

Material Properties	Zinc Blende Lattice Parameter $a_0$ at 300K	Zinc Blende Nearest-Neighbour Dist. at 300K	Zinc Blende Density at 300K	Wurzite Lattice Parameters at 300K	Wurzite Nearest-Neighbour Dist. at 300K	Wurzite Density at 300K	Phase Stable at 300K	Melting Point Handbook of C & P, 53rd Editn, 1972
CdS	0.582 nm	0.252 nm	4.87 g.cm <sup>-3</sup>	$a_0 = 0.4135$ nm $c_0 = 0.6749$ nm	... nm	4.82 g.cm <sup>-3</sup>	Wurzite	1750 °C (wurzite, 100 atm.)
CdSe	0.608 nm	0.263 nm	5.655 g.cm <sup>-3</sup>	$a_0 = 0.430$ nm $c_0 = 0.702$ nm	... nm	5.81 g.cm <sup>-3</sup>	Wurzite	>1350 °C
CdTe	0.648 nm	0.281 nm	5.86 g.cm <sup>-3</sup>	$a_0 = \dots$ nm $c_0 = \dots$ nm	... nm	... g.cm <sup>-3</sup>	Zinc Blende	1041 °C (Zinc Blende)

Material Properties	Thermal Conductivity at 20°C	Specific Heat	Linear Expansion	Coefficient at 20°C	Dielectric Const, low frequency zinc-blende structure: wurzite structure:  Singh 1993	Refractive Index zinc-blende structure: wurzite structure:	Energy Gap $E_g$ at 300 K zinc blende structure:
CdS	...	...	...	...	...	2.506, 2.529 Handbook of C & P, 53rd Editn, 1972	2.50 eV, Direct 2.50 eV, Direct Singh 1993
CdSe	...	...	...	...	10.2(pl), 9.3(pr)	2.5 Singh 1993, p.840	1.714 eV, Direct Shan et al 2004
CdTe	0.062 W.cm <sup>-1</sup> .°C <sup>-1</sup>	0.21 J.g <sup>-1</sup> .°C <sup>-1</sup>	5.9x10 <sup>-6</sup> °C <sup>-1</sup>	...	10.2	2.72 Singh 1993, p.840	1.474 eV, Direct Singh 1993

Material Properties	Ionisation Energy of Aluminium Donor	Electron Hall Mobility at 300 K for n=lowish	Ionisation Energy of Phosphorus Acceptor	Hole Hall Mobility at 300 K for p=lowish
CdS	...	340 cm <sup>2</sup> /V.s	... meV	340 cm <sup>2</sup> /V.s
CdSe	...	...	83±6 meV	... cm <sup>2</sup> /V.s
CdTe	14.05 meV Francou etc	1050 cm <sup>2</sup> /V.s	68.2 meV 50 meV	100 cm <sup>2</sup> /V.s