

NEUTRAL AND CHARGED CURRENT CROSS SECTIONS/NUCLEON^a

 (T_{ve} = T_{νμ} = 8.0 MeV)

Target	σ_{neut}	σ_e^{-b}	σ_e^{+c}	Target	σ_{neut}	σ_e^{-b}	σ_e^{+c}
¹² C	4.64(-1)	9.38(-1)	5.38(-1)	²⁵ Al	1.05(0)	1.58(0)	1.40(0)
¹³ C	3.35(-1)	8.89(-1)	3.87(-1)	²⁶ Al	1.14(0)	1.79(0)	1.40(0)
¹⁴ C	2.80(-1)	9.36(-1)	3.02(-1)	²⁷ Al	1.22(0)	2.18(0)	1.29(0)
¹² N	3.44(-1)	6.70(-1)	6.27(-1)	²⁸ Al	1.39(0)	2.77(0)	1.36(0)
¹³ N	3.35(-1)	6.89(-1)	5.09(-1)	²⁹ Al	1.24(0)	2.94(0)	1.30(0)
¹⁴ N	9.20(-1)	1.67(0)	1.00(0)	³⁰ Al	1.13(0)	2.99(0)	1.15(0)
¹⁵ N	2.77(-1)	7.70(-1)	2.99(-1)	³¹ Al	1.09(0)	3.15(0)	1.02(0)
¹⁴ O	2.80(-1)	5.47(-1)	5.45(-1)	²³ Si	7.13(-1)	8.97(-1)	1.68(0)
¹⁵ O	2.77(-1)	5.38(-1)	4.48(-1)	²⁴ Si	8.49(-1)	1.06(0)	1.69(0)
¹⁶ O	2.42(-1)	6.09(-1)	3.35(-1)	²⁵ Si	9.90(-1)	1.26(0)	1.68(0)
¹⁷ O	3.06(-1)	7.90(-1)	4.33(-1)	²⁶ Si	1.11(0)	1.47(0)	1.64(0)
¹⁸ O	3.78(-1)	1.04(0)	4.75(-1)	²⁷ Si	1.22(0)	1.71(0)	1.58(0)
¹⁹ O	4.46(-1)	1.32(0)	5.15(-1)	²⁸ Si	1.23(0)	1.93(0)	1.50(0)
¹⁷ F	3.06(-1)	6.64(-1)	5.10(-1)	²⁹ Si	1.32(0)	2.24(0)	1.41(0)
¹⁸ F	3.96(-1)	8.64(-1)	5.75(-1)	³⁰ Si	1.16(0)	2.54(0)	1.39(0)
¹⁹ F	4.74(-1)	1.08(0)	6.14(-1)	³¹ Si	1.16(0)	2.66(0)	1.24(0)
²⁰ F	5.46(-1)	1.36(0)	6.49(-1)	³² Si	1.11(0)	2.93(0)	1.11(0)
²¹ F	6.18(-1)	1.69(0)	6.80(-1)	³³ Si	9.52(-1)	2.91(0)	9.02(-1)
¹⁷ Ne	3.68(-1)	6.64(-1)	6.63(-1)	³⁴ Si	7.49(-1)	2.84(0)	7.01(-1)
¹⁸ Ne	3.78(-1)	6.88(-1)	6.87(-1)	²⁷ P	1.29(0)	1.52(0)	2.03(0)
¹⁹ Ne	4.74(-1)	8.73(-1)	7.37(-1)	²⁸ P	1.39(0)	1.77(0)	1.98(0)
²⁰ Ne	4.61(-1)	1.02(0)	7.95(-1)	²⁹ P	1.32(0)	1.81(0)	1.69(0)
²¹ Ne	6.54(-1)	1.38(0)	8.04(-1)	³⁰ P	1.18(0)	1.79(0)	1.47(0)
²² Ne	7.30(-1)	1.70(0)	8.25(-1)	³¹ P	1.31(0)	2.10(0)	1.41(0)
²³ Ne	8.04(-1)	2.08(0)	8.38(-1)	³² P	1.30(0)	2.33(0)	1.29(0)
