Chromium, tricarbonyl[«eta»6-1,3,5-trimethylbenzene]

Other names: Mesitylene chromium tricarbonyl
Chromium, tricarbonyl[(1,2,3,4,5,6-«eta»)-1,3,5-trimethylbenzene]-
Chromium,tricarbonyl[(1,2,3,4,5,6-«eta»

Inchi: InChI=1S/C9H12.3CO.Cr/c1-7-4-8(2)6-9(3)5-7;3*1-2;/h4-6H,1-3H3;;;;

InchiKey: NIONDGZOEVKXEP-UHFFFAOYSA-N

Formula: C12H12CrO3

SMILES: Cc1cc(C)cc(C)c1.[C-]#[O+].[C-]#[O+].[C-]#[O+].[Cr]

Mol. weight [g/mol]: 256.22

CAS: 12129-67-8

Physical Properties

Property code	Value	Unit	Source
hf	-466.30 ± 9.50	kJ/mol	NIST Webbook
hfs	-574.70 ± 8.50	kJ/mol	NIST Webbook
hsub	108.40 ± 4.20	kJ/mol	NIST Webbook
hsub	108.40	kJ/mol	NIST Webbook
ie	7.29	eV	NIST Webbook
ie	7.33 ± 0.02	eV	NIST Webbook
ie	7.20	eV	NIST Webbook
ie	7.20	eV	NIST Webbook
ie	7.20 ± 0.05	eV	NIST Webbook
ie	6.60 ± 0.10	eV	NIST Webbook
ie	7.05	eV	NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C12129678&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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