

Sulfur hexafluoride

Other names:	Elegas Esaflon Hexafluorure de soufre OC-6-11 SF6 Sulfur fluoride UN 1080 sulphur hexafluoride
Inchi:	InChI=1S/F6S/c1-7(2,3,4,5)6
InchiKey:	SFZCNBIFKDRMGX-UHFFFAOYSA-N
Formula:	F6S
SMILES:	FS(F)(F)(F)(F)F
Mol. weight [g/mol]:	146.06
CAS:	2551-62-4

Physical Properties

Property code	Value	Unit	Source
affp	575.30	kJ/mol	NIST Webbook
basg	575.30	kJ/mol	NIST Webbook
basg	550.70	kJ/mol	NIST Webbook
ea	0.54 ± 0.17	eV	NIST Webbook
ea	1.49 ± 0.22	eV	NIST Webbook
ea	0.32 ± 0.15	eV	NIST Webbook
ea	1.10	eV	NIST Webbook
ea	1.15 ± 0.15	eV	NIST Webbook
ea	0.70	eV	NIST Webbook
ea	0.43	eV	NIST Webbook
ea	0.95 ± 0.52	eV	NIST Webbook
ea	0.91 ± 0.07	eV	NIST Webbook
ea	1.03 ± 0.05	eV	NIST Webbook
ea	1.07 ± 0.07	eV	NIST Webbook
ea	0.60 ± 0.10	eV	NIST Webbook
ea	1.05 ± 0.10	eV	NIST Webbook
ea	1.39 ± 0.13	eV	NIST Webbook
ea	0.80	eV	NIST Webbook
ea	1.20 ± 0.30	eV	NIST Webbook
ea	0.53 ± 0.10	eV	NIST Webbook

ea	0.93	eV	NIST Webbook
ea	2.60 ± 0.10	eV	NIST Webbook
ea	2.60 ± 0.10	eV	NIST Webbook
ea	3.16	eV	NIST Webbook
ea	0.70	eV	NIST Webbook
ea	0.46 ± 0.20	eV	NIST Webbook
ea	0.75 ± 0.10	eV	NIST Webbook
ea	0.54	eV	NIST Webbook
gf	-1396.14	kJ/mol	Joback Method
hf	-1401.36	kJ/mol	Joback Method
hfus	11.64	kJ/mol	Joback Method
hvap	18.10	kJ/mol	Joback Method
ie	15.30	eV	NIST Webbook
ie	15.32 ± 0.02	eV	NIST Webbook
ie	15.69	eV	NIST Webbook
ie	15.70	eV	NIST Webbook
ie	15.70	eV	NIST Webbook
ie	15.30	eV	NIST Webbook
ie	15.35 ± 0.02	eV	NIST Webbook
ie	15.81	eV	NIST Webbook
log10ws	-3.00		Crippen Method
logp	3.169		Crippen Method
mcvol	46.430	ml/mol	McGowan Method
pc	2490.00 ± 30.00	kPa	NIST Webbook
pc	3758.60 ± 0.50	kPa	NIST Webbook
rhoc	738.76 ± 0.15	kg/m ³	NIST Webbook
rhoc	751.75 ± 0.58	kg/m ³	NIST Webbook
rinpol	135.00		NIST Webbook
rinpol	135.00		NIST Webbook
tb	209.30	K	NIST Webbook
tc	318.72	K	NIST Webbook
tc	591.85 ± 0.05	K	NIST Webbook
tc	318.76	K	NIST Webbook
tc	318.71 ± 0.01	K	NIST Webbook
tc	568.80 ± 0.70	K	NIST Webbook
tt	223.72 ± 0.01	K	NIST Webbook
vc	0.197	m ³ /kmol	NIST Webbook
vc	0.198 ± 0.000	m ³ /kmol	NIST Webbook

Temperature Dependent Properties

Property code Value Unit Temperature [K] Source

cpg	99.64	J/mol×K	360.80	Joback Method
cpg	101.19	J/mol×K	384.35	Joback Method
cpg	97.31	J/mol×K	266.60	Joback Method
cpg	97.24	J/mol×K	290.15	Joback Method
cpg	97.63	J/mol×K	313.70	Joback Method
cpg	98.44	J/mol×K	337.25	Joback Method
cpg	103.07	J/mol×K	407.90	Joback Method
hsubt	23.20 ± 0.01	kJ/mol	186.00	NIST Webbook
hsubt	23.30	kJ/mol	191.00	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.38199e+01
Coeff. B	-1.55710e+03
Coeff. C	-4.00300e+01
Temperature range (K), min.	105.15
Temperature range (K), max.	318.69