²⁴ Ne	8.49(-1)	2.52(0)	8.41(-1)	³³ P	1.18(0)	2.35(0)	1.09(0)
¹⁹ Na	4.46(-1)	7.09(-1)	8.84(-1)	³⁴ P	9.97(-1)	2.34(0)	8.81(-1)
²⁰ Na	5.46(-1)	8.91(-1)	9.27(-1)	³⁵ P	8.02(-1)	2.28(0)	6.80(-1)
²¹ Na	6.54(-1)	1.11(0)	9.59(-1)	³⁶ P	8.87(-1)	2.36(0)	6.54(-1)
²² Na	8.22(-1)	1.43(0)	1.05(0)	³⁷ P	9.28(-1)	2.35(0)	6.24(-1)
²³ Na	8.49(-1)	1.69(0)	9.91(-1)	³⁸ P	8.65(-1)	2.22(0)	5.90(-1)
²⁴ Na	9.24(-1)	2.05(0)	9.89(-1)	²⁸ S	1.28(0)	1.57(0)	2.48(0)
²⁵ Na	9.90(-1)	2.45(0)	9.73(-1)	²⁹ S	1.24(0)	1.63(0)	2.14(0)
²⁶ Na	1.14(0)	3.04(0)	1.02(0)	³⁰ S	1.16(0)	1.73(0)	1.94(0)
²⁷ Na	1.15(0)	3.68(0)	1.06(0)	³¹ S	1.31(0)	1.70(0)	1.69(0)
²⁰ Mg	4.99(-1)	7.28(-1)	1.11(0)	³² S	1.16(0)	1.75(0)	1.42(0)
²¹ Mg	6.18(-1)	9.01(-1)	1.14(0)	³³ S	1.18(0)	1.80(0)	1.27(0)
²² Mg	7.30(-1)	1.11(0)	1.17(0)	³⁴ S	1.03(0)	1.83(0)	1.06(0)
²³ Mg	8.49(-1)	1.36(0)	1.18(0)	³⁵ S	8.70(-1)	1.82(0)	8.54(-1)
²⁴ Mg	1.15(0)	1.69(0)	1.29(0)	³⁶ S	6.67(-1)	1.78(0)	6.54(-1)
²⁵ Mg	1.05(0)	1.97(0)	1.16(0)	³⁷ S	7.49(-1)	1.84(0)	6.24(-1)
²⁶ Mg	1.11(0)	2.34(0)	1.12(0)	³⁸ S	7.35(-1)	1.80(0)	5.90(-1)
²⁷ Mg	1.29(0)	2.93(0)	1.18(0)	³⁹ S	5.77(-1)	1.51(0)	5.51(-1)
²⁸ Mg	1.28(0)	3.58(0)	1.23(0)	⁴⁰ S	7.45(-1)	3.06(0)	5.89(-1)
²⁹ Mg	1.17(0)	3.47(0)	1.07(0)	⁴¹ S	5.56(-1)	3.02(0)	5.76(-1)
²² Al	6.70(-1)	9.04(-1)	1.39(0)	⁴² S	7.92(-1)	3.69(0)	5.89(-1)
²³ Al	8.04(-1)	1.09(0)	1.41(0)	³¹ Cl	1.16(0)	1.46(0)	2.09(0)
²⁴ Al	9.24(-1)	1.32(0)	1.41(0)	³² Cl	1.30(0)	1.48(0)	1.92(0)

^a Cross sections/nucleon in units of 10⁻⁴² cm² averaged over type (neutrino and antineutrino) and over a normalized Fermi-Dirac distribution for the specified temperature T (MeV).

^b ν_e charged current; ^AZ(ν_ee⁻)^A(Z+1). ^c ν̄_e charged current; ^AZ(ν̄_ee⁺)^A(Z-1).

