

Table 1—Système International (SI) units for plasma, serum, or blood concentrations

MEASUREMENT	CONVENTIONAL UNIT	CONVERSION FACTOR	SI UNIT	SIGNIFICANT DIGITS	SUGGESTED MINIMUM INCREMENTS
ACETOACETATE	MG/DL	97.95	μMOL/L	XXO	10 μMOL/L
ACETONE	MG/DL	172.2	μMOL/L	XXO	10 μMOL/L
ADRENOCORTICOTROPIN	PG/ML	0.2202	PMOL/L	XX	1 PMOL/L
ALDOSTERONE	NG/DL	27.74	PMOL/L	XXO	10 PMOL/L
AMINO ACIDS					
ALANINE	MG/DL	112.2	μMOL/L	XXX	5 μMOL/L
α-AMINOBUTYRIC ACID	MG/DL	96.97	μMOL/L	XXX	5 μMOL/L
ARGININE	MG/DL	57.40	μMOL/L	XXX	5 μMOL/L
ASPARAGINE	MG/DL	75.69	μMOL/L	XXX	5 μMOL/L
ASPARTIC ACID	MG/DL	75.13	μMOL/L		5 μMOL/L
CITRULLINE	MG/DL	57.08	μMOL/L	XXX	5 μMOL/L
CYSTINE	MG/DL	41.61	μMOL/L	XXX	5 μMOL/L
GLUTAMIC ACID	MG/DL	67.97	μMOL/L	XXX	5 μMOL/L
GLUTAMINE	MG/DL	68.42	μMOL/L	XXX	5 μMOL/L
GLYCINE	MG/DL	133.2	μMOL/L	XXX	5 μMOL/L
HISTIDINE	MG/DL	64.45	μMOL/L	XXX	5 μMOL/L
HYDROXYPROLINE	MG/DL	76.26	μMOL/L	XXX	5 μMOL/L
ISOLEUCINE	MG/DL	76.24	μMOL/L	XXX	5 μMOL/L
LEUCINE	MG/DL	76.24	μMOL/L	XXX	5 μMOL/L
LYSINE	MG/DL	68.40	μMOL/L	XXX	5 μMOL/L
METHIONINE	MG/DL	67.02	μMOL/L	XXX	5 μMOL/L
ORNITHINE	MG/DL	75.67	μMOL/L	XXX	5 μMOL/L
PHENYLALANINE	MG/DL	60.54	μMOL/L	XXX	5 μMOL/L
PROLINE	MG/DL	86.86	μMOL/L	XXX	5 μMOL/L
SERINE	MG/DL	95.16	μMOL/L	XXX	5 μMOL/L
TAURINE	MG/DL	79.91	μMOL/L	XXX	5 μMOL/L
THREONINE	MG/DL	83.95	μMOL/L	XXX	5 μMOL/L
TRYPTOPHAN	MG/DL	48.97	μMOL/L	XXX	5 μMOL/L
TYROSINE	MG/DL	55.19	μMOL/L	XXX	5 μMOL/L
VALINE	MG/DL	85.36	μMOL/L	XXX	5 μMOL/L
AMINO ACID NITROGEN	MG/DL	0.7139	MMOL/L	X.X	0.1 MMOL/L
AMYLASE	U/L	1.0	U/L	XXO	10 U/L
ANDROSTENEDIONE	μG/L	3.492	NMOL/L	XX.X	0.5 NMOL/L
CALCITONIN	PG/ML	1.0	NG/L	XXO	10 NG/L
CALCIUM	MG/DL	0.2495	MMOL/L	X.XX	0.02 MMOL/L
CALCIUM ION	MEQ/L	0.500	MMOL/L	X.XX	0.01 MMOL/L
CARBON DIOXIDE CONTENT	MEQ/L	1.00	NMOL/L	XX	1 MMOL/L
CHOLESTEROL	MG/DL	0.02586	MMOL/L	X.XX	0.05 MMOL/L
CITRATE (AS CITRIC ACID)	MG/DL	52.05	μMOL/L	XXX	5 μMOL/L
CORTISOL	μG/DL	27.59	NMOL/L	XXO	10 NMOL/L
C-PEPTIDE	NG/ML	0.331	NMOL/L	X.XX	0.01 NMOL/L
CREATININE	MG/DL	88.40	μMOL/L	XXO	10 μMOL/L
CREATININE CLEARANCE	ML/MIN	0.01667	ML/S	X.XX	0.02 ML/S
CYCLIC AMP	μG/L	3.038	NMOL/L	XXX	1 NMOL/L
CYCLIC GMP	μG/L	2.897	NMOL/L	XX.X	0.1 NMOL/L
DEHYDROEPIANDROSTERONE	μG/L	3.467	NMOL/L	XX.X	0.2 NMOL/L
DEHYDROEPIANDROSTERONE SULFATE	NG/ML	0.002714	μMOL/L	XX.X	0.1 μMOL/L
11-DEOXYCORTISOL	μG/DL	28.86	NMOL/L	XXO	10 NMOL/L
EPINEPHRINE	PG/ML	5.458	PMOL/L	XXO	10 PMOL/L
ESTRADIOL	PG/ML	3.671	PMOL/L	XXX	1 PMOL/L

