

Propiedades de sustancias selectas



Sustancia	Número CAS	M	T_m	T_b	T_c	P_c	\tilde{V}_c	ω	μ_{dip}
		(g/mol)	(K)	(K)	(K)	(bar)	(cm ³ /mol)	(—)	(debye)
H ₂	1333-74-0	2.016	13.83	20.27	32.98	12.93	64.2	-0.217	0
He	7440-59-7	4.003	2.15	4.30	5.19	2.27	57.3	-0.301	0
Ne	7440-01-9	20.180	24.56	27.07	44.4	27.6	41.7	-0.016	0
Ar	7440-37-1	39.948	83.80	87.27	150.86	48.98	74.57	-0.002	0
Kr	7439-90-9	83.800	115.77	119.74	209.4	55.0	91.2		0
Xe	7440-63-3	131.290	161.25	165.01	289.74	58.4	118.4		0
Rn	10043-92-2	220.018	202.15	209.80	377.0	63.0	140		0
aire		28.964			132.4	37.0	86.7	0	0
N ₂	7727-37-9	28.014	63.15	77.35	126.2	33.98	90.1	0.037	0
O ₂	7782-44-7	31.999	54.36	90.17	154.58	50.43	73.37	0.020	0
H ₂ O	7732-18-5	18.015	273.15	373.15	647.14	220.64	57.1	0.344	1.84
D ₂ O	7789-20-0	20.028	276.96	374.55	643.89	216.71	56.26		1.87
CO	630-08-0	28.010	68.15	81.66	132.83	34.94	93.1	0.045	0.11
CO ₂	124-38-9	44.010	216.58	(sublima)	304.12	73.74	94.07	0.225	0
COS	463-58-1	60.070	135	223	378.8	63.5	136.3		0.71
CS ₂	75-15-0	76.131	164.5	319.45	552	79.0	160	0.118	0
C ₂ N ₂	460-19-5	52.035	238.75	252.15	400	59.8	195	0.276	
NH ₃	7664-41-7	17.031	195.41	239.82	405.4	113.53	72.47	0.257	1.47
N ₂ H ₄	302-01-2	32.045	274.68	386.65	653.01	147	101.10	0.315	3.0
NO	10102-43-9	30.006	109.51	121.38	180.0	64.8	58.0	0.582	0.15
N ₂ O	10024-97-2	44.013	182.33	184.67	309.6	72.55	97.0	0.143	0.17
SO ₂	7446-09-5	64.065	197.67	263.13	430.8	78.84	122.0	0.244	1.63
SO ₃	7446-11-9	80.064	289.95	317.90	490.90	82.10	126.5	0.423	0
F ₂	7782-41-4	37.997	53.48	84.95	144.3	52.15	66.2	0.051	0
Cl ₂	7782-50-5	70.905	172.19	239.12	417.0	77.0	124.0	0.073	0
Br ₂	7726-95-6	159.808	265.85	331.90	584.1	103.0	135.0	0.119	0
I ₂	7553-56-2	253.809	386.76	457.56	819.0	117	155.0		0
HF	7664-39-3	20.006	189.58	292.68	461	65	69	0.383	1.82
HCl	7647-01-0	36.461	158.97	188.15	324.69	83.1	81	0.134	1.08
HBr	10035-10-6	80.912	186.34	206.46	363.2	85.1	100	0.069	0.82
HI	10034-85-2	127.912	222.38	237.57	423.9	90.0	132.7	0.038	0.44
HCN	74-90-8	27.026	261	298.5	456.7	53.9	138.8	0.407	2.98
H ₂ S	7783-06-4	34.082	187.62	212.84	373.4	89.63	98.0	0.090	0.97
H ₂ Se	7783-07-5	80.976	207.42	228.25	411.0	89.2			0.24
SF ₆	2551-62-4	146.056	222.45	209.29	318.72	37.6	198.4	0.208	0
UF ₆	7783-81-5	352.07	337	324.96	503.35	45.31	250.0	0.277	0
Hg	7439-97-6	200.61	234.28	630.05	1765	1510	42.7		0
CH ₄	74-82-8	16.043	90.69	111.66	190.56	45.99	98.6	0.011	0
C ₂ H ₆	74-84-0	30.070	90.35	184.55	305.32	48.72	145.5	0.099	0
C ₂ H ₄	74-85-1	28.054	103.99	169.42	282.34	50.41	131.1	0.087	0