NEUTRAL AND CHARGED CURRENT CROSS SECTIONS/NUCLEON

 ($T_{\nu e} = T_{\nu \mu} = 8.0$ MeV)

Target	σ_{neut}	σ_e^{-b}	σ_e^{+c}	Target	σ_{neut}	σ_e^{-b}	σ_e^{+c}
³³ Cl	1.18(0)	1.40(0)	1.58(0)	⁴⁵ Ca	6.34(-1)	2.22(0)	6.26(-1)
³⁴ Cl	9.00(-1)	1.40(0)	1.22(0)	⁴⁶ Ca	6.67(-1)	2.57(0)	6.38(-1)
³⁵ Cl	9.37(-1)	1.43(0)	1.09(0)	⁴⁷ Ca	6.88(-1)	2.93(0)	6.49(-1)
³⁶ Cl	7.59(-1)	1.40(0)	8.47(-1)	⁴⁸ Ca	6.84(-1)	3.29(0)	6.61(-1)
³⁷ Cl	5.77(-1)	1.34(0)	6.24(-1)	⁴⁹ Ca	8.04(-1)	3.67(0)	6.72(-1)
³⁸ Cl	6.11(-1)	1.38(0)	5.90(-1)	⁴⁰ Sc	4.16(-1)	5.33(-1)	9.30(-1)
³⁹ Cl	5.12(-1)	1.22(0)	5.51(-1)	⁴¹ Sc	3.11(-1)	5.32(-1)	7.56(-1)
⁴⁰ Cl	6.67(-1)	2.43(0)	5.89(-1)	⁴² Sc	4.06(-1)	7.84(-1)	7.31(-1)
⁴¹ Cl	5.22(-1)	2.47(0)	5.76(-1)	⁴³ Sc	5.40(-1)	1.14(0)	7.46(-1)
⁴² Cl	7.45(-1)	3.06(0)	5.89(-1)	⁴⁴ Sc	6.26(-1)	1.46(0)	7.46(-1)
³² Ar	1.11(0)	1.22(0)	2.36(0)	⁴⁵ Sc	7.02(-1)	1.79(0)	7.47(-1)
³³ Ar	1.18(0)	1.17(0)	2.01(0)	⁴⁶ Sc	7.54(-1)	2.11(0)	7.48(-1)
³⁴ Ar	1.03(0)	1.10(0)	1.66(0)	⁴⁷ Sc	7.95(-1)	2.44(0)	7.48(-1)
³⁵ Ar	9.37(-1)	1.10(0)	1.38(0)	⁴⁸ Sc	8.11(-1)	2.78(0)	7.49(-1)
³⁶ Ar	4.81(-1)	8.73(-1)	8.21(-1)	⁴⁹ Sc	8.17(-1)	3.12(0)	7.48(-1)
³⁷ Ar	6.33(-1)	1.03(0)	8.29(-1)	⁵⁰ Sc	9.35(-1)	3.51(0)	7.61(-1)
³⁸ Ar	4.48(-1)	9.63(-1)	5.90(-1)	⁵¹ Sc	1.02(0)	3.91(0)	7.73(-1)
³⁹ Ar	4.22(-1)	9.35(-1)	5.51(-1)	⁴¹ Ti	3.99(-1)	5.32(-1)	1.12(0)
⁴⁰ Ar	5.57(-1)	1.80(0)	5.89(-1)	⁴² Ti	4.16(-1)	5.33(-1)	9.30(-1)
⁴¹ Ar	4.70(-1)	1.91(0)	5.76(-1)	⁴³ Ti	5.40(-1)	8.15(-1)	9.15(-1)
⁴² Ar	6.67(-1)	2.43(0)	5.89(-1)	⁴⁴ Ti	6.58(-1)	1.09(0)	9.38(-1)
⁴³ Ar	7.71(-1)	2.83(0)	6.01(-1)	⁴⁵ Ti	7.36(-1)	1.40(0)	8.92(-1)
