







## Thermometer Comparison & Analysis

Thermometer		Cost	Accuracy	FDA Approved	Features
Tympanic Thermometer (checks temp of tympanic membrane)		\$30.00-\$45.00	0.2 to 0.4 degrees off rectal Ear wax or small ear canal may interfere with accuracy	Yes for most all brands	Quick - Temp in 1-3 seconds Easy to clean
Digital Thermometer (oral)		\$8.00-\$15.00	Within 0.1 degree of rectal	Yes for most – check brand	Accurate Requires more time
Temporal Artery Thermometer (checks temp of temporal artery)		\$40.00 - \$90.00	0.5 to 1.0 degree lower than oral	Most are approved – check brand	Accurate – closest to rectal if done appropriately
No Touch Thermometers (Infrared - forehead)		\$60.00 - \$90.00	May not be as accurate as it takes skin temp	Check brand Less expensive brands lack accuracy	Only check skin temp Quick but can be inaccurate with poor technique Need good training for more accuracy

<https://www.mayoclinic.org/diseases-conditions/fever/in-depth/thermometers/art-20046737>

<https://www.ncbi.nlm.nih.gov/books/NBK263242/>

<https://conductscience.com/thermometers-a-complete-guide/>