

Table 969.36 Relationship Between Refractive Index and Water Contents of Honeys*

Water Content, %	Refractive Index			Water Content, %	Refractive Index		
	20° C ^b	60° F ^c	40° C		20° C ^b	60° F ^c	40° C
13.0	1.5044	1.5053	1.4998	19.0	1.4890	1.4900	1.4845
13.2	1.5038	1.5048	1.4993	19.2	1.4885	1.4895	1.4840
13.4	1.5033	1.5043	1.4988	19.4	1.4880	1.4890	1.4835
13.6	1.5028	1.5038	1.4983	19.6	1.4875	1.4885	1.4829
13.8	1.5023	1.5033	1.4978	19.8	1.4870	1.4880	1.4824
14.0	1.5018	1.5027	1.4973	20.0	1.4865	1.4875	1.4819
14.2	1.5012	1.5022	1.4968	20.2	1.4860	1.4870	1.4814
14.4	1.5007	1.5017	1.4962	20.4	1.4855	1.4865	1.4809
14.6	1.5002	1.5012	1.4957	20.6	1.4850	1.4860	1.4804
14.8	1.4997	1.5007	1.4952	20.8	1.4845	1.4855	1.4799
15.0	1.4992	1.5002	1.4947	21.0	1.4840	1.4850	1.4794
15.2	1.4987	1.4997	1.4942	21.2	1.4835	1.4845	1.4788
15.4	1.4982	1.4992	1.4937	21.4	1.4830	1.4840	1.4783
15.6	1.4976	1.4986	1.4932	21.6	1.4825	1.4835	1.4778
15.8	1.4971	1.4981	1.4927	21.8	1.4820	1.4830	1.4773
16.0	1.4966	1.4976	1.4922	22.0	1.4815	1.4825	1.4768
16.2	1.4961	1.4971	1.4916	22.2	1.4810		
16.4	1.4956	1.4966	1.4911	22.4	1.4805		
16.6	1.4951	1.4961	1.4906	22.6	1.4800		
16.8	1.4946	1.4956	1.4901	22.8	1.4795		
17.0	1.4940	1.4951	1.4896	23.0	1.4790		
17.2	1.4935	1.4946	1.4891	23.2	1.4785		
17.4	1.4930	1.4940	1.4886	23.4	1.4780		
17.6	1.4925	1.4935	1.4881	23.6	1.4775		
17.8	1.4920	1.4930	1.4876	23.8	1.4770		
18.0	1.4915	1.4925	1.4870	24.0	1.4765		
18.2	1.4910	1.4920	1.4865	24.2	1.4760		
18.4	1.4905	1.4915	1.4860	24.4	1.4755		
18.6	1.4900	1.4910	1.4855	24.6	1.4750		
18.8	1.4895	1.4905	1.4850	24.8	1.4745		
				25.0	1.4740		

* Values for 20°C and 60°F are Wedmore's calculations (Bee World 36, 197(1955)); 40°C values are calcd from Auerbach and Borries equation (Z. Nahr. Genusm. 22, 353-358(1924)). Values >22.0% were extended by FAO/WHO Codex Committee on Methods of Analysis and Sampling (1968).

^b If refractive index is measured at temp. above (below) 20°C, add (subtract) 0.00023/°C above (below) 20°C before using table.