Table S1. Summary of the crystallographic data for stable phases in the Cu–Zr–Y system

Phase	Person symbol	Space group	Prototype	Lattice parameters, pm			Ref.
Cu	*cF*4	$Fm\bar{3}m$	Cu	*a*=361.52			[1]
(αY)	*hP*2	$P6_3$/mmc	Mg	*a*=364.82		*c*=573.18	[2]
(βY)	*cI*2	$Im\bar{3}m$	W	*a*=407			[2]
(αZr)	*hP*2	$P6_3/mmc$	Mg	*a*=323.3		*c*=515.2	[3]
(βZr)	*cI*2	$Im\bar{3}m$	W	*a*=355.1			[4]
Cu_5Zr	*cF*24	$F\bar{4}3m$	$AuBe_5$	*a*=687			[5]
$Cu_{51}Zr_{14}$	*hP*68	*P*6/*m*	$Gd_{14}Ag_{51}$	*a*=112.4		*c*=828.2	[6]
Cu_8Zr_3	*oP*44	$F\bar{4}3m$	Hf_3Cu_8	*a*=786.9	*b*=998.5	*c*=815.5	[6]
$Cu_{10}Zr_7$	*Cmca*	*oS*68	Zr_7Ni_{10}	*a*=126.75	*b*=931.3	*c*=934.7	[7]
CuZr	*cP*2	$Pm\bar{3}m$	CsCl	*a*=326.2			[8]
$CuZr_2$	*tI6*	*I*4/*mmm*	$CuZr_2$	*a*=322		*c*=111.83	[9]
CuY	*cP*2	$Pm\bar{3}m$	CsCl	*a*=347.7			[10]
Cu_2Y_R		*hR**					[1]
Cu_2Y_H		*hP**					[1]
Cu_7Y_2	*hP*65	*P*6/*m*	$CeCu_{3.6}$	*a*=1156.9		*c*=867.4	[10]
Cu_4Y	*hp*6	*P*2/*m*	$CaCu_5$	*a*=500		*c*=410.5	[10]
Cu_6Y	*hP*8	*P*6/*mmm*	$TbCu_7$	*a*=496.8		*c*=412.3	[10]

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