



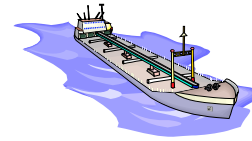
Conversion Reference Table

Volume Conversion

	Barrels (bbl)	US Gallons	UK Gallons	Cubic Feet	Liters	Cubic Meters
Standard Barrel of Oil	1	42	35	5.6146	158.99	0.1590
Standard Large Truck Tanker Size 30 to 46 MT	280	11,760	9,792	1,572	44,516	45
B-Double Truck Tanker Size 44 to 67 MT	400	16,800	13,989	2,246	63,595	64
Standard Railcar Tanker Size 75 to 120 MT	715	30,030	25,005	4,014	113,676	114
One-Thousand Standard Barrels of Oil	1,000	42,000	34,972	5,615	158,987	159
One-Hundred-Thousand Standard Barrels of Oil	100,000	4,200,000	3,497,232	561,458	15,898,729	15,899
General Purpose (GP) 16,500 to 24,999 MT	150,000	6,300,000	5,245,847	842,188	23,848,094	23,848
Medium Range (MR) 25,000 to 44,999 MT	275,000	11,550,000	9,617,387	1,544,010	43,721,506	43,722
50,000 MT	314,491	13,208,603	10,998,462	1,765,733	50,000,000	50,000
Large/Long Range1 (LR1) 45,000 to 79,999 MT	500,000	21,000,000	17,486,158	2,807,292	79,493,647	79,494
Aframax Tanker 75,000 to 110,000 MT	650,000	27,300,000	22,732,005	3,649,479	103,341,742	103,342
Suezmax Tanker 110,000 to 150,000 MT	900,000	37,800,000	31,475,084	5,053,125	143,088,565	143,089
Large/Long Range2 (LR2) 80,000 to 159,999 MT	1,000,000	42,000,000	34,972,316	5,614,583	158,987,295	158,987
Very Large Crude Carrier (VLCC) 160,000 to 319,999 MT	2,000,000	84,000,000	69,944,632	11,229,167	317,974,590	317,975
Ultra Large Crude Carrier (ULCC) 320,000 to 549,000 MT	3,400,000	142,800,000	118,905,874	19,089,583	540,556,803	540,557

Weight Conversion

Unit	Kilograms	Pounds
One Kilogram	1	2.2046
Metric Ton	1,000	2,205
Short Ton	907	2,000
Long Ton	1,016	2,240



Density and Mass Conversion

Unit	Kilograms	Metric Tons	Pounds	Short Tons	Long Tons
One ft ³ Water	28.3169	0.0283	62.4280	0.0312	0.0279
One M ³ Water	1,000	1.0000	2,205	1.1023	0.9842
One bbl Water	159	0.1590	351	0.1753	0.1565
280 bbls Water	44,516	45	98,142	49	44
400 bbls Water	63,595	64	140,203	70	63
715 bbls Water	113,676	114	250,612	125	112
One-Thousand bbls Water	158,987	159	350,507	175	156
One-Hundred-Thousand bbls Water	15,898,729	15,899	35,050,699	17,525	15,648
One-Million bbls Water	158,987,295	158,987	350,506,987	175,253	156,476
1.5 Million bbls Water	238,480,942	238,481	525,760,480	262,880	234,715
2.0 Million bbls Water	317,974,590	317,975	701,013,974	350,507	312,953
3.0 Million bbls Water	476,961,885	476,962	1,051,520,961	525,760	469,429
Enter API of Oil =		38.00	0.8348 Brent		
Standard Truck Tanker 38 API Oil	37,163	37	81,930	41	37
B-Double Truck Tanker 38 API Oil	53,090	53	117,042	59	52
Standard Railcar Tanker 38 API Oil	94,898	95	209,213	105	93
One-Thousand bbls 38 API Oil	132,724	133	292,606	146	131
One-Hundred-Thousand bbls 38 API Oil	13,272,391	13,272	29,260,613	14,630	13,063
One-Million bbls 38 API Oil	132,723,907	132,724	292,606,128	146,303	130,628
1.5 Million bbls 38 API Oil	199,085,860	199,086	438,909,192	219,455	195,942
2.0 Million bbls 38 API Oil	265,447,814	265,448	585,212,256	292,606	261,255
3.0 Million bbls 38 API Oil	398,171,721	398,172	877,818,383	438,909	391,883
Specific Gravity of Oil = Density of Oil / Density of Water					
API Gravity = [141.5 / Specific Gravity of Oil] - 131.5					

	Crude Oil Names	API	Spec Gravity	est. bbls/MT
Medium Crude Oil	Bitumen (Canadian Oil Sands)	10.00	1.0000	6.2898
	Tijuana Heavy Oil	12.50	0.9826	6.4009
	Indonesia Duri Heavy Oil	20.00	0.9340	6.7343
	Mexico Maya	22.00	0.9218	6.8232
	China Shengli	23.00	0.9159	6.8677
	Venezuela Leona	24.00	0.9100	6.9121
	Egypt Ras Gharib	25.00	0.9042	6.9566
	Bonny Medium	26.00	0.8984	7.0010
	Saudi Heavy	27.00	0.8927	7.0455
	Khafji	28.00	0.8871	7.0899
Light Crude Oil	Saudi Medium	29.00	0.8816	7.1344
	Gabon Mandji	30.00	0.8762	7.1788
	Iran Heavy, Kuwait	31.00	0.8708	7.2233
	Dubai Fateh	32.00	0.8654	7.2677
	Labuan, Urals	33.00	0.8602	7.3122
	West Texas, Iran Light, Saudi Light, Iraq Basrah	34.00	0.8550	7.3566
	Qatar Marine	35.00	0.8498	7.4011
	Iraq Kirkuk, Libya (Sarir, Amna)	36.00	0.8448	7.4455
	Libya EsSider, Bonny Light, Dubai Umm Shaif	37.00	0.8398	7.4900
	Brent	38.00	0.8348	7.5344
Condensate	Saudi Berri, Dubai Murban	39.00	0.8299	7.5789
	Libya (Brega, Buattifel), Dubai Zakum	40.00	0.8251	7.6233
	Libya (Zueitina, Sirtica)	41.00	0.8203	7.6678
	Qatar Land	42.00	0.8156	7.7122
	Nigeria Brass River Blend	43.00	0.8109	7.7567
	Algeria Saharan Blend	44.00	0.8063	7.8011
	Egypt Attaka	45.00	0.8017	7.8456
	Malaysia Tapis	46.00	0.7972	7.8900
	Saudi Super Light	48.00	0.7883	7.9789
	Australia Gippsland	49.00	0.7839	8.0234
	Indonesia Arun Condensate	54.00	0.7628	8.2457

