

Standard conversion factors

1 tonne of oil equivalent (toe) = 10^7 kilocalories
 = 396.83 therms
 = 41.868 GJ
 = 11,630 kWh

1 therm = 100,000 British thermal units (Btu)

The following prefixes are used for multiples of joules, watts and watt hours:

kilo (k)	= 1,000	or 10^3
mega (M)	= 1,000,000	or 10^6
giga (G)	= 1,000,000,000	or 10^9
tera (T)	= 1,000,000,000,000	or 10^{12}
peta (P)	= 1,000,000,000,000,000	or 10^{15}

WEIGHT 1 kilogramme (kg) = 2.2046 pounds (lb) VOLUME 1 cubic metre (cu m) = 35.31 cu ft

1 pound (lb)	= 0.4536 kg	1 cubic foot (cu ft)	= 0.02832 cu m
1 tonne (t)	= 1,000 kg	1 litre	= 0.22 Imperial gallon (UK gal.)
	= 0.9842 long ton		= 8 UK pints
	= 1.102 short ton (sh tn)	1 UK gallon	= 1.201 U.S. gallons
1 Statute or long ton (US gal)	= 2,240 lb		
	= 1.016 t		= 4.54609 litres
	= 1.120 sh tn	1 barrel	= 159.0 litres
			= 34.97 UK gal
			= 42 US gal

LENGTH 1 mile = 1.6093 kilometres
 1 kilometre (km) = 0.62137 miles

TEMPERATURE 1 scale degree Celsius (C) = 1.8 scale degrees Fahrenheit (F)
 For conversion of temperatures: $^{\circ}\text{C} = 5/9 (^{\circ}\text{F} - 32)$; $^{\circ}\text{F} = 9/5 ^{\circ}\text{C} + 32$

Average conversion factors for petroleum

	Imperial gallons per tonne	Litres per tonne		Imperial gallons per tonne	Litres per tonne
Crude oil:			Gas/diesel oil:		
Indigenous	264	1,199	Gas oil	257	1,167
Imported	260	1,181	Marine diesel oil	253	1,150
Average of refining throughput	262	1,192			
			Fuel oil:		
Ethane	601	2,730	All grades	222	1,021
Propane	433	1,973	Light fuel oil:		
Butane	381	1,737	1% or less sulphur	237	1,071
Naphtha (l.d.f.)	322	1,447	>1% sulphur	232	1,071
			Medium fuel oil:		
Aviation gasoline	308	1,395	1% or less sulphur	237	1,079
			>1% sulphur	225	1,028
Motor spirit:			Heavy fuel oil:		
All grades	299	1,359	1% or less sulphur	226	1,015
Unleaded Super	292	1,345	>1% sulphur	222	1,008
Premium	299	1,359			
Ultra low sulphur petrol	297	1,359	Lubricating oils:		
Leaded Premium	300	1,359	White	249	1,133
Lead replacement petrol	300	1,345	Greases	245	1,153
			Other	249	1,156
Middle distillate feedstock	286	1,165	Bitumen	214	985
Kerosene:			Petroleum coke	185	843
Aviation turbine fuel	275	1,246	Petroleum waxes	261	1,187
Burning oil	274	1,246	Industrial spirit	302	1,247
			White spirit	278	1,281
DERV fuel: all	260	1,201			
0.005% or less sulphur	260	1,202			
>0.005% sulphur	264	1,187			

Note: The above conversion factors, which for refined products have been compiled by the UK Petroleum Industry Association, apply to the year 2001, and are only approximate for other years.