



 **ULTIMHEAT[®] UNIVERSITY** 



Université Ultimheat

Tableau de la chaleur spécifique des liquides

Table of liquids specific heat

J.Jumeau
20100424





Tableau de la chaleur spécifique des liquides Table of liquids specific heat



Specific heat (c_p) and density (ρ) of main liquids

Liquids	Specific heat (c_p)			Density (ρ)	
	SI	British/US	Metric	SI	British/US
	kJ/(kg °C)	Btu/(lb _m °F)	kcal/(kg °C)	kg/m ³	Lb/ft ³
Acetic acid	2.18	0.51	0.51	1048	65,4
Alcohol, ethyl, 95% @ 0°C (32°F) (ethanol)	2.3	0.55	0.55	807	50,4
Ammonia, @ 40°C (104°F)	4.86	1.16	1.16	767	47,9
Dowtherm heat transfer fluid @ 50°C (120F)	1.55	0.37	0.37	944	58,9
Ethylene glycol 25% by volume /water, @70°C (160F)	3.93 3.93	0.94	0.94	1018	63,5
Ethylene glycol 30% by volume /water, @ 70°C (160F)	3.87	0.925	0.925	1025	64,0
Ethylene glycol 40% by volume /water, @ 70°C (160F)	3.73	0.89	0.89	1038	64,8
Ethylene glycol/water, 50% by volume @ 70°C (160F)	3.56	0.85	0.85	1050	65,5
Ethylene glycol, pure	2.36	0.56	0.56	1120	69,9
Freon R-12 saturated @ 50°C (120F)	1.02	0.244	0.244	1310	81,8
Fuel Oil min.	1.67	0.4	0.4	809	50,5
Fuel Oil max.	2.09	0.5	0.5	944	58,9
Gasoline	2.22	0.53	0.53	673	42,0
Glycerine	2.43	0.58	0.58	1261	78,7
Kerosene	2.01	0.48	0.48	809	50,5
Milk	3.93	0.94	0.94	1028	64,2
Oil, vegetable	1.67	0.4	0.4	921	57,5
Olive oil	1.97	0.47	0.47	929	58,0
Paraffin	2.13	0.51	0.51	897	56,0
Soya bean oil	1.97	0.47	0.47	920	57,4
Water, fresh	4.19	1	1	1000	62,4
Water, sea @ 2°C (36°F)	3.93	0.94	0.94	1028	64,2