

Chromium Multiplet Energies

Term Symbol	Hybrid Method	DVME Method
⁷ S	0	0
⁵ S	2.11166	2.60561
⁵ G	3.23514	2.69414
	3.23514	2.69571
	3.23514	2.70899
	3.23514	2.71366
	3.23514	2.72786
	3.23514	3.82348
	3.23514	3.82364
	3.23514	3.82457
	3.23514	3.82532
⁵ P	3.66658	3.82683
	3.66658	3.82789
	3.66658	3.82918
⁵ D	3.78868	3.83034
	3.78868	3.83181
	3.78868	4.34235
	3.78868	4.34514
	3.78868	4.34819
⁵ D	4.45791	4.68216
	4.45791	4.68268
	4.45792	4.68495
	4.45792	4.68633
	4.45792	4.6869
³ G	4.59685	4.94757
	4.59685	4.94826
	4.59685	4.94925
	4.59685	4.9524
	4.59685	4.95624
	4.59685	4.96375
	4.59685	4.96606
	4.59685	4.97486
	4.59685	4.97523
³ I	4.8014	4.97673
	4.8014	4.97703
	4.8014	5.15034
	4.8014	5.15313
	4.8014	5.15463
	4.8014	5.25699
	4.8014	5.26123
	4.8014	5.26232

	4.8014	5.26419
	4.8014	5.26492
	4.8014	5.27235
	4.8014	5.27424
	4.8014	5.33208
³ P	4.99026	5.33306
	4.99026	5.33656
	4.99026	5.33784
⁵ F	5.21339	5.34539
	5.21339	5.34598
	5.21339	5.34617
	5.21339	5.34704
	5.21339	5.3484
	5.21339	5.69122
	5.21339	5.69146
³ D	5.21523	5.694
	5.21523	5.69497
	5.21523	5.69557
	5.21523	5.69636
	5.21523	5.69689
³ D	5.36367	5.6977
	5.36367	5.69796
	5.36367	5.69852
	5.36367	5.699
	5.36367	5.70084
³ F	5.41474	5.70147
	5.41474	5.75256
	5.41474	5.75469
	5.41474	5.75644
	5.41474	5.75788
	5.41474	5.76421
	5.41474	5.76542
¹ I	5.49688	5.76615
	5.49688	5.76645
	5.49688	5.76869
	5.49688	5.98115
	5.49688	5.98212
	5.49688	5.9873
	5.49688	5.98915
	5.49688	5.99507
	5.49688	6.04445
	5.49688	6.04552
	5.49688	6.05258

	5.49688	6.05296
	5.49688	6.05698
³ H	5.7299	6.05953
	5.7299	6.06948
	5.7299	6.07405
	5.7299	6.07986
	5.7299	6.08244
	5.7299	6.08339
	5.7299	6.08991
	5.7299	6.09008
	5.7299	6.10837
	5.7299	6.11166
	5.7299	6.11503
³ G	5.87071	6.13513
	5.87071	6.13704
	5.87071	6.14656
	5.87071	6.14756
	5.87071	6.1495
	5.87071	6.15054
	5.87071	6.15314
	5.87071	6.16777
	5.87071	6.17579
¹ D	6.05985	6.17592
	6.05985	6.17723
	6.05985	6.17835
	6.05985	6.19635
	6.05985	6.20055
³ F	6.06808	6.20939
	6.06808	6.21059
	6.06808	6.38126
	6.06808	6.38161
	6.06808	6.38484
	6.06808	6.38604
	6.06808	6.38836
¹ F	6.08897	6.43173
	6.08897	6.43275
	6.08897	6.43361
	6.08897	6.435
	6.08897	6.43664
	6.08897	6.43696
	6.08897	6.43883
³ H	6.21358	6.57277
	6.21358	6.57283

