Molecular formula	Name	$\Delta_f H°$/kJ mol^{-1}			$\Delta_f G°$/kJ mol^{-1}			$S°$/J mol^{-1} K^{-1}			C_p/J mol^{-1} K^{-1}		
		Crys.	Liq.	Gas	Crys.	Liq.	Gas	Crys.	Liq.	Gas	Crys.	Liq.	Gas
ClIn	Indium(I) chloride	-186.2		-75.0									
ClK	Potassium chloride	-436.5		-214.6	-408.5		-233.3	82.6		239.1	51.3		36.5
$ClKO_3$	Potassium chlorate	-397.7			-296.3			143.1			100.3		
$ClKO_4$	Potassium perchlorate	-432.8			-303.1			151.0			112.4		
ClLi	Lithium chloride	-408.6			-384.4			59.3			48.0		
$ClLiO_4$	Lithium perchlorate	-381.0											
ClNO	Nitrosyl chloride			51.7			66.1			261.7			44.7
$ClNO_2$	Nitryl chloride			12.6			54.4			272.2			53.2
ClNa	Sodium chloride	-411.2			-384.1			72.1			50.5		
$ClNaO_2$	Sodium chlorite	-307.0											
$ClNaO_3$	Sodium chlorate	-365.8			-262.3			123.4					
$ClNaO_4$	Sodium perchlorate	-383.3			-254.9			142.3					
ClO	Chlorine monoxide			101.8			98.1			226.6			31.5
ClOV	Vanadyl chloride	-607.0			-556.0			75.0					
ClO_2	Chlorine dioxide			102.5			120.5			256.8			42.0
ClO_2	Chlorine superoxide (ClOO)			89.1			105.0			263.7			46.0
ClO_4Rb	Rubidium perchlorate	-437.2			-306.9			161.1					
ClRb	Rubidium chloride	-435.4			-407.8			95.9			52.4		
ClSi	Chlorosilylidyne			189.9									36.9
ClTl	Thallium(I) chloride	-204.1		-67.8	-184.9			111.3			50.9		
Cl_2	Chlorine			0.0						223.1			33.9
Cl_2Co	Cobalt(II) chloride	-312.5			-269.8			109.2			78.5		
Cl_2Cr	Chromium(II) chloride	-395.4			-356.0			115.3			71.2		
Cl_2CrO_2	Chromyl chloride		-579.5	-538.1		-510.8	-501.6		221.8	329.8			84.5
Cl_2Cu	Copper(II) chloride	-220.1			-175.7			108.1			71.9		
Cl_2Fe	Iron(II) chloride	-341.8			-302.3			118.0			76.7		
Cl_2H_2Si	Dichlorosilane									285.7			60.5
Cl_2Hg	Mercury(II) chloride	-224.3			-178.6			146.0					
Cl_2Hg_2	Mercury(I) chloride	-265.4			-210.7			191.6					
Cl_2Mg	Magnesium chloride	-641.3			-591.8			89.6			71.4		
Cl_2Mn	Manganese(II) chloride	-481.3			-440.5			118.2			72.9		
Cl_2Ni	Nickel(II) chloride	-305.3			-259.0			97.7			71.7		
Cl_2O	Chlorine oxide			80.3			97.9			266.2			45.4
Cl_2OS	Thionyl chloride		-245.6	-212.5			-198.3			309.8		121.0	66.5
Cl_2O_2S	Sulfuryl chloride		-394.1	-364.0			-320.0			311.9		134.0	77.0
Cl_2O_2U	Uranyl chloride	-1243.9			-1146.4			150.5			107.9		
Cl_2Pb	Lead(II) chloride	-359.4			-314.1			136.0					
Cl_2Pt	Platinum(II) chloride	-123.4											
Cl_2S	Sulfur dichloride		-50.0										
Cl_2S_2	Sulfur chloride		-59.4										
Cl_2Sn	Tin(II) chloride	-325.1											
Cl_2Sr	Strontium chloride	-828.9			-781.1			114.9			75.6		
Cl_2Ti	Titanium(II) chloride	-513.8			-464.4			87.4			69.8		
Cl_2Zn	Zinc chloride	-415.1		-266.1	-369.4			111.5			71.3		
Cl_2Zr	Zirconium(II) chloride	-502.0											