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Table 1—Continued

MEASUREMENT	CONVENTIONAL UNIT	CONVERSION FACTOR	SI UNIT	SIGNIFICANT DIGITS	SUGGESTED MINIMUM INCREMENTS
ESTRONE	PG/ML	3.699	PMOL/L	XXX	5 PMOL/L
FATTY ACIDS, NONESTERIFIED	MG/DL	0.01	G/L	X.XX	0.01 G/L
FOLLICLE-STIMULATING HORMONE	MIU/ML	1.00	IU/L	XX	1 IU/L
FRUCTOSE	MG/DL	0.05551	MMOL/L	X.XX	0.1 MMOL/L
GALACTOSE	MG/DL	0.05551	MMOL/L	X.XX	0.1 MMOL/L
GASES					
PO ₂	MMHG	0.1333	KPA	XX.X	0.1 KPA
PCO ₂	MMHG	0.1333kPA	XX	0.1 KPA	
GASTRIN	PG/ML	1.0	NG/L	XXO	10 NG/L
GASTROINHIBITORY POLYPEPTIDE	PG/ML	0.201	PMOL/L	XXO	10 PMOL/L
GLUCAGON	PG/ML	1.0	NG/L	XXO	10 NG/L
GLUCOSE	MG/DL	0.05551	MMOL/L	XX.X	0.1 MMOL/L
GLYCEROL, FREE	MG/DL	0.1086	MMOL/L	X.XX	0.01 MMOL/L
GROWTH HORMONE	NG/ML	1.0	μG/L	XX.X	0.5 μG/L
β-HYDROXYBUTYRATE (AS β-HYDROXYBUTYRIC ACID)	MG/DL	96.05	μMOL/L	XXO	10 μMOL/L
17A-HYDROXYPROGESTERONE	μG/L	3.026	NMOL/L	XX.X	0.5 NMOL/L
INSULIN	μU/ML	6.0	PMOL/L	XXX	5 PMOL/L
LACTATE (AS LACTIC ACID)	MEQ/L	1.0	MMOL/L	XX	0.1 MMOL/L
LIPASE	U/L	1.0	U/L	XXX	1 U/L
LIPOPROTEINS					
LDL (AS CHOLESTEROL)	MG/DL	0.02586	MMOL/L	X.XX	0.05 MMOL/L
HDL (AS CHOLESTEROL)	MG/DL	0.02586	MMOL/L	XXX	0.05 MMOL/L
LUTEINIZING HORMONE	MIU/ML	1.0	IU/L	X.XX	1 IU/L
NOREPINEPHRINE	PG/ML	0.005911	NMOL/L	XXX	0.01 NMOL/L
OSMOLALITY	MOSM/KG	1.0	MMOL/KG	XX	1 MMOL/K
PANCREATIC POLYPEPTIDE	PG/ML	0.239	PMOL/L		1 PMOL/L
PHOSPHATE (AS INORGANIC PHOSPHORUS)				X.XX	
	MG/DL	0.3229	MMOL/L	X.XX	0.05 MMOL/L
PHOSPHOLIPID PHOSPHORUS	MG/DL	0.3229	MMOL/L	XX	0.05 MMOL/L
PROGESTERONE	NG/ML	3.180	NMOL/L	XX	2 NMOL/L
PROLACTIN	NG/ML	1.0	μG/L	XX	1 μG/L
PROTEIN, TOTAL	G/DL	10.0	G/L	XX	1 G/L
PYRUVATE (AS PYRUVIC ACID)	MG/DL	113.6	μMOL/L	XXX	1 μMOL/L
RENIN	NG · ML ⁻¹ · H ⁻¹	0.2778	NG · L ⁻¹ · S ⁻¹	X.XX	0.02 NG · L ⁻¹ · S ⁻¹
SEROTONIN	μG/DL	0.05675	μMOL/L	X.XX	0.05 μMOL/L
SOMATOSTATIN	PG/ML	0.611	PMOL/L	XX	1 PMOL/L
TESTOSTERONE	NG/ML	3.467	NMOL/L	XX.X	0.5 NMOL/L
THYROID-STIMULATING HORMONE	μU/DL	1.0	MU/L	XX	0.1 MU/L
THYROXINE	μG/DL	12.87	NMOL/L	XXX	1 NMOL/L
TRIODOTHYRONINE	NG/DL	0.01536	NMOL/L	XX	0.1 NMOL/L
UREA NITROGEN	MG/DL	0.3570	MMOL/L	XX	0.5 MMOL/L
VASOACTIVE INTESTINAL POLYPEPTIDE	PG/ML	0.331	PMOL/L	XX	1 PMOL/L

From Young DS: *Ann Intern Med* 106:114–29, 1987.