721.25	3/4	357.00	3/4		3/4		3/4		3/4		3/4	
4	1,795.13	4	1,431.06	4	1,070.91	4	713.66	4	349.41	4		4		4		4		4	
1/4	1,787.55	1/4	1,423.48	1/4	1,063.56	1/4	706.07	1/4	341.83	1/4		1/4		1/4		1/4		1/4	
1/2	1,779.96	1/2	1,415.89	1/2	1,056.20	1/2	698.48	1/2	334.24	1/2		1/2		1/2		1/2		1/2	
3/4	1,772.38	3/4	1,408.31	3/4	1,048.85	3/4	690.90	3/4	326.65	3/4		3/4		3/4		3/4		3/4	
5	1,764.79	5	1,400.72	5	1,041.49	5	683.31	5	319.06	5		5		5		5		5	
1/4	1,757.21	1/4	1,393.14	1/4	1,034.14	1/4	675.72	1/4	311.48	1/4		1/4		1/4		1/4		1/4	
1/2	1,749.62	1/2	1,385.55	1/2	1,026.78	1/2	668.13	1/2	303.89	1/2		1/2		1/2		1/2		1/2	
3/4	1,742.04	3/4	1,377.97	3/4	1,019.43	3/4	660.54	3/4	296.30	3/4		3/4		3/4		3/4		3/4	
6	1,734.45	6	1,370.38	6	1,012.07	6	652.95	6	288.71	6		6		6		6		6	
1/4	1,726.87	1/4	1,362.80	1/4	1,004.72	1/4	645.36	1/4	281.13	1/4		1/4		1/4		1/4		1/4	
1/2	1,719.28	1/2	1,355.21	1/2	997.36	1/2	637.77	1/2	273.54	1/2		1/2		1/2		1/2		1/2	
3/4	1,711.70	3/4	1,347.63	3/4	990.01	3/4	630.18	3/4	265.95	3/4		3/4		3/4		3/4		3/4	
7	1,704.11	7	1,340.04	7	982.65	7	622.59	7	258.36	7		7		7		7		7	
1/4	1,696.53	1/4	1,332.46	1/4	975.30	1/4	615.01	1/4	250.78	1/4		1/4		1/4		1/4		1/4	
1/2	1,688.94	1/2	1,324.87	1/2	967.94	1/2	607.42	1/2	243.19	1/2		1/2		1/2		1/2		1/2	
3/4	1,681.36	3/4	1,317.29	3/4	960.59	3/4	599.83	3/4	235.60	3/4		3/4		3/4		3/4		3/4	
8	1,673.77	8	1,309.70	8	953.23	8	592.24	8	228.01	8		8		8		8		8	
1/4	1,666.19	1/4	1,302.12	1/4	945.88	1/4	584.65	1/4	220.42	1/4		1/4		1/4		1/4		1/4	
1/2	1,658.60	1/2	1,294.53	1/2	938.52	1/2	577.06	1/2	212.83	1/2		1/2		1/2		1/2		1/2	
3/4	1,651.02	3/4	1,286.95	3/4	931.17	3/4	569.47	3/4	205.24	3/4		3/4		3/4		3/4		3/4	
9	1,643.43	9	1,279.36	9	923.81	9	561.88	9	197.65	9		9		9		9		9	
1/4	1,635.85	1/4	1,271.78	1/4	916.46	1/4	554.29	1/4	190.07	1/4		1/4		1/4		1/4		1/4	
1/2	1,628.27	1/2	1,264.19	1/2	909.10	1/2	546.70	1/2	182.48	1/2		1/2		1/2		1/2		1/2	
3/4	1,620.68	3/4	1,256.61	3/4	901.75	3/4	539.12	3/4	174.89	3/4		3/4		3/4		3/4		3/4	
10	1,613.10	10	1,249.03	10	894.39	10	531.53	10	167.30	10		10		10		10		10	
1/4	1,605.51	1/4	1,241.44	1/4	887.04	1/4	523.94	1/4	159.71	1/4		1/4		1/4		1/4		1/4	
1/2	1,597.93	1/2	1,233.86	1/2	879.68	1/2	516.35	1/2	152.12	1/2		1/2		1/2		1/2		1/2	
3/4	1,590.34	3/4	1,226.27	3/4	872.33	3/4	508.76	3/4	144.53	3/4		3/4		3/4		3/4		3/4	
11	1,582.76	11	1,218.69	11	864.97	11	501.17	11	136.94	11		11		11		11		11	
1/4	1,575.17	1/4	1,211.10	1/4	857.62	1/4	493.58	1/4	129.35	1/4		1/4		1/4		1/4		1/4	
1/2	1,567.59	1/2	1,203.67	1/2	850.09	1/2	485.99	1/2	121.76	1/2		1/2		1/2		1/2		1/2	
3/4	1,560.00	3/4	1,196.25	3/4	842.56	3/4	478.41	3/4	114.18	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/16/2014 CL  
RECALCULATED: 02/07/2014 CL  
PRINTED: 02/07/2014 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2014

