

SREDNJI MOLARNI TOPLINSKI KAPACITET IDEALNIH PLINOVA IZMEĐU TEMPERATURA 0 °C i t °C

$$[C_{m,p}]_0^t; \left[\frac{\text{kJ}}{\text{kmol K}} \right]$$

t [°C]	Zrak (uzduh)	O ₂	N ₂	H ₂	H ₂ O	CO ₂	CO	SO ₂	CH ₄ metan	C ₂ H ₆ etan	C ₃ H ₈ propan	C ₂ H ₄ etilen	C ₂ H ₂ acetilen	CH ₄ metan	CH ₄ metan	CH ₄ metan
0	29,073	29,274	29,115	28,617	33,499	35,860	29,123	38,854	34,738	49,53	68,329	40,947	41,91	73,688	33,787	70,087
100	29,153	29,538	29,144	28,935	33,741	38,112	29,178	40,654	36,806	55,919	78,67	46,222	45,871	89,472	34,332	77,288
200	29,299	29,931	29,228	29,073	34,118	40,059	29,303	42,329	39,427	62,195	88,886	51,163	48,517	103,54	35,002	83,903
300	29,521	30,400	29,383	29,123	34,575	41,755	29,517	43,878	42,274	68,232	97,929	55,936	50,677	116,561	35,755	90,477
400	29,789	30,878	29,601	29,186	35,090	43,250	29,789	45,217	45,18	74,161	106,68	60,206	52,536	127,907	36,593	96,464
500	30,095	31,334	29,864	29,249	35,630	44,573	30,099	46,390	47,977	79,629	114,174	64,184	54,160	137,871	37,430	101,990
600	30,405	31,761	30,149	29,316	36,195	45,753	30,425	47,353	50,673	84,674	121,752	67,826	55,638	146,831	38,309	107,140
700	30,723	32,15	30,451	29,408	36,789	46,813	30,752	48,232	53,277	89,355	128,284	71,050	56,999	154,744	39,147	111,788
800	31,028	32,502	30,748	29,517	37,392	47,763	31,07	48,944	55,902	93,713	134,229	74,148	58,268	161,862	39,984	116,100
900	31,321	32,825	31,037	29,647	38,008	48,617	31,376	49,614	58,33	97,766	141,765	76,912	59,444	168,309	40,738	120,077
1000	31,598	33,118	31,313	29,789	38,619	49,392	31,665	50,158	60,503	101,526	144,821	79,507	60,537	174,171	41,491	123,678
1100	31,862	33,386	31,577	29,944	39,226	50,099	31,937	50,660	62,454	104,984	149,678	81,936	61,571	179,488	42,203	127,111
1200	32,109	33,633	31,828	30,107	39,825	50,740	32,192	51,079	64,175	108,162	154,242	84,113	62,542	184,261	42,831	130,209
1300	32,343	33,863	32,067	30,287	40,407	51,322	32,427	51,623	Srednja vrijednost $[C_{m,p}]_{t_1}^{t_2}$ između dvije temperature od kojih niti jedna nije 0°C računa se pomoću izraza: $[C_{m,p}]_{t_1}^{t_2} = \frac{[C_{m,p}]_0^{t_2} \cdot t_2 - [C_{m,p}]_0^{t_1} \cdot t_1}{t_2 - t_1}$							
1400	32,565	34,076	32,293	30,467	40,976	51,858	32,653	51,958								
1500	32,774	34,282	32,502	30,647	41,525	52,348	32,858	52,251								
1600	32,967	34,474	32,699	30,832	42,056	52,800	33,051	52,544								
1700	33,151	34,658	32,883	31,012	42,576	53,218	33,231	52,796								
1800	33,319	34,834	33,055	31,192	43,070	53,604	33,402	53,047								
1900	33,482	35,006	33,218	31,372	43,539	53,959	33,561	53,214								
2000	33,641	35,169	33,373	31,548	43,995	54,290	33,708	53,465	Za temperature t koje nisu navedene u tablici, već se nalaze između u tablici prikazanih vrijednosti, za izračun $[C_{m,p}]_0^t$ koristi se linearna interpolacija prema izrazu: $[C_{m,p}]_0^t = [C_{m,p}]_0^{t_A} + \frac{[C_{m,p}]_0^{t_B} - [C_{m,p}]_0^{t_A}}{t_B - t_A} \cdot (t - t_A)$							
2100	33,787	35,328	33,520	31,723	44,435	54,596	33,850	53,633								
2200	33,926	35,483	33,658	31,891	44,853	54,881	33,980	53,800								
2300	34,060	35,634	33,787	32,058	45,255	55,144	34,106	53,968								
2400	34,185	35,785	33,909	32,222	45,644	55,391	34,223	54,135								
2500	34,307	35,927	34,002	32,385	46,017	55,617	34,336	54,261								
2600	34,332	36,069	34,206	32,540	46,381	55,852	34,499	54,387								
2700	34,457	36,207	34,290	32,691	46,729	56,061	34,583	54,512								
2800	34,541	36,341	34,415	32,866	47,060	56,229	34,667	54,596								
2900	34,625	36,509	34,499	33,034	47,378	56,438	34,750	54,721								
3000	34,709	36,676	34,583	33,159	-	56,606	34,834	54,847								
M	(28,96)	32	28,016	2,0156	18,02	44,01	28,01	64,04	16,031	30,07	44,06	28,031	26,04	78,108	34,08	46,07