⁴⁴ Ar	8.22(-1)	3.20(0)	6.14(-1)	⁴⁶ Ti	8.05(-1)	1.70(0)	8.82(-1)
⁴⁵ Ar	8.58(-1)	3.56(0)	6.26(-1)	⁴⁷ Ti	8.67(-1)	2.00(0)	8.72(-1)
⁴⁶ Ar	8.61(-1)	3.92(0)	6.38(-1)	⁴⁸ Ti	9.02(-1)	2.31(0)	8.61(-1)
³⁵ K	8.70(-1)	8.37(-1)	1.73(0)	⁴⁹ Ti	9.29(-1)	2.63(0)	8.50(-1)
³⁶ K	7.59(-1)	8.15(-1)	1.40(0)	⁵⁰ Ti	9.29(-1)	2.95(0)	8.38(-1)
³⁷ K	6.33(-1)	7.80(-1)	1.08(0)	⁵¹ Ti	1.06(0)	3.35(0)	8.52(-1)
³⁸ K	4.23(-1)	7.66(-1)	7.42(-1)	⁵² Ti	1.15(0)	3.76(0)	8.66(-1)
³⁹ K	3.09(-1)	6.48(-1)	5.51(-1)	⁵³ Ti	1.20(0)	4.20(0)	8.80(-1)
⁴⁰ K	4.16(-1)	1.16(0)	5.89(-1)	⁴³ V	5.09(-1)	5.34(-1)	1.11(0)
⁴¹ K	3.99(-1)	1.36(0)	5.76(-1)	⁴⁴ V	6.26(-1)	7.97(-1)	1.08(0)
⁴² K	5.57(-1)	1.80(0)	5.89(-1)	⁴⁵ V	7.36(-1)	1.07(0)	1.06(0)
⁴³ K	6.58(-1)	2.17(0)	6.01(-1)	⁴⁶ V	7.36(-1)	1.24(0)	1.00(0)
⁴⁴ K	7.19(-1)	2.53(0)	6.14(-1)	⁴⁷ V	9.02(-1)	1.61(0)	1.02(0)
⁴⁵ K	7.66(-1)	2.89(0)	6.26(-1)	⁴⁸ V	9.57(-1)	1.89(0)	9.99(-1)
⁴⁶ K	7.85(-1)	3.25(0)	6.38(-1)	⁴⁹ V	1.00(0)	2.18(0)	9.78(-1)
⁴⁷ K	7.92(-1)	3.61(0)	6.49(-1)	⁵⁰ V	1.02(0)	2.48(0)	9.55(-1)
⁴⁸ K	9.05(-1)	3.98(0)	6.61(-1)	⁵¹ V	1.04(0)	2.79(0)	9.31(-1)
⁴⁹ K	9.87(-1)	4.36(0)	6.72(-1)	⁵² V	1.17(0)	3.19(0)	9.47(-1)
³⁶ Ca	6.67(-1)	6.11(-1)	1.76(0)	⁵³ V	1.27(0)	3.62(0)	9.63(-1)
³⁷ Ca	5.77(-1)	5.78(-1)	1.39(0)	⁵⁴ V	1.32(0)	4.08(0)	9.80(-1)
³⁸ Ca	4.48(-1)	5.43(-1)	1.04(0)	⁵⁵ V	1.33(0)	4.57(0)	9.98(-1)
³⁹ Ca	3.09(-1)	5.05(-1)	6.95(-1)	⁴⁴ Cr	5.77(-1)	5.36(-1)	1.29(0)
⁴⁰ Ca	2.52(-1)	5.13(-1)	5.60(-1)	⁴⁵ Cr	7.02(-1)	7.77(-1)	1.26(0)
⁴¹ Ca	3.11(-1)	8.08(-1)	5.76(-1)	⁴⁶ Cr	8.05(-1)	1.02(0)	1.22(0)
⁴² Ca	4.16(-1)	1.16(0)	5.89(-1)	⁴⁷ Cr	9.02(-1)	1.27(0)	1.19(0)
⁴³ Ca	5.09(-1)	1.52(0)	6.01(-1)	⁴⁸ Cr	9.02(-1)	1.66(0)	1.10(0)
