

Cobalt, tetracarbonylhydro-

Other names:	Hydridotetracarbonylcobalt Cobalt hydrocarbonyl Cobalt hydrocarbonyl [CoH(CO) ₄] Hydrocobalt tetracarbonyl Tetracarbonylhydridocobalt Tetracarbonylhydrocobalt HCo(CO) ₄ Cobalt, tetracarbonyl hydride-
Inchi:	InChI=1S/4CO.Co.H/c4*1-2;;
InchiKey:	KFQDAZBBZFLQPV-UHFFFAOYSA-N
Formula:	C ₄ HCoO ₄
SMILES:	[C-]#[O+].[C-]#[O+].[C-]#[O+].[C-]#[O+].[Co].[H]
Mol. weight [g/mol]:	171.98
CAS:	16842-03-8

Physical Properties

Property code	Value	Unit	Source
hf	-569.20 ± 2.20	kJ/mol	NIST Webbook
ie	8.70 ± 0.10	eV	NIST Webbook
ie	8.90	eV	NIST Webbook
ie	8.90 ± 0.02	eV	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	28.00	kJ/mol	284.00	NIST Webbook

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C16842038&Units=SI>

Legend

hf:	Enthalpy of formation at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy

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