## Consonant

	ADAPT	SAMPA1 (ADAPT <sup>1</sup> )	SAMPA2 (origin <sup>2</sup> )	SAMPA3 (students used <sup>3</sup> )	CGN	CGN2 <sup>4</sup>	Dutch	English	IPA
Plosives	р	р	p	p	p	р	<u>P</u> ak	sport	р
	b	b	b	b	b	b	<u>B</u> ak	bait	b
	t	t	t	t	t	t	<u>T</u> ak,had	stop	t
	d	d	d	d	d	d	<u>d</u> ak	duck	d
	k	k	k	k	k	k	<u>k</u> ap	s <u>ch</u> ool	k
	g	g	g	g	g	g	goal (only foreign/loan-words)	goal	g
Fricatives	f	f	f	f	f	f	<u>F</u> el	feats	f
	v	v	V	v	V	v	<u>V</u> el	very	v
	S	S	S	S	S	S	Sein,sok	sock	S
	Z	Z	Z	Z	Z	Z	<u>z</u> ijn	zip	Z
	S	S	S	S	S	S	Show,chef,sjabloon, action (CGN2)	Shall	ſ
	Z	Z	Z	Z	Z	Z	Bagage,jury	vi <u>si</u> on	3
	G	G	G	G	G	G	Goed,gaan	loch	Y
	X/x	X	X	X	X	X	Toch,weg,acht	loch	X
	h	h	h	h	h	h	<u>H</u> and, <u>h</u> ad	behind	ĥ
Sonorants	m	m	m	m	m	m	<u>m</u> et	<u>m</u> an	m
	n	n	n	n	n	n	<u>n</u> et	neck	n
	N	N	N	N	N	N	ba <u>ng</u>	long	ŋ
	1	1	1	1	1	1	<u>l</u> and	<u>l</u> and	1
	r	r	r	r	r	r	<u>r</u> and	trilled R or guttural R	r
	W	W	w	W	W	W	Wit, wang	between wine and vine	ט
	j	j	j	j	j	j	ja	<u>y</u> ard	j
	J	n_j**	n_j**	n_j**	J	J	Campagne, oranje, trijntje	Like canyon	'n

<sup>1</sup> https://www.cls.ru.nl/clst-asr/doku.php?id=phonalpha&s[]=sampa & Appendix A in ADAPT paper: http://lands.let.ru.nl/literature/elffers.2005.1.pdf https://www.phon.ucl.ac.uk/home/sampa/dutch.htm

<sup>&</sup>lt;sup>3</sup> Used by students Julia Merkus, Emma de Reus and Fleur Boogmans in 2019 – 2020 for manually checking orthographic transcriptions of COPD, JASMIN and CHASING datasets, respectively.

<sup>&</sup>lt;sup>4</sup> Used by Dutch Forced Aligner (FA: <a href="https://www.cls.ru.nl/clst-asr/doku.php?id=forced-aligner">https://www.cls.ru.nl/clst-asr/doku.php?id=forced-aligner</a>) and Grapheme to Phoneme converter (G2P <a href="https://webservices-phoneme">https://www.cls.ru.nl/clst-asr/doku.php?id=forced-aligner</a>) and Grapheme to Phoneme converter (G2P <a href="https://webservices-phoneme">https://webservices-phoneme</a>) lst.science.ru.nl/g2pservice/index/)

## Vowel

	ADAPT	SAMPA1 (ADAPT)	SAMPA2 (origin)	SAMPA3 (students used)	CGN	CGN2	Dutch	English	IPA
Lang	i	i	i	i	i	i	V <u>ie</u> r	d <u>ee</u> p	i
	e	e	e:	e:	e	e	v <u>ee</u> r	m <u>a</u> de	e:
	a	a	a:	a:	a	a	n <u>aa</u> m	l <u>a</u> d	a:
	0	0	o:	o:	0	0	v <u>oo</u> r	b <u>o</u> rn	o:
	u	u	u	u	u	u	v <u>oe</u> r	b <u>oo</u> t	u
	у	У	у	y	y	y	v <u>uu</u> r	<u>goo</u> se	у
	2	UNK	2:	2:	2	EU	d <u>eu</u> r	f <u>u</u> r	ø:
Korte	I	I	I	I	I	I	p <u>i</u> t	s <u>i</u> t	I
	Е	Е	Е	E	Е	E	p <u>e</u> t	bed	ε
	A	A	A	A	A	A	p <u>a</u> d	Father(short)	a
	О	О	О	0	О	О	p <u>o</u> t	off	э
	Y	Y	Y	Y	Y	U	p <u>u</u> t	n <u>u</u> rse	Y
Sjwa	@	@	@	@	@	@	gemak/hemel?	<u>A</u> gain	Э
Diftongen	&	Ei	Ei	Ei	E+	EI	f <u>ij</u> n	m <u>a</u> y	εi
	1	9y	9y	9y	Y+	UI	h <u>ui</u> s	house	œy
	3	Au	Au	Au	A+	AU	G <u>ou</u> d	<u>ou</u> t	ΛU
Leen	4	E:	E:	UNK	E:	E2	Cr <u>è</u> me	Square	ε:
	5	9	9:	UNK	Y:	Oj	Fr <u>eu</u> le	fur	œː
	6	O:	O:	UNK	O:	0	r <u>o</u> ze	dog	o:
Nasale	7	UNK	UNK	UNK	E~	Εn	Bassin, hautain	doy <u>en</u>	ε̃:
	8	UNK	UNK	UNK	A~	A n	Ensemble, genre	croiss <u>an</u> t	ã:
	9	UNK	UNK	UNK	O~	On	Compagn <u>on</u> , f <u>on</u> d, chanson	m <u>on</u> tage	ã:
	%	UNK	UNK	UNK	Y~	Un	vingt-et- <u>un</u>		
Andere	a_j**	a_j**	a:i	a:_j*	a_j**	a_j**	dr <u>aai</u>	pr <u>i</u> ze	aːi
	o_j**	o_j**	o:i	o:_j*	o_j**	o_j**	m <u>ooi</u>	b <u>oy</u> s	o:i
	i_w**	i_w**	iu	i_w*	i_w**	i_w**	n <u>ieuw</u>	ew or free will	iu
	y_w**	y_w**	yu	y_w*	y_w**	y_w**	d <u>uw</u>	f <u>ew</u> would	yu
	e_w**	e_w**	e:u	e:_w*	e_w**	e_w**	sn <u>eeuw</u>	say oo	e:u
	u_j**	u_j**	ui	u_j*	u_j**	u_j**	<u>roei</u> boot	to eternity	ui

<sup>\* = &#</sup>x27;\_' separates phonemes in phoneme tier \*\* = separate phonemes