⁴⁴ Ca	5.77(-1)	1.87(0)	6.14(-1)	⁴⁹ Cr	1.04(0)	1.78(0)	1.13(0)

NEUTRAL AND CHARGED CURRENT CROSS SECTIONS/NUCLEON
($T_{\nu e} = T_{\nu \mu} = 8.0$ MeV)

Target	σ_{neut}	σ_e^{-b}	σ_e^{+c}	Target	σ_{neut}	σ_e^{-b}	σ_e^{+c}
⁵⁰ Cr	1.08(0)	2.05(0)	1.10(0)	⁵⁷ Co	1.43(0)	2.73(0)	1.32(0)
⁵¹ Cr	1.11(0)	2.33(0)	1.06(0)	⁵⁸ Co	1.34(0)	2.90(0)	1.29(0)
⁵² Cr	1.12(0)	2.62(0)	1.03(0)	⁵⁹ Co	1.27(0)	3.08(0)	1.26(0)
⁵³ Cr	1.27(0)	3.04(0)	1.05(0)	⁶⁰ Co	1.19(0)	3.12(0)	1.17(0)
⁵⁴ Cr	1.37(0)	3.48(0)	1.07(0)	⁶¹ Co	1.13(0)	3.20(0)	1.09(0)
⁵⁵ Cr	1.43(0)	3.96(0)	1.09(0)	⁶² Co	1.05(0)	3.31(0)	1.01(0)
⁵⁶ Cr	1.45(0)	4.49(0)	1.11(0)	⁶³ Co	9.86(-1)	3.45(0)	9.44(-1)
⁵⁷ Cr	1.30(0)	4.34(0)	1.02(0)	⁶⁴ Co	8.98(-1)	3.64(0)	8.76(-1)
⁵⁸ Cr	1.16(0)	4.28(0)	9.60(-1)	⁶⁵ Co	7.94(-1)	3.79(0)	8.07(-1)
⁴⁶ Mn	7.54(-1)	7.56(-1)	1.43(0)	⁵¹ Ni	1.04(0)	1.00(0)	1.86(0)
⁴⁷ Mn	8.67(-1)	9.78(-1)	1.39(0)	⁵² Ni	1.12(0)	1.17(0)	1.79(0)
⁴⁸ Mn	9.57(-1)	1.20(0)	1.35(0)	⁵³ Ni	1.20(0)	1.34(0)	1.71(0)
⁴⁹ Mn	1.04(0)	1.44(0)	1.31(0)	⁵⁴ Ni	1.25(0)	1.53(0)	1.64(0)
⁵⁰ Mn	1.05(0)	1.64(0)	1.25(0)	⁵⁵ Ni	1.30(0)	1.73(0)	1.56(0)
⁵¹ Mn	1.15(0)	1.92(0)	1.22(0)	⁵⁶ Ni	1.25(0)	2.18(0)	1.59(0)
⁵² Mn	1.18(0)	2.18(0)	1.18(0)	⁵⁷ Ni	1.34(0)	2.16(0)	1.41(0)
⁵³ Mn	1.20(0)	2.45(0)	1.13(0)	⁵⁸ Ni	1.31(0)	2.37(0)	1.36(0)
⁵⁴ Mn	1.34(0)	2.88(0)	1.15(0)	⁵⁹ Ni	1.28(0)	2.58(0)	1.33(0)
⁵⁵ Mn	1.46(0)	3.35(0)	1.17(0)	⁶⁰ Ni	1.21(0)	2.80(0)	1.32(0)
⁵⁶ Mn	1.53(0)	3.85(0)	1.20(0)	⁶¹ Ni	1.16(0)	2.87(0)	1.22(0)
⁵⁷ Mn	1.39(0)	3.87(0)	1.16(0)	⁶² Ni	1.10(0)	2.96(0)	1.13(0)
⁵⁸ Mn	1.26(0)	3.83(0)	1.07(0)	⁶³ Ni	1.05(0)	3.08(0)	1.05(0)
