Normal values of all blood components

The International System of Units, known by the international abbreviation in all languages, and it has term = **SI**.

References values

Test	Male	Female	Unite
Total WBC	**4.0-11.0**		**$\times 10^9$ /L**
Lymphocyte	**1.0 - 3.0**		**$\times 10^9$ / L**
Monocyte	**0.2 - 1.0**		**$\times 10^9$ / L**
Basophile	**0.02 – 0.1**		**$\times 10^9$ / L**
Neutrophil	**2.0 – 7.0**		**$\times 10^9$ / L**
Eosinophil	**0.02 – 0.5**		**$\times 10^9$ / L**
Packed cell volume (pcv) hematocrite	**0.40 – 0.54**	**0.37 – 0.47**	**%**
Platelates count	**150000- 240000**		**Per mm^3**
Rbc count	**4.5 - 6.5**	**3.8 - 5.8**	**$\times 10^{12}$ /L**
Reticulocyte (adult)	**25 – 85**		**$\times 10^9$ / L**
Hemoglobin	**13 – 18**	**11.5 – 16.5**	**g/dL**
Transferrin	**0.2 – 0.4**		**g/dL**
Haptoglobin	**0.02 – 0.24**		**g/dL**
B12	**241 - 900**		**ng/L**
Folate	**5 – 20**		**ng/L**
Ferritin	**20 -300**	**14 -150**	**ng/mL**
Iron	**56 – 178**		**µg/dL**
Mean corpuscular volume (mcv)	**78 – 98**		**fL**
Mean corpuscular hemoglobin (mch)	**27 – 32**		**Pg**
Mean corpuscular hemoglobin concentration (mchc)	**32 – 36**		**gm/dL**
Red distribution width (rdw)	**10 – 15**		**%**
Blood volume	**75 ± 10**	**70 ± 10**	**ml/kg**
Erythrocyte sedimentation rate (ESR)	**0 – 10**	**3 - 15**	**mm/hr**
Bleeding time	**< 8**		**minutes**
Prothrombin time	**10.5 – 13.5**		**Second**
Partial thromboplastin time	**26 - 36**		**Second**

Units abbreviations

dl= deciliters	min = minutes
fg = femtogram	mlu = milli international units
fl = femtoliter	ml = milliliters
g = grams	mm3 = cubic milliliters
hr = hour	mmol = millimoles
IU = international units	mOsm = milliosmoles
kg = kilograms	Neg = negative
l = liters	ng = nanograms
mclu = micro international units	nm/mg Pr = nonomoles 1/2 cystine/milligram protein
mceq = microequivalents	pg = picograms
mcu = micro units	pos = positive
mcg = micrograms	sec = seconds
mcl = microliters	TAT = turn around time
mcmol = micromoles	u = units
mEq = milliequivalents	ug/gcr = ug per gram of creatinine
mg = milligrams	

1 Milli liter (mL) 10^{-3} L 0.001
1 Micro liter (µL) 10^{-6} L 0.00001
1 Nano liter (nL) 10^{-9} L 0.00000001
1 Pico liter (PL) 10^{-12} L 0.00000000001
1 femtoliter (FL) 10^{-15}L 0.0000000000001

References:

1- Adapted from Centers for Disease Control and Prevention *Laboratory Procedure Manual* http://www.cdc.gov/nchs/data/nhanes/nhanes_05_06/cbc_d_met.pdf Rev. 11-2010.
2- Walsh, M., & Wener, M. (2006). Laboratory procedure manual. *Natl Health Nutr Exam Survey*.