$$w \equiv \begin{cases} 0 & c = d = 0 & (9.4\text{a}) \\[2mm] \sqrt{|c|}\sqrt{\dfrac{1 + \sqrt{1 + (d/c)^2}}{2}} & |c| \geq |d| & (9.4\text{b}) \\[4mm] \sqrt{|d|}\sqrt{\dfrac{|c/d| + \sqrt{1 + (c/d)^2}}{2}} & |c| < |d| & (9.4\text{c}) \end{cases}$$

$$\sqrt{c + id} = \begin{cases} 0 & w = 0 \text{ (case 9.4a)} & (9.5\text{a}) \\[2mm] w + i\dfrac{d}{2w} & w \neq 0,\, c \geq 0 & (9.5\text{b}) \\[2mm] \dfrac{|d|}{2w} + iw & w \neq 0,\, c < 0,\, d \geq 0 & (9.5\text{c}) \\[2mm] \dfrac{|d|}{2w} - iw & w \neq 0,\, c < 0,\, d < 0 & (9.5\text{d}) \end{cases}$$