	6.21358	6.57555
	6.21358	6.57658
	6.21358	6.57694
	6.21358	6.57751
	6.21358	6.57859
	6.21358	6.57886
	6.21359	6.57919
	6.21359	6.57952
	6.21359	6.58015
¹ G	6.41891	6.58226
	6.41891	6.58271
	6.41891	6.67194
	6.41891	6.76122
	6.41891	6.76159
	6.41891	6.76496
	6.41891	6.76651
	6.41891	6.77542
	6.41892	6.81248
³ P	6.44482	6.8137
	6.44482	6.81477
	6.44482	6.81601
¹ H	6.45233	6.81618
	6.45233	6.81703
	6.45233	6.81758
	6.45233	6.81923
	6.45233	6.81965
	6.45233	6.82052
	6.45233	6.82121
	6.45233	7.03209
	6.45233	7.03231
	6.45233	7.03337
	6.45233	7.03465
³ F	6.52872	7.03513
	6.52872	7.03611
	6.52872	7.03684
	6.52872	7.03825
	6.52872	7.03906
	6.52872	7.13132
	6.52872	7.13316
³ G	6.79643	7.14725
	6.79643	7.15133
	6.79643	7.16832
	6.79643	7.19688

	6.79643	7.19934
	6.79643	7.20469
	6.79644	7.20786
	6.79644	7.21549
	6.79644	7.21668
³ F	6.80878	7.21821
	6.80878	7.23106
	6.80878	7.23807
	6.80878	7.24059
	6.80878	7.24265
	6.80878	7.24578
	6.80878	7.49334
¹ S	6.88223	7.49469
¹ F	6.95548	7.49597
	6.95548	7.49662
	6.95548	7.49782
	6.95548	7.49936
	6.95548	7.5013
	6.95548	7.68002
	6.95548	7.68068
³ S	6.96694	7.6815
¹ I	7.15215	7.68209
	7.15215	7.6825
	7.15215	7.68305
	7.15215	7.68331
	7.15215	7.68491
	7.15215	7.6854
	7.15216	7.6863
	7.15216	7.68687
	7.15216	7.82731
	7.15216	7.82837
	7.15216	7.83364
	7.15216	7.83428
	7.15216	7.83661
¹ G	7.37953	7.83732
	7.37953	7.84028
	7.37953	7.87043
	7.37954	7.87219
	7.37954	7.88143
	7.37954	7.88157
	7.37954	7.88388
	7.37954	7.8846
	7.37954	7.88472

³ D	7.39135	7.88487
	7.39135	7.88551
	7.39136	7.88678
	7.39136	7.88684
	7.39136	7.88739
⁵ D	7.45225	7.88837
	7.45225	7.88866
	7.45225	7.88996
	7.45226	7.89047
	7.45226	8.21875
³ D	7.73571	8.49916
	7.73571	8.50042
	7.73571	8.50134
	7.73571	8.50331
	7.73571	8.50547
¹ D	7.94405	8.50693
	7.94405	8.50844
	7.94406	8.74939
	7.94406	8.75422
	7.94406	8.7555
³ G	8.32091	8.7594
	8.32091	8.76096
	8.32091	8.76316
	8.32091	8.76575
	8.32091	8.77754
	8.32091	8.78205
	8.32091	8.7867
	8.32091	8.97598
	8.32091	8.97712
¹ D	8.33927	8.97755
	8.33927	8.98039
	8.33928	8.98079
	8.33928	9.15768
	8.33928	9.52692
¹ S	8.4014	9.52742
¹ F	8.80197	9.5351
	8.80197	9.53829
	8.80197	9.55092
	8.80198	9.55231
	8.80198	9.55556
	8.80198	9.55611
	8.80198	9.56036
³ P	8.91969	9.59948

