

# Ferrocene, acetyl-

<b>Other names:</b>	1-Acetylferrocene Acetoferrrocene Acetylferrocene Ethanone, 1-ferrocenyl- Ketone, ferrocenyl methyl Monacetylferrocene Monoacetylferrocene
<b>Inchi:</b>	InChI=1S/C7H7O.C5H5.Fe/c1-6(8)7-4-2-3-5-7;1-2-4-5-3-1;/h2-5H,1H3;1-5H;
<b>InchiKey:</b>	PHMAOJNZIFULOG-UHFFFAOYSA-N
<b>Formula:</b>	C12H12FeO
<b>SMILES:</b>	CC(=O)C12C3C4C5C1[Fe]45321678C2C1C6C7C28
<b>Mol. weight [g/mol]:</b>	228.07
<b>CAS:</b>	1271-55-2

## Physical Properties

Property code	Value	Unit	Source
hsub	115.60 ± 2.50	kJ/mol	NIST Webbook
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pc	3280.00	kPa	Critical point measurement of ferrocene and some of its derivatives
tf	358.70	K	NIST Webbook

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	246.00	J/mol×K	298.00	NIST Webbook

## Sources

Critical point measurement of ferrocene and some of its derivatives: Phase Behavior of the Ternary System Acetylferrocene, The Ionic Liquid 1-Butyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide, and Carbon Dioxide To Be Applied in Friedel Crafts Acylation Reactions: <https://www.doi.org/10.1016/j.fluid.2012.03.021>

<https://www.doi.org/10.1021/je301241k>

## Legend

<b>cps:</b>	Solid phase heat capacity
<b>hsub:</b>	Enthalpy of sublimation at standard conditions
<b>pc:</b>	Critical Pressure
<b>tf:</b>	Normal melting (fusion) point

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