Datasets

Viscosity, Pa*s

Temperature, K - Gas	Pressure, kPa - Gas	Viscosity, Pa*s - Gas
300.00	26.36	0.0000153
300.00	50.94	0.0000153
300.00	73.62	0.0000153
300.00	105.89	0.0000153
300.00	125.70	0.0000153
300.00	152.62	0.0000153
300.00	177.62	0.0000153
300.00	195.25	0.0000153
300.00	227.52	0.0000153

300.00	251.51	0.0000153
300.00	278.58	0.0000154
300.00	301.45	0.0000154
300.00	327.30	0.0000154
300.00	353.41	0.0000154
300.00	378.55	0.0000154
300.00	401.57	0.0000154
300.00	425.72	0.0000154
300.00	444.52	0.0000154
300.00	471.71	0.0000154
300.00	491.53	0.0000154
300.00	538.31	0.0000154
300.00	565.24	0.0000154
300.00	597.98	0.0000154
300.00	634.58	0.0000154
300.00	665.10	0.0000154
300.00	700.96	0.0000155
300.00	731.45	0.0000155
300.00	763.98	0.0000155
300.00	800.20	0.0000155
300.00	835.89	0.0000155
300.00	869.95	0.0000155
300.00	898.41	0.0000155
300.00	930.75	0.0000156
300.00	968.74	0.0000156
300.00	997.76	0.0000156
300.00	1036.40	0.0000156
300.00	1090.20	0.0000156
300.00	1140.10	0.0000157
300.00	1181.50	0.0000157
300.00	1223.60	0.0000157
300.00	1280.60	0.0000158
300.00	1333.30	0.0000158
300.00	1380.90	0.0000159
300.00	1417.90	0.0000159
300.00	1493.30	0.0000160
300.00	1537.70	0.0000160
300.00	1594.60	0.0000161
300.00	1637.30	0.0000161
300.00	1680.60	0.0000162
300.00	1735.30	0.0000162
300.00	1784.40	0.0000163
300.00	1826.50	0.0000163
300.00	1865.10	0.0000164

300.00	1927.30	0.0000165
300.00	1980.00	0.0000166
300.00	2039.30	0.0000167
316.00	112.75	0.0000160
316.00	143.54	0.0000161
316.00	174.60	0.0000161
316.00	197.59	0.0000161
316.00	218.05	0.0000161
316.00	245.03	0.0000161
316.00	262.84	0.0000161
316.00	287.46	0.0000161
316.00	307.35	0.0000161
316.00	332.06	0.0000161
316.00	357.70	0.0000161
316.00	383.76	0.0000161
316.00	402.43	0.0000161
316.00	428.01	0.0000161
316.00	468.39	0.0000161
316.00	490.91	0.0000161
316.00	519.48	0.0000161
316.00	548.34	0.0000161
316.00	585.01	0.0000162
316.00	614.48	0.0000162
316.00	650.85	0.0000162
316.00	685.07	0.0000162
316.00	712.63	0.0000162
316.00	749.05	0.0000162
316.00	780.40	0.0000162
316.00	810.74	0.0000162
316.00	843.20	0.0000163
316.00	882.81	0.0000163
316.00	913.90	0.0000163
316.00	955.92	0.0000163
316.00	994.72	0.0000163
316.00	1031.10	0.0000164
316.00	1084.10	0.0000164
316.00	1120.40	0.0000164
316.00	1178.30	0.0000164
316.00	1215.20	0.0000165
316.00	1257.30	0.0000165
316.00	1314.30	0.0000165
316.00	1374.40	0.0000166
316.00	1422.90	0.0000166
316.00	1465.60	0.0000167