⁵⁹ Mn	1.16(0)	3.84(0)	1.00(0)	⁶⁴ Ni	9.79(-1)	3.24(0)	9.72(-1)
⁶⁰ Mn	1.06(0)	3.90(0)	9.44(-1)	⁶⁵ Ni	8.91(-1)	3.37(0)	8.92(-1)
⁶¹ Mn	9.67(-1)	4.00(0)	8.91(-1)	⁶⁶ Ni	7.84(-1)	3.51(0)	8.12(-1)
⁴⁷ Fe	7.95(-1)	7.34(-1)	1.61(0)	⁶⁷ Ni	7.32(-1)	3.83(0)	8.17(-1)
⁴⁸ Fe	9.02(-1)	9.34(-1)	1.56(0)	⁵⁵ Cu	1.42(0)	1.56(0)	1.88(0)
⁴⁹ Fe	1.00(0)	1.14(0)	1.51(0)	⁵⁶ Cu	1.47(0)	1.77(0)	1.81(0)
⁵⁰ Fe	1.08(0)	1.35(0)	1.46(0)	⁵⁷ Cu	1.34(0)	1.80(0)	1.60(0)
⁵¹ Fe	1.15(0)	1.56(0)	1.41(0)	⁵⁸ Cu	1.43(0)	2.11(0)	1.56(0)
⁵² Fe	1.07(0)	1.66(0)	1.36(0)	⁵⁹ Cu	1.36(0)	2.16(0)	1.45(0)
⁵³ Fe	1.24(0)	2.03(0)	1.30(0)	⁶⁰ Cu	1.33(0)	2.35(0)	1.40(0)
⁵⁴ Fe	1.25(0)	2.29(0)	1.24(0)	⁶¹ Cu	1.29(0)	2.55(0)	1.36(0)
⁵⁵ Fe	1.42(0)	2.73(0)	1.26(0)	⁶² Cu	1.24(0)	2.64(0)	1.27(0)
⁵⁶ Fe	1.33(0)	4.73(0)	1.23(0)	⁶³ Cu	1.20(0)	2.77(0)	1.19(0)
⁵⁷ Fe	1.44(0)	3.30(0)	1.24(0)	⁶⁴ Cu	1.15(0)	2.92(0)	1.11(0)
⁵⁸ Fe	1.31(0)	3.42(0)	1.21(0)	⁶⁵ Cu	1.07(0)	3.05(0)	1.03(0)
⁵⁹ Fe	1.23(0)	3.43(0)	1.12(0)	⁶⁶ Cu	9.82(-1)	3.19(0)	9.46(-1)
⁶⁰ Fe	1.14(0)	3.49(0)	1.05(0)	⁶⁷ Cu	8.83(-1)	3.33(0)	8.66(-1)
⁶¹ Fe	1.07(0)	3.58(0)	9.79(-1)	⁶⁸ Cu	8.28(-1)	3.61(0)	8.45(-1)
⁶² Fe	9.74(-1)	3.70(0)	9.17(-1)	⁶⁹ Cu	7.42(-1)	3.91(0)	8.25(-1)
⁶³ Fe	8.89(-1)	3.87(0)	8.59(-1)	⁵⁷ Zn	1.43(0)	1.64(0)	1.90(0)
⁵⁰ Co	1.02(0)	1.07(0)	1.68(0)	⁵⁸ Zn	1.31(0)	1.70(0)	1.72(0)
⁵¹ Co	1.11(0)	1.26(0)	1.62(0)	⁵⁹ Zn	1.36(0)	1.85(0)	1.61(0)
⁵² Co	1.18(0)	1.45(0)	1.56(0)	⁶⁰ Zn	1.57(0)	1.88(0)	1.49(0)
⁵³ Co	1.24(0)	1.66(0)	1.49(0)	⁶¹ Zn	1.36(0)	2.16(0)	1.46(0)
⁵⁴ Co	1.29(0)	1.94(0)	1.44(0)	⁶² Zn	1.32(0)	2.33(0)	1.40(0)
⁵⁵ Co	1.30(0)	2.12(0)	1.35(0)	⁶³ Zn	1.30(0)	2.45(0)	1.32(0)