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "CTCO 324"

## 3 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092

Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "CTCO 324"

**3 STBD**  
**ULLAGE TABLE**  
**HERMETIC**  
**GAUGE HEIGHT 15'-03"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,928.38	0	1,563.89	0	1,199.39	0	835.44	0	470.96	0	106.50	0		0		0		0	
1/4	1,920.80	1/4	1,556.30	1/4	1,191.80	1/4	827.85	1/4	463.37	1/4	98.92	1/4		1/4		1/4		1/4	
1/2	1,913.20	1/2	1,548.70	1/2	1,184.21	1/2	820.26	1/2	455.77	1/2	91.35	1/2		1/2		1/2		1/2	
3/4	1,905.61	3/4	1,541.11	3/4	1,176.61	3/4	812.67	3/4	448.18	3/4	83.79	3/4		3/4		3/4		3/4	
1	1,898.01	1	1,533.52	1	1,169.02	1	805.07	1	440.59	1	76.23	1		1		1		1	
1/4	1,890.42	1/4	1,525.92	1/4	1,161.43	1/4	797.48	1/4	432.99	1/4	68.66	1/4		1/4		1/4		1/4	
1/2	1,882.83	1/2	1,518.33	1/2	1,153.84	1/2	789.89	1/2	425.40	1/2	61.79	1/2		1/2		1/2		1/2	
3/4	1,875.23	3/4	1,510.74	3/4	1,146.25	3/4	782.29	3/4	417.81	3/4	54.92	3/4		3/4		3/4		3/4	
2	1,867.64	2	1,503.14	2	1,138.66	2	774.70	2	410.21	2	48.05	2		2		2		2	
1/4	1,860.05	1/4	1,495.55	1/4	1,131.07	1/4	767.11	1/4	402.62	1/4	41.18	1/4		1/4		1/4		1/4	
1/2	1,852.45	1/2	1,487.95	1/2	1,123.49	1/2	759.51	1/2	395.03	1/2	35.96	1/2		1/2		1/2		1/2	
3/4	1,844.86	3/4	1,480.36	3/4	1,115.90	3/4	751.92	3/4	387.43	3/4	30.74	3/4		3/4		3/4		3/4	
3	1,837.26	3	1,472.77	3	1,108.32	3	744.33	3	379.84	3	25.52	3		3		3		3	
1/4	1,829.67	1/4	1,465.17	1/4	1,100.73	1/4	736.73	1/4	372.24	1/4		1/4		1/4		1/4		1/4	
1/2	1,822.08	1/2	1,457.58	1/2	1,093.15	1/2	729.14	1/2	364.65	1/2		1/2		1/2		1/2		1/2	
3/4	1,814.48	3/4	1,449.99	3/4	1,085.57	3/4	721.55	3/4	357.06	3/4		3/4		3/4		3/4		3/4	
4	1,806.89	4	1,442.39	4	1,077.99	4	713.95	4	349.46	4		4		4		4		4	
1/4	1,799.30	1/4	1,434.80	1/4	1,070.41	1/4	706.36	1/4	341.87	1/4		1/4		1/4		1/4		1/4	
1/2	1,791.70	1/2	1,427.21	1/2	1,062.83	1/2	698.77	1/2	334.28	1/2		1/2		1/2		1/2		1/2	
3/4	1,784.11	3/4	1,419.61	3/4	1,055.25	3/4	691.17	3/4	326.68	3/4		3/4		3/4		3/4		3/4	
5	1,776.52	5	1,412.02	5	1,047.67	5	683.58	5	319.09	5		5		5		5		5	
1/4	1,768.92	1/4	1,404.42	1/4	1,040.10	1/4	675.98	1/4	311.50	1/4		1/4		1/4		1/4		1/4	
1/2	1,761.33	1/2	1,396.83	1/2	1,032.52	1/2	668.39	1/2	303.90	1/2		1/2		1/2		1/2		1/2	