	8.91969	9.61637
	8.91969	9.62195
¹ G	9.00083	9.63977
	9.00083	9.65145
	9.00083	9.77086
	9.00083	9.77323
	9.00083	9.77378
	9.00083	9.77607
	9.00083	9.77658
	9.00083	9.80833
	9.00083	9.80937
¹ F	9.12803	9.81216
	9.12803	9.81283
	9.12803	9.81367
	9.12803	9.81498
	9.12803	9.81648
	9.12803	9.81727
	9.12803	9.81823
³ H	9.33497	10.68345
	9.33497	10.68398
	9.33497	10.68544
	9.33497	10.68624
	9.33497	10.68674
	9.33497	10.68898
	9.33498	10.68974
	9.33498	10.69185
	9.33498	10.69279
	9.33498	11.83447
	9.33498	11.83478
³ G	9.88142	11.83637
	9.88142	11.83733
	9.88142	11.85077
	9.88142	11.8532
	9.88142	11.85978
	9.88142	11.86252
	9.88142	11.86296
	9.88142	11.86648
	9.88143	11.86836
¹ G	9.89532	11.86926
	9.89532	11.87075
	9.89532	11.87179
	9.89532	11.95679
	9.89533	11.96969

	9.89533	11.97119
	9.89533	11.97737
	9.89533	11.98024
	9.89533	12.21219
³ P	9.95942	12.21569
	9.95942	12.21684
	9.95942	12.2523
³ F	9.98387	12.25332
	9.98387	12.26289
	9.98387	12.26437
	9.98388	12.26632
	9.98388	12.26757
	9.98388	12.27435
	9.98388	12.45234
¹ I	10.28034	12.45685
	10.28034	12.45774
	10.28034	12.46187
	10.28034	12.46574
	10.28034	12.47693
	10.28034	12.47942
	10.28034	12.4831
	10.28035	12.48528
	10.28035	12.67268
	10.28035	12.67431
	10.28035	12.67926
	10.28035	12.68098
	10.28035	12.6863
³ P	10.29453	12.72572
	10.29453	12.72632
	10.29453	12.72732
³ D	10.51121	12.94578
	10.51121	12.94606
	10.51121	12.94911
	10.51122	12.95377
	10.51122	12.95488
¹ P	10.78339	12.96461
	10.78339	12.96871
	10.78339	12.97898
¹ G	10.81454	12.98051
	10.81454	12.98933
	10.81454	12.98953
	10.81454	12.99164
	10.81455	12.99223

	10.81455	13.23368
	10.81455	13.23453
	10.81455	13.24435
	10.81455	13.24788
³ D	10.91336	13.26762
	10.91336	13.26939
	10.91336	13.27417
	10.91336	13.2756
	10.91336	13.27782
¹ D	11.00038	13.34234
	11.00038	13.34949
	11.00038	13.35102
	11.00039	13.3571
	11.00039	13.3588
¹ S	11.03425	13.5427
¹ D	11.47477	13.54533
	11.47477	13.54847
	11.47477	13.54983
	11.47477	13.55512
	11.47477	13.67802
¹ F	11.86634	14.1869
	11.86634	14.2071
	11.86634	14.21117
	11.86634	14.22805
	11.86635	14.23013
	11.86635	14.78173
	11.86635	14.78219
¹ D	12.51592	14.7894
	12.51592	14.79112
	12.51592	14.79459
	12.51593	14.79894
	12.51593	14.80022
³ F	12.70844	14.83748
	12.70844	15.76011
	12.70844	15.76328
	12.70844	15.76552
	12.70844	15.77158
	12.70844	15.77329
	12.70844	15.783
³ P	12.77735	15.78467
	12.77735	15.84635
	12.77735	15.84711
¹ G	13.35619	15.8493

	13.35619	16.53498
	13.35619	16.53973
	13.3562	16.54084
	13.3562	16.54345
	13.3562	16.54462
	13.3562	16.55862
	13.3562	16.56178
	13.35621	16.56673
¹ S	14.47015	16.56777
¹ D	15.50844	19.02277
	15.50844	19.02781
	15.50844	19.03362
	15.50844	19.03701
	15.50844	19.05015
¹ S	17.96942	21.8754