⁵⁶ Co	1.47(0)	2.58(0)	1.38(0)	⁶⁴ Zn	1.26(0)	2.60(0)	1.24(0)

NEUTRAL AND CHARGED CURRENT CROSS SECTIONS/NUCLEON
($T_{\nu e} = T_{\nu \mu} = 8.0$ MeV)

Target	σ_{neut}	σ_e^{-b}	σ_e^{+c}	Target	σ_{neut}	σ_e^{-b}	σ_e^{+c}
⁶⁵ Zn	1.20(0)	2.73(0)	1.16(0)	⁷¹ As	9.53(-1)	2.59(0)	1.03(0)
⁶⁶ Zn	1.13(0)	2.87(0)	1.08(0)	⁷² As	9.09(-1)	2.77(0)	9.35(-1)
⁶⁷ Zn	1.04(0)	3.01(0)	9.99(-1)	⁷³ As	8.34(-1)	2.98(0)	8.36(-1)
⁶⁸ Zn	9.41(-1)	3.17(0)	9.19(-1)	⁷⁴ As	9.88(-1)	3.49(0)	8.37(-1)
⁶⁹ Zn	8.95(-1)	3.41(0)	8.74(-1)	⁷⁵ As	1.18(0)	4.14(0)	8.39(-1)
⁷⁰ Zn	8.05(-1)	3.67(0)	8.28(-1)	⁷⁶ As	1.41(0)	5.08(0)	8.39(-1)
⁷¹ Zn	9.32(-1)	4.07(0)	8.31(-1)	⁷⁷ As	1.48(0)	5.20(0)	8.39(-1)
⁷² Zn	1.05(0)	4.51(0)	8.34(-1)	⁷⁸ As	1.47(0)	5.35(0)	8.39(-1)
⁵⁹ Ga	1.28(0)	1.64(0)	1.83(0)	⁷⁹ As	1.71(0)	5.58(0)	8.38(-1)
⁶⁰ Ga	1.33(0)	1.75(0)	1.71(0)	⁶⁷ Se	1.24(0)	1.73(0)	1.54(0)
⁶¹ Ga	1.36(0)	1.86(0)	1.61(0)	⁶⁸ Se	1.22(0)	1.81(0)	1.49(0)
⁶² Ga	1.44(0)	2.10(0)	1.60(0)	⁶⁹ Se	1.16(0)	1.94(0)	1.34(0)
⁶³ Ga	1.34(0)	2.14(0)	1.46(0)	⁷⁰ Se	1.09(0)	2.06(0)	1.24(0)
⁶⁴ Ga	1.32(0)	2.28(0)	1.38(0)	⁷¹ Se	1.02(0)	2.19(0)	1.14(0)
⁶⁵ Ga	1.28(0)	2.41(0)	1.30(0)	⁷² Se	9.26(-1)	2.34(0)	1.04(0)
⁶⁶ Ga	1.22(0)	2.54(0)	1.21(0)	⁷³ Se	8.94(-1)	2.53(0)	9.39(-1)
⁶⁷ Ga	1.15(0)	2.69(0)	1.13(0)	⁷⁴ Se	8.16(-1)	2.77(0)	8.37(-1)
⁶⁸ Ga	1.07(0)	2.84(0)	1.05(0)	⁷⁵ Se	1.01(0)	3.35(0)	8.39(-1)
⁶⁹ Ga	9.71(-1)	3.01(0)	9.72(-1)	⁷⁶ Se	1.24(0)	4.19(0)	8.39(-1)
⁷⁰ Ga	9.21(-1)	3.21(0)	9.02(-1)	⁷⁷ Se	1.33(0)	4.37(0)	8.39(-1)
⁷¹ Ga	8.40(-1)	3.44(0)	8.31(-1)	⁷⁸ Se	1.34(0)	4.56(0)	8.39(-1)
⁷² Ga	9.68(-1)	3.86(0)	8.34(-1)	⁷⁹ Se	1.59(0)	4.81(0)	8.38(-1)