3/4	1,753.73	3/4	1,389.24	3/4	1,024.94	3/4	660.80	3/4	296.31	3/4		3/4		3/4		3/4		3/4	
6	1,746.14	6	1,381.64	6	1,017.36	6	653.20	6	288.72	6		6		6		6		6	
1/4	1,738.55	1/4	1,374.05	1/4	1,009.78	1/4	645.61	1/4	281.12	1/4		1/4		1/4		1/4		1/4	
1/2	1,730.95	1/2	1,366.46	1/2	1,002.20	1/2	638.02	1/2	273.53	1/2		1/2		1/2		1/2		1/2	
3/4	1,723.36	3/4	1,358.86	3/4	994.63	3/4	630.42	3/4	265.94	3/4		3/4		3/4		3/4		3/4	
7	1,715.77	7	1,351.27	7	987.05	7	622.83	7	258.34	7		7		7		7		7	
1/4	1,708.17	1/4	1,343.67	1/4	979.47	1/4	615.24	1/4	250.75	1/4		1/4		1/4		1/4		1/4	
1/2	1,700.58	1/2	1,336.08	1/2	971.89	1/2	607.64	1/2	243.16	1/2		1/2		1/2		1/2		1/2	
3/4	1,692.98	3/4	1,328.49	3/4	964.31	3/4	600.05	3/4	235.56	3/4		3/4		3/4		3/4		3/4	
8	1,685.39	8	1,320.89	8	956.73	8	592.46	8	227.97	8		8		8		8		8	
1/4	1,677.80	1/4	1,313.30	1/4	949.15	1/4	584.86	1/4	220.37	1/4		1/4		1/4		1/4		1/4	
1/2	1,670.20	1/2	1,305.71	1/2	941.58	1/2	577.27	1/2	212.78	1/2		1/2		1/2		1/2		1/2	
3/4	1,662.61	3/4	1,298.11	3/4	934.00	3/4	569.68	3/4	205.19	3/4		3/4		3/4		3/4		3/4	
9	1,655.02	9	1,290.52	9	926.42	9	562.08	9	197.59	9		9		9		9		9	
1/4	1,647.42	1/4	1,282.92	1/4	918.84	1/4	554.49	1/4	190.00	1/4		1/4		1/4		1/4		1/4	
1/2	1,639.83	1/2	1,275.33	1/2	911.26	1/2	546.90	1/2	182.41	1/2		1/2		1/2		1/2		1/2	
3/4	1,632.23	3/4	1,267.74	3/4	903.68	3/4	539.30	3/4	174.81	3/4		3/4		3/4		3/4		3/4	
10	1,624.64	10	1,260.14	10	896.11	10	531.71	10	167.22	10		10		10		10		10	
1/4	1,617.05	1/4	1,252.55	1/4	888.53	1/4	524.11	1/4	159.63	1/4		1/4		1/4		1/4		1/4	
1/2	1,609.45	1/2	1,244.96	1/2	880.95	1/2	516.52	1/2	152.03	1/2		1/2		1/2		1/2		1/2	
3/4	1,601.86	3/4	1,237.36	3/4	873.37	3/4	508.93	3/4	144.44	3/4		3/4		3/4		3/4		3/4	
11	1,594.27	11	1,229.77	11	865.79	11	501.33	11	136.85	11		11		11		11		11	
1/4	1,586.67	1/4	1,222.18	1/4	858.21	1/4	493.74	1/4	129.26	1/4		1/4		1/4		1/4		1/4	
1/2	1,579.08	1/2	1,214.58	1/2	850.62	1/2	486.15	1/2	121.67	1/2		1/2		1/2		1/2		1/2	
3/4	1,571.49	3/4	1,206.99	3/4	843.03	3/4	478.55	3/4	114.09	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/16/2014 CL  
 RECALCULATED: 02/07/2014 CL  
 PRINTED: 02/07/2014 CL

CANCELS AND SUPERCEDES  
 ALL PRIOR TO 02/2014

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