316.00	1530.40	0.0000167
316.00	1572.70	0.0000167
316.00	1609.80	0.0000168
316.00	1667.20	0.0000168
316.00	1724.20	0.0000169
316.00	1772.50	0.0000169
316.00	1821.10	0.0000170
316.00	1860.30	0.0000170
316.00	1922.70	0.0000171
316.00	1988.50	0.0000172
316.00	2021.60	0.0000173
316.00	2087.40	0.0000173
316.00	2155.20	0.0000174
316.00	2223.80	0.0000175
316.00	2273.20	0.0000176
316.00	2319.10	0.0000177
316.00	2375.80	0.0000178
316.00	2448.50	0.0000180
316.00	2510.00	0.0000181
316.00	2587.20	0.0000183
316.00	2658.20	0.0000184
316.00	2724.30	0.0000186
316.00	2792.70	0.0000188
316.00	2860.90	0.0000191
316.00	2916.50	0.0000193
316.00	2981.10	0.0000195
316.00	3007.90	0.0000196
316.00	3070.00	0.0000199
316.00	3135.20	0.0000202
321.00	77.46	0.0000163
321.00	97.02	0.0000163
321.00	114.16	0.0000163
321.00	146.57	0.0000163
321.00	169.96	0.0000163
321.00	205.62	0.0000163
321.00	239.58	0.0000163
321.00	264.10	0.0000163
321.00	293.39	0.0000163
321.00	339.65	0.0000163
321.00	374.89	0.0000163
321.00	400.93	0.0000163
321.00	428.98	0.0000163
321.00	457.31	0.0000164
321.00	488.99	0.0000164

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321.00	563.16	0.0000164
321.00	592.18	0.0000164
321.00	633.22	0.0000164
321.00	681.18	0.0000164
321.00	732.46	0.0000164
321.00	790.88	0.0000165
321.00	823.55	0.0000165
321.00	857.52	0.0000165
321.00	896.20	0.0000165
321.00	934.23	0.0000165
321.00	969.00	0.0000165
321.00	1031.40	0.0000166
321.00	1089.40	0.0000166
321.00	1125.00	0.0000166
321.00	1178.70	0.0000167
321.00	1223.20	0.0000167
321.00	1282.40	0.0000167
321.00	1340.00	0.0000168
321.00	1386.20	0.0000168
321.00	1431.80	0.0000169
321.00	1483.30	0.0000169
321.00	1538.90	0.0000169
321.00	1647.00	0.0000170
321.00	1693.10	0.0000171
321.00	1744.50	0.0000171
321.00	1788.60	0.0000172
321.00	1847.40	0.0000172
321.00	1893.80	0.0000173
321.00	1930.70	0.0000173
321.00	2004.90	0.0000174
321.00	2041.90	0.0000175
321.00	2120.40	0.0000176
321.00	2221.30	0.0000177
321.00	2270.30	0.0000178
321.00	2332.70	0.0000179
321.00	2373.20	0.0000180
321.00	2451.30	0.0000181
321.00	2534.70	0.0000183
321.00	2581.90	0.0000184
321.00	2629.50	0.0000185
321.00	2688.10	0.0000186
321.00	2803.90	0.0000189
321.00	2873.50	0.0000191

321.00	2959.10	0.0000193
321.00	3050.00	0.0000196
321.00	3136.60	0.0000200
321.00	3229.60	0.0000204
321.00	3282.00	0.0000206
321.00	3384.40	0.0000212
321.00	3445.90	0.0000216
321.00	3498.80	0.0000219
321.00	3558.30	0.0000224
321.00	3606.10	0.0000229
321.00	3651.40	0.0000235
321.00	3695.60	0.0000241
321.00	3729.20	0.0000246
321.00	3765.40	0.0000253
321.00	3793.60	0.0000260
321.00	3819.60	0.0000267
321.00	3858.50	0.0000283
321.00	3887.80	0.0000299
321.00	3899.40	0.0000310
321.00	3910.10	0.0000322
321.00	3918.40	0.0000335
321.00	3926.60	0.0000348
321.00	3933.30	0.0000361
321.00	3938.40	0.0000374
321.00	3945.70	0.0000400
321.00	3950.60	0.0000413
321.00	3955.40	0.0000427
321.00	3961.00	0.0000443
321.00	3968.80	0.0000464
321.00	3977.00	0.0000481
321.00	3988.30	0.0000502
321.00	4001.10	0.0000521
321.00	4020.80	0.0000545
321.00	4046.80	0.0000568
321.00	4077.10	0.0000590
321.00	4112.90	0.0000612
321.00	4160.00	0.0000635
321.00	4223.80	0.0000660
321.00	4349.40	0.0000700
321.00	4465.50	0.0000730
321.00	4601.30	0.0000761
321.00	4740.50	0.0000786
321.00	4879.10	0.0000809
321.00	5134.00	0.0000847

