

## NGSP – IFCC HbA1c: %HbA1c ↔ mmol/mol

NGSP	↔	IFCC	NGSP	↔	IFCC	NGSP	↔	IFCC	NGSP	↔	IFCC	NGSP	↔	IFCC
% HbA1c	↔	mmol/mol	% HbA1c	↔	mmol/mol	% HbA1c	↔	mmol/mol	% HbA1c	↔	mmol/mol	% HbA1c	↔	mmol/mol
4.0	↔	20	5.8	↔	40	7.6	↔	60	9.4	↔	79	11.2	↔	99
4.1	↔	21	5.9	↔	41	7.7	↔	61	9.5	↔	80	11.3	↔	100
4.2	↔	22	6.0	↔	42	7.8	↔	62	9.6	↔	81	11.4	↔	101
4.3	↔	23	6.1	↔	43	7.9	↔	63	9.7	↔	83	11.5	↔	102
4.4	↔	25	6.2	↔	44	8.0	↔	64	9.8	↔	84	11.6	↔	103
4.5	↔	26	6.3	↔	45	8.1	↔	65	9.9	↔	85	11.7	↔	104
4.6	↔	27	6.4	↔	46	8.2	↔	66	10.0	↔	86	11.8	↔	105
4.7	↔	28	6.5	↔	48	8.3	↔	67	10.1	↔	87	11.9	↔	107
4.8	↔	29	6.6	↔	49	8.4	↔	68	10.2	↔	88	12.0	↔	108
4.9	↔	30	6.7	↔	50	8.5	↔	69	10.3	↔	89	12.1	↔	109
5.0	↔	31	6.8	↔	51	8.6	↔	70	10.4	↔	90	12.2	↔	110
5.1	↔	32	6.9	↔	52	8.7	↔	72	10.5	↔	91	12.3	↔	111
5.2	↔	33	7.0	↔	53	8.8	↔	73	10.6	↔	92	12.4	↔	112
5.3	↔	34	7.1	↔	54	8.9	↔	74	10.7	↔	93	12.5	↔	113
5.4	↔	36	7.2	↔	55	9.0	↔	75	10.8	↔	95	12.6	↔	114
5.5	↔	37	7.3	↔	56	9.1	↔	76	10.9	↔	96	12.7	↔	115
5.6	↔	38	7.4	↔	57	9.2	↔	77	11.0	↔	97	12.8	↔	116
5.7	↔	39	7.5	↔	58	9.3	↔	78	11.1	↔	98	12.9	↔	117
												13.0	↔	119

The relationship between the National Glycohemoglobin Standardization Program (NGSP) A1C calibration (expressed as a % A1C) and the International Federation of Clinical Chemistry (IFCC) network calibration (expressed as mmol/mol) is given by the master equation:

Master Equation:  $(\text{NGSP} = [0.09148 * \text{IFCC}] + 2.152)$



For further details and additional references see the NGSP website at <http://www.ngsp.org/ifcc.asp>.