⁷³ Ga	1.11(0)	4.35(0)	8.36(-1)	⁸⁰ Se	1.47(0)	5.35(0)	8.39(-1)
⁷⁴ Ga	1.24(0)	4.93(0)	8.37(-1)	⁶⁸ Br	1.18(0)	1.55(0)	1.59(0)
⁷⁵ Ga	1.42(0)	5.71(0)	8.39(-1)	⁶⁹ Br	1.16(0)	1.64(0)	1.48(0)
⁶² Ge	1.32(0)	1.75(0)	1.71(0)	⁷⁰ Br	1.09(0)	1.64(0)	1.41(0)
⁶³ Ge	1.34(0)	1.85(0)	1.61(0)	⁷¹ Br	1.05(0)	1.82(0)	1.26(0)
⁶⁴ Ge	1.39(0)	2.04(0)	1.58(0)	⁷² Br	9.78(-1)	1.94(0)	1.16(0)
⁶⁵ Ge	1.30(0)	2.09(0)	1.43(0)	⁷³ Br	8.94(-1)	2.07(0)	1.04(0)
⁶⁶ Ge	1.26(0)	2.22(0)	1.35(0)	⁷⁴ Br	8.60(-1)	2.28(0)	9.45(-1)
⁶⁷ Ge	1.21(0)	2.36(0)	1.27(0)	⁷⁵ Br	7.98(-1)	2.56(0)	8.39(-1)
⁶⁸ Ge	1.14(0)	2.51(0)	1.18(0)	⁷⁶ Br	1.02(0)	3.29(0)	8.39(-1)
⁶⁹ Ge	1.06(0)	2.67(0)	1.11(0)	⁷⁷ Br	1.13(0)	3.53(0)	8.39(-1)
⁷⁰ Ge	9.59(-1)	2.85(0)	1.03(0)	⁷⁸ Br	1.18(0)	3.77(0)	8.39(-1)
⁷¹ Ge	9.19(-1)	3.02(0)	9.31(-1)	⁷⁹ Br	1.42(0)	4.05(0)	8.38(-1)
⁷² Ge	8.34(-1)	3.21(0)	8.34(-1)	⁸⁰ Br	1.34(0)	4.56(0)	8.39(-1)
⁷³ Ge	9.80(-1)	3.66(0)	8.36(-1)	⁶⁹ Kr	1.12(0)	1.38(0)	1.65(0)
⁷⁴ Ge	1.13(0)	4.21(0)	8.37(-1)	⁷⁰ Kr	1.09(0)	1.44(0)	1.53(0)
⁷⁵ Ge	1.31(0)	4.92(0)	8.39(-1)	⁷¹ Kr	1.05(0)	1.51(0)	1.41(0)
⁷⁶ Ge	1.55(0)	5.98(0)	8.39(-1)	⁷² Kr	9.45(-1)	1.45(0)	1.32(0)
⁷⁷ Ge	1.59(0)	6.04(0)	8.39(-1)	⁷³ Kr	9.30(-1)	1.68(0)	1.18(0)
⁷⁸ Ge	1.56(0)	6.15(0)	8.39(-1)	⁷⁴ Kr	8.41(-1)	1.80(0)	1.05(0)
⁶⁵ As	1.30(0)	1.80(0)	1.58(0)	⁷⁵ Kr	8.25(-1)	2.04(0)	9.53(-1)
⁶⁶ As	1.32(0)	1.94(0)	1.55(0)	⁷⁶ Kr	7.64(-1)	2.40(0)	8.39(-1)
⁶⁷ As	1.24(0)	2.03(0)	1.39(0)	⁷⁷ Kr	9.02(-1)	2.70(0)	8.39(-1)
⁶⁸ As	1.18(0)	2.15(0)	1.30(0)	⁷⁸ Kr	9.82(-1)	2.98(0)	8.39(-1)
⁶⁹ As	1.12(0)	2.28(0)	1.21(0)	⁷⁹ Kr	1.21(0)	3.29(0)	8.38(-1)
⁷⁰ As	1.04(0)	2.43(0)	1.12(0)	⁸⁰ Kr	1.18(0)	3.77(0)	8.39(-1)