321.00	5554.10	0.0000900
321.00	5938.00	0.0000942
321.00	6388.70	0.0000984
321.00	7256.20	0.0001057
321.00	7905.10	0.0001105
321.00	8647.50	0.0001154
321.00	9548.10	0.0001212
321.00	10352.00	0.0001258
321.00	11075.00	0.0001297
333.15	91.55	0.0000168
333.15	113.58	0.0000168
333.15	142.52	0.0000168
333.15	172.42	0.0000168
333.15	198.48	0.0000168
333.15	218.78	0.0000168
333.15	243.22	0.0000169
333.15	275.20	0.0000169
333.15	294.03	0.0000169
333.15	319.41	0.0000169
333.15	350.89	0.0000169
333.15	378.94	0.0000169
333.15	416.93	0.0000169
333.15	443.40	0.0000169
333.15	479.64	0.0000169
333.15	506.60	0.0000169
333.15	547.64	0.0000169
333.15	590.65	0.0000170
333.15	636.15	0.0000170
333.15	671.18	0.0000170
333.15	717.74	0.0000170
333.15	772.31	0.0000170
333.15	837.79	0.0000171
333.15	887.92	0.0000171
333.15	946.43	0.0000171
333.15	1025.70	0.0000171
333.15	1092.50	0.0000172
333.15	1167.40	0.0000172
333.15	1233.20	0.0000173
333.15	1307.80	0.0000173
333.15	1366.90	0.0000174
333.15	1419.70	0.0000174
333.15	1502.80	0.0000175
333.15	1566.40	0.0000175
333.15	1629.70	0.0000176

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333.15	1772.90	0.0000177
333.15	1853.50	0.0000178
333.15	1917.40	0.0000178
333.15	1967.00	0.0000179
333.15	2025.70	0.0000180
333.15	2294.70	0.0000183
333.15	2427.70	0.0000185
333.15	2519.20	0.0000186
333.15	2631.90	0.0000188
333.15	2766.30	0.0000190
333.15	2872.00	0.0000193
333.15	3008.30	0.0000196
333.15	3089.40	0.0000197
333.15	3195.20	0.0000200
333.15	3306.10	0.0000203
333.15	3398.70	0.0000206
333.15	3504.00	0.0000210
333.15	3605.10	0.0000214
333.15	3722.00	0.0000218
333.15	3815.40	0.0000223
333.15	3932.10	0.0000229
333.15	4050.80	0.0000237
333.15	4148.20	0.0000244
333.15	4239.90	0.0000252
333.15	4328.20	0.0000262
333.15	4406.90	0.0000271
333.15	4479.70	0.0000282
333.15	4549.60	0.0000294
333.15	4612.30	0.0000305
333.15	4671.80	0.0000319
333.15	4725.80	0.0000333
333.15	4776.60	0.0000348
333.15	4828.10	0.0000363
333.15	4880.10	0.0000380
333.15	4933.20	0.0000398
333.15	4991.60	0.0000419
333.15	5049.00	0.0000439
333.15	5109.40	0.0000460
333.15	5178.80	0.0000483
333.15	5254.90	0.0000507
333.15	5343.60	0.0000533
333.15	5447.50	0.0000561
333.15	5567.40	0.0000588

333.15	5709.90	0.0000620
333.15	5869.50	0.0000648
333.15	6098.20	0.0000687
333.15	6338.20	0.0000722
333.15	6627.70	0.0000758
333.15	6950.60	0.0000795
333.15	7378.30	0.0000840
333.15	7900.00	0.0000887
333.15	8519.80	0.0000935
333.15	9106.80	0.0000979
333.15	9802.00	0.0001027
333.15	10465.00	0.0001067
333.15	11412.00	0.0001122
333.15	12565.00	0.0001184
350.00	64.67	0.0000175
350.00	96.54	0.0000175
350.00	117.61	0.0000175
350.00	143.77	0.0000176
350.00	170.68	0.0000176
350.00	204.56	0.0000176
350.00	238.01	0.0000176
350.00	269.03	0.0000176
350.00	295.24	0.0000176
350.00	332.44	0.0000176
350.00	363.13	0.0000176
350.00	390.50	0.0000176
350.00	418.50	0.0000176
350.00	450.38	0.0000177
350.00	485.30	0.0000177
350.00	522.75	0.0000177
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350.00	619.51	0.0000177
350.00	654.26	0.0000177
350.00	701.64	0.0000177
350.00	739.48	0.0000178
350.00	779.89	0.0000178
350.00	809.98	0.0000178
350.00	855.04	0.0000178
350.00	900.26	0.0000178
350.00	954.25	0.0000178
350.00	997.88	0.0000179
350.00	1051.50	0.0000179
350.00	1146.20	0.0000180

