

Rhenium, pentacarbonylchloro-

Other names:	Rhenium pentacarbonyl chloride Rhenium, pentacarbonylchloro-, (OC-6-22)- Chloropentacarbonylrhenium Chlororhenium pentacarbonyl Pentacarbonylchlororhenium Re(CO)5Cl
Inchi:	InChI=1S/5CO.ClH.Re/c5*1-2;;/h;;;;;1H;/q;;;;;+1/p-1
InchiKey:	JQUUAHKBIXPQAP-UHFFFAOYSA-M
Formula:	C5ClO5Re
SMILES:	[C-]#[O+].[C-]#[O+].[C-]#[O+].[C-]#[O+].[C-]#[O+].[Cl-].[Re+]
Mol. weight [g/mol]:	361.71
CAS:	14099-01-5

Physical Properties

Property code	Value	Unit	Source
hf	-875.00 ± 18.00	kJ/mol	NIST Webbook
hfs	-986.00 ± 18.00	kJ/mol	NIST Webbook
hsub	111.00 ± 2.00	kJ/mol	NIST Webbook
ie	9.18 ± 0.03	eV	NIST Webbook
ie	9.06	eV	NIST Webbook
ie	8.80	eV	NIST Webbook
ie	9.02	eV	NIST Webbook

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C14099015&Units=SI>

Legend

hf: Enthalpy of formation at standard conditions
hfs: Solid phase enthalpy of formation at standard conditions

hsub: Enthalpy of sublimation at standard conditions

ie: Ionization energy

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