

Chromium, tricarbonyl[(1,2,3,4,5,6-«eta»)-1,3,5-cycloheptatriene]

Other names:	Chromium, tricarbonyl(1,3,5-cycloheptatriene)- «pi»-Cycloheptatrienetricarbonylchromium (Cycloheptatriene)chromium tricarbonyl Chromium tricarbonyl complex with cycloheptatriene Cycloheptatrienetricarbonylchromium Tricarbonyl(cycloheptatriene)chromium Chromium, tricarbonyl[«eta»6]-1,3,5-cycloheptatriene Tricarbonyl(«eta»-1,3,5-cycloheptatriene)chromium Chromium, tricarbonyl[(1,2,3,4,5,6-«eta»6)-1,3,5-cycloheptatriene]- Tropilidenechromium tricarbonyl tricarbonyl[(1,2,3,4,5,6-«eta»)-1,3,5-cycloheptatriene]chromium
Inchi:	InChI=1S/C7H8.3CO.Cr/c1-2-4-6-7-5-3-1;3*1-2;/h1-6H,7H2;;;;
InchiKey:	RTJMWZLRYSYOEK-UHFFFAOYSA-N
Formula:	C10H8CrO3
SMILES:	C1=CC=CCC=C1.[C-]#[O+].[C-]#[O+].[C-]#[O+].[Cr]
Mol. weight [g/mol]:	228.16
CAS:	12125-72-3

Physical Properties

Property code	Value	Unit	Source
hf	-221.80 ± 9.60	kJ/mol	NIST Webbook
hfs	-309.70 ± 8.70	kJ/mol	NIST Webbook
hsub	94.10	kJ/mol	NIST Webbook
hsub	87.90 ± 4.00	kJ/mol	NIST Webbook
ie	6.90 ± 0.20	eV	NIST Webbook
ie	7.10	eV	NIST Webbook
ie	7.18	eV	NIST Webbook
ie	7.30 ± 0.05	eV	NIST Webbook

Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C12125723&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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