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		(g/mol)	(K)	(K)	(K)	(bar)	(cm ³ /mol)	(—)	(debye)
C ₂ H ₂	74-86-2	26.038	192.35	188.4	308.3	61.14	112.2	0.189	0
C ₃ H ₈	74-98-6	44.097	85.47	231.02	369.83	42.48	200	0.152	0
CH ₂ =CH-CH ₃	115-07-1	42.081	87.89	225.46	364.9	46.0	184.6	0.142	0.4
CH≡C-CH ₃	74-99-7	40.065	170.50	250.12	402.4	56.3	163.5	0.216	0.7
n-C ₄ H ₁₀	106-97-8	58.123	134.79	272.66	425.12	37.96	255	0.200	0
iso-C ₄ H ₁₀	75-28-5	58.123	113.54	261.34	407.85	36.4	262.7	0.186	0.1
n-C ₅ H ₁₂	109-66-0	72.150	143.43	309.22	469.7	33.7	311	0.252	0
C(CH ₃) ₄	463-82-1	72.150	256.58	282.65	433.75	31.99	303.2	0.197	0
n-C ₆ H ₁₄	110-54-3	86.177	177.84	341.88	507.6	30.25	368.0	0.300	0
ciclopropano	75-19-4	42.081	179.28	240.34	398.25	55.75	162.8	0.130	0
ciclohexano	110-82-7	84.161	279.69	353.93	553.5	40.73	308	0.211	0.3
benceno	71-43-2	78.114	278.68	353.24	562.05	48.95	256	0.210	0
tolueno	108-88-3	92.141	178.16	383.79	591.75	41.08	316	0.264	0.45
CH ₃ -OH	67-56-1	32.042	175.49	337.69	512.64	80.97	118.0	0.565	1.70
C ₂ H ₅ -OH	64-17-5	46.069	159.05	351.80	513.92	61.48	167.1	0.649	1.69
CH ₃ -CO-CH ₃	67-64-1	58.080	178.50	329.22	508.1	47.0	209	0.307	2.88
CH ₃ -O-CH ₃	115-10-6	46.069	131.65	248.31	400.1	54.0	170	0.192	1.3
C ₂ H ₅ -O-C ₂ H ₅	60-29-7	74.123	156.86	307.59	466.7	36.4	280	0.281	1.3
CH ₃ Cl	74-87-3	50.488	175.44	248.95	416.2	66.8	143	0.151	1.9
CH ₂ Cl ₂	75-09-2	84.932	176.00	312.79	510	61.0	193		1.8
CHCl ₃	67-66-3	119.377	209.74	334.33	536.5	55.0	240	0.228	1.1
CCl ₄	56-23-5	153.822	250.33	349.79	556.3	45.57	276	0.191	0
CCl ₂ F ₂	75-71-8	120.913	115.19	243.45	385.1	41.3	217	0.179	0.5
SiH ₄	7803-62-5	32.122		161.15	269.7	48.4			0
SiF ₄	7783-61-1	104.09		208.15	259.0	37.2			0

Fuentes principales, en orden descendente de prioridad: Poling (2002), Perry (2004), Dean (1985). Se ha hecho lo posible por validar la información contenida en esta tabla, pero no se puede dar garantía de su exactitud, por lo que no se recomienda su uso en la preparación de diseños finales de equipos industriales, procesos químicos, o sistemas de viaje a través del tiempo. En tales casos, se recomienda consultar fuentes adecuadas.