Logical Notation	S-Expression
P	P
$\neg\varphi$	(not φ)
$\varphi \wedge \psi \wedge \ldots \wedge \chi$	(and $\varphi\ \psi \ldots \chi$)
$\varphi \vee \psi \vee \ldots \vee \chi$	(or $\varphi\ \psi \ldots \chi$)
$\varphi \rightarrow \psi$	(implies $\varphi\ \psi$)
$\varphi \leftrightarrow \psi$	(iff $\varphi\ \psi$)
$R(a, b...z)$	$(R\ a\ b \ldots z)$
$\varphi \Leftrightarrow \psi$	[EQUIVALENT $\varphi\ \psi$]
$\varphi \Rightarrow \psi$	[SUBSUMES $\varphi\ \psi$]
φ *is a tautology*	[IS φ TAUTOLOGY]
φ *is a contradiction*	[IS φ CONTRADICTION]
φ *is a contingency*	[IS φ CONTINGENCY]
φ *and* ψ *are contradictory*	[CONTRADICTORY $\varphi\ \psi$]
φ *and* ψ *are contrary*	[CONTRARY $\varphi\ \psi$]
φ *and* ψ *are subcontrary*	[SUBCONTRARY $\varphi\ \psi$]