

TABLE DR1. PARAMETER VALUES FOR MARS THERMAL EVOLUTION MODEL

Property	Symbol	Units	Value	Reference [†]
Core radius	R_c	km	1627	see text
Mantle density	ρ_m	$\text{kg}\cdot\text{m}^{-3}$	3500	—
Core density	ρ_c	$\text{kg}\cdot\text{m}^{-3}$	7011	—
Core specific heat capacity	C_p	$\text{J}\cdot\text{kg}^{-1}\cdot\text{K}^{-1}$	780	1; 2
Core expansivity (CMB)	α	10^{-7}K^{-1}	585	3; 4; 5
Core conductivity	k	$\text{W}\cdot\text{m}^{-1}\cdot\text{K}^{-1}$	40	6; 7
Mantle ref. Viscosity	η_0	$10^{20} \text{Pa}\cdot\text{s}$	1	see text
K mantle abundance	N.A.*	ppm	305	8
Th mantle abundance	N.A.*	ppm	0.016	8
U mantle abundance	N.A.*	ppm	0.056	8

Note: For other values, see Nimmo and Stevenson (2000).

* Not Applicable.

[†]1—Touloukian and Buyco (1970); 2—Touloukian et al. (1989); 3—Hixson et al. (1990); 4—Anderson and Ahrens (1994); 5—Fei et al. (1995); 6—Touloukian and Ho (1981); 7—Stacey and Anderson (2001); 8—Wänke and Dreibus (1988).

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