350.00	1196.50	0.0000180
350.00	1265.40	0.0000180
350.00	1341.20	0.0000181
350.00	1392.70	0.0000181
350.00	1473.10	0.0000182
350.00	1546.10	0.0000182
350.00	1621.80	0.0000183
350.00	1656.30	0.0000183
350.00	1713.20	0.0000183
350.00	1840.00	0.0000184
350.00	1888.30	0.0000185
350.00	1964.60	0.0000186
350.00	2005.90	0.0000186
350.00	2043.20	0.0000186
350.00	2108.60	0.0000187
350.00	2309.30	0.0000189
350.00	2394.00	0.0000190
350.00	2449.20	0.0000191
350.00	2505.10	0.0000192
350.00	2608.10	0.0000193
350.00	2657.70	0.0000194
350.00	2798.40	0.0000196
350.00	2900.40	0.0000197
350.00	2978.20	0.0000199
350.00	3047.10	0.0000200
350.00	3125.30	0.0000201
350.00	3224.50	0.0000203
350.00	3319.60	0.0000205
350.00	3405.30	0.0000206
350.00	3504.40	0.0000209
350.00	3655.40	0.0000212
350.00	3748.00	0.0000215
350.00	3869.50	0.0000218
350.00	3987.50	0.0000221
350.00	4143.00	0.0000226
350.00	4307.30	0.0000232
350.00	4473.20	0.0000239
350.00	4598.10	0.0000244
350.00	4732.90	0.0000251
350.00	4848.30	0.0000257
350.00	4964.30	0.0000264
350.00	5096.10	0.0000272
350.00	5208.70	0.0000281
350.00	5327.40	0.0000290

350.00	5431.30	0.0000299
350.00	5524.20	0.0000308
350.00	5638.80	0.0000319
350.00	5741.00	0.0000330
350.00	5850.00	0.0000343
350.00	5956.20	0.0000356
350.00	6067.60	0.0000371
350.00	6177.60	0.0000386
350.00	6280.80	0.0000399
350.00	6385.10	0.0000414
350.00	6510.80	0.0000432
350.00	6635.40	0.0000450
350.00	6769.60	0.0000468
350.00	6918.80	0.0000489
350.00	7076.50	0.0000511
350.00	7230.00	0.0000531
350.00	7408.10	0.0000553
350.00	7592.00	0.0000575
350.00	7767.30	0.0000596
350.00	8006.20	0.0000622
350.00	8297.40	0.0000650
350.00	8558.70	0.0000675
350.00	8849.50	0.0000703
350.00	9294.00	0.0000740
350.00	9823.40	0.0000781
350.00	10614.00	0.0000835
350.00	11424.00	0.0000887
350.00	12301.00	0.0000939
375.00	72.56	0.0000186
375.00	103.02	0.0000186
375.00	132.08	0.0000186
375.00	156.74	0.0000186
375.00	183.32	0.0000187
375.00	219.98	0.0000187
375.00	258.30	0.0000187
375.00	282.80	0.0000187
375.00	308.36	0.0000187
375.00	342.15	0.0000187
375.00	371.36	0.0000187
375.00	403.52	0.0000187
375.00	435.36	0.0000187
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375.00	499.73	0.0000188
375.00	539.14	0.0000188

375.00	563.93	0.0000188
375.00	612.98	0.0000188
375.00	661.40	0.0000188
375.00	695.12	0.0000188
375.00	746.70	0.0000189
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375.00	3052.50	0.0000207
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375.00	3418.40	0.0000212
375.00	3699.70	0.0000217
375.00	3960.70	0.0000221
375.00	4136.60	0.0000225
375.00	4384.30	0.0000230
375.00	4599.00	0.0000235
375.00	4821.00	0.0000240
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375.00	6887.60	0.0000322

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425.00	20442.00	0.0000727

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Legend

- affp:** Proton affinity
- basg:** Gas basicity
- cpg:** Ideal gas heat capacity
- dvisc:** Dynamic viscosity
- ea:** Electron affinity
- gf:** Standard Gibbs free energy of formation
- hf:** Enthalpy of formation at standard conditions
- hfus:** Enthalpy of fusion at standard conditions
- hsubt:** Enthalpy of sublimation at a given temperature

hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
rhoc:	Critical density
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tt:	Triple Point Temperature
vc:	Critical Volume

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