

# (Methylbenzene)tricarbonylchromium

<b>Other names:</b>	Chromium, tricarbonyl[«eta»6-methylbenzene] Toluene chromium tricarbonyl Chromium, tricarbonyl[(1,2,3,4,5,6-«eta»)-methylbenzene]- Chromium, tricarbonyl(toluene)- Toluenetricarbonylchromium «pi»-Toluenetricarbonylchromium Toluentrikarbonylchromium «pi»-(Tricarbonylchromium)toluene Tricarbonyl(methylbenzene)chromium Tricarbonyl(toluene)chromium Chromium, tricarbonyl[(1,2,3,4,5,6-«eta»6)-methylbenzene]- tricarbonyl[(1,2,3,4,5,6-«eta»)-toluene]chromium
<b>Inchi:</b>	InChI=1S/C7H8.3CO.Cr/c1-7-5-3-2-4-6-7;3*1-2;/h2-6H,1H3;;;;
<b>InchiKey:</b>	KEXFCQUTYPQKCG-UHFFFAOYSA-N
<b>Formula:</b>	C10H8CrO3
<b>SMILES:</b>	Cc1ccccc1.[C-]#[O+].[C-]#[O+].[C-]#[O+].[Cr]
<b>Mol. weight [g/mol]:</b>	228.16
<b>CAS:</b>	12083-24-8

## Physical Properties

Property code	Value	Unit	Source
hf	-379.20 ± 4.60	kJ/mol	NIST Webbook
hf	-339.10 ± 6.30	kJ/mol	NIST Webbook
hf	-382.70 ± 4.70	kJ/mol	NIST Webbook
hfs	-475.70 ± 4.30	kJ/mol	NIST Webbook
hfs	-472.20 ± 4.10	kJ/mol	NIST Webbook
hfs	-432.10 ± 6.00	kJ/mol	NIST Webbook
hsub	93.00 ± 2.00	kJ/mol	NIST Webbook
ie	6.60 ± 0.20	eV	NIST Webbook
ie	7.29	eV	NIST Webbook
ie	6.70 ± 0.10	eV	NIST Webbook
ie	7.19	eV	NIST Webbook
ie	7.39 ± 0.05	eV	NIST Webbook

# Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C12083248&Units=SI>

## Legend

<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>hsub:</b>	Enthalpy of sublimation at standard conditions
<b>ie:</